UNIVERSIDADE DE SÃO PAULO
INSTITUTO DE GEOCIÊNCIAS

***Geração e transporte de fundidos em semi-pelitos:
modelagem com dados de campo e pseudosseções***

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DISSERTAÇÃO DE MESTRADO

Programa de Pós-Graduação em Mineralogia e Petrologia

SÃO PAULO

2015

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de campo e pseudosseções

Dissertação apresentada ao Instituto de
Geociências da Universidade de São Paulo
para obtenção do título de Mestre em
Geologia

Área de Concentração:
Petrologia Metamórfica

Orientador:
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São Paulo
2015

Agradecimentos

Agradeço a CAPES pela bolsa de mestrado concedida e a FAPESP pelo financiamento através dos projetos 10/11152-8 e 13/04007-0. Aos professores e funcionários do Instituto de Geociências, sobretudo aqueles que tiveram participação direta na obtenção dos dados apresentados neste trabalho: Zé Paulo e Samuca na fase de preparação de amostras; Angélica, do Laboratório de microscopia óptica; Sandra e toda a equipe do Laboratório de Química e ICP-MS; Paulinho do Laboratório de Fluorescência de Raios X; Marcos e Leandro do Laboratório de Microsonda Eletrônica; ao Jaime da fotografia; e Claudionor e Henrique da gráfica, que fizeram a mágica final acontecer. Obrigada também às equipes dos laboratórios de microsonda eletrônica da UNB e UFRJ.

Ao professor, orientador e guru metamórfico Renato de Moraes, pelo apoio e orientação mesmo nos momentos mais difíceis, pela paciência e, sobretudo, pela confiança. Muito obrigada! Agradeço também aos professores Mário da Costa Campos Neto pelo apoio através do projeto FAPESP 10/11152-8; Ignez Pinho Guimarães e Lucilene Santos, pela gentil disponibilização do Laboratório de Microscopia do Instituto de Geociências da Universidade Federal de Pernambuco. À Vanja Alcântara, responsável pelo Laboratório de Microscopia da SUREG RE (CPRM), também obrigada pelo apoio.

À minha família, em especial meus pais e seus companheiros, minhas irmãs, e também aos meus tios, primos e avós maternos, pela torcida e apoio incondicionais. Ao meu querido companheiro e muso inspirador, Cofrinho Bittencourt Lima, que não só me amparou em todos os momentos, mas contribuiu fundamentalmente para a realização deste trabalho, participando das etapas de campo, microsonda e edição do volume final da dissertação, além das infindáveis e produtivas conversas geológicas.

Aos queridos amigos que tanto facilitam o caminhar nessa vida: Marco CT, por todo o histórico desde a graduação, mas principalmente por me abrigar e cuidar durante a reta final deste trabalho, juntamente com Johny e Firas, tornando suportável até uma hipergripe de verão; e a curva do rio: André bochecha, Marcião, Jannah Cruz, Rapha Riga, Guga, Dante, Xumaço, Lambe, Xeylah, Daniela Piró, Fio, Paulão Akio, Gal, Pelinha e quem mais eu estiver esquecendo, pela salvação e diversão totalmente garantidas.

Ao pessoal da sala B09, Fofona, Mariana, Pedro, GG, Vanessa e Gustavo, pelo suingue e simpatia. Aos professores Hans Daniel Schorscher e Gustavo Correa Abreu, e todas as pessoas que participaram da disciplina Geologia do Espinhaço nos anos de 2012 e 2013. A todas as pessoas que de alguma forma influenciaram positivamente a execução deste trabalho.

Resumo

Visando contribuir para o entendimento dos processos anatéticos em rochas metamórficas de composição semipelítica, este trabalho apresenta dados de campo e modelagem metamórfica, utilizados como ferramentas para a correlação entre biotita xisto e metatexito ricos em quartzo e plagioclásio, com granada, cianita, muscovita, rutilo e ilmenita, pertencentes à unidade Santo Antônio no Sistema de *Nappes* Andrelândia, sul de Minas Gerais. Com o levantamento de campo foi caracterizada a associação cianita + granada + biotita + plagioclásio + muscovita + rutilo + ilmenita + quartzo + leucossoma tonalítico em litotipos que variam de xisto homogêneo a metatexito protoestromático, com o estabelecimento do protobandamento favorecido pela geração e segregação limitada do leucossoma, que aumenta da base para o topo do pacote. A amostragem dos litotipos principais é feita a partir de três pedreiras, da base para o topo: IC01, em que predomina xisto com feições de fusão *in situ* subordinadas às porções granoblásticas e cristais idiomórficos de plagioclásio em veios de quartzo; IC03, dominada por xisto, na base, e metatexito no topo, com ampla distribuição de *patches*, bolsões e veios de leucossoma tonalítico *in situ* ou *in source*; e IC07, caracterizada pelo bandamento de porções de xisto e metatexito, em escalas de 1 cm a 1 m, com leucossoma *in situ* ou *in source* reforçando o bandamento composicional, ou também na forma de veios, *patches* e bolsões que podem truncar a foliação. Com a química de rocha total é evidente que não existem diferenças composicionais significativas entre xistos e metatexitos. A geração de pequenos volumes de leucossoma rico em Si e Na, compatível com as segregações tonalíticas observadas, e resíduo rico em Fe, Mg e K, associado às acumulações de biotita nas suas bordas, não mudou de forma significativa a composição das rochas. A similaridade entre os padrões de elementos terras-raras reconhecidos para os litotipos analisados indica que a anatexia não alcançou condições altas o suficiente para a dissolução e reprecipitação de fases ultraestáveis como monazita e zircão, hipótese sustentada também pela ausência de feldspato potássico no leucossoma. O cálculo de isopletras resulta em topologia semelhante para amostras de IC01 e IC03; o plagioclásio em amostras das três pedreiras apresenta intervalo composicional contínuo entre An15 e An48, com grãos progressivamente mais ricos em albita, partindo dos inclusos em granada, na matriz xistosa ou metatexítica, e no leucossoma. Esta progressão na quantidade de albita é também observada em cristais de IC01 para IC03 e IC07, respectivamente, sentido no qual, em contrapartida, diminuem as diferenças composicionais entre cristais de mesma amostra e diferentes sítios texturais. A variação composicional da muscovita mostra grupos com distintos teores de sódio, sugerindo trajetória metamórfica horária para o pacote metatexítico e a termobarometria otimizada aplicada a IC01 e IC03 resulta em temperaturas de 750 a 850 °C para o pico metamórfico da base para o topo da unidade, respectivamente, em condições de pressão elevada, maior que 8 kbar. Estas evidências caracterizam o metamorfismo invertido atuante na região e demonstram a importância do reconhecimento da anatexia para a interpretação petrogenética de rochas semipelíticas.

PALAVRAS CHAVE: semipelito, wacke, anatexia, migmatito, metatexito, xisto, tonalito.

Abstract

As a contribution to the understanding of partial melting processes in metamorphic rocks of semipelite composition, this work presents field data and metamorphic modeling. They were used as tools for the correlation between biotite schist and metatexites, which are rich in quartz and plagioclase, with garnet, kyanite, muscovite, rutile and ilmenite, both rocks are correlated to the St. Antônio unit, in the Andreilândia Nappe System, south of Minas Gerais, Brazil. From the rocks field descriptions, it was characterized as the main mineral assemblage kyanite + garnet + biotite + plagioclase + muscovite + rutile + ilmenite + quartz + leucosome with tonalite composition, in rock types ranging from the homogeneous schist to the proto-stromatic metatexite. The compositional banding was enhanced by the generation and limited segregation of leucosome, and its proportion is higher from structural bottom to top of unit. Samples of the main rock types were collected in three quarries, from bottom to top: IC01, schist with sparse *in situ* melting features that are limited to the granoblastic portions and idiomorphic plagioclase crystals in quartz veins; IC03, dominated by schist, at the base, and metatexite, on top, with wide distribution of patches, pockets and veins of leucosome with tonalite composition, *in situ* or in source; and IC07, characterized by the compositional banding, varying from schist to metatexite, in bands with thickness ranging from 1 cm up to 1 m, and either *in situ* or in source leucosome veins enhance the compositional banding, although some veins, patches and pockets truncate the main foliation. With the whole rock chemistry analyses it is evident there are no significant compositional differences between schist and metatexite. The generation of small volumes of silicate Na-rich liquid is compatible with tonalite leucosome, and residue rich in Fe, Mg and K, associated with accumulations of biotite at its edges, but has not changed significantly the bulk rock compositions. The similarity of the of rare earth elements patterns for both rock types indicates anatexis did not reach a high degree and dissolution and reprecipitation of ultra-stable phases, as monazite and zircon, did not happen, which is sustained by absence of potassium feldspar in leucosome. The pseudosection modeling and isopleths calculation result in similar topology for samples of IC01 and IC03. Plagioclase crystals of the three quarries present continuous compositional change, between An₁₅ and An₄₈, with progressively more albite-rich crystals starting from the ones that are enclosed in garnet, in schist, metatexite matrix, and leucosome. This increase in the amount of albite is also observed in crystals from IC01 to IC03 and IC07, respectively, direction which, in turn, decrease the compositional differences between crystals of the same sample and different textural sites. The compositional variation of muscovite allows separation in groups with different quantities of Na, suggesting a clockwork *P-T* path to the rock, and optimized thermobarometry applied to IC01 and IC03 results in temperatures of 750-850 ° C for the metamorphic peak from base to top of the unit, in high pressure conditions, higher than 8 kbar. This *P-T* variation, from bottom to top, characterizes an inverted metamorphism in the region and demonstrates the importance of the recognition of anatexis processes for petrogenetic interpretation of semipelite rocks.

KEYWORDS: semipelite, wacke, anatexis, migmatite, metatexite, shale, tonalite.

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Capítulo I – Introdução

O presente estudo tem como objetivo a investigação do processo de anatexia em rochas semi-pelíticas do Sistema de *Nappes* Andrelândia, pertencentes à unidade Santo Antônio (Trouw *et al.*, 2007), tendo como foco a modelagem do processo anatético e sua relação com os distintos litotipos que a caracterizam: cianita-granada-biotita xistos e metatexitos ricos em plagioclásio e quartzo, com muscovita, rutilo e ilmenita, variando de estrutura xistosa ou protobandada a maciça ou localmente estromática, granulação fina a grossa, e flutuações na quantidade modal dos minerais mencionados.

A partir da abordagem geoquímica de rocha total e mineral obteve-se o cálculo de pseudosseções, isopletras de composição mineral e termobarometria através de geotermômetros e barômetros tradicionais (e.g termômetro granada + biotita, geobarômetro GASP), além de cálculo de equilíbrio *PT* via THERMOCALC (versão 3.33), correlacionando assim as variações de fácies e estruturas observadas e os possíveis processos anatéticos atuantes durante o metamorfismo.

Localização

A área estudada localiza-se no sul do estado de Minas Gerais, entre as cidades de Lambari, Cambuquira e Três Corações, cerca de 300 km a nordeste da cidade de São Paulo e 290 km a sudoeste de Belo Horizonte através da rodovia federal Fernão Dias, a BR-381 (localização com malha rodoviária local na Figura 1).

A cidade de Três Corações foi utilizada como base, e os afloramentos estudados em sua maioria localizam-se a leste da rodovia estadual MG-167 (rodovia Claudionor Vasconcelos, que liga Três Corações a Cambuquira) até o limite com o rio Verde, na sub-bacia de seu afluente rio Lambari, sendo acessados através de estradas rurais a partir da MG-167, da BR-267 (Rodovia Vital Brasil, que liga Cambuquira a Caxambu) ou da BR-460 (rodovia Renato Nascimento, que liga Cambuquira a Lambari).

Figura 1 - Localização e malha rodoviária da área de estudos (modificados de DER, MG, no endereço eletrônico: http://www.der.mg.gov.br/mapa_internet2/mapa-rodoviario.htm).

Revisão bibliográfica

Geologia regional

O Ciclo Panafricano-Brasíliano envolve a fragmentação do supercontinente Rodínia em diferentes ciclos, do Toniano ao Neoproterozóico III (de 1000 a 900Ma, por volta de 750Ma e a 600Ma) interagindo diacronicamente com subducção, formação de arcos magmáticos, colisão e aglutinação entre 840Ma a 490Ma, até o estabelecimento do paleocontinente Gondwana Ocidental (Fuck *et al.*, 2008), que viria a constituir a porção sul de Pangea.

O Cráton do São Francisco, nos limites de Almeida (1977), é o referencial estável principal do Ciclo Brasíliano no Brasil Central, sendo bordejado pelas seguintes províncias neoproterozóicas: Província Borborema a norte, a oeste a Província Tocantins e a leste pela Província Mantiqueira (Figura 2).

Figura 2 - Províncias estruturais do Escudo Atlântico segundo Almeida (1977), extraído de Bizzi *et. al.* 2003.

A região da terminação sul da Província Tocantins é objeto de estudos geológicos desde a década de 1950, quando das primeiras caracterizações de ortognaisses do embasamento por Barbosa (1954) e posterior mapeamento geológico sistemático iniciado por Ebert (1956b), cujos estudos se estenderam até a década de 1980 (1955, 1956a, 1956b, 1958, 1968, 1971, 1984), resultando no estabelecimento dos grupos São João Del Rei, Andrelândia e Varginha (Ebert, 1984).

A porção oriental da região foi compartimentada por Heilbron *et al.* (2000) nos domínios tectônicos Andrelândia, Juiz de Fora e Paraíba do Sul, cujos embasamentos correspondem, respectivamente, aos complexos Mantiqueira, Juiz de Fora e Quirino. O bloco ocidental, caracterizado por Paciullo *et al.* (2000), é compartimentado em três megassequências meso- a neoproterozóicas: São João del Rei, Carandaí e Andrelândia, embasadas em complexos gnáissicos e faixas tipo *greenstone belt*, com diversos corpos ígneos associados.

Duas ideias atualmente estão em discussão para a gênese dos metassedimentos que compõem a porção sul do Orógeno Brasília: *i)* o desenvolvimento de bacias em margem continental intraplaca, a chamada Megassequência Andrelândia, com rochas máficas-ultramáficas como registro de proto-oceanos gerados em ambiente distensivo, e

posterior deformação durante o estabelecimento dos orógenos Brasília (província Tocantins) e Ribeira (província Mantiqueira) no Ciclo Brasileiro (Trouw *et al.*, 1980, 1986, Paciullo, 1997, Paciullo *et al.*, 1993, 2000, 2003); *ii*) ou, a partir do reconhecimento de episódios de subducção e colisão durante o fechamento do paleo-oceano Goianides, quando da convergência da Placa Sanfranciscana sob a Placa Paranapanema (Figura 3; Brito Neves *et al.* 1999, Campos Neto 2000, Mantovani e Brito Neves 2005, Campos Neto *et al.*, 2007, Fuck *et al.*, 2008), a justaposição de rochas depositadas em margens passiva e ativa e agora representadas pelas rochas dos Sistemas de *nappes* Carrancas e Andrelândia, respectivamente (Campos Neto, 2000; Campos Neto *et al.*, 2004).

Figura 3 - ConFiguração paleogeográfica dos fragmentos de Rodínia no Neoproterozóico. 1 - Blocos; 2- Cinturões QPC; 3 - Vulcanossedimentares; 4 - Ofiolitos, 5 - Arcos magmáticos; 6 - Áreas cobertas. Extraído de Fuck *et al.*, 2008. O área delimitada pelo retângulo vermelho indica a localização do orógeno Brasília Meridional.

A Megassequência Andrelândia

Paciullo *et al.* (2003) definem a Megassequência Andrelândia (Figura 4) como uma sucessão metassedimentar de idade neoproterozóica, dividida por descontinuidade estratigráfica em duas sequências deposicionais: uma alóctone no topo, e outra mais basal, autóctone, com rochas meta-ígneas associadas. Baseados nos conceitos de estratigrafia de sequências, Andreis *et al.* (1989 a, b) e Ribeiro *et al.* (1990) definiram o ciclo deposicional Andrelândia, além dos ciclos Tiradentes, Lenheiro, e Carandaí. De acordo com estes ciclos, Ribeiro *et al.* (1995) reconheceram três bacias deposicionais proterozóicas na região: Bacia São João Del Rei (1,8-1,3 Ga), Bacia Carandaí (1,3-1,0 Ga) e Bacia Andrelândia (1,0-0,6 Ga). Segundo os autores, a Bacia Andrelândia representa margem passiva com associações de litofácies alóctones e autóctones, interpretadas como sucessões fluviais (associação 1); trato de sistema transgressivo associado a rifteamento incipiente com geração de magmatismo básico (associações 2 a 4); turbiditos representando períodos de mar baixo e instalação de geleiras (base da associação 5); e sedimentação pelítica gerada pela subida glacio-eustática do mar (xistos homogêneos do topo da associação 5, vide Figura 5).

Figura 4 - Mapa geológico regional com ênfase na distribuição da Megassequência Andrelândia (unidades coloridas), com área de estudo demarcada. Extraído e modificado de Paciullo *et al.*, (2003).

Nessa abordagem, a Bacia Andrelândia seria o registro de margem continental intraplaca entre o cráton São Francisco e o bloco Paranapanema, com evolução partindo de rifteamento (associação A1) com geração de proto-oceanos (associações A2 e A6) até estágios de margem continental passiva (associações A3, A4, A5 e A6); o fechamento da bacia teria evolução por dois estágios colisionais, o primeiro Brasileiro e associado com o desenvolvimento da porção sul da Faixa Brasília e outro posterior relacionado à implantação do Orógeno Ribeira.

Na nota explicativa e mapa 1:100.000 da Folha Andrelândia, Paciullo *et al.* (2003) dividiram a Megassequência Andrelândia nas seguintes unidades, do topo para a base (ver Figura 5): Sequência do Turvo - composta pelas unidades Na6 (biotita-xisto, gnaiss com rochas cálcio-silicáticas e anfibolito intercalado) e Na5 (biotita-xisto); e Sequência Carrancas, com as unidades Na4 (xisto cinza, quartzito subordinado), Na3 (quartzito com mica verde, xisto), Na2 (paragneiss, quartzito, xisto, anfibolito) e Na1 (paragneiss e anfibolito), representadas pelas *nappes* Luminárias e São Tomé das Letras, e pela *klippe* Carrancas (Figura 5).

Figura 5 - Estratigrafia da Megassequência Andrelândia (modificado de Paciullo, 1997, em Paciullo *et al.*, 2003).

Na região de Três Corações, MG, Peternel (2000, 2005) define três conjuntos de unidades: o embasamento, constituído por ortognaisses paleoproterozóicos e *greenstone belts*, provavelmente arqueanos; gnaisses, xistos e quartzitos neoproterozóicos, associados à Sequência Depositional Andrelândia e constituintes das *nappes* Luminárias, São Tomé das Letras, Carmo da Cachoeira, Cambuquira, conjunto de *nappes* de Lambari e *nappe* Varginha; e os granulitos da base da *nappe* Guaxupé.

Estruturalmente o autor reconhece duas fases deformacionais contínuas, DB1 e DB2, e um evento metamórfico (MB) de pressão relativamente alta, que representariam o transporte tectônico de topo para ESE a ENE, sofrido pelas *nappes* durante a colisão relacionada à Faixa Brasília. Duas outras fases deformacionais são reconhecidas, DR1 e DR2, e outro evento metamórfico de pressão mais baixa (MR), relacionados à Faixa Ribeira, com dobramento lateral das *nappes* e posterior geração de zonas de cisalhamento transcorrentes, dúcteis-rúpteis, dextrais, com rumo SW-NE.

Os sistemas Socorro-Guaxupé, Andrelândia e Carrancas

Sob outra perspectiva, o orógeno Brasília Meridional representaria a pilha colisional de *nappes* caracterizada por três domínios tectônicos: o arco magmático, desenvolvido na margem continental ativa da placa Paranapanema e representado pelas rochas de alto grau metamórfico da *Nappe* Socorro-Guaxupé; o domínio continental subductado, correspondente ao sistema de *nappes* Andrelândia e onde se localiza a área de trabalho; e domínios com afinidades de margem passiva ou relacionados à placa Sanfranciscana, correspondentes à *Nappe* Lima Duarte e ao Sistema de *Nappes* Carrancas (Figura 6; Campos Neto *et al.* 2004, 2007).

metapsamitos e gnaisses calciossilicáticos subordinados, metamorfisados em condições de fácies anfibolito de alta pressão, e apresenta lascas de rochas metabásicas retroeclogíticas associadas a rochas metaultramáficas. A infraestrutura destas unidades é representada por ortognaisses paleoproterozóicos, ocorrendo domínio em que a anatexia neoproterozóica foi intensa, resultando no Migmatito Alagoa e intrusões de turmalina leucogranito (Campos Neto *et al.*, 2007).

A *Nappe Andrelândia* é definida por coluna litoestratigráfica com metapelitos dominantes na base, seguidos por metawackes na porção intermediária e sequência metapelito-psamítica no topo (Trouw *et al.*, 2000, Campos Neto *et al.*, 2007), com pico metamórfico em condições de 680 °C e 12 kbar (Santos, 2004). O pacote pode ser subdividido, da base para o topo, em três unidades litoestratigráficas (Campos Neto *et al.*, 2007):

Xisto Rio Capivari, correspondente à série metapelítica de até 750 m de espessura, com intercalações métricas esparsas de metapsamitos e rochas máficas, além de raras intercalações de rochas calciossilicáticas, de até 5 m, na porção oeste da *nappe*. Micaxisto porfiroblástico, com predomínio de biotita sobre muscovita e com porfiroblastos de granada e cianita caracterizam o litotipo mais representativo.

Xisto Santo Antônio, representado pelo pacote intermediário composto por metawackes, com intercalações esparsas e pouco espessas de metapsamitos e rochas máficas, sendo granada-biotita-plagioclásio- xisto/gnaisse o litotipo dominante na unidade, com textura granoblástica e granulação fina a média, em geral equigranular (Trouw *et al.*, 1983). Lentes decimétricas de quartzo, subparalelas à foliação, destacam-se na estrutura homogênea do xisto, enquanto em domínios de temperatura mais alta e nas *klippen* são observadas bandas centimétricas brancas, ricas em plagioclásio, ou a geração de leucossoma envelopado por melanossoma de biotita. Na área tipo, Serra de Santo Antônio, a unidade apresenta espessura média de 850 m; sua ocorrência pode se dar, também, em janelas estruturais sob a *Nappe Liberdade* e define, em *klippen* a SE de Aiuruoca, o *duplex* da *Nappe Andrelândia* (Campos Neto *et al.*, 2007).

Xisto Serra da Boa Vista, topo da coluna ocorrendo regionalmente sobre o Xisto Santo Antônio, podendo repousar sobre o Xisto Rio Capivari. O pacote tem espessura maior que 800 m, subdividido na unidade basal metapsamítica, com muscovita-quartzito e muscovita-quartzo-xisto, reconhecida nas Serras da Boa Vista e Cataguazes; e unidade basal metapelítica, de 750 m, com clorita-cianita-granada-biotita-muscovita

xisto porfiroblástico, que se alterna ritmicamente com camadas de quartzito com até centenas de quilômetros de extensão.

Evolução geológica - contribuições da última década

Visando contribuir para o entendimento dos processos atuantes na formação das rochas do Orógeno Brasília em sua porção meridional e a restrição de sua ocorrência na escala de tempo, desenvolveram-se na última década importantes trabalhos integrando dados petrológicos, estruturais, geoquímicos e geocronológicos das unidades reconhecidas.

Para Reno *et al.* (2009), a aglutinação do Gondwana ocidental teve início no Criogeniano, quando da sutura do arco Socorro-Guaxupé, relacionado ao bloco Paranapanema, à margem continental do cráton São Francisco. Através de termobarometria e modelamento com pseudosseções, foram estabelecidas condições de temperaturas maiores que 900 °C e 15 kbar para o pico metamórfico de ortogranulito da *Nappe* Socorro-Guaxupé. Para as rochas da *Nappe* Três Pontas-Varginha o pico metamórfico foi determinando para três porções do empilhamento, com valores de 12 kbar e 870 °C, na base, 15 kbar e 840 °C, da porção central, e 16 kbar e 900 °C, no topo. O estudo das condições de metamorfismo e suas relações temporais foram ainda enriquecidos com análises de termômetro de Ti em zircão e padrões de ETR em cristais de zircão.

Na base granulítica da *Nappe* Socorro-Guaxupé, parte do arco magmático na placa superior, idade de 622 ± 28 Ma foi determinada para grãos de zircão do leucossoma, interpretada como registro da cristalização do fundido anatético residual durante o resfriamento (Reno *et al.*, 2009). Em amostras do retroeclogito que marca o contato entre as *nappes* Liberdade/Três Pontas-Varginha e Andrelândia/Carmo da Cachoeira, a idade de 678 ± 29 Ma foi determinada em grãos de zircão, interpretados como produto da quebra de piroxênio ígneo durante trajetória *P-T* progressiva. A idade foi interpretada como o momento mais próximo às condições de pico metamórfico e é considerada pelos autores como o tempo mínimo para o descolamento da *Nappe* Três Pontas-Varginha/Liberdade da margem passiva em subducção (Figura 7), bem como para o início da própria orogenia brasileira no sul da Faixa Brasília. Para grãos de zircão formados posteriormente ao pico metamórfico, associados à cristalização do fundido residual em leucossoma nos granulitos de alta pressão da *Nappe* Três Pontas-Varginha, idades de 648 ± 12 e 647 ± 11 Ma foram obtidas (Reno *et al.*, 2009), as quais

se sobrepõem às datações obtidas em rochas metamorfasadas em temperaturas ultra-altas do Complexo Anápolis-Itaçu, norte da Faixa Brasília, e para rochas de fácies anfibolito a granulito do complexo Uruaçu, norte da Faixa Brasília.

Figura 7 - Esquema tectônico do empilhamento das nappes causado pelo descolamento da placa subductada e acreção, segundo Reno *et. al.*, 2009.

Reno *et. al.* (2011) apresentam modelo de evolução retrógrada de alta temperatura para granulitos de alta pressão (Figuras 8 e 9) da *Nappe* Três Pontas-Varginha e *klippe* Carvalhos, e para a *Nappe* Carmo da Cachoeira, cuja evolução metamórfica tem alicerce nas idades obtidas por datação *in situ* do sistema (U-Th)-Pb em monazita. Para a *Nappe* Três Pontas-Varginha a trajetória *P-T* pós-pico compreende segmento de resfriamento isobárico de alta pressão/alta temperatura, seguido por descompressão quase isothermal (~750 °C), e novo segmento de resfriamento quase isobárico de baixa pressão (6,5 kbar). Cada pseudosseção que caracteriza as trajetórias dos granulitos residuais apresenta uma temperatura diferente de *solidus* em alta temperatura/alta pressão, entre 780 e 850 °C, sendo mais baixas as temperaturas reconhecidas nos leucossomas (Figura 8). A descompressão em alta temperatura seria consistente com a ocorrência de cianita primária nas rochas da *nappe*; formação de foliação com sillimanita em gnaisses miloníticos na base e topo da *nappe*; e temperaturas calculadas pela quantidade de Ti em cristais de quartzo da matriz milonítica (Reno *et al.*, 2009). Três grupos de idades foram obtidos para essas rochas - 662-655 Ma, interpretada como registro de estágio tardio do metamorfismo progressivo,

próximo às condições de pico; 640-631 Ma, cujas idades podem representar tanto eventos de recristalização como novo crescimento próximo ao *solidus*; e idades entre 620-588 Ma, sendo as idades mais antigas deste intervalo interpretadas como registro de recristalização pela interação com fundido alojado em fraturas do mineral hospedeiro, idades intermediárias entendidas como recristalização da matriz na trajetória retrometamórfica, e idades mais novas atribuídas à recristalização gerada pela entrada de fluidos advindos dos migmatitos na *Nappe* Carmo da Cachoeira subjacente.

Para a *Nappe* Carmo da Cachoeira, Reno *et al.* (2011) estimaram condições de pico metamórfico entre 700 e 820 °C e 11 a 13,5 kbar, considerando a paragénese quartzo + biotita + granada + plagioclásio + cianita $\pm$ ilmenita + fundido silicático + rutilo (Figura 9). Entretanto, os autores consideram que o pico térmico tenha acontecido em condições superiores, a 900 °C e 13,5 kbar, com geração de feldspato potássico consumido para formar biotita na trajetória retrometamórfica, caracterizada como descompressão isothermal em temperaturas próximas a 670 °C e resfriamento isobárico em 6 kbar. Para a unidade, dois grupos de idades foram reconhecidos: o mais antigo, entre 619 e 616 Ma, é interpretado como registro do crescimento de monazita na cristalização de fundido “*in situ*” no segmento retrógrado de alta pressão da trajetória *P-T*; e o grupo mais novo, de 600 a 595 Ma, que registra o estágio tardio de exumação da unidade. Na *klippe* Carvalhos, interpretada como segmento isolado da *Nappe* Três Pontas-Varginha, foram determinados dois grupos de idades para as rochas, o mais antigo entre 619 e 614 Ma, correlacionável ao evento de recristalização da monazita por interação com fundido em fraturas do mineral hospedeiro reconhecido em amostras da *Nappe* Três Pontas-Varginha; e idades entre 595-563 Ma, relacionadas à superposição da Faixa Ribeira (Reno *et al.*, 2011), embora idades semelhantes tenham sido interpretadas de maneira diferente, como época da exumação, para as rochas *Nappe* Três Pontas-Varginha pelos mesmos autores.

Figura 8 - Pseudosseções simplificadas para 4 amostras da *nappe* Tres Pontas Varginha. Extraído de Reno *et. al.*, 2011.

Motta *et al* (2010) consideram 690 °C e 5,6 kbar como as condições *P-T* de descompressão no campo da sillimanita, calculadas para a paragénese quartzo-muscovita- biotita- granada- sillimanita- plagioclásio na base da *Nappe* Andrelândia, 650 °C e 7,4 kbar para a associação estauroлита- muscovita- biotita- granada- cianita- quartzo- plagioclásio, interpretada como o pico metamórfico da *Nappe* Liberdade, e condições acima de 850 °C e 15 kbar para granulito máfico da *klippe* Carvalhos. Embora as condições metamórficas sejam distintas para os segmentos analisados, os autores apresentam para estas rochas trajetórias *P-T* semelhantes, com sentido horário e importante estágio de descompressão isothermal (Figura 10).

Figura 10 - Trajetórias metamórficas inferidas para as rochas das três estruturas: a. sillimanita-granada-biotita xisto da *Nappe* Andrelândia; b. estauroлита- cianita- granada- biotita xisto da *Nappe* Liberdade; c. granulito máfico da *Klippe* Carvalhos. As curvas das reações ou campossão retirados dos seguintes trabalhos: 1. Spear e Cheney (1989); 2. Spear, Kohn e Cheney (1999); 3. Vielzeuf e Holloway (1988); 4. Green e Ringwood (1967); 5. Ito e Kennedy (1971); 6. Patiño-Douce e Beard (1995). Extraído de Motta *et. al.*, 2010.

Contrapondo a derivação de ambiente em margem passiva interpretada por outros autores, Westin e colaboradores (2011, 2013) realizaram estudos da proveniência sedimentar e sua implicação tectônica para o biotita xisto pertencente à Formação Campestre (Trouw *et al.*, 1980) e à Unidade Biotita Xisto (UBX de Westin e Campos Neto, 2013), correlacionadas ao Grupo Carrancas. O estudo geoquímico das rochas levou em conta o conteúdo de elementos maiores, menores, traço e ETR, a composição isotópica dos sistemas Rb-Sr e Sm-Nd e geocronologia U-Pb em zircão *via* LA-MC-ICP-MS. A partir dos dados foi demonstrada a compatibilidade geoquímica entre a UBX e o Xisto Santo Antônio, que apresentam afinidades com ambiente colisional continental e contribuição de rochas ígneas associadas a arco magmático em sua proveniência, com intervalo de deposição estimado entre 630 e 611 Ma. As idades $^{206}\text{Pb}/^{207}\text{Pb}$ em grãos detriticos de zircão com classe modal de 665 Ma são comparadas às idades obtidas no Xisto Santo Antônio e para o magmatismo básico toleítico precursor de rochas eclogíticas da *Nappe* Liberdade (Campos Neto *et al.*, 2011), sendo interpretadas como época de maior atividade ígnea félsica na área fonte de ambas as unidades. Em contrapartida, as rochas da Formação Campestre têm afinidade de margem passiva, com maior contribuição de sedimentos de crosta siálica antiga.

Na *klippe* Carvalhos, as assinaturas geoquímicas dos granulitos aluminosos (metassedimentares) de alta pressão indicam padrões compatíveis com sedimentos pelíticos e compatibilidade arcoseana para granada-feldspato potássico-plagioclásio gnaiss e granada-biotita-plagioclásio gnaiss, cuja composição apresenta grande similaridade com granada-biotita-plagioclásio xistos/gnaisses reconhecidos nas *nappes* de menor grau metamórfico (Cioffi *et al.*, 2012). Tal similaridade, notável tanto na concentração de elementos maiores e traço quanto em padrões de elementos terras-raras, é interpretada pelos autores como evidência da não extração ou pouca migração do fundido gerado. Os autores estimaram ainda, com o termômetro Zr em rutilo (Tomkins *et al.*, 2007), o pico térmico em 850 °C e pico bórico em 16 kbar, através do geobarômetro GASP (Newton e Haselton, 1981).

Metamorfismo e anatexia

Migmatitos: conceitos e características

De acordo com a definição utilizada pela Subcomissão de Sistemática de Rochas Metamórficas da IUGS, migmatitos (do grego *migma* = mistura, portanto rocha mista) são rochas heterogêneas em escala meso a megascópica, com porções claras de aspecto ígneo e porções escuras de aspecto metamórfico.

A primeira classificação sistemática de migmatitos foi elaborada por Mehnert (1968), que os dividiu em doze tipos estruturais, levando em conta a porcentagem de leucossoma, representante da porção fundida, presente na rocha. O modelo gerador de migmatitos apresentado pelo autor considera o sistema fechado, em que o paleossoma, porção da rocha pouco afetada pela fusão, seria quimicamente equivalente à soma do leucossoma, produto quartzo-feldspático já cristalizado da fusão da rocha, com o melanossoma, resíduo sólido da fusão. Estas duas últimas partes constituem o neossoma. Embora esta classificação seja popular até os dias atuais, sua aplicação no campo não auxilia na produção de mapas geológicos de regiões dominadas por migmatitos e rochas associadas. Assim, Brown (1973) propôs a subdivisão dos migmatitos em apenas dois tipos, *metatexito* e *diatexito*, termos que já existiam, mas que tiveram redefinição para uso mais homogêneo a partir de sua proposta. Como o nome sugere, *metatexito* é a rocha em que as estruturas metamórficas ainda encontram-se preservadas e apresentam coerência e continuidade mapeável, mesmo após a fusão, enquanto no *diatexito* a proporção de fusão é alta o suficiente para que a movimentação do líquido gerado perturbe e destrua as estruturas prévias, de modo que qualquer porção remanescente perca a coerência de orientação.

Estudos realizados desde o final da década de 1980 (*e.g.* Sawyer e Barnes, 1988) mostram que o processo de formação de migmatitos é acompanhado por reações progressivas e formação de fases ricas em vapor d'água; Kriegsman (2001) aponta que modelo mais aceito para este processo corresponde à fusão parcial, com ou sem influxo de fluidos. À partir desta base, o autor mostra que as texturas migmatíticas, moda e química dos minerais são governadas por fusão parcial progressiva e segregação em pequena escala, com extração parcial do fundido, reações retrógradas entre fundido e restito, e cristalização do fundido remanescente com liberação de voláteis. Este modelo mostra a formação de parte do melanossoma durante trajetória de resfriamento, questionando o processo de fusão em sistema fechado tido como base para manter a

equivalência composicional entre paleossoma e o neossoma. Sawyer (2001) discute a geração, segregação, distribuição, movimentação e perda do fundido de escala micro a macroscópica, diferenciando o processo em rochas de fácies anfibolito superior e granulito. Neste trabalho são reconhecidos dois tipos de redes de canais de fundido: a rede de drenagem, que redistribui o líquido nas camadas com a progressão da fusão; e a rede de transferência pela qual o volume coletado deixa a camada fonte. Enquanto que nas rochas da fácies anfibolito parte significativa do fundido permanece na fonte geradora, em granulitos o fundido produzido escapa em quase sua totalidade.

Para White e Powell (2002) a geração, segregação e movimentação do líquido em rochas de fácies granulito interferem diretamente na preservação de minerais característicos do pico metamórfico. Assim, a segregação deste líquido, ou seja, seu isolamento do resíduo sólido e sua perda parcial ou total são fundamentais para a preservação da paragênese do pico metamórfico, que é gradualmente destruída durante o resfriamento, graças à reação em presença do fundido. A pseudosseção do sistema NCKFMASH calculada pelos autores demonstra trajetórias de resfriamento que ilustram a evolução do retrometamorfismo de associação característica de fácies granulito, $grt+sill+crd+ksp$, em presença do líquido silicático gerado na fusão, cuja maior quantidade resulta em maior potencial para a destruição da associação de pico metamórfico (Figura 11). Com base nessa relação, pode-se estabelecer a quantidade necessária de líquido removido para preservação, ainda que parcial, da paragênese de pico. Deve-se ressaltar que este é o modelo é o mais simples apresentado pelos autores, sendo que pseudosseções calculadas para múltiplos eventos de extração do fundido devem melhor representar os processos de fusão na natureza.

Figura 11 - Pseudosseção T-X melt loss para metapelito aluminoso a 805 °C com 40% modal de fusão. As setas de A a D representam distintas trajetórias de resfriamento e suas respectivas associações minerais ao alcançar o *solidus*. X' representa a mínima quantidade de líquido removido para a preservação da paragénese de pico metamórfico. Extraído de White e Powell (2002).

Finalmente, Sawyer (2008) atribui ao termo migmatito implicação genética, definindo-o como a rocha que sofreu fusão parcial *in situ*, de forma que se distinga o neossoma composto por leucossoma (fundido cristalizado) e resíduo, que não necessariamente será melanocrático; e o paleossoma, representante da porção da rocha não (ou pouco) afetada pela fusão. O autor destaca a importância da composição da rocha na geração do neossoma e da influência da perda e/ou ganho de fluidos durante o processo, demonstrando que dificilmente a soma entre neo e paleossoma resulta, de fato, na composição do protólito. Nesta definição, o neossoma da rocha pode ser classificado em duas categorias: não-segregado, no qual o líquido cristalizado e a fase peritética residual estão juntos; e segregado, quando há separação entre leucossoma e resíduo. O leucossoma pode ocorrer *in situ*, quando o líquido permanece onde foi gerado; *in source*, quando o líquido sofre migração, mas permanece na rocha geratriz; ou em veios/diques representados pelo líquido que sofreu migração chegando a intrudir outras rochas, mas ainda contextualizados na região de influência da anatexia.

Outros termos utilizados na descrição de migmatitos são *selvedges*, que consistem em filmes de rocha com diferente cor e associação mineral, separando duas partes do migmatito (e.g. filmes de biotita nas bordas de leucossoma); e *schlieren*, fina camada de minerais tabulares, placóides ou prismáticos alinhados em diatexitos. As feições morfológicas são ainda divididas em dois tipos: de primeira ordem, relacionadas à mudança na estrutura com o aumento do grau metamórfico e à quantidade de líquido produzido; e de segunda ordem, relacionadas não só à quantidade de líquido gerada, mas também à deformação sofrida durante o metamorfismo (Figura 12). Além disso a superimposição de deformação pode gerar feições como veios e dobras, classificados como morfologia de terceira ordem dos migmatitos.

Figura 12 - Classificação dos migmatitos em relação à quantidade de fundido e taxa de deformação. Extraída de Sawyer, 2008.

Em relação ao processo de fusão parcial, Vernon e Clarke (2008) classificam dois tipos de reações: a) reações de fusão saturadas em água, em que a fusão ocorre em presença de água livre; e b) reações de fusão insaturadas em água, quando a fusão se dá sem a presença de fluido e a água é gerada pela quebra de minerais hidratados. No primeiro caso as reações de fusão são congruentes, de forma que todos os componentes vão para o líquido gerado, sem formação de novos produtos sólidos. Em contrapartida,

as reações insaturadas são incongruentes, com consumo de fases minerais hidratadas que liberam água para a formação do fundido insaturado em água, e geração de resíduo sólido, novos minerais, através de reações peritéticas. Segundo os autores, este é o tipo de reação de fusão mais comum para rochas crustais, ocorrendo em condições intensas de metamorfismo, em fácies granulito (800 - 1000 °C). O mineral desidratado e a reação específica associada dependem da composição da rocha, bem como das condições do metamorfismo/fusão, fatores também fundamentais no volume de fundido gerado.

Spear *et al.* (1999) apresentam quatro trajetórias *P-T* hipotéticas para metapelitos no sistema NCKFMASH (Figura 13), analisando a fusão de muscovita e biotita com e sem água em excesso, para condições de pressão intermediária. Em geral, a água é disponível apenas pela desidratação de minerais, pois a baixa porosidade garante que ao deixar a rocha ao longo das reações de desidratação, a água ocorra como ínfimo vapor na região de *solidus*. Assim, a quantidade de fusão que ocorre nesta região é pequena e aumenta de volume à partir do início da reação de fusão por desidratação da muscovita ou biotita. Os autores consideraram rochas com associação mineral dada por granada + biotita + sillimanita + muscovita + plagioclásio + quartzo sob trajetórias de aquecimento e resfriamento, em condições isobáricas de pressões médias e baixas, 5 e 3 kbar, e temperaturas médias, entre 530 °C e 730 °C, além de trajetórias em sentido horário e anti-horário, variando entre pressões aproximadas de 2 a 6 kbar e temperaturas de 650 °C a 750 °C.

Figura 13 - Trajetórias P - T hipotéticas para metapelitos compatíveis com o sistema NCKFMASH. Extraído de Spear *et. al.*, 1999.

Neste modelo, a primeira reação de fusão importante sob aquecimento isobárico em pressões próximas a 5 kbar será a desidratação da muscovita em presença de plagioclásio, gerando aluminossilicato, feldspato potássico e líquido, com assimilação pelo fundido, da água produzida. A progressão do aquecimento resulta em crescimento de granada por meio de reação contínua entre biotita e sillimanita; em contrapartida, o resfriamento nestas condições faz com que a reação opere reversamente, com granada sendo consumida para a geração de biotita e sillimanita retrometamórficas. Isto é possível graças à cristalização do fundido, que fornece a água necessária para a reação inversa responsável pela geração de *selvedges* (acumulações de minerais retrometamórficos nas bordas do leucossoma ou dispersos na matriz da rocha), como proposto pelo modelo de Kriegsman (2001). A cristalização total do fundido liberaria a água remanescente formando muscovita retrometamórfica e assim rochas neste contexto seriam caracterizadas por leucossoma abundante e disperso, com *selvedges* de biotita e sillimanita, e núcleos com muscovita tardia ou mesmo cortando toda a foliação. Ainda em trajetória isobárica, porém em condições de pressão de 3 kbar, o início da fusão se dá por quebra de muscovita, granada é produzida pela reação entre biotita e sillimanita, porém a progressão do aquecimento resulta, neste caso, na produção de cordierita. A partir desse momento, o desenvolvimento de granada se dá por reação entre biotita e

cordierita, caso a sillimanita seja consumida primeiro, ou entre cordierita e feldspato potássico, com biotita consumida primeiro. O retrometamorfismo de granada pode dar origem a coroas de cordierita e as rochas serão ricas em feldspato potássico e sem muscovita retrometamórfica.

Considerando a trajetória *P-T* horária com pressão inicial próxima de 6 kbar e temperatura máxima alcançada de 750° C, a progressão do metamorfismo é semelhante àquela observada inicialmente na primeira trajetória isobárica, até que no campo de alta temperatura e baixa pressão a granada passa a ser consumida gerando cordierita retrometamórfica, como na segunda trajetória isobárica. Dessa forma, rochas deste contexto têm leucossoma com feldspato potássico, relações texturais complexas entre leucossoma e porfiroblastos de granada e cordierita e sem muscovita retrógrada. Finalmente, considerando a trajetória *P-T* antihorária, o feldspato potássico é gerado pela desidratação de muscovita e o crescimento de granada está associado à reação entre biotita e sillimanita. A produção de líquido ocorre pela reação entre biotita e/ou feldspato potássico com cordierita, proporcionando o desenvolvimento da granada. Com o aumento da pressão, a cordierita é consumida e biotita e sillimanita são produzidas pelo retrometamorfismo de granada através da liberação de água pela cristalização do líquido, até a geração de muscovita diretamente do fundido remanescente. Estas rochas apresentam feldspato potássico disperso na matriz e muscovita tardia no leucossoma e cortando as estruturas prévias, além de granada de várias gerações e cordierita reliquiar.

Com base neste estudo os autores afirmam que o volume de líquido produzido por uma reação de desidratação é função de dois fatores: quantidade de água liberada pela reação (dependente da estequiometria) e quantidade de água do fundido nas condições de interesse. Em quantidades modais, rochas com 10 a 20% de muscovita produzem de 7 a 14% de líquido. Sob altas pressões e temperaturas moderadas, rochas com esta composição podem produzir apenas 1 a 2% de fundido, o que pode ser de difícil identificação. Em relação à quebra da biotita, composições entre 10 e 20% do mineral podem produzir entre 7 e 14% de líquido, enquanto sob condições de altas pressões e temperaturas até 26% de fundido pode ser gerado (Spear *et al.*, 1999).

Modelagem metamórfica

Powell *et al.* (2009) classificam a modelagem do equilíbrio de rochas metamórficas em dois tipos: modelagem inversa, na qual se interpreta a paragênese principal através de observações, obtendo-se as composições dos minerais para

aplicação de métodos de termobarometria tradicionais, a fim de determinar as condições *PT* para a associação em questão; e a modelagem direta, que através da composição de rocha total permite o cálculo de pseudosseções para consideração das condições e processos de geração envolvidos. A termobarometria, por sua vez, pode ser obtida através de reações diretamente calibradas, como na termometria calculada pela troca de ferro e magnésio em granada e biotita ou o geobarômetro GASP, baseado nas trocas de cálcio e alumínio entre granada, aluminossilicato e plagioclásio; termobarometria otimizada, com base em reações múltiplas obtidas através de banco de dados internamente consistente; ou pelo cálculo de pseudosseções, através do estabelecimento dos campos de estabilidade mineral e cálculo de isopletras composicionais e de moda mineral.

Dois métodos podem ser utilizados para o cálculo do equilíbrio por pseudosseções: minimização da Energia Livre de Gibbs para reconhecimento das paragéneses em equilíbrio, cujo método de interpolação permite a localização dos campos de estabilidade e a construção direta do diagrama, embora possa haver problemas com o estabelecimento dos limites dos campos identificados e limitação no reconhecimento de campos restritos (e.g. PERPLEX, Connolly 1990, 2005, 2009, e Connolly *et. al.*, 1987, 2002); e solução via equações não lineares, através da qual o diagrama é calculado linha por linha, apresentando resultado confiável em relação aos campos de estabilidade e seus limites estabelecidos (THERMOCALC, Powell e Holland, 1988).

No presente trabalho a abordagem do metamorfismo é baseada no cálculo de pseudosseções através do *software* THERMOCALC (Powell & Holland, 1988; banco de dados internamente consistente de Holland e Powell, 1998), com modelamento de isopletras composicionais para biotita, granada, muscovita, plagioclásio e fundido, e termobarometria otimizada para composições associadas ao pico metamórfico das rochas estudadas. Adicionalmente foram calculados resultados de pressão e temperatura através do geobarômetro GASP e termobarômetros de granada + plagioclásio + muscovita + biotita, baseados no banco de dados internamente consistente de Powell e Holland (1998). O barômetro GASP baseia-se na reação $\text{Ca}_3\text{Al}_2\text{Si}_3\text{O}_{12} + 2\text{Al}_2\text{SiO}_5 + \text{SiO}_2 = \text{Ca}_3\text{Al}_2\text{Si}_2\text{O}_8$ que, considerando a reação de equilíbrio $\Delta G_{P,T} = \Delta H_{1,T} - T \cdot \Delta S_T + (P-1) \cdot \Delta V + RT \cdot \ln K = 0$ (Spear, 1993) associada aos dados termodinâmicos, pode ser descrita como $7635 - 19.66T + 0.7963(P-1) + 3T \ln(X_{\text{Ca,Pl}}/X_{\text{Ca,Grt}}) = 0$. A influência das micas foi considerada através da utilização do termômetro granada + biotita, baseado na

reação $\text{Fe}_3\text{Al}_2\text{Si}_3\text{O}_{12} + \text{KMg}_3\text{AlSi}_3\text{O}_{10}(\text{OH})_2 = \text{Mg}_3\text{Al}_2\text{Si}_3\text{O}_{12} + \text{KFe}_3\text{AlSi}_3\text{O}_{10}(\text{OH})_2$, $6266 - 2.35T + 0.029(P-1) + 3\text{In}K_D = 0$ considerando os dados termodinâmicos e a calibração de Battacharya *et al.* (1992); e dos barômetros de granada + plagioclásio + muscovita + biotita (GPMB-Fe/Mg). O cálculo das condições *PT* via tais termobarômetros tradicionais foi realizado através em planilha EXCEL[®] disponibilizada por White (2004).

Materiais e métodos

Esse trabalho é a continuidade de projeto de iniciação científica e trabalho final de graduação da autora (Batista, 2011), portanto os dados quantitativos apresentados aqui são integrados aos destas etapas de trabalho anteriores.

A partir da base cartográfica de Peternel (2000) e mapa geológico do mesmo autor (no relatório Geologia da Folha Varginha, SF-23-V-D-VI, 1:100:000, Trouw *et al.* 2007), foram levantados 67 afloramentos relacionados às unidades geológicas regionais (ver mapa geológico e de pontos, anexo 1) e 7 pequenas pedreiras de brita, a maioria desativadas, com exceção da pedreira IC-03 (Pedreira INCOPE); com coleta de amostras de rocha e dados estruturais com ênfase na unidade Santo Antônio.

A localização dos pontos e orientação geográfica para os trabalhos de campo foram obtidas através do auxílio de Sistema Global de Posicionamento (*GPS* na sigla em inglês), por meio do equipamento Garmin ETREX[™], e por imagens de satélite e mapas disponibilizados por Google[™] e Google Earth[™]. As fotografias dos afloramentos foram capturadas com câmera digital Nikon Coolpix[™]. Após serem serradas, as amostras foram fotografadas no laboratório de fotografia do IGC/USP, com o auxílio do fotógrafo Jaime de Souza Marcos.

Para revisão bibliográfica, os trabalhos consultados foram selecionados na biblioteca do IGC/USP, além de consultas efetuadas em sites de periódicos (e.g. *Precambrian Research*, *Journal of Petrology*, *Journal of Metamorphic Geology*) e em materiais de acervo pessoal. A petrografia foi desenvolvida em sua maior parte nos laboratórios de microscopia óptica do Instituto de Geociências da Universidade de São Paulo (IGC/USP), tendo sido também utilizados os laboratórios do Instituto de Geociências da Universidade Federal de Pernambuco (UFPE) e do Serviço Geológico do Brasil – Superintendência Regional de Recife (CPRM-SUREG/RE).

Das amostras coletadas nas pedreiras relacionadas à unidade Santo Antônio, vinte e três foram selecionadas para análise química de rocha total por Fluorescência de Raios X

(equipamento Philips, modelo PW2400), e quantificação dos elementos terras raras por espectrometria de massa com plasma induzido acoplado (ICP-MS – espectrômetro do tipo quadrupolo, modelo ELAN 6100DRC/PerkinElmer/Sciex), visando avaliar as variações químicas entre os diversos litotipos relacionados à unidade.

Para a realização destes ensaios os seguintes passos foram seguidos para preparação das amostras: a) fragmentação com marreta e separação das porções alteradas; b) diminuição da granulação em prensa hidráulica; c) pulverização em moinho de anéis de ágata durante 30 min, resultando em um pó de granulometria inferior a 200 mesh; c) separação de alíquotas de 7,0g, micronizadas em álcool com cilindros de ágata durante 20min, obtendo-se granulometria menor do que 5 μm ; d) secagem em estufa a 60° C durante dois dias; e) adição de 1,4g de cera, homogeneização e prensagem, obtendo-se pastilhas com 40 mm de diâmetro para análise de elementos traço; f) separação (após a moagem) de alíquotas de 1,0g de amostra, com adição de 9,0g de fundente (mistura 4:1 de metaborato de lítio e tetraborato de lítio); g) fusão a temperatura de 1000°C, resultante, após resfriamento, em discos de vidro com cerca de 40 mm de diâmetro para análise de elementos maiores e menores. Durante todo o processo de preparação, os equipamentos foram limpos a cada amostra com álcool etílico ou acetona para evitar possíveis contaminações.

As análises de química mineral foram realizadas na Universidade de São Paulo (USP), Universidade de Brasília (UnB) e Universidade Federal do Rio de Janeiro (UFRJ). No laboratório da USP foram realizadas as análises de rutilo, com equipamento JEOL JXA-FE-8530, com canhão eletrônico suportado por Field Emission (FE), que permite a melhor resolução espacial da atualidade. As demais análises foram realizadas na Universidade de Brasília (IGc/UNB) e Universidade Federal do Rio de Janeiro, com microsonda modelo JEOL JXA-8230, sempre sob voltagem de aceleração de 15 kV, corrente do feixe de elétrons de 20,1 A, diâmetro do feixe de 5 μm , tempo médio de contagem de 20 segundos e correções do tipo PROZA.

A partir dos dados de química de rocha total, duas amostras, uma da pedreira IC-01 e outra da IC-03, foram selecionadas para o cálculo de pseudosseções e isopletas, realizados com o programa THERMOCALC v3.33 (Powell & Holland, 1988), usando banco de dados termodinâmicos atualizados em 2008 (Holland e Powell, 1998). Além da modelagem com as pseudosseções e isopletas, as condições *P-T* de pico metamórfico foram calculadas a partir de geotermobarômetros tradicionais (termômetro de granada + biotita, barômetros GMPB-Mg, GMPB-Fe e barômetro GASP), termômetro de Zr em

rutilo (Zack *et al.*, 2004; Watson *et al.*, 2006; Ferry e Watson, 2007; Tomkins *et al.*, 2007) e através do cálculo de equilíbrio via THERMOCALC v3.33, utilizando os dados de química mineral obtidos via microsonda.

Capítulo II – Geologia local

O levantamento da geologia local teve como base cartográfica o mapeamento de Peterneil (2000) e Trouw *et al.* (2007) e, além do reconhecimento das unidades regionais aflorantes, o trabalho teve como ênfase a caracterização dos xistos e paragneisses associados à unidade denominada por estes autores de unidade Santo Antônio, com ênfase nas pedreiras denominadas doravante como IC01, IC03 e IC07. Os pontos e estruturas, assim como a articulação das unidades em mapa e seção geológica, são apresentados nos mapas do Anexo 1.

Para composição do mapa geológico (Anexo 1), foram respeitados os contatos de Trouw *et al.* (2007), exceto na porção centro-norte da área, onde a área mapeada como Unidade Arantina foi significativamente diminuída, restringida aos de afloramentos de granada-biotita-muscovita xistos ritmicamente intercalados com muscovita quartzitos e muscovita quartzo xistos, alojados em sinforme sin S_2 (D_2), no topo estrutural da área. Os biotita xistos e paragneisses a granada e cianita, com muscovita e ricos em plagioclásio e quartzo, associados por estes autores à unidade Arantina na região da pedreira IC03, foram interpretados como topo metatexitico da unidade Santo Antônio, interpretação discutida ao longo do presente trabalho.

As unidades estão organizadas em pilhas de *nappes*, com imbricações suhorizontais sin- S_2 evoluindo para cavalgamentos pós S_3 . A unidade Ortognaisse Migmatítico aflora sobre paragneisses da unidade São Vicente, como lente alóctone da infraestrutura ortoderivada, possivelmente correlacionável ao Complexo Mantiqueira. Os quartzitos da unidade São Tomé, correspondente ao sistema de *nappes* Carrancas, estão em contato lateral com o paragneisse São Vicente, este com associação de anfíbolitos e muscovita quartzo xistos, biotita xistos, e metarritmitos, formando com as unidades Santo Antônio e Arantina, sotopostas, o correspondente ao sistema de *nappes* Andrelândia.

Unidade Ortognaises Migmatíticos

Aflora a sul da cidade de Cambuquira, na bacia do córrego Miranda, no fundo do vale e encostas de morrotes e da serra das Águas, em contato de cavalgamento sobre

paragneisses da Unidade São Vicente. A caracterização desta unidade não é objetivo deste trabalho, sendo reconhecidos apenas três pontos relativos a ela.

Nos pontos visitados a rocha é caracterizada por cor cinza clara, granulação média, e composta por quartzo, plagioclásio, feldspato potássico, biotita e epidoto, com bandamento gnáissico bem definido, alternando bandas centimétricas quartzo-feldspáticas granoblásticas e bandas de biotita, lepidoblásticas, ocorrendo também lentes monominerálicas de quartzo. Ocorrem injeções graníticas leucocráticas de textura grossa paralelas ao bandamento. Na serra das Águas, em contato com a Unidade São Vicente, apresenta forte foliação milonítica.

Trouw *et al.* (2007) reconhecem nesta unidade ortogneisses bandados; ortogneisses migmatíticos e ortogneisses diatexíticos, com composição mineralógica variando de biotita-(granada) gnaisses a hornblenda-biotita-(granada) gnaisses, com variação composicional desde sienogranito até tonalito. Relatam ainda intercalações lenticulares de anfibolitos e metaultramáficas.

Unidade São Tomé das Letras - Quartzitos com intercalações de quartzoxistos.

Esta unidade aflora no extremo sudeste da área, sustentando a serra de São Domingos ou Bocaina, intercalado tectonicamente com os paragneisses da Unidade São Vicente. Trata-se de quartzitos a muscovita quartzo xisto granoblástico, com foliação marcada por planos lepidoblásticos de muscovita e pelo estiramento dos grãos de quartzo. Trouw *et al.* (2007), descrevem como acessórios turmalina e opacos, e relatam a maior frequência de muscovita xistos no topo da unidade.

Embora estes autores considerem a unidade São Tomé das Letras como concordante e gradacional sobre a unidade São Vicente, a relação estrutural da área sugere intercalação tectônica entre os pacotes, de forma que neste trabalho optou-se por considerar essa unidade como pertencente a *nappe* São Tomé, integrante do sistema de *nappes* Carrancas.

Unidade São Vicente - Biotita paragneisse bandado, localmente migmatítico, com intercalações de quartzito, muscovita-quartzo xisto e anfibolito

Aflora a sul da cidade de Cambuquira, sob a unidade Ortogneisses Migmatíticos, intercalada tectonicamente com os ortogneisses e a unidade Santo Antônio na encosta da serra das Águas, e com a unidade São Tomé das Letras na serra de São Domingos ou Bocaina.

Predominam granada-biotita-muscovita gnaisses bandados, com alternância de camadas quartzo-feldspáticas, mais ou menos ricas em biotita. De acordo com Trouw *et al.* (2007), as camadas pobres em biotita têm granulometria média à grossa e podem conter grânulos e seixos finos arredondados, de quartzo, feldspatos e litoclastos plutônicos, quartzo-feldspáticos. São rochas ricas em plagioclásio e quartzo, com quantidades variáveis de biotita, muscovita, epídoto, microclínio e localmente granada. Minerais opacos, allanita, apatita, zircão, titanita, rutilo, carbonato e anfibólio são descritos como fases acessórias. Os autores descrevem ainda intercalações de rochas metamáficas e metaultramáficas, não descritas nos levantamentos deste trabalho.

No contato superior com a unidade Santo Antônio, no lado sudeste da serra do Cigano, ocorrem muscovita-quartzo xistos e um corpo de anfibolito de proporções mapeáveis em escala 1:100.000 (unidade São Vicente - muscovita quartzo xistos e quartzitos e unidade São Vicente – anfibolitos, respectivamente), provavelmente correlacionada à denominada “associação superior” de Trouw *et al.* (2007), caracterizada como comuns intercalações de muscovita xistos associados com quartzitos, biotita xistos, anfibolitos e escassos mármores ou xistos carbonáticos. Os afloramentos desta associação são intensa e invariavelmente alterados para cores que variam de vermelho a marrom, ocre e amarelo, com granadas e quartzo ressaltados nas superfícies intemperizadas.

Unidade Santo Antônio - Biotita xisto/metatexito rico em plagioclásio, com granada, cianita, rutilo, muscovita e ilmenita.

Principal unidade aflorante na região estudada, a unidade Santo Antônio sustenta as serras da área central do mapa, como as serras do Palmital, dos Tapajós e do lado noroeste da serra do Cigano, a leste da cidade de Cambuquira, em contato inferior com a unidade São Vicente e contato superior com a unidade Arantina.

De forma geral, são biotita xistos ricos em plagioclásio e quartzo, com muscovita, cianita, granada, ilmenita e rutilo, ocorrendo tanto níveis com foliação bem marcada pelas micas (biotita>>muscovita) predominantes, quanto com aspecto homogêneo (maior porcentagem de plagioclásio e quartzo), com frequentes veios de quartzo paralelos a foliação principal. Apatita, zircão e monazita são fases acessórias comuns.

Estas rochas possuem estrutura xistosa a protobandada gerada pela alternância de lâminas de textura lepidoblástica definidas por biotita, e lâminas quartzo-feldspáticas

que definem porções granoblásticas e granulação variando de fina a grossa. Cianita e granada associam-se às bandas lepidoblásticas de biotita com muscovita subordinada, em quantidades e tamanhos variáveis ao longo do pacote, ocorrendo desde porções onde a cianita é fina e escassa ($<0,3\text{mm}$, $<5\%$) até zonas em que este mineral encontra-se homogeneamente distribuído, bem formado, com cristais euédricos de até 2 mm. A granada ocorre como porfiroblastos que variam entre 0,5 mm e 1 cm de diâmetro, em quantidades de 5 a 15%. Quartzo e plagioclásio perfazem de 20 a 50% da rocha.

Esta variação, associada à variação na quantidade de biotita, entre 20 e 40%, condiciona o aspecto do afloramento das rochas desta unidade. Nas regiões de baixada, com afloramentos escassos e bastante alterados, ocorrem os xistos com foliação proeminente, franca predominância de biotita e subordinação das fases granoblásticas; domínios homogêneos, com maior quantidade de quartzo e plagioclásio, afloram nas encostas e por vezes compõem os topos das serras, como lajes de dimensões métricas, por vezes arredondadas, conhecidas popularmente como “baleias” de rocha.

Lentes e veios localmente pegmatóides compostos de composição tonalítica, descontínuos, paralelos ou levemente oblíquos à foliação, são comuns e apresentam contatos mais abruptos. Também são comuns megacristais de plagioclásio dispersos na matriz, por vezes sigmoidais; e porfiroblastos de granada com feições de coalescência, envoltas por coroas/filmes de plagioclásio, interpretadas como cristalização de filmes de fusão *in situ*; ou com coroas de biotita, interpretadas como possível retrometamorfismo durante a cristalização de fusão *in situ*. Veios de quartzo de espessura centimétrica e comprimentos variáveis, às vezes com mais de 1 metro, concordantes ou truncando a estrutura principal da rocha, muitas vezes em dobras intrafoliais ou formas sigmoidais, são penetrativos em todo o pacote. A ocorrência destas estruturas concordante e discordantemente da estrutura principal evidenciam a diacronicidade de geração de fluidos em relação à fase de deformação principal.

O protobandamento é paralelo à foliação principal S_2 , anastomosada, com pares SC recorrentes em todos os afloramentos, e planoaxial de dobras intrafoliais e de crenulação penetrativa. Localmente observa-se a transposição desta estrutura segundo crenulação caracterizada por dobras assimétricas com planoaxial de alto ângulo (S_3), gerando foliação posterior.

Variações na granulação, estrutura e moda destes minerais, associados às feições de fusão *in situ* e *in source*, são interpretadas como oriundas de processo anatético incipiente a moderado, do topo para a base do pacote. As pedreiras IC-03 e IC-07,

relacionadas por Trouw *et al.* (2007) às unidades Arantina e Santo Antônio, respectivamente, foram interpretadas como domínios metatexíticos similares, compondo o topo mais fundido da unidade Santo Antônio. A caracterização das pedreiras estudadas em detalhe, IC01, IC03 e IC07, e a decorrente modelagem metamórfica obtida para seus litotipos, apresentadas nas próximas seções, servem como base argumentativa para esta interpretação.

Unidade Arantina - Intercalações submétricas de muscovita quartzo xistos, quartzitos e biotita xistos com granada e plagioclásio.

Na porção centro norte da área, em contato concordante com a unidade Santo Antônio, afloram granada-biotita-muscovita xistos ritmicamente intercalados com muscovita quartzitos e muscovita quartzo xistos, em sucessões de camadas lenticulares com espessura de 5 cm a 1 m, comumente subdecimétricas. Para esta unidade Trouw *et al.* (2007) descrevem ainda anfibolitos, quartzitos manganesíferos e rochas calcissilicáticas, não descritas nos levantamentos desse trabalho.

Pedreiras estudadas em detalhe

IC01 – Pedreira desativada de Cambuquira, MG

Na estrada entre Cambuquira e Caxambu, próximo ao ponto de intersecção entre as rodovias BR-267 e MG-456 ocorre pedreira abandonada, em que afloram rochas de cor cinza escura, com foliação anastomosada, homogênea, com lentes ou veios de quartzo com pouco plagioclásio associado. A textura da rocha é lepidogranoblástica (Figura 14) e sua composição é dada por quartzo, plagioclásio e biotita, compondo a matriz, enquanto que muscovita está associada a veios de quartzo ou em planos preferenciais paralelos ao bandamento; cianita, como cristais incolores de até 4 mm, e porfiroblastos de granada, com diâmetro médio de 5 mm e máximo de 6-8 mm, ocorrem dispersos na rocha.

Localmente variações na proporção de biotita pode imprimir à rocha bandamento composicional discreto. Os cristais de cianita estão dispostos no plano da foliação, mas nem sempre acompanham a direção da lineação mineral definida por muscovita e biotita, paralelas aos eixos de crenulação da estrutura principal. Cristais maiores de plagioclásio são comuns e podem ser ou remanescentes de grãos detríticos, ou porfiroblastos, o que é mais provável, pois se apresentam recristalizados. Tais relações minerais e estruturais permitem classificar a rocha como cianita-granada-

muscovita-quartzo-plagioclásio-biotita xisto. A paragénese observada em campo é quartzo + muscovita + plagioclásio + cianita + biotita, típica da zona da cianita, acima das condições de quebra da estaurolita.

Figura 14 - Aspecto geral da pedreira (à esquerda); porfiroclasto de plagioclásio (à direita).

O plano principal de foliação tem atitude N55E/21NW com duas lineações de crenulação: a mais antiga, subhorizontal N60E/01, outras posterior N16E/15, ambas acompanhadas por orientação das micas. Veios, bolsões e porfiroclastos sigmoidais indicam transporte de topo para NE. Os veios de quartzo, com espessura máxima de 5 cm, podem alcançar até 15% do volume em rocha, o que é significativo. Podem se orientar segundo estruturas variadas, ora concordantes com a foliação, subparalelos ou dobrados, além de variações em formas boudinadas e sigmoidais (Figura 15a, b, c, d, e). Além dos veios, ocorrem bolsões com até 60 cm de espessura (Figura 15f), compostos por quartzo, com feldspato e megacristais de muscovita associados, mas subordinados. Eventualmente, estes bolsões estão deformados em formas sigmoidais.

Figura 15 - Distribuição dos veios de quartzo e relações com a encaixante. A: dobras intrafoliais; B: boudin; C e D: dobras transpostas concordantemente à foliação; E: veios oblíquos à foliação; F: indicador cinemático gerado por bolsão quartzo-feldspático deformado.

Ao microscópio a rocha apresenta plagioclásio (20 – 35%), quartzo (10 – 20%), biotita (25 - 40%), granada (5 – 15%), cianita (2 – 10%), muscovita (2 – 8%), e rutilo, ilmenita, zircão, monazita, sillimanita, turmalina e apatita como minerais acessórios; carbonato ocorre em veios microscópicos tardios, cortando a foliação. A estrutura é definida por foliação anastomosada, em que a biotita está concentrada em leitos que definem a foliação e contornam domínios sigmoidais ou amendoados de quartzo e plagioclásio; a sillimanita é muito fina, ocorrendo como fibrolita em diminutos feixes

aleatórios nos contatos entre os cristais de quartzo e plagioclásio das porções granoblásticas. A textura é granolepidoblástica, localmente protomilonítica.

A quantidade de quartzo na matriz condiciona a estrutura observada nas amostras, de forma que nos exemplares onde este mineral é abundante na matriz (IC-01-A2 – Figura 16– IC-01-C2 e IC-01-D2), a biotita apresenta-se subordinada, em placas finas, e a rocha é granoblástica e homogênea; nas amostras em que apresenta quartzo subordinado na matriz (IC-01-B2 – Figura 16 – IC- 01-E3 e IC-01-F3), a estrutura é anastomosada, definida por pares “SC” de micas que evidenciam a atuação de deformação não coaxial.

O plagioclásio da matriz apresenta zanação óptica bem desenvolvida, concêntrica ou não, e bordas recristalizadas. Esses cristais com extinção concêntrica muito intensa são interpretados como sendo de origem ígnea. Estes cristais podem ocorrer associados aos veios de quartzo, onde se apresenta como megacristais isolados, ou como pequenos bolsões nas bordas, ou na porção interna dos veios (Figura 16), onde apresentam hábito mais idioblástico. Dentro dos veios, é comum que vários cristais de quartzo se apresentem em continuidade óptica (Figura 16 – IC-01-D2), o que pode sugerir cristalização a partir de líquido, como os de plagioclásio associados. A muscovita é abundante macroscopicamente, embora ocorra em planos e camadas preferenciais no pacote, enquanto nas seções delgadas ocorre subordinada à biotita, podendo ou nas bordas dos veios de quartzo com plagioclásio. Tais feições são consideradas como indicativas do alcance do campo de fusão, de forma que quartzo e plagioclásio ígneos representariam a cristalização de leucossoma “*in situ*”, enquanto a muscovita poderia representar fase residual ou retrometamórfica.

Figura 16 - Feições de fusão associadas às rochas de IC01: condicionamento da estrutura relacionado à quantidade de quartzo na matriz (IC01A2 e B2); geração de lentes e acumulações de plagioclásio ígneo em borda (IC01C2) e plano interno (IC01D2) de veios de quartzo, este localmente na forma de vários cristais em continuidade óptica IC01(D2); geração de plagioclásio ígneo em borda de veio (IC01E3); e bolsão de plagioclásio ígneo na matriz (IC01E3).

IC03 – Pedreira INCOPE, Três Corações, MG

A Pedreira INCOPE fica localizada na saída leste de Três Corações, na estrada para Cambuquira. A rocha é cinza clara, de granulação grossa a muito grossa, com veios de quartzo ou quartzo-feldspático subparalelos à foliação e lentes pequenas quartzo-feldspática disformes com contatos transicionais para a encaixante. A textura é lepidogranoblástica, gerada pelo notável aumento na quantidade de feldspato e quartzo

em relação à pedreira IC-01, bem como pela maior granulação, embora porções mais finas ainda preservem bandamento fino, que é paralelo à estrutura principal, a xistosidade de atitude N44E/47SE. A foliação em todo o pacote é anastomosada, com leitos lepidoblásticos ricos em biotita ou localmente muscovita, que envolvem domínios ricos em quartzo ou quartzo + plagioclásio, destacando pares SC. Os porfiroblastos de granada apresentam foliação interna discordante da estrutura principal, mas muitas vezes em continuidade com a foliação externa, o que evidencia que foram rotacionados; suas bordas apresentam alteração para biotita, quando próximas às porções quartzo-feldspática, que por sua vez destacam a deformação não coaxial por bolsões sigmoidais e grandes cristais de plagioclásio. Muitos dos bolsões quartzo-feldspático apresentam biotita nas bordas. Granada e cianita são abundantes e os cristais são maiores que em IC-01, com até 2 cm, ocorrem na matriz da rocha. A muscovita apresenta menor proporção modal, subordinada as bandas com textura lepidoblástica, em que é concentrada paralela ou sub-paralela à foliação, na forma de porfiroblastos grossos, que podem ser tardios, dada a granulação, até 5 cm, e sua orientação levemente discordante.

Os veios de quartzo apresentam contato retilíneo com a encaixante, enquanto aqueles quartzo-feldspáticos, bem como as acumulações lenticulares de mesma composição, exibem contatos transicionais com a matriz. Neste caso, filmes milimétricos de biotita (até 5 mm), além de cristais de cianita e granada, podem se associar às bordas destas estruturas, envelopando-as. Estas porções estão dispersas na rocha de forma aleatória (Figura 17), formando veios, bolsões e/ou lentes de um a oito centímetros de espessura, contínuos ou descontínuos, com 1 a 50 centímetros de comprimento, paralelos à foliação. Em alguns casos, a presença de cristais de plagioclásio de 1 a 2 cm nas bordas dos veios de quartzo indicam o aproveitamento destes para a nucleação dos veios/bolsões quartzo-feldspáticos. Estas feições se enquadram no tipo descrito por Sawyer (2008) como *patch migmatite*, ou migmatito incipiente, correspondente a rochas que alcançaram o início das condições de anatexia, gerando leucossoma *in situ*.

Na porção inferior da pedreira ocorre gnaiss fino pobre em muscovita e rico em quartzo, com presença de cianita e granada, e estrutura definida por bandamento composicional fino. A textura é lepidogranoblástica, definida pela orientação de biotita, e a composição mais rica em quartzo é diferente da rocha que predomina na pedreira. Veios quartzo-feldspáticos, com espessura máxima de 3 cm, são paralelos à xistosidade, comportando cristais de feldspato com até 5 cm.

Figura 17 - Distribuição do leucossoma quartzo-feldspático em blocos do patamar superior metatexitico (à esquerda) e inferior xistoso (à direita) da pedreira IC03.

Dez exemplares foram selecionados para petrografia e podem ser definidos em quatro grupos: 1) metatexitito com leucossoma e matriz segregados (IC-03-I2, IC-03-K2, e IC-03-L2); 2) xisto homogêneo interpretado como paleossoma (IC-03-H2); 3) metatexitito homogêneo (IC-03-A2, IC-03-D2, e IC-03-F2); e 4) metatexitito com segregações locais de leucossoma (IC-03-B5, IC-03-C7, IC-03-E3, e IC-03-J2). Todos os exemplares apresentam foliação anastomosada, definida por pares S-C, que são marcados pela orientação de micas e domínios de quartzo + plagioclásio, e cristais sigmoidais de plagioclásio. Isso gera a alternância de bandas com textura granoblástica e lâminas de textuta lepidoblástica, dominada por biotita, mas com granada e cianita associadas.

No paleossoma a distribuição do plagioclásio é homogênea e os cristais acompanham a foliação anastomosada, na forma de grãos sigmoides, com cristais tipo “fish”. São minerais bem formados e embora estejam majoritariamente deformados, localmente ocorrem cristais em continuidade óptica com aspecto ígneo e zonação (IC-03-A2, IC-03-I2, IC-03-L2, Figura 18), concêntrica ou não, bordas recrystalizadas e contatos irregulares, podendo apresentar pequenos ângulos diedrais.

O leucossoma se apresenta na forma de lentes em contatos transicionais com o paleossoma, na forma de bolsões com maior volume de segregação e veios quartzofeldspáticos que estão na fonte, mas não necessariamente *in situ*. É composto por megacristais de plagioclásio soldados por quartzo intersticial (IC-03-K2, Figura 18), que pode ser localmente subordinado em volume, ocorrendo tanto na matriz envolvendo os grãos de plagioclásio, bem como inclusões gótulares nos mesmos. Lâminas de biotita envelopam o leucossoma e apresentam deformação concordante com a observada

na matriz. A ampla ocorrência de bolsões e veios de leucossoma sugere o alcance de condições para remobilização local do líquido gerado, a despeito taxa de fusão relativamente baixa (menor que 30%), pelas altas taxas de deformação a que estas rochas foram submetidas, proporcionando a migração e concentração do líquido em sítios preferenciais.

As amostras de metatexito homogêneo são compostas por plagioclásio (25-45%), quartzo (20%), biotita (20-30%), granada (10-15%), muscovita (2-5%) e cianita (2-5%), além de rutilo, ilmenita, zircão, rutilo, apatita, monazita e turmalina como minerais acessórios, além de diminutos cristais de sillimanita intersticiais nas porções granoblásticas. Embora a mineralogia seja semelhante a das rochas observadas em IC-01, as relações estruturais apresentadas, em conjunto com o aumento da granulação, diminuição da muscovita e aumento na quantidade de quartzo, feldspato e biotita, permitem considerar a intensificação e ampla extensão do processo anatético. A quebra de muscovita gera então o cianita-granada-muscovita-biotita-quartzo-plagioclásio metatexito, com leucossoma quartzo-feldspático e melanossoma de biotita, com cianita e granada associadas.

Figura 18 - Feições de fusão em IC-03: cristais de plagioclásio zonado e em continuidade óptica na matriz (A2, L2); plagioclásio ígneo com quartzo associado (E3), megacristais de plagioclásio na matriz (I2); leucossoma thronjemitico-tonalítico na fonte, com quartzo intersticial apresentando pequeno ângulo diedral (J2); e aglomerado de plagioclásios ígneos com quartzo soldando os contatos (K2).

IC07 – Pedreira Souza Dias, Três Corações, MG

Pedreira abandonada cerca de dois quilômetros a leste da pedreira IC-03. Hoje desativada, pertence ao Sr. Lelé, morador de Cambuquira que gentilmente permitiu o franco acesso à mesma. A Figura 19 abaixo apresenta a visão panorâmica da pedreira, num corte leste-oeste.

Figura 19 - Imagem panorâmica da pedreira IC07, em corte E-W, com indicações dos diferentes patamares de exposição.

De forma geral a rocha é mais escura que a IC03 devido a bancos xistosos com maior quantidade de biotita (resíduo/paleossoma?). Possui granulação fina a média e composição dada por cianita, granada, biotita, plagioclásio, quartzo e muscovita, além de ilmenita, apatita e localmente turmalina. Intercalados aos bancos xistosos ocorrem bandas metatexiticas de granulação grossa com mais quartzo e plagioclásio e com presença de muscovita porfiroblástica contida na foliação (Figura 20.a).

No patamar superior da pedreira (cota 1051m), local de coleta da amostra IC-07C, a rocha exposta trata-se de cianita-plagioclásio-granada-biotita xisto com lentes centimétricas de quartzo grosso paralelas a Sn. Na borda das lentes de quartzo são frequentes *spots* centimétricos de composição tonalítica com biotitas euédricas porfiroblásticas (Figura 20.b). Lentes tonalíticas subcentimétricas a centimétricas ocorrem também isolados em veios de quartzo (Figura 20.c), em meio a níveis mais micáceos e com granadas maiores, sendo que os níveis mais granoblásticos possuem granadas de tamanho constante (~0,4cm) e presença porfiroclastos de plagioclásio isolados. Estas pequenas acumulações tonalíticas são consideradas leucossomas *in situ*.

A foliação principal é milonítica recrystalizada, anastomosada, plano axial de dobras recumbentes intrafoliais (Figura 20.d), com sigmoides de quartzo, definida facilmente pela superfície das lentes de quartzo e também por planos de biotita e planos

delgados de 1 a 2 mm de espessura, com muscovitas porfiroblásticas (algumas chegando a 5 cm). São comuns bolsões e/ou veios tonalíticos, de espessura de 1 a 10 cm e comprimento de 5 a 20 cm, concordantes ou inclinados em relação à estrutura principal, interpretados como leucossoma *in source*. Ainda no patamar superior, ocorre dobramento isoclinal recumbente (Figura 21), de plano axial paralelo a estrutura principal S_2 (rumo de mergulho 068/10; $Lb = 166/05$), com deformação concentrada no flanco inferior. Um pouco mais abaixo, na base do paredão principal da pedreira, a foliação é marcada por lentes menores de quartzo grosso, com atitude 124/05.

No paredão principal os níveis granoblásticos perfazem cerca de 50% da exposição, separados por níveis com frequentes veios de quartzo, lentes de composição tonalítica (leucossoma) e bastante biotita. Na base do paredão, ocorre nível xistoso com megacrístais de apatita verde de até 5cm³ (Figura 22). No patamar inferior (Figuras 23), ocorre alternância de níveis xistosos com níveis de metatexito, sendo mais frequentes os veios e bolsões de leucossoma tonalítico com espessura média de 2 cm (Figura 23.a). Neste patamar o domínio superior é composto por cianita-granada-biotita xisto homogêneo de granulação fina e textura granoblástica e ocorrem bandas de metatexito rico em leucossoma com até 5 cm de espessura; mais abaixo, observa-se contraste de competência com alternância de bandas de até 80 cm de xisto fino com bandas da mesma espessura de metatexito. Localmente pode-se reconhecer a continuidade das acumulações tonalíticas engajadas na estrutura principal, com acúmulo de biotita no contato destas estruturas com a matriz xistosa (Figura 23.b), podendo estar também dobradas assimetricamente, truncando a foliação (Figuras 23.a, 23.c e 23.d).

Figura 20.a - porfiroblastos de muscovita sobre os planos de foliação.

Figura 20.b - Plagioclásio associado a borda de veio de quartzo, em meio a nível granoblástico "homogêneo".

Figura 20.c – *Spot* centimétrico de tonalito isolado em lente de quartzo.

Figura 20.d - Foliação plano axial de dobras recumbentes intrafoliais.

Figura 21 - Dobramento isoclinal recumbente com plano axial paralelo a estrutura principal S_2 e deformação concentrada no flanco inferior

Figura 22- Megaristais de apatita verde

Figura 23.a – Alternância de níveis granoblásticos com níveis de metatexito

Figura 23.b – Bolsões conectados de tonalitos isolando rocha rica em biotita

Figura 23.c – Nivel de metatexito com bolsão de tonalito paralelo a foliação principal e dobrado assimetricamente.

Figura 23.d.- Bolsões irregulares de leucotonalito.

Ao microscópio, as amostras de IC07 possuem granulação média e semelhantemente àquelas de IC03 apresentam alternância entre bandas granoblásticas quartzo-feldspáticas e bandas xistosas lepidoblásticas definidas por biotita, sendo a composição média dada por 35% de plagioclásio, 30% de quartzo, 20% de biotita, 5% de granada, 1% de cianita, 1% de muscovita e ~1 de outras fases acessórias. O aumento na quantidade e granulação de quartzo e plagioclásio resultam em maior segregação

destas fases em relação à matriz xistosa, alternando bandas granoblásticas cada vez mais espessas, que passam da ordem dos 3 mm nas amostras mais homogêneas até 20 mm nos exemplares mais diferenciados.

As porções xistosas são definidas pela orientação de biotita com quartzo e plagioclásio estirados associados, localmente definindo zonas lepidogranoblásticas nas quais quartzo ou plagioclásio pode ser a fase dominante. A estrutura principal nestes sítios é anastomosada, com pares SC, muitas vezes com desenvolvimento de bandas extensionais de cisalhamento C', *fishes* de mica e plagioclásio, *ribbons* de quartzo e segregações quartzo-feldspáticas sigmoidais (Figura 24). Nas bandas granoblásticas, a predominância de quartzo ou plagioclásio varia, com o plagioclásio ocorrendo na forma de grandes cristais subédricos e aglomerações de cristais menores em contatos soldados, semelhantes a bolsões cumuláticos; enquanto o quartzo ocorre na forma de grandes cristais anédricos, cristais menores recristalizados na forma de *ribbons*, subgrãos intersticiais ou inclusões em formas arredondadas (Figura 25).

Figura 24 - Domínios xistosos de IC07: textura lepidogranoblástica definida pela orientação de biotita em placas bem definidas, plagioclásio na forma de cristais de até 0,5 mm com bordas serrilhadas e subordinadamente quartzo, orientados segundo foliação anastomosada (IC07C); bandamento desenvolvido pela segregação da estrutura entre banda lepidoblástica definida por biotita e bandas granoblásticas definidas por *ribbons* de quartzo e cristais de plagioclásio de até 0,5 mm, também estirados (IC07B'); e subdomínio granoblástico de plagioclásio com contatos mais contínuos, sinuosos, quartzo e biotita decussada intersticiais (IC07D).

Figura 25 - Domínios granoblásticos de IC07: predominância de cristais de plagioclásio com até 1 mm de espessura, com bordas irregulares, interlobadas, e inclusões arredondadas de quartzo, que também pode ocorrer como cristais intersticiais ou subgrãos em bordas de grandes cristais de plagioclásio (IC07B, B'); predomínio de quartzo na forma de *ribbons* com biotita decussada e pequenos cristais de plagioclásio subédrico (IC07C); domínio com quartzo e plagioclásio na forma de grandes cristais estirados (IC07D); e domínio de plagioclásio de diversos tamanhos, subédricos, com contatos caracterizados pela presença de filmes ou acumulações intergranulares alteradas para carbonato (Cb), em contraste com banda de domínio quartzoso (IC07F1).

As granadas de IC07 apresentam, em geral, núcleo poiquiloblástico no qual predominam inclusões de plagioclásio subédrico a anédrico, muitas vezes com extinção concêntrica, além de quartzo subordinado, inclusões locais de biotita e rutilo, e diminutas inclusões de monazita e zircão. Tais inclusões apresentam orientação inter-sin-cinemática em relação à estrutura principal da rocha, enquanto as bordas dos porfiroblastos são em geral límpidas, sobrecrecidas às zonas lepidoblásticas definidas por biotita.

A evolução de litotipos homoganeamente xistosos para rochas com bandamento cada vez mais desenvolvido, alternando porções xistosas e metatexíticas, com acúmulo de leucossoma em quantidades e estruturas variadas, é recorrente em todas as pedreiras. Comparativamente, nota-se que apesar da similaridade composicional entre IC01, IC03 e IC07, há aumento respectivamente progressivo na quantidade de fusão reconhecida, acompanhada pelo aumento de granulação e desenvolvimento de bandamento composicional dos litotipos (Figuras 25). Nota-se que nas amostras mais afetadas pela fusão a proporção de plagioclásio e quartzo são próximas, enquanto as porções menos fundidas mostram predomínio do plagioclásio.

O aumento na quantidade de quartzo e plagioclásio, as feições cumuláticas e variação no hábito deste último em diversas amostras, o aumento progressivo da

granulação e o desenvolvimento de estrutura bandada associado a estas feições são interpretados como evidências da fusão. Embora as porções mais xistosas das rochas relacionadas à unidade Santo Antônio possam sugerir caráter mais residual em comparação àquelas com maior volume de fusão, sobretudo nas porções em que há segregação do leucossoma, é difícil distinguir nestes sítios as porções neoformadas daquelas oriundas da rocha metamórfica pré anatexia. Assim, estas porções, muitas vezes designadas nas descrições como matriz, são consideradas como paleossoma – rocha pouco afetada pela fusão, na nomenclatura de Mehnert (1968). O bandamento alternando camadas xistosas e metatexíticas sugere que a fusão ocorreu em camadas ligeiramente mais férteis em termos composicionais, o que reforça a interpretação das bandas xistosas mais como paleossoma que resíduo verdadeiro do processo anatético aqui representado.

Capítulo III – Geoquímica

Química de rocha total

Para avaliação das diferenças composicionais entre os litotipos das pedreiras IC01, IC03 e IC07 foram obtidas análises de rocha total por Fluorescência de Raios X para elementos maiores, menores e alguns elementos traço, e ICP-MS (*Inductively coupled plasma mass spectrometry*) para elementos traço, incluindo os elementos terras-raras. Foram selecionadas amostras de cianita-granada-biotita-quartzo-plagioclásio xisto homogêneo das três pedreiras, cianita-granada-biotita-quartzo-plagioclásio metatexito de IC03 e IC07 e três amostras de leucossoma de IC03.

Em gráfico binário, a distribuição de elementos maiores *versus* sílica (Figura 26) indica empobrecimento progressivo em Al_2O_3 , Fe_2O_3 , MnO , MgO e K_2O do xisto de IC01 para xistos e metatexitos de IC03 e IC07, respectivamente, além de amostras do leucossoma de IC03 ainda mais empobrecidas nestes óxidos. Nota-se, em contrapartida, o aumento de SiO_2 , Na_2O e CaO nas amostras de IC07 em relação às de IC01 e IC03, e nos exemplares de leucossoma de IC03, que apresentam as maiores quantidades destes componentes. Embora apresentem composição próxima, xisto e metatexito de IC03 e IC07 diferenciam-se pelo maior conteúdo de cálcio no primeiro; entre as amostras de xisto nota-se ainda o enriquecimento de cálcio em IC03 e IC07 em comparação a IC01. Estas relações refletem o aumento das quantidades de quartzo e plagioclásio em IC03 e IC07 em detrimento de micas, granada e cianita, presentes em maior quantidade em

IC01. A menor quantidade de cálcio e quantidade ligeiramente maior de sódio no metatexito em relação ao xisto pode indicar mudança composicional nos grãos de plagioclásio presentes nos referidos litotipos, predominando membros sódicos no metatexito e cálcicos no xisto, o que é compatível com as grandes quantidades de sódio observadas nos veios de leucossoma, chegando a quantidades próximas de 6% em proporção molar. A presença de até 1% de TiO_2 no xisto e metatexito reflete a presença de rutilo, como inclusões em granada e cianita ou na matriz destas rochas, e a diminuição do óxido no leucossoma sugere a estabilidade da fase no processo anatético, sem que ocorra sua dissolução e posterior reprecipitação, concentrando o mineral no resíduo ou paleossoma.

Em relação aos elementos menores e traço, também plotados contra sílica, (Figuras 27) observa-se empobrecimento progressivo tanto das fases xistosas para metatextos e leucossoma, respectivamente, como de IC01 para IC03 e IC07, respectivamente, nos teores de Ba, Ni, B, V, Ga, Zr, Pb, Y, Zn e Rb, interpretado como retenção sobretudo de biotita nas amostras menos diferenciadas. O aumento de Sr nas rochas de IC03 e IC07, no metatexito e leucossoma, é compatível com o aumento da quantidade de plagioclásio, enquanto o empobrecimento em elementos como Zr, Hf, Th podem indicar a retenção de fases acessórias como monazita e zircão nas porções menos afetadas por fusão ou o não alcance de condições que permitissem a dissolução e reprecipitação destas fases (Figura 28).

Figura 26 - Elementos maiores *versus* sílica em proporção molar nos litotipos de IC01, IC03 e IC07.

Figura 27 - Elementos menores e traço *versus* porcentagem em óxido de sílica para os litotipos de IC01, IC03 e IC07.

Figura 28 - Elementos traço *versus* porcentagem em óxido de sílica para os litotipos de IC01, IC03 e IC07.

A distribuição de elementos terras raras é apresentada na forma de *spidergrams* normalizados a condrito, manto primitivo e também por uma amostra de xisto homogêneo de IC01, para análise da diferenciação entre os distintos litotipos de IC01, IC03 e IC07 (Figura 29). Em relação ao condrito e manto primitivo, as amostras apresentam enriquecimento com até 100 vezes ETR leves e cerca de 10 vezes ETR pesados para xisto e metatexito, enquanto as amostras de leucossoma apresentam enriquecimento até 10 vezes ETR leves e ETR pesados entre 1 e 10 vezes, ou levemente empobrecidos ao padrão, além de anomalia positiva de európio, indicando o plagioclásio como fase importante nestas amostras. Normalizadas pelo exemplar de xisto de IC01, as demais amostras de xisto e metatexito apresentaram similaridade composicional entre si, o que indica que estes litotipos não tiveram modificações composicionais significantes entre si, como por exemplo a dissolução e reprecipitação das fases acessórias, que em geral retêm os ETR. Esta interpretação é compatível com o empobrecimento destes elementos nas amostras de leucossoma, cuja anomalia positiva de európio sugere o plagioclásio como fase principal da fusão.

Estas características indicam que a fusão ocorreu em condições *P-T* relativamente moderadas (ver Capítulo IV, Metamorfismo e Fusão), e insuficientes para o desenvolvimento de volume de segregação composicional que possibilitasse a

diferença química entre os dois, xisto e metatexito. A dissolução e reprecipitação de fases acessórias refratárias no leucossoma foi insignificante, dada as baixas taxas de fusão implicadas pela química de rocha, o que é refletido nos padrões de ETR, totalmente empobrecidos, com exceção de európio.

Figura 29 - ICP-MS: distribuição de elementos terras raras normalizados a condrito, manto primitivo (Mcdonough & Sun, 1995) e IC01E3 (xisto homogêneo).

Química mineral

Para análise das mudanças composicionais que caracterizam a evolução metamórfica das rochas investigadas, obteve-se a química mineral de cristais de plagioclásio, granada, biotita e muscovita em diversos sítios texturais das amostras de IC01, IC03 e IC07. Nos cristais de plagioclásio e granada as análises foram executadas na forma de perfis ao longo borda-núcleo-borda, buscando ressaltar eventuais variações composicionais registradas ao longo do crescimento dos minerais, enquanto nas micas apenas o par núcleo-borda, quando não somente o núcleo, foram analisados. A adoção deste método consiste no fato de que granada e plagioclásio podem apresentar várias fases de (sobre)crescimento, o que potencializa o isolamento e preservação de núcleos reliquiais, sobretudo na granada, enquanto as micas são facilmente reequilibradas quimicamente a cada etapa do metamorfismo (Spear, 1993).

A variação no teor de anortita no plagioclásio, dos membros finais almandina, piropo, grossulária, espessartita e andradita na granada, e as relações entre Fe e Mg, Al e Si e Na e K nas micas foram os parâmetros utilizados para a avaliação da química dos cristais. De forma geral, os cristais de plagioclásio são ricos em albita, mas podem alcançar composição com teor de anortita de até 48%. A granada é rica na molécula de almandina; biotita apresenta composição típica, com $X_{Mg} < 0,66$ e $0,33 < Al/Si < 0,8$. Muscovita tem ampla solução sólida com paragonita, apresentando até 10% de Na_2O nas amostras de IC03. A Figura 30 apresenta o diagrama ACF com as composições de plagioclásio, granada e biotita obtidas nas amostras das diferentes pedreiras. As seções a seguir apresentam a caracterização completa de cada um dos minerais analisados.

Figura 30 - Diagrama ACF apresentando as composições de plagioclásio (hachura com linhas verticais), granada (hachura com linhas inclinadas) e biotita (hachura quadriculada) nas amostras de IC01 (vermelho), IC03 (azul) e IC07 (verde).

Plagioclásio

Para análise da variação composicional do plagioclásio, foram realizados perfis composicionais em cristais de três sítios texturais diferentes das amostras das pedreiras IC01, IC03 e IC07: matriz (paleossoma/resíduo), leucossoma, e inclusões em granada. Foram analisados 475 pontos em 67 cristais pertencentes à matriz; 263 pontos em 35 cristais do leucossoma e 147 pontos em 29 cristais inclusos em granada, totalizando 894 análises em 137 cristais de plagioclásio (vide anexo 2). O número de pontos em cada perfil variou, de acordo com o cristal em questão e seu sítio textural, entre 3 e 24 análises. Em cristais diminutos, apenas o par núcleo-borda ou a composição do núcleo foram obtidas.

Em amostras da pedreira IC-01, 118 análises foram obtidas em 24 cristais de três amostras: IC01C2, caracterizada pela predominância de veios de quartzo entre os quais se intercalam bandas de espessura centimétrica de matriz homogênea granoblástica; IC01D2, bandamento composicional em escala milimétrica e veio de quartzo paralelizado à estrutura principal; e IC01E3, de estrutura homogênea e textura granoblástica, com concentração local de *ribbons* granoblásticos compostos por quartzo com plagioclásio subordinado. Devido a associação de plagioclásio de aspecto ígneo associado às bordas ou mesmo internos às estruturas de veios e *ribbons* de quartzo, estes

sítios foram interpretados como protoleucossomas. Assim, foram analisados 71 pontos em 15 cristais da matriz, 27 pontos em 5 cristais no leucossoma, e 10 análises em um cristal incluído em granada.

Os cristais da matriz são idioblásticos, com bordas retilíneas bem definidas e geminação ora conspícua, ora ausente, com extinção inclinada, ondulante ou concêntrica, localmente com sinais de recristalização dinâmica marcada por contatos interlobados com assimilação de quartzo através de migração de bordas e *bulging*. Ocorrem também cristais subidioblásticos a xenomórficos, com bordas recristalizadas em torno de núcleos idioblásticos, com marcante extinção diferencial, em geral ondulante a concêntrica, evidenciando fases distintas de crescimento do mineral.

A variação do teor de anortita nos cristais de plagioclásio da matriz de IC01 pode ser vista nos perfis composicionais apresentados na Figura 31: destacam-se dois grupos composicionais maiores, onde se diferenciam os cristais relacionados à amostra IC01D2, com teor de anortita variando entre An_{32} e An_{44} para os cristais relacionados às mais ricas em biotita, com variação errática na extensão borda-núcleo-borda. O segundo grupo é composto pelos cristais das amostras IC01C2 e IC01E3, cujos teores de anortita variam entre An_{20} e An_{32} , sendo que os cristais de IC01C2, rocha rica em veios de quartzo, apresentam os cristais mais albiticos. Embora localmente possa ser reconhecido algum padrão de variação do teor de anortita relacionando estágios de crescimento de núcleo e bordas (e.g. IC01E3-C1PLAG2, Figura 31), há forte sobreposição composicional dos pontos analisados em cada amostra, tornando difícil a interpretação destas variações.

Figura 31 - Perfis composicionais em cristais de plagioclásio na matriz de IC01: teor de anortita *versus* número de análises. Amostras: IC01C2 (azul, linha pontilhada), IC01D2 (vermelho, linha tracejada) e IC01E3 (laranja, linha cheia). Destaque para o enriquecimento em anortita nos cristais pertencentes à matriz com bandamento composicional (IC01D2) e compatibilidade composicional entre os cristais de matriz homogênea de IC01C2 e IC01E3, a primeira apresentando os cristais mais albiticos.

Relacionados aos veios e *ribbons* de quartzo, interpretados como protoleucossomas, cinco cristais de plagioclásio das amostras IC01C2 e IC01E3 foram analisados. São cristais e megacristais xenomórficos a subidioblásticos, com extinção ondulante a concêntrica, geralmente saussuritizados e com bordas recrystalizadas. Estes minerais variam entre An_{13} e An_{31} , e podem apresentar zonação com núcleos mais ricos na molécula de anortita (e.g. IC01C2-C6PLG), sendo os cristais relacionados à IC01E3 os mais ricos em anortita, variando entre An_{24} e An_{31} (Figura 32). Uma inclusão euédrica de plagioclásio em granada foi analisada (Figura 33), apresentando zonação com núcleo de composição An_{40} e bordas mais ricas em Na_2O , com composição variando entre An_{38} e An_{30} (Figura 33).

Figura 32 - Perfis composicionais em cristais de plagioclásio em *ribbons* e veios de IC01: teor de anortita *versus* número de análises – composições albíticas para IC01C2 (linha pontilhada) em relação a IC01E3 (linha cheia). Destaque para a conspícua zonização núcleo-borda presente em todos os cristais analisados.

Figura 33 - Perfil composicional em inclusão de plagioclásio em granada de IC01E3: teor de anortita *versus* número de análises – núcleo anortítico em contraste com bordas mais albíticas.

Para a pedreira IC-03, quatro amostras foram selecionadas: IC03B5, IC03E3 e IC03J2, compostas por matriz metatextítica com porção de leucossoma segregado; e IC03F2, metatextito homogêneo, sem grandes segregações. 331 análises foram executadas em 41 cristais de plagioclásio em distintos sítios texturais: 223 pontos em 25 grãos da matriz, dos quais 3 tiveram somente o núcleo analisado; 79 análises em 8

cristais de leucossoma; e 30 pontos em 7 cristais inclusos em granada. Na matriz, foram analisados megacristais subidioblásticos a sigmoidais/arredondados, com extinção ondulante a concêntrica, com ou sem geminação, muitas vezes com inclusões goticulares de quartzo, e cristais menores, subidioblásticos, com ou sem geminação aparente, extinção variando entre inclinada, ondulante e concêntrica, e comumente deformados segundo a foliação principal. Neste sítio textural o teor de anortita varia entre An_{15} e An_{35} (Figura 34), com dois grupos composicionais destacados: um com maior teor de anortita (An_{27} a An_{31}), representado por cristais das amostras IC03F2 e IC03J2; e o grupo de menor teor de anortita (An_{15} a An_{26}), que abrange a maioria dos cristais analisados. Embora os *ranges* composicionais apresentem sobreposição, é possível reconhecer cristais com núcleo albítico e bordas anortíticas (e.g. IC03E3-C1PL); e cristais nos quais a variação composicional não representa zonação núcleo-borda específica.

Os cristais de plagioclásio associados ao leucossoma das amostras de IC03 (Figura 35) podem ocorrer como megacristais idioblásticos a subidioblásticos, em geral saussuritizados e com inclusões de quartzo, ou como cristais menores, idioblásticos, menos alterados. O teor de anortita nestes cristais varia entre An_{19} e An_{31} , sendo os cristais da amostra IC03J2 os mais ricos em anortita, An_{23} a An_{31} , enquanto um cristal da amostra IC03F2 apresenta a composição mais rica em albita, An_{19} , em contraste com bordas mais cálcicas, An_{22-23} . Com exceção deste, os demais cristais analisados não apresentam contraste bem definido entre os teores de anortita de núcleo e borda. As inclusões de plagioclásio em porfiroblastos de granada das amostras de IC03 (Figura 36) ocorrem como pequenos cristais idioblásticos a xenomórficos, com teor de anortita variando entre An_{24} e An_{36} , podendo-se reconhecer sutil enriquecimento das bordas de alguns cristais em anortita (e.g. IC03J2-C3PLINCLGRT2).

Figura 34 - IC03: cristais de plagioclásio da matriz. IC03B5 (laranja, linha cheia), IC03E3 (roxo, linha pontilhada), IC03F2 (azul, linha tracejada), e IC03J2 (vermelho, linha traço-ponto).

Figura 35 - Perfis composicionais em cristais de plagioclásio do leucossoma de IC03: teor de anortita *versus* número de análises. Amostras: 03B5 (roxo, linha pontilhada), 03E3 (azul, linha cheia), 03F2 (vermelho, linha tracejada), 03J2 (verde, linha com contorno).

Figura 36 - Perfis composicionais de plagioclásio incluído em granadas de IC03: teor de anortita *versus* número de análises. Amostras: 03B5 (linha pontilhada), 03E3 (linha cheia), 03F2 (linha tracejada), 03J2 (linha com contorno).

As amostras de IC07 apresentam bandamento composicional mais desenvolvido, alternando bandas de leucossoma e matriz com espessura de até 1 cm, embora localmente ocorram porções mais espessas de leucossoma segregado. Desta pedreira foram obtidas 445 análises em 72 cristais de plagioclásio, sendo 181 pontos em 27 cristais da matriz; 157 pontos em 22 cristais do leucossoma; e 107 análises em 21 inclusões nos porfiroblastos de granada. Na matriz, o plagioclásio apresenta granulação média (~0,5 mm), distribuição homogênea, hábito subidioblástico, em geral estirado e deformado segundo a estrutura principal, com ou sem geminação aparente, ângulo de extinção variável. Ao contrário de IC01 e IC03, todos os cristais agrupam-se no intervalo de teor de anortita entre An_{27} e An_{34} e embora haja sobreposição nos *ranges* composicionais observados, distinguem-se cristais de núcleo anortítico com bordas albíticas (e.g. PLA1_IC07E_C2); núcleos albíticos com bordas anortíticas (e.g. PLA5_IC07C_C2); e cristais nos quais a variação do teor de anortita não representa um padrão núcleo-borda específico (Figura 37).

No leucossoma, os cristais de plagioclásio apresentam-se como megacristais subidioblásticos, com extinção ondulante a concêntrica, com ou sem geminação aparente, pouco saussuritizados; ou como cristais menores, subidioblásticos a xenomórficos, com extinção ondulante a concêntrica, com ou sem geminação, sem saussuritização. O teor de anortita nestes cristais (Figura 38) varia entre An_{26} e An_{34} , coexistindo cristais com núcleo albítico e bordas anortíticas (e.g. PLA4_IC07E_C4); núcleos anortíticos com bordas albíticas (e.g. PLA3_IC07D); e cristais nos quais a variação composicional não reflete zonação núcleo-borda específica. Em relação às inclusões de plagioclásio em porfiroblastos de granada de IC07, em geral na forma de pequenos cristais idioblásticos, com ou sem geminação, podendo ocorrer também formas subidioblásticas a xenomórficas, as mesmas variações composicionais são observadas (Figura 39): núcleos anortíticos com bordas albíticas (e.g. PLA1_IC07C_C1); núcleos albíticos com bordas anortíticas (e.g. PLA4_IC07E_C2); e predominantemente cristais cuja variação composicional não reflete especificamente zonação núcleo-borda.

Figura 37 - Perfis composicionais em cristais de plagioclásio da matriz de IC07: teor de anortita *versus* número de análises. Núcleos albíticos com bordas anortíticas em vermelho sangue; núcleos albíticos com bordas anortíticas em vermelho escuro; e variação composicional sem padrão núcleo-borda específico em vermelho claro. Atentar para variação núcleo anortítico – borda interna albítica – borda externa anortítica (PLA6_IC07D_C4, em marrom claro) – reflexo de precipitação de fundido seguido de recristalização metamórfica das bordas? Amostras: 07A (linha com contorno), 07C (linha cheia), 07D (tracejado com contorno), 07E (linha traço-pontuada).

Figura 38 - Perfis composicionais de cristais de plagioclásio no leucossoma de IC07: teor de anortita *versus* número de análises. Núcleos albíticos com bordas anortíticas em azul escuro; núcleos albíticos com bordas anortíticas em azul claro; cristais com zonação núcleo-borda interna-borda externa em roxo; cristais sem zonação específica em azul médio. Amostras: 07A (linha com contorno), 07C (linha pontilhada), 07D (linha cheia), 07E (linha tracejada).

Figura 39 - Perfis composicionais em cristais de plagioclásio inclusos em porfiroblastos de granada de IC07: teor de anortita *versus* número de análises. Núcleos anortíticos com bordas albíticas em laranja escuro; núcleos albíticos com bordas anortíticas em laranja médio; cristais com zonação núcleo-borda interna-borda externa em marrom; cristais sem zonação específica em laranja claro. Amostras: 07^a (linha pontilhada), 07C (linha cheia), 07D (linha tracejada), 07E (linha com contorno).

As Figuras 40 a 42 apresentam a dispersão das composições de núcleo e borda de cristais de plagioclásio relacionados à matriz, leucossoma e inclusões de granada das amostras de cada uma das pedreiras pedreiras, IC01, IC03 e IC07. As amostras de IC01 apresentam variação composicional entre An_{17} e An_{41} , com cristais inclusos em granada variando entre An_{30} e An_{41} , da matriz entre An_{22} e An_{41} e os do leucossoma entre An_{16} e An_{31} , ou seja, progressivamente mais ricos na molécula de albita, respectivamente (Figura 40). Em IC03, a variação composicional está entre An_{21} e An_{36} , mas com maior homogeneidade na composição de cristais da matriz e do leucossoma entre An_{20} e An_{30} , sendo dos cristais inclusos em granada os maiores valores de anortita, An_{24-36} (Figura 41). Nas amostras de IC07 a composição dos distintos sítios texturais mostra-se mais homogênea, com cristais de matriz entre An_{28} e An_{34} ; An_{26} a An_{33} para os cristais do leucossoma; e os extremos composicionais observados nas inclusões de granada, que variam entre An_{16} e An_{47} (Figura 42).

A comparação entre as variações da composição de cristais de plagioclásio em sítios texturais análogos de amostras das diferentes pedreiras é apresentada nas Figuras 43, 44 e 45. Em relação aos cristais da matriz o intervalo composicional varia entre An_{17} e An_{39} , sendo que nas amostras de IC01 ocorrem os cristais com composições mais ricas em cálcio, An_{20} a An_{39} ; nas de IC03 as mais ricas em Na, An_{17-35} , e IC07 a composição intermediária, An_{28-34} (Figura 43). Nos cristais de plagioclásio do leucossoma, as amostras de IC01 apresentam as composições mais ricas em albita, An_{13-31} , e IC03 apresenta composição é intermediária entre a primeira e IC07, com as respectivas variações An_{19-31} e An_{26-34} (Figura 44). Nas inclusões em granada observa-se sobreposição composicional entre as amostras, com IC07 abrangendo os extremos composicionais ricos em sódio e cálcio, An_{20-47} , enquanto nas outras amostras as composições estão abrangidas dentro desse intervalo, com IC01 variando entre An_{31} e An_{40} e IC03 entre An_{24} e An_{36} (Figura 45).

A Figura 46 apresenta a variação de todas as análises obtidas em cristais da matriz, leucossoma e inclusões em granada de IC01, IC03 e IC07, definindo intervalo composicional contínuo entre An_{16} e An_{47} , no qual os cristais com composição mais ricos em albita ocorrem na matriz e leucossoma de IC01 e IC03 (An_{16-26}). Os cristais mais ricos em anortita estão relacionados à matriz de IC01 e inclusões de IC01 e IC07 (An_{16-26}); enquanto as composições intermediárias pertencem aos cristais da matriz e leucossoma de IC07, e das inclusões de IC03 e IC07.

Figura 40 - Dispersão das composições de núcleo e borda em cristais de plagioclásio de IC01: em vermelho cristais da matriz; azul para cristais do leucossoma; e laranja para cristais inclusos em granada.

Figura 41 - Dispersão das composições de núcleo e borda em cristais de plagioclásio de IC03: em vermelho os cristais da matriz; azul para cristais do leucossoma; e laranja para cristais inclusos em granada.

Figura 42- Dispersão das composições de núcleo e borda em cristais de plagioclásio de IC07: em vermelho os cristais da matriz; azul para cristais do leucossoma; e laranja para cristais inclusos em granada.

Figura 43 - Variação das composições de núcleo e borda em cristais de plagioclásio da matriz de IC01 (triângulos verdes), IC03 (círculos laranjas) e IC07 (losangos azuis).

Figura 44 - Dispersão das composições de núcleo e borda em cristais de plagioclásio do leucossoma de IC01 (triângulos verdes), IC03 (círculos laranjas) e IC07 (losangos azuis).

Figura 45 - Dispersão das composições de núcleo e borda em cristais de plagioclásio inclusos em granada de IC01 (triângulos verdes), IC03 (círculos laranjas) e IC07 (losangos azuis).

Figura 46 - Dispersão das composições de núcleo e borda em cristais de plagioclásio de IC01 (triângulos), IC03 (círculos) e IC07 (losangos) em diferentes sítios texturais: matriz, em vermelho; leucossoma em azul; e inclusões de granada em laranja.

A variação composicional contínua dos cristais de plagioclásio das amostras dos diferentes sítios texturais analisados em IC01, IC03 e IC07 atesta sua evolução pelo mesmo processo anatético: cristais inclusos em granada mais ricos em anortita; cristais do leucossoma enriquecidos na molécula albíta e cristais da matriz podendo apresentar dois grupos composicionais (IC01 e IC03) registram a geração de líquido sódico, sendo as fases mais anortíticas residuais ou reliquias do que as mais ricas em albíta, enquanto os grupos composicionais da matriz associados à existência de cristais com diferentes padrões de zoneamento núcleo-borda indicam processos de dissolução e reprecipitação nos contatos de plagioclásio da matriz e/ou retenção de fases residuais

neste sítio. A diminuição da discrepância entre as composições de cristais em diferentes sítios texturais nas pedreiras de topo (IC03 e IC07) mostra a extensão de influência da fusão, que começa limitada a veios de quartzo e segregações granoblásticas formando leucossomas *in situ* (IC01) e estende-se de forma penetrativa na rocha formando bolsões ou veios de leucossoma *in situ* ou *in source* (IC03, IC07).

Nos exemplares de IC01, onde há grande quantidade de veios e *ribbons* de quartzo com plagioclásio subordinado, observam-se as primeiras evidências de fusão, formando-se nas porções quartzo-feldspáticas os primeiros cristais de plagioclásio oriundos do líquido neoformado, aqueles mais ricos em albita e em contraste com a matriz em que os cristais são mais ricos em anortita. As rochas em IC03 representam o estágio mais avançado do processo, no qual a fusão é penetrativa, diminuindo o contraste composicional, com segregação de líquido que cristaliza na forma de veios de leucossoma *in situ* ou *in source* com megacristais de plagioclásio. Finalmente, IC07 registra o ápice do processo, com homogeneização composicional atingida provavelmente a partir da penetratividade total da fusão concomitante à evolução do bandamento composicional, e reequilíbrio final favorecido pelo contraste composicional em porções do leucossoma e nos contatos entre granada e inclusões.

Assim, o contraste entre as composições de inclusões, matriz e veios e *ribbons* de IC01 seria o registro do início do processo anatético; a similaridade composicional entre os cristais de leucossoma de IC01 e matriz e leucossoma de IC03 registrariam a evolução da penetratividade da fusão, já com tendência de reequilíbrio; enquanto as composições intermediárias dos cristais de IC07 devem refletir o alcance do reequilíbrio final e recristalização das bordas dos plagioclásios de leucossoma e inclusões. Os cristais inclusos em granada de IC01 devem ser os representantes mais próximos do metamorfismo progressivo original, enquanto aqueles observados nas granadas de IC03 e IC07 já refletem mudanças composicionais relacionadas à fusão. A presença de cristais com zanação núcleo-borda variável entre membros albíticos e anortíticos nos diferentes sítios texturais de IC01, IC03 e IC07 demonstra que os processos de fusão e recristalização foram concomitantes ao longo da evolução destas rochas, embora um ou outro possa ter sido predominante ao longo da trajetória do metamorfismo.

Granada

Vinte e cinco perfis composicionais variando de 3 a 45 pontos foram obtidos em diversos tipos de porfiroblastos de granada nas amostras de IC01, IC03 e IC07: são

cristais com fases de crescimento inter-, sin-, e/ou pós-cinemáticas; ricos em inclusões ou límpidos; predominantemente almandínicos em todas as amostras (Alm₅₅₋₇₂) e, em geral, com forte zonação núcleo-borda. Os perfis composicionais dos cristais analisados são apresentados nas Figuras 47 e 48.

Nas amostras de IC01 foram analisados dois cristais inter- a pós cinemáticos localmente rotacionados, com sombras de pressão pouco desenvolvidas, poucas inclusões, e bordas límpidas crescendo sobre biotita adjacente. Nestes cristais os teores de almandina, piropo, espessartita, grossulária e andradita variam, respectivamente, entre 56 e 62%, 5 e 9%, 2 e 13%, 14 e 22% e ~7%. A zonação núcleo borda é marcada pela variação do par almandina-espessartita, com núcleo e bordas externas enriquecidos em manganês contrastando-se com bordas internas ricas em Fe²⁺. Na amostra IC01C2-C3 (Figura 47) as composições do trio borda-núcleo-borda foram obtidas em um pequeno cristal de granada pós-cinemático sobrecrecido em biotita, relativamente límpido, apresentando apenas diminutas inclusões dispersas aleatoriamente, caracterizado como Alm_{55,5-56}, Py₆₋₈, Sps₂₂₋₂₄, Grs₆₋₈ e And₇. Embora não seja perceptível uma variação composicional considerável, observa-se que o teor do membro magnésiano tem comportamento semelhante ao do membro ferroso, enquanto a grossulária tem discreto aumento em relação à diminuição destes componentes. Na amostra IC01E3-C1 (Figura 47), no qual a granada apresenta núcleo inter- (sin-?) e bordas pós-cinemáticas, o contraste entre grossulária e almandina é conspícuo, alternando núcleo cálcico e bordas ferrosas, com composição Alm₆₀₋₆₄, Py₁₀₋₁₅, Sps₅₋₁₂, Grs₆₋₁₅ e And₇.

As granadas de IC03 podem apresentar até três estágios de crescimento (e.g. 03B5-C10, Figura 47), com núcleos pré-, inter- a sin-cinemáticos, geralmente ricos em inclusões, e bordas mais límpidas sin- a pós-cinemáticas. Estes cristais apresentam composição Alm₅₅₋₇₂, Py₄₋₂₄, Grs₅₋₂₄, Sps₂₋₁₀, e And₇₋₈, ora com zonação núcleo-borda conspícua, ora com variação composicional aleatória ao longo do mineral. Nos cristais com zonação núcleo-borda a variação composicional mostra núcleos depletados e bordas ricas em Fe²⁺; no que se refere às trocas catiônicas observam-se três comportamentos distintos: enriquecimento em Ca e Mn em detrimento de Fe²⁺ e Mg (e.g. 03F2-C7, 03E3-C3 – Figuras 47 e 48), onde a composição é dada por Alm₅₆₋₆₈, Py₄₋₁₉, Grs₆₋₂₄, Sps₂₋₁₀ e And₇₋₈; depleção em Fe²⁺ e Mn com aumento de Ca e Mg (e.g. 03E3-C4, Figura 47), de composição Alm₆₄₋₇₁, Py₁₀₋₁₉, Grs₆₋₈, Sps₂₋₇ e And₇; e aumento de Mg em detrimento ao Fe²⁺, observado na amostra 03B5-C10 de composição Alm₆₄₋

₆₈, Py₁₄₋₂₀, Grs₆₋₇, Sps₃₋₅ e And₇. Para cristais sem zonação núcleo-borda específica observam-se cristais nos quais as trocas catiônicas são marcadas pelo par Fe-Mg (e.g. 03J2-C3, C7; 03B5-C9, Figuras 47 e 48), com composição Alm₆₀₋₇₂, Py₇₋₂₄, Grs₅₋₉, Sps₃₋₅ e And₇; e um cristal no qual observam-se trocas entre os pares Fe-Mn e Ca-Mg, com composição Alm₆₃₋₆₈, Py₁₂₋₁₈, Grs₆₋₁₃, Sps₁₋₇ e And₇.

As granadas de IC07 são em geral sin-cinmáticas, com sombras de pressão ausentes a pouco desenvolvidas, inclusões sem delimitação de estruturas pretéritas e localmente apresentam crescimento em estrutura esquelética. Para avaliação da variação composicional foram realizados perfis núcleo-borda nos cristais bem formados e perfis segmentados em cristais de hábito heterogêneo ou esquelético (e.g. 07A-C3, Figura 48), sendo a composição geral dada por Alm₆₄₋₇₁, Py₁₁₋₁₇, Grs₇₋₁₆, Sps₂₋₅ e And₃₋₇. As trocas catiônicas são marcadas pelo par Fe²⁺-Mg, podendo ocorrer também influência do Ca em alguns cristais (e.g. 07A-C2, Figura 47).

Figura 47 - Perfis composicionais de granada.

Figura 48 - Perfis composicionais de granada.

A análise da dispersão composicional nas granadas de IC01, IC03 e IC07 é apresentada na Figura 49 em função do triângulo Py-Alm+Sps-Grs+And e pelos diagramas Py *versus* Alm+Sps/Grs+And, que destacam as relações apresentadas naquele triângulo. Nestes diagramas observa-se que as amostras de IC03 abrangem o maior *range* composicional, seguida por IC01, enquanto as granadas de IC07 apresentam maior homogeneidade na composição. Os extremos magnesianos são relacionados à IC03, enquanto o máximo e mínimo teores de Alm+Sps são observados nas amostras de IC01. Em relação aos membros grossulária e andradita, as amostras de

IC07 apresentam os menores teores, enquanto a maior porcentagem é observada em cristais de IC03, embora este grupo e o representado pelas amostras de IC01 apresentem amplo *range* composicional com forte sobreposição, principalmente nos membros mais ricos em Grs+And. Nas amostras de IC01, separam-se pelo teor de piropo dois grupos composicionais: o de maior teor, no qual encontram-se os maiores teores de almandina e espessartita, sobretudo nas bordas dos cristais; e o de menor teor, que apresenta as maiores quantidades de grossulária mais andradita, com leve enriquecimento em piropo observado nas bordas. Em IC03 nota-se variação composicional contínua, com leve diferenciação das bordas dos cristais para composições mais ricas em piropo ou almandina, formando um intervalo que sobrepõe as amostras das demais pedreiras. Finalmente, as granadas de IC07 apresentam composição intermediária entre IC01 e IC03, compatível com os exemplares mais magnesianos e menos cálcicos destas pedreiras, e com contraste composicional de núcleo e bordas muito discreto, em geral para membros mais ricos em almandina.

A variação na quantidade de piropo das granadas, aumentando progressivamente dos exemplares de IC01 para IC03 e IC07, reflete o aumento relativo do grau metamórfico da base para o topo e a homogeneidade composicional observada nos cristais de IC07 é compatível com esta interpretação. A presença de porfiroblastos com enriquecimento de Ca, presentes apenas em IC01 e IC03, também podem atestar o metamorfismo progressivo em condições mais brandas de metamorfismo. Por fim, a diminuição na quantidade de cálcio nos membros de maior grau metamórfico deve refletir a transição da assimilação deste elemento pela granada nos estágios de fusão, quando o plagioclásio torna-se mais albitico pela presença do fundido rico em sódio, favorecendo o enriquecimento da granada em grossulária, e o momento de reequilíbrio final com a matriz, após o alcance do *solidus*, com nova troca de Ca com o plagioclásio. Vale ainda ressaltar que o baixo teor relativo de piropo (<25%) observado nas amostras de todas as pedreiras sugere que estas rochas não alcançaram condições superiores à fácies anfibolito, já que rochas de alto grau costumam apresentar entre 40 e 70% deste componente (Deer *et al.*, 1966).

Figura 49 - Dispersão das composições de granadas de IC01 (vermelho), IC03 (verde) e IC07 (azul). No triângulo Py-Alm+Sps-Grs+And as linhas cheias referem-se à composição interna e as linhas tracejadas à composição das bordas dos minerais.

Biotita

Complementando a caracterização da paragênese principal de IC01, IC03 e IC07, 108 análises foram executadas em 69 micas localizadas em distintos sítios texturais das diversas amostras, sendo 62 análises em 35 cristais de biotita e 46 pontos em 34 exemplares de muscovita. Em IC01 foram analisados 12 cristais de biotita da matriz variando desde pequenos exemplares decussados na matriz granoblástica até cristais envolvidos no envelopamento grandes cristais de plagioclásio ou no desenvolvimento de faixas lepidoblásticas, totalizando 28 análises; e 14 cristais de muscovita, ora pouco desenvolvidas e subordinadas nas porções lepidoblásticas da matriz, ora na forma grandes cristais idioblásticos relacionados às porções granoblásticas com desenvolvimento de leucossoma ou associados a megacristais de plagioclásio, somando 23 análises. Em IC03 foram obtidas as composições de 25 pontos em 14 cristais de biotita na matriz, leucossoma, e também associados a megacristais de plagioclásio e porfiroblastos de granada; além de 15 análises em 12 cristais muscovita nestes mesmos sítios. Não foram obtidas análises de muscovita para as amostras de IC07.

Nas análises de biotita de IC01 observa-se um *trend* composicional contínuo de XMg entre 0,45 e 0,56 e razão Al/Si entre 0,59 e 0,65, no qual as amostras IC01C2, rica em veios; IC01D2, de estrutura microbandada; e IC01E3, de estrutura mais homogênea, são progressivamente mais ricas em magnésio e alumínio, com XMg variando entre 0,45 e 0,49; 0,49 a 0,53; e 0,53 a 0,56, respectivamente. Em IC01C2 e IC01E3 observa-se ainda ligeiro enriquecimento deste elemento nas bordas dos cristais, enquanto em IC01D2 ocorrem bordas tanto enriquecidas quanto empobrecidas em Mg em relação aos respectivos núcleos (Figura 50). Em IC03 o XMg varia entre 0,48 e 0,6, com razão Al/Si entre 0,59 e 0,64, sendo os menores teores de Mg observados em cristais relacionados a borda (XMg=0,48) e inclusão (XMg=0,53) de granada, enquanto o maior teor deste elemento, bem como a maior razão de Al/Si encontram-se em cristais da matriz (XMg=0,6 e Al/Si=0,64, respectivamente), com a maior parte dos dados concentrados entre XMg₅₄₋₅₇ e Al/Si_{0,59-0,61} (Figura 51). Finalmente, a biotita de IC07 apresenta teor de Mg entre 0,56 e 0,62, distinguindo-se os cristais de 07A, que concentram-se em dois grupos: XMg₅₆₋₅₈ Al/Si_{0,57-0,58} e XMg₅₇₋₅₉ Al/Si_{0,53-0,55}; e os cristais de 07C, dos quais duas amostras ocorrem no intervalo XMg₅₇₋₅₉ Al/Si_{0,59-0,6} e uma com XMg₆₂ Al/Si_{0,58} (Figura 52).

A análise da dispersão composicional inter-relacionando as amostras das três pedreiras (Figura 53) mostra os maiores teores de Mg para IC07 (0,56 a 0,62), que apresenta menor razão Al/Si (0,53 a 0,60); enquanto os menores valores de XMg ocorrem em IC01 (0,45 a 0,55), cujas razões Al/Si são mais elevadas (0,59 a 0,65). IC03 apresenta composição intermediária entre IC01 e IC07, com XMg entre 0,48 e 0,60, compatível com as amostras de IC07, mas com razão Al/Si entre 0,59 e 0,64, compatível com as amostras de IC01. Todas as amostras plotam no campo $XMg < 0,66$ e $0,33 < Al/Si < 0,8$; sendo portanto classificadas como biotitas verdadeiras com base no diagrama de Deer *et al* (1966) para classificação de biotitas.

Figura 50 - Teor de Mg vs Al/Si em biotitas da matriz de IC01: amostras 01C2, 01D2 e 01E3 em laranja, azul e verde, respectivamente. Formas cheias referem-se às análises no núcleo e formas vazias às bordas dos cristais.

Figura 51 - Teor de Mg vs Al/Si em biotitas de IC03 em sítios texturais distintos: matriz (triângulos), inclusão em granada (cruz), borda de granada (quadrado), inclusão em plagioclásio (losango) e borda de plagioclásio (círculo). Amostras: 03B5 (azul), 03E3 (laranja), 03F2 (vermelho) e 03J2 (verde). Formas cheias referem-se às análises no núcleo e formas vazias às bordas dos cristais.

Figura 52 - Teor de Mg vs Al/Si em biotitas da matriz de IC07: amostras 07A-C2 e 07C-C1 em azul e vermelho, respectivamente.

Figura 53 - Teor de Mg vs Al/Si em biotitas de IC01 (laranja), IC03 (verde) e IC07 (vermelho) em sítios texturais distintos: matriz (triângulos), inclusão em granada (cruz), borda de granada (quadrado), inclusão em plagioclásio (losango) e borda de plagioclásio (círculo). Formas cheias referem-se às análises no núcleo e formas vazias às bordas dos cristais.

Muscovita

Os teores de K e Na (Figuras 54 e 55) foram utilizados como base para a classificação da muscovita, separando-se em dois grupos as amostras de IC01: as amostras de 01E3, ricas em Na, e as amostras de 01C2, relativamente empobrecidas. Em IC03 o teor de Na de cristais da matriz é bastante variável e não distingue grupos composicionais específicos. Uma abordagem mais completa a respeito da composição da muscovita é apresentada no Capítulo IV – Metamorfismo e Fusão.

O aumento progressivo na quantidade de Mg das biotitas de IC01, IC03 e IC07 respectivamente, pode sugerir aumento relativo do grau metamórfico entre estas três pedreiras. A presença de Na em muscovitas de IC01 e IC03 em quantidades à partir de 2% (em relação ao K) podem indicar solução sólida com membro paragonítico, cuja quebra em presença de água ainda em fácies anfibolito poderia, juntamente com a fusão de quartzo+feldspato, contribuir para a geração de líquido sódico.

Figura 54 - Muscovitas de IC01: Teores de Na vs K para para cristais do leucossoma (quadrado), da matriz (triângulo) e inclusões em plagioclásio (losango). Amostras 01C2 (laranja) e 01E3 (verde).

Figura 55 - Muscovitas de IC03: Teores de Na vs K para cristais da matriz (triângulo) e cristais associados a granada (losango). 03B5 (azul), 03E3 (laranja), 03F2 (vermelho) e 03J2 (verde). Formas cheias referem-se às análises no núcleo e formas vazias às bordas dos cristais.

Capítulo IV – Metamorfismo e Fusão Parcial

A investigação do metamorfismo e fusão parcial das rochas da unidade do Santo Antônio é feita a partir da petrografia detalhada, conjugando com os dados de química mineral e de rocha, já apresentados, a termobarometria e modelagem com pseudosseções.

Todos os cálculos de pseudosseções foram feitos com o programa THERMOCALC v3.33 (Powell e Holland, 1988), usando banco de dados termodinâmicos atualizados em 2008 (Holland e Powell, 1998). Além da modelagem com as pseudosseções, as condições P - T de pico metamórfico foram calculadas a partir de geotermobarômetros tradicionais (e.g. termômetro de granada + biotita, barômetro GASP), termômetro de Zr em rutilo (Zack *et al.*, 2004; Watson *et al.*, 2006; Ferry & Watson, 2007; Tomkins *et al.*, 2007) e através do cálculo de equilíbrio via THERMOCALC v3.33.

Modelagem metamórfica

Tendo em vista a similaridade composicional em termos de rocha total dos litotipos relacionados à unidade Santo Antônio e o reconhecimento das evidências de fusão parcial *in situ* e *in source* sem produção de feldspato potássico no resíduo ou leucossoma, a modelagem do metamorfismo tem como objetivo principal o reconhecimento das condições de pico metamórfico, fusão parcial e de cristalização do líquido neoformado, a fim de caracterizar o processo metamórfico-anatético.

A investigação parte da paragênese texturalmente estável nos xistos e metatextitos: quartzo + plagioclásio + granada + biotita + muscovita + cianita + rutilo + ilmenita + leucossoma, representante da cristalização de parte do líquido gerado; e da ausência do feldspato potássico na rocha. O cálculo das pseudosseções para litotipos aparentemente contrastantes dentro da unidade, representados por amostras das rochas mais homogêneas das pedreiras IC01 (amostra de xisto homogêneo - IC01E3) e IC03 (amostra de metatextito homogêneo - IC03F3), serve como mais uma ferramenta para avaliar a possível compatibilidade metamórfico-anatética entre os pacotes. Outras duas composições similares também foram utilizadas para avaliar a extensão dos resultados em sistemas mais cálcicos (composição SIMILAR 01), representando horizontes originalmente mais ricos em plagioclásio, ou mais magnesianos (composição SIMILAR 03), possibilitando a investigação na variação Fe-Mg dos minerais.

Os dados obtidos das amostras coletadas em campo e aqueles gerados a partir das composições similares podem ser utilizados para avaliar a extensão do metamorfismo e da fusão parcial em rochas sedimentares com déficit de potássio em relação aos pelitos, como as *wackes*, aqui chamadas informalmente de semipelitos.

Pseudosseções

A paragênese cianita + granada + biotita + plagioclásio + muscovita + rutilo + ilmenita + quartzo representa a associação mineral estável da unidade e portanto o sistema químico NCKFMASHTO foi escolhido para a modelagem das rochas. As quantidades de água e oxigênio foram fixadas respectivamente em 7% e 2% (em proporção molecular), de forma similar ao observado em rochas sedimentares na natureza (Taylor e MacLennan, 1985).

A amostra IC01E3 é caracterizada como cianita-granada-biotita-quartzo-plagioclásio xisto com muscovita, ilmenita e rutilo, de granulação fina a média e textura lepidogranoblástica, e sua composição foi utilizada como representativa das porções

mais homogêneas da pedreira IC01, cuja pseudosseção é apresentada na Figura 56. Sua topologia é composta por amplos campos de estabilidade tri- a pentavariantes, e campos menores di- a hexavariantes. Um campo univariante e um heptavariante também estão presentes. De forma geral o modelo ilustra a persistência de epídoto em condições de alta pressão, maior que 10 kbar, até pouco mais de 700 °C, mesmo em presença de líquido; a desestabilização da muscovita desde condições *P-T* relativamente brandas e antes da entrada de granada; o amplo campo de estabilidade da cianita; a entrada de feldspato potássico apenas em condições de temperatura maior que 800 °C; a quebra da biotita em condições acima de 900 °C; e a ocorrência de cordierita abaixo de 9 kbar.

As fases cianita, muscovita e feldspato potássico apresentam estreita relação, de forma que o consumo de muscovita fornece alumínio para o aumento da estabilidade da cianita, e ambas contribuem para a geração de feldspato potássico em condições mais intensas de metamorfismo. Antes do aparecimento deste mineral, o potássio remanescente da quebra da muscovita contribui para o aumento modal de biotita.

A geração de líquido ocorre ainda em fácies anfibolito, em temperatura de aproximadamente 700 °C, com o consumo da água disponível no sistema em condições acima de 10 kbar, ou pela quebra por desidratação da muscovita em pressões menores. A entrada de ilmenita se dá ainda no campo do epídoto, permanecendo estável ao longo de toda a pseudosseção. A ocorrência de rutilo é controlada pela composição da rocha,

1 - bi ep g mu pl ru q H ₂ O	16 - liq bi g pl ilm ky q H ₂ O
2 - liq bi ep g mu pl ru q H ₂ O	17 - bi g pl ilm ky q H ₂ O
3 - liq bi ep g mu pl ilm ru q H ₂ O	18 - bi cd pl ilm ky q H ₂ O
4 - bi ep g mu pl ilm ru q H ₂ O	19 - bi cd g pl ilm ky q H ₂ O
5 - bi ep g mu pl ilm ru ky q H ₂ O	20 - liq bi cd g pl ilm ky q H ₂ O
6 - liq bi ep g mu pl ilm ru ky q H ₂ O	21 - liq bi cd pl ilm ky q H ₂ O
7 - liq bi ep g mu pl ilm ru ky q	22 - liq bi cd pl ilm ky q
8 - bi g mu pl ilm ru ky q H ₂ O	23 - liq bi cd pl ilm q
9 - liq bi g mu pl ilm ru ky q H ₂ O	24 - liq bi cd g pl ilm ky q
10 - bi g mu pl ilm ky q H ₂ O	25 - liq bi g pl ilm q
11 - liq bi g mu pl ilm ky q H ₂ O	26 - liq g pl ilm q
12 - liq bi g mu pl ilm ky q	27 - liq cd g pl ilm q
13 - bi mu pl ilm ky q H ₂ O	28 - liq bi g mu ksp pl ilm ru ky q
14 - liq bi pl ilm ky q H ₂ O	29 - liq bi g mu ksp pl ilm ru q
15 - liq bi mu pl ilm ky q H ₂ O	30 - liq bi g ksp pl ilm ru q

Figura 56 - Pseudosseção obtida a partir da composição de xisto homogêneo da pedreira Santo Antônio (IC01), amostra IC01E3.

além de pressão e temperatura, e no campo de estabilidade da muscovita surge apenas em pressões acima de 10 kbar. Com a desestabilização da muscovita, biotita passa a ser a fase hidratada consumida, fornecendo titânio para o sistema, e o rutilo torna-se estável em pressões menos intensas.

A composição da amostra IC03F3, cianita-granada-biotita-quartzo-plagioclásio metatexito, com muscovita, ilmenita e rutilo, de granulação média a grossa e textura granoblástica, foi utilizada para o cálculo da pseudosseção representativa de IC03 (Figura 57). Como esperado, a topologia resultante é muito semelhante àquela de IC01, com grandes campos de estabilidade tetra- e pentavariantes, campos hepta- hexa- e trivariantes mais restritos, e diminutos campos uni- e divariantes.

Quartzo e plagioclásio são estáveis ao longo de toda a janela P - T , entretanto o campo da granada apresenta importante diferença entre estas pseudosseções: em IC01 a linha granada *in* é bem delimitada na região de pressão menor que 10 kbar, ainda em presença de água, enquanto em IC03 este mineral é estável ao longo de toda a pseudosseção. Para a amostra desta pedreira o cálculo das curvas de epidoto, ilmenita, água, líquido e rutilo foi executado com sucesso em temperaturas menores que 650 °C, mas o resultado envolve linhas com grande curvatura que podem ser resultado ou da quebra do plagioclásio para piroxênio jadeítico, o que não foi investigado, ou por problemas nos modelos de atividade dos minerais para pressões elevadas.

Em contrapartida, o cálculo do aparecimento de líquido saturado em H₂O foi problemático para IC01, exibindo como resultado uma curva H₂O *in* em temperaturas inferiores a 650 °C, que seguiria de 6 até cerca de 12 kbar, onde encontraria o invariante $liq + H_2O = 0$, do qual emanaria então a reação H₂O *out*. Tendo em vista que a modelagem do metamorfismo e da fusão parcial parte do pressuposto de que a rocha era saturada em H₂O, tais campos foram desprezados. Este problema, junto à questão do clinopiroxênio jadeítico, pode explicar a maior distorção observada nas curvas desta região de menor temperatura das pseudosseções.

Simulando possíveis horizontes mais ricos em plagioclásio e com menos sílica disponível, a composição SIMILAR 01 foi modelada (Figura 58). Embora a topologia tenha se mantido de forma geral a mesma, observa-se a desestabilização do quartzo em alta temperatura e baixa pressão, e diminuição da abrangência do campo da cordierita, que não coexiste com rutilo dentro da janela P - T calculada. Além disso, o aumento de cálcio influencia também o aumento do campo de estabilidade do epidoto, que pode chegar a temperaturas de até 750 °C em condições acima de 10 kbar.

IC03F3 - NCKFMASHTO

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

Figura 57 - Pseudosseção obtida a partir da composição de metatextito homogêneo da pedreira INCOPE (IC03), amostra IC01F3.

Figura 58 - Pseudosseção obtida a partir de composição hipotética similar a IC01.

Isopletas composicionais de biotita, Fe#, $X_{\text{Al oct}}$, $X_{\text{Ti oct}}$ (Figura 59), muscovita, Fe#, $X_{\text{Al oct}}$, $X_{\text{Na,A}}$ (Figura 60); plagioclásio, X_{Ca} , X_{K} ; e granada, Fe#, Ca/Ca+Fe+Mg (Figura 61), foram calculadas para contornar os campos das associações minerais desta composição. Para a biotita nota-se a diminuição de ferro e aumento do alumínio octaédrico com o aumento das condições de metamorfismo, entretanto nota-se a inversão deste comportamento para o alumínio no campo muscovita *out*: as curvas sofrem forte inflexão e sua quantidade no sítio octaédrico diminui com as condições P - T . O titânio, por sua vez, é dependente da temperatura.

Na muscovita tanto o Fe# quanto $X_{\text{Al oct}}$ diminuem com o aumento da pressão, enquanto $X_{\text{Na,A}}$ diminui com o aumento de temperatura. O contorno de isopletras composicionais do plagioclásio indica o aumento da incorporação de potássio diretamente dependente da temperatura, enquanto a quantidade de cálcio diminui com o aumento da pressão. A granada, por sua vez, também tem Fe# diminuindo com o aumento das condições de P - T , enquanto a proporção de cálcio, em relação a ferro e magnésio, aumenta com a pressão e diminui com a temperatura.

Em outra simulação, uma composição rica em magnésio (cerca de 8,5% mol) designada SIMILAR 03 (Figura 62), tem como principais diferenças campos P - T menores para ilmenita, cianita e muscovita; deslocamento do campo da cordierita para temperaturas menores; aumento no campo de estabilidade do rutilo e da biotita, esta permanecendo estável em toda a pseudosseção; e condicionamento do feldspato potássico a condições superiores a 16 kbar e 900 °C. Nesta composição, a disposição das isopletras de biotita, granada e plagioclásio têm comportamento semelhante aos observados em SIMILAR 01, entretanto nota-se para a muscovita o aumento de Fe# com o aumento da temperatura, enquanto a proporção de sódio diminui neste sentido (Figuras 63 a 65). Para SIMILAR 03 foram modeladas também as isopletras composicionais de líquido (Figuras 66 e 67), as quais indicam o aumento nas quantidades de H_2O , SiO_2 , CaO e dos álcalis K_2O e Na_2O com o aumento de temperatura. Em menores intensidades de metamorfismo ocorre franco predomínio do Na_2O sobre K_2O , embora essa diferença também diminua com o aumento da temperatura. Ainda no líquido, a quantidade de ferro incorporada mostra-se dependente da composição da rocha, com aumento significativo no campo de coexistência entre ilmenita e rutilo.

Variação de Fe# [Fe/(Fe+Mg)] em biotita.

Proporção de titânio no sítio octaédrico da biotita. *Modelo de White *et al.*, 2007.

Legenda dos campos de estabilidade

4 - liq bi g mu pl ilm ru ep H2O	24 - liq bi g ky pl ilm H2O
6 - liq bi g mu pl ilm ru ep H2O	25 - liq bi sill pl ilm H2O
8 - liq bi g mu pl ilm ru ky ep	26 - liq bi g sill pl ilm H2O
9 - liq bi g mu pl ilm ru ky ep H2O	29 - bi sill pl ilm cd H2O
10 - bi g ky mu pl ilm ru ep H2O	30 - liq bi sill pl ilm cd H2O
11 - bi g ky mu pl ilm ep H2O	31 - liq bi g sill pl ilm cd H2O
12 - bi g mu pl ilm ep H2O	32 - liq bi sill cd pl ilm
13 - bi mu ru pl ilm ep H2O	33 - liq bi cd pl ilm
17 - bi mu pl ilm ky ep H2O	35 - liq bi g cd sill pl ilm
18 - bi mu ky g pl ilm H2O	38 - liq bi g ky mu pl ilm
19 - bi mu ky ru g pl ilm H2O	51 - liq g pl ksp ky ru
20 - liq bi mu ky ru g pl ilm H2O	52 - liq g pl mu ksp ky ru
21 - liq bi mu ky g pl ilm H2O	53 - liq g pl mu ksp ru
22 - liq bi mu ky pl ilm H2O	54 - liq g pl mu ksp ru ilm
23 - liq bi ky pl ilm H2O	58 - liq bi g mu pl ru

Proporção de alumínio no sítio octaédrico* da biotita. *Modelo de White *et al.*, 2007.

Figura 59 - Modelagem das isopletas de biotita para a composição hipotética Similar 01.

Figura 61 - Modelagem das isopletras de granada e plagioclásio para a composição hipotética SIMILAR 01.

Figura 62 - Pseudosseção obtida a partir da composição hipotética SIMILAR 03.

Figura 63 - Modelagem das isopletras de granada e plagioclásio para a composição hipotética SIMILAR 03.

Figura 64 - Modelagem das isopletas de biotita para a composição SIMILAR 03.

Figura 65 - Modelagem das isopletas de muscovita para a composição SIMILAR 03.

Figura 66 - Modelagem das isopletras de líquido para a composição hipotética SIMILAR 03.

Figura 67 - Modelagem das isopletas de líquido para a composição hipotética SIMILAR 03.

Embora um modelo de isoplelas não tenha sido criado especificamente para as composições originais de IC01 e IC03, puderam-se utilizar as composições similares como base para a interpretação da evolução metamórfica dessas rochas, principalmente no caso da composição SIMILAR 01, cuja topologia é bastante próxima àquela calculada para as amostras IC01E3 e IC03F3.

A composição da muscovita nas amostras IC01 pode ser dividida em dois grupos (Figura 68): o primeiro representado por cristais da matriz mais ricos em sódio (grupo 1: $\sim 0,15$ a.p.f.u.); e o segundo representado por cristais da matriz e do leucossoma, empobrecidos nesse elemento (grupo 2: entre 0,06 e 0,08 a.p.f.u.). Em relação ao Fe#, os cristais do grupo 1 apresentam núcleos enriquecidos em detrimento às bordas, enquanto no grupo 2 observa-se o enriquecimento progressivo do núcleo para bordas de cristais da matriz e leucossoma, respectivamente. A quantidade de alumínio é maior no núcleo em relação à borda nos cristais da matriz e do leucossoma do grupo 2, abrangendo o intervalo de 2,5 a 2,75 a.p.f.u.; e os cristais do grupo 1 têm teor de alumínio similar àqueles observados no leucossoma, embora note-se empobrecimento relativo das bordas neste elemento.

De acordo com as isoplelas traçadas na pseudosseção da composição SIMILAR 01, a diferença na quantidade de sódio entre a muscovita dos grupos 1 e 2 sugere diferentes estágios termais de formação, sendo que o grupo 1, mais rico em sódio, representa os cristais formados a menores temperaturas que as do grupo 2, menos rico em sódio (Figura 68, $X_{Na,A}$). A compatibilidade entre parte da muscovita da matriz e do leucossoma, grupo 2, é interpretada como evidência do aumento de temperatura, e sugere que os cristais do grupo 1 podem ser reliquias, formados antes do pico termal. No grupo 2, o aumento progressivo na quantidade de alumínio do núcleo para as bordas de cristais da matriz e leucossoma indica diminuição das condições $P-T$.

O enriquecimento em alumínio dos cristais de muscovita de matriz do grupo 1 em relação aos do grupo 2 mostra que o primeiro foi gerado em condições metamórficas mais brandas, o que reforça sua interpretação como de caráter reliquiar. O enriquecimento em ferro na borda de cristais da matriz do grupo 2 sugere reequilíbrio em regime de descompressão e a ausência dessa característica nos cristais do leucossoma pode ser explicada pelo seu isolamento, onde a ausência de outras fases ferromagnesianas restringiria o reequilíbrio do mineral. Assim, a existência de cristais reliquias oriundas de menores condições $P-T$ (grupo 1) deve estar relacionada a porções menos afetadas pela anatexia (paleossoma/resíduo), enquanto o grupo 2 deve

representar as fases cristalizadas à partir da fusão durante o resfriamento, em regime de descompressão, sugerindo trajetória metamórfica horária. Para a muscovita de IC03 o teor de sódio também se divide em dois grupos, sendo o mais rico considerado reliquiar (Figura 70). O aumento na quantidade de alumínio dos cristais da matriz em relação a inclusões em granada sugerem (re)cristalização durante descompressão.

Na biotita de IC01 (Figura 69) o aumento relativo de alumínio associado à discreta perda de titânio nas bordas dos cristais pode sugerir diminuição das condições de metamorfismo. Baseado no modelo de isopletras para biotita SIMILAR 01, no qual este comportamento é esperado para os campos sem muscovita, pode-se questionar a presença deste mineral como fase estável no pico metamórfico, no entanto a proporção modal dominante do mineral na rocha descarta essa possibilidade. Nota-se também o aumento progressivo da quantidade de titânio e diminuição do ferro nas análises realizadas em amostras de xisto homogêneo (IC01E3); xisto com bandamento composicional em escala milimétrica (IC01D2); e xisto subordinado em grande concentração de veios de quartzo (IC01C2), o que sugere que num mesmo pacote as feições estruturais podem estar condicionadas por variações locais de pressão e temperatura, de forma que estruturas desenvolvidas por esforços secundários, como pontos de descompressão geradores de fendas tensionais (*tension gashes*), bandas extencionais de cisalhamento, entre outras, podem influenciar na migração de fluidos e portanto na composição das fases minerais. Isso explica porque a amostra mais rica em veios de quartzo (enriquecida em Ti e empobrecida em Fe) parece ser formada em maior temperatura e menor pressão que as demais. Para IC03 a composição da biotita apresenta dispersão aleatória (Figura 71), o que pode ser indício de homogeneização em condições mais intensas de metamorfismo.

O plagioclásio de IC01 apresenta diminuição no teor de anortita e aumento na molécula de oligoclásio dos cristais inclusos para aqueles relacionados à matriz e leucossoma, respectivamente, indicando o aumento relativo de temperatura na formação das diferentes fases. O plagioclásio de IC03, assim como a biotita analisada nas amostras dessa pedreira, apresenta dispersão aleatória, embora note-se enriquecimento relativo dos cristais de leucossoma na molécula ortoclásio e discreto ganho de anortita das bordas em relação ao núcleo dos minerais.

Figura 68 - Parâmetros composicionais da muscovita de IC01: correlação entre as variações observadas e a modelagem de isopletras obtida para a composição SIMILAR 01.

Figura 69 - Parâmetros composicionais da biotita de IC01: comparação com a modelagem de isopletas obtida a partir da composição SIMILAR 01.

Figura 70 - Parâmetros composicionais da muscovita de IC03: comparação com a modelagem de isopletras obtida a partir da composição SIMILAR 03.

Figura 71 - Parâmetros composicionais da biotita de IC03: comparação com a modelagem de isopletas obtida a partir da composição SIMILAR 03.

Figura 72 - Distribuição dos teores de anortita e ortoclásio em plagioclásio de IC01 e IC03: comparação com a modelagem de isopletas a partir das composições SIMILAR 01 e SIMILAR 03, respectivamente.

Termobarometria

Os cálculos termobarométricos foram realizados por diferentes métodos: termobarometria convencionalmente aplicada a pelitos (termômetro granada + biotita de Bhattacharya *et al.*, 1992; barômetros tipo GASP, GPMB-Mg, GPMB-Fe - Spear, 1993; Holland e Powell, 1993; Waters, 2004); média *P-T* via THERMOCALC v3.33 para associações selecionadas por afinidade química; e termômetro de Zr em rutilo nas amostras cuja composição foi modelada, além de cristais pertencentes a amostras da pedreira IC07, imediatamente sotoposta à IC03.

Tendo em vista que associações minerais consideradas como em equilíbrio textural não necessariamente representam um equilíbrio químico, e que um dos objetivos deste trabalho é reconhecer as condições do pico metamórfico, o cálculo das condições *P-T* foi feito com base na composição química de minerais do mesmo sítio textural na seção delgada. Esta metodologia visa escolher as melhores combinações que, de acordo com os modelos de isopletras observados na composição SIMILAR 01, representem a associação de maior temperatura para as rochas em questão. Assim, foram selecionadas análises de micas e bordas de granada mais magnesianas, e bordas mais cálcicas em plagioclásio, todos os minerais pertencentes à matriz e dentro do mesmo campo de observação na seção delgada. As condições de pico estimadas para IC01 foram calculadas em 745 ± 22 °C e $11,56 \pm 1,04$ kbar; e para IC03 850 ± 24 °C e $8,71 \pm 0,91$ °C. Deve-se ressaltar que nestes cálculos, os parâmetros *P-T* foram calculados individualmente, a fim de reduzir as incertezas obtidas e comparar com os cálculos concomitante para ambas as variáveis (método average *PT*, Powell & Holland, 1994). Os cálculos feitos desta maneira produzem condições *P-T* muito próximas dos cálculos feitos de forma separada, mas com valores de incertezas muito maiores.

Utilizando a calibração de Tomkins *et al.* (2007), o termômetro Zr *in* rutilo (Zack *et al.*, 2004; Watson *et al.*, 2006; Ferry & Watson, 2007) foi utilizado para calcular as temperaturas máximas de cada unidade: para IC01 a quantidade de Zr em rutilo variou entre 511 e 620 ppm, correspondendo a temperaturas entre 713 °C a 10 kbar e 762 °C a 15 kbar (Figura 73). Para IC03 a quantia de Zr em rutilo é de 515 a 749 ppm, e a temperatura máxima variou entre 729 °C a 10 kbar e 753 °C a 15 kbar (Figura 74). Foram obtidos também dados em rutilo da pedreira IC07, imediatamente sotoposta a IC03, já reconhecida em trabalhos anteriores como pertencente à unidade Santo Antônio (e.g. Trouw *et al.*, 2007). Nesta amostra foram analisados cristais em

equilíbrio, sem alteração visível, com teor de Zr entre 554 e 777 ppm originando temperaturas de 733 °C a 10 kbar até 756 °C a 15 kbar (Figura 75).

As Figuras 76 e 77 reúnem todos os resultados de pico metamórfico calculados para as pedreiras IC01 e IC03, respectivamente. As diferenças observadas entre os valores obtidos via média *P-T* com o THERMOCALC e aqueles obtidos via termobarômetros tradicionais pode ser explicada de diversas maneiras, incluindo: a incerteza das composições de equilíbrio das micas consideradas, talvez tardias em relação ao pico metamórfico; a ausência de análises de ilmenita, o que impossibilita a consideração das variações na solução sólida do mineral e sua relação com a geração de rutilo, tornando imprópria a introdução destas fases nos cálculos de pico metamórfico; e a consideração de composições progressivamente mais cálcicas na evolução do plagioclásio adotado pelo geobarômetro GASP, desconsiderando a adição da molécula sódica devido ao processo anatético; ou ainda à imprecisão inerente a todas as calibrações utilizadas. Além disso, a diferença entre estes resultados e aqueles obtidos através do termômetro de Zr em rutilo pode ser resultado de enviesamento por sub-amostragem, já que poucos cristais foram analisados em apenas uma seção delgada de cada pedreira estudada. A discrepância é ainda maior nos resultados de IC03, pelo fato de que a amostra em que rutilo foi analisado é diferente da amostra utilizada para os outros métodos de termobarometria, embora da mesma pedreira.

De acordo com os resultados calculados pode-se afirmar que as rochas da unidade Santo Antônio tiveram seu pico metamórfico entre 750 e 850 °C, da base para o topo da unidade. Embora os dados de pressão resultem em condições máximas de aproximadamente 11,5 kbar, a presença de rutilo e ilmenita sugerem pressões mais altas para o regime metamórfico. O campo trivariante líquido + biotita + granada + muscovita + plagioclásio + ilmenita + rutilo + cianita + quartzo, bem representado em ambas as pseudosseções calculadas para IC01 e IC03, é compatível com esta interpretação, e por representar a paragênese de equilíbrio reconhecida nas amostras, pode ser considerado portanto o melhor representante das possíveis condições de pico metamórfico para esta unidade. O cálculo *P-T* para o pico metamórfico para a amostra IC03 resulta em condições de temperaturas bastante elevada e pressão relativamente baixa, quando comparados com os resultados de IC01, além disso as condições *P-T* resultantes ficam dispostas dentro de campo na pseudosseção que não contempla a associação mineral observada na rocha. Investigações mais detalhadas serão feitas com essas amostras.

Estudos complementares de termobarometria baseada em equilíbrio químico e textural, novas análises em cristais de rutilo, e modelagem de isopletras composicionais e de moda mineral específicas para as composições de IC01 e IC03 devem ser alvo de publicações em futuro próximo. A obtenção de idades relativas entre porções distintas do metatexito, assim como análise estrutural e incorporação da influência de manganês nos modelos calculados devem ser temas para trabalhos futuros.

IC01E3 - RESULTADOS DE TERMOBAROMETRIA POR AFINIDADE COMPOSICIONAL

THERMOCALC

- Pico térmico
- Pico bárico

Geotermômetro g+bi (Bhattacharya et al. 1992)

T = 616° C

Geobarômetros

GASP: P = 6,5 kbar

GPMB-Mg: P = 7,7 kbar

GPMB-Fe: P = 6,4 kbar

Figura 73 - IC01: resultados de termobarometria para possíveis composições de pico: borda de granada e micas mais magnesianas; borda mais cálcica de plagioclásio da amostra IC01E3-C1.

IC03E3 - RESULTADOS DE TERMOBAROMETRIA POR AFINIDADE COMPOSICIONAL

AVPT - THERMOCALC

Condições de pico

Geotermômetro g+bi (Bhattacharya et al. 1992)

T = 584,16° C

Geobarômetros

GASP: P = 6,40 kbar

GPMB-Mg: P = 7,76 kbar

GPMB-Fe: P = 6,78 kbar

Figura 74 - IC03: resultados de termobarometria para possível composição de pico: borda de granada e micas mais magnesianas; borda mais cálcica de plagioclásio da amostra IC03E3.

Figura 75 - IC01E3: resultados do termômetro Zr in rutilo (método de Tomkins *et al.*, 2007).

IC03 - TERMÔMETRO Zr in Rutilo

Figura 76 - IC03F2: resultados do termômetro Zr in rutilo (método de Tomkins et al., 2007). Em vermelho na pseudosseção o segmento que define a temperatura máxima obtida para 10 e 15 kbar.

IC07 - TERMÔMETRO Zr in Rutilo

Figura 77 - IC07C: resultados do termômetro Zr in rutilo (método de Tomkins *et al.*, 2007).

Geotermômetro g+bi (Bhattacharya et al. 1992)

$T = 616^{\circ}\text{C}$

Geobarômetros

GASP: $P = 6,5\text{ kbar}$

GPMB-Mg: $P = 7,7\text{ kbar}$

GPMB-Fe: $P = 6,4\text{ kbar}$

**Termobarometria por
equilíbrio composicional**

$745 \pm 22^{\circ}\text{C};$
 $11,56 \pm 1,04\text{ kbar}$

Termômetro Zr in rutilo

Figura 78 - Condições de pico metamórfico de IC01: relação entre resultados obtidos por métodos distintos.

Figura 79 - Condições de pico metamórfico de IC03: relação entre resultados obtidos por métodos distintos.

Capítulo V – Discussão

As pedreiras IC01, IC03 e IC07 representam a variação de litotipos observada na unidade Santo Antônio, sendo que as rochas expostas são cianita-granada-biotita-quartzo-plagioclásio xistos e metatexitos, cujas estruturas e texturas variam de acordo com a taxa de fusão atingida. Os domínios basais são compostos majoritariamente por xistos de granulação fina a média, com feições locais de fusão parcial restrita (IC01), e os domínios superiores compostos por metatexitos de granulação média a grossa, nos quais a ampla distribuição de leucossoma tipo *patches* e veios tonalíticos, em geral envoltos por filmes de biotita, atribuem aspecto paragnáissico à rocha através do desenvolvimento local de estrutura estromática (IC03 e IC07). Embora esta compartimentação maior seja clara, entre xisto e metatexito, ambos os pacotes apresentam heterogeneidades composicionais que controlam a ocorrência de fusão parcial.

Embora anteriormente as rochas aqui estudadas tenham sido separadas em unidades diferentes, unidade Santo Antônio (IC01 e IC07) e Arantina (IC03; Trouw *et al.*, 2007), a química de rocha total evidencia a similaridade composicional dos litotipos, o que ajuda a reuni-los em única unidade. Algumas diferenças, no entanto, são observadas, tais como o enriquecimento de Si e Na nas unidades de topo (IC03, IC07) em detrimento de K, Fe e Mg, mais abundantes porções basais (IC01). A diferença de granulação e estrutura e variação na proporção modal dos minerais nas amostras estudadas, podem ser explicadas pelo reconhecimento da fusão *in situ* ou *in source*, indicando alguma segregação do fundido, que pode ocorrer em porções isoladas nos domínios xistosos, principalmente onde há veios de quartzo em abundância (e.g. IC01); ou de forma penetrativa, definindo domínios de metatexitos (e.g. IC03), anteriormente correlacionados à unidade Arantina. A comparação química entre amostras de xisto, metatexito e leucossoma mostram que o líquido foi gerado a partir da fusão de quartzo e plagioclásio como fases principais, dado o enriquecimento em Na, Ca, Si e Sr, além de anomalia positiva de Eu nas amostras de leucossoma. A similaridade dos padrões de elementos terras raras em amostras de xisto e metatexito comprovam que não houve diferenciação composicional significativa entre estes litotipos, indicando baixas taxas de fusão e segregação, e ainda sugerindo que a fusão parcial não ocorreu em temperaturas muito altas, permitindo a retenção de elementos como U, Th e Zr nos xistos e

metatextos, o que implica na não fusão de fases como apatita, monazita e zircão. A composição do leucossoma também converge para a mesma interpretação, já que é pobre em todos os elementos menores e traço, sendo apenas enriquecido em Eu.

Em relação à química mineral, os dados de plagioclásio destacam-se como evidência do processo anatético, formando tendência contínua progressivamente mais rica na molécula de albita, para cristais inclusos em granada, da matriz e do leucossoma, sendo que esta diferença torna-se menos clara de IC01 para IC03 e IC07. O enriquecimento progressivo em albita também é observado das amostras de IC01 para IC03 e IC07, indicando a geração de líquido rico em sódio, evidenciado pelo aumento do componente da albita no leucossoma, como é visto na modelagem com as pseudosseções, e o aumento da taxa de fusão para o topo do pacote, como sugere não só o aumento no teor de albita, mas também a maior homogeneidade observada na composição dos cristais de plagioclásio de IC03 e IC07.

A similaridade composicional entre xistos e metatextos também é refletida na topologia das pseudosseções do sistema NCKFMASHTO calculadas para amostras homogêneas de IC01 e IC03, respectivamente, o que ratifica a compatibilidade dos litotipos. A geração de líquido em temperaturas algo acima de 700 °C, ocorre pelo consumo da água, em excesso no sistema, somada à fusão por desidratação da muscovita, em regime de pressão de 10 kbar, mas antes da reação granada *in*. O consumo do mineral fornece alumínio e potássio para o sistema, favorecendo a geração de cianita e biotita, com entrada do feldspato potássico apenas em condições de temperatura superior a 800 °C. Os modelos de isopletras composicionais mostram a geração de fundido rico em sódio, sílica e água, compatível com o leucossoma reconhecido em campo, e com os dados de geoquímica de rocha total e mineral. Além do plagioclásio, a muscovita mostrou-se um bom indicador das condições de metamorfismo: a variação de Na em cristais de distintos sítios texturais mostra a presença de um grupo reliquiar ou residual, gerado em condições de menor temperatura na matriz; e um grupo formado em temperatura mais alta, no qual a variação núcleo-borda nos teores de ferro e alumínio mostram a cristalização em regime de descompressão, caracterizando trajetória metamórfica horária.

O termômetro Zr em rutilo apresentou dados consistentes com os cálculos das condições de pico metamórfico via THERMOCALC para a pedreira IC01, representante dos litotipos xistosos da unidade. Embora haja discrepância dos resultados calculados em IC03, representante dos metatextos, a correlação com as evidências de fusão

observadas em escala meso e microscópica, respaldadas pela química mineral e cálculo de pseudosseções, juntamente com os dados de rutilo obtidos para IC07, sugere o aumento da temperatura, e consequentemente da anatexia, para as camadas de topo do pacote, caracterizando assim o metamorfismo invertido da área. As condições de pico metamórfico devem variar, da base para o topo, entre 750 e 850 °C, respectivamente, dentro do campo trivariante definido pela paragénese líquido + biotita + granada + muscovita + plagioclásio + ilmenita + rutilo + cianita + quartzo. As temperaturas calculadas de 850 °C podem ser algo elevadas para a taxa de fusão observada e novas investigações serão feitas para confirmar o resultado.

A partir dos resultados do termômetro de Ti em quartzo e modelagem metamórfica com pseudosseções, Reno *et al.* (2011) argumentam que a trajetória *P-T* é de descompressão, e que a rocha na pedreira de IC03 alcançou as condições para geração de feldspato potássico, com retrometamorfismo posterior responsável pela transformação destes minerais em biotita. Os autores também afirmam que as monazitas utilizadas para datação cujo resultado reflete o evento mais jovem ligado à *nappe* Carmo da Cachoeira, 600-595 Ma, são de dissolução e reprecipitação gerada pela liberação de fluidos com o alcance da curva *solidus*, durante o estágio de exumação da *nappe*.

Os dados aqui apresentados, entretanto, sugerem trajetória *P-T* horária, no qual o consumo de água e muscovita, em presença de plagioclásio, dão origem a líquido rico em sódio, representado agora por leucossoma composto de quartzo e plagioclásio. Além da biotita pré-existente, esta evolução favorece a geração biotita e cianita peritéticas residuais. O potássio incorporado no líquido é representado, em contrapartida, pela cristalização de muscovita tardia associada a estes sítios, além de biotita no melanossoma ou ainda retrometamórfica, que ocorre nos contatos entre bolsões de fundido e a matriz, de forma a “encapsular” localmente algumas segregações de leucossoma. A química de rocha total mostra ainda a retenção de elementos terras-raras nos litotipos de afinidade residual/paleossoma em relação ao leucossoma, indicando portanto limitação para processos de dissolução e reprecipitação de fases acessórias como monazita e zircão. Deste modo, o presente trabalho não sustenta de forma alguma as conclusões e proposições feitas para a *nappe* Carmo da Cachoeira por Reno *et al.* (2009, 2011).

Capítulo VI – Conclusões

O reconhecimento geológico em campo, aliado aos dados de geoquímica de rocha total e mineral obtidos para amostras das pedreiras IC01, IC03 e IC07, evidenciam a origem dos litotipos por elas representados a partir da evolução de processo anatético incipiente a moderado, favorecido pela presença pervasiva de veios de quartzo, onde a fusão se inicia pela disponibilidade preferencial de fluidos e através da reação de desidratação da muscovita, gerando líquido rico em Si e Na, cristalizado como leucossoma composto por quartzo e plagioclásio, além de cianita e biotita como fases residuais.

A limitação nas proporções dos veios de leucossoma observados nos diversos afloramentos, restritos a *patches*, veios e bolsões descontínuos e pouco espessos, retidos *in situ* ou na fonte, associada a não existência de litotipos verdadeiramente residuais e à conspícua compatibilidade das composições de rocha total dos diversos litotipos amostrados nas pedreiras, evidencia a limitação para segregação do líquido gerado. Esta evidência é compatível com a similaridade composicional observada também nos padrões de elementos terras-raras dos diversos litotipos amostrados, que sugerem a não dissolução de fases acessórias como monazita e zircão.

As características apresentadas permitem interpretar as rochas das pedreiras IC01, IC03 e IC07 como pertencentes à mesma unidade, no caso a unidade Santo Antônio de Trouw *et al.* (2007), que pode ser redefinida para a área de estudo como metatexito com taxas de fusão variáveis, incipiente na base aumentando para topo. A modelagem metamórfica mostra o campo de estabilidade trivariante definido pela associação líquido + biotita + granada + muscovita + plagioclásio + ilmenita + rutilo + cianita + quartzo como representante das condições de pico metamórfico. Nestes termos, o cálculo da termobarometria permitiu estimar temperaturas de 750 a 850 °C da base para o topo da unidade Santo Antônio, caracterizando o metamorfismo invertido na região.

Assim, pode-se dizer que o presente trabalho contribui para o conhecimento do processo anatético em rochas de composição semipelítica, destacando-se a geração de líquido silicático rico em sódio e grande extensão do consumo de muscovita sem geração de feldspato potássico. A similaridade composicional entre os litotipos observados nas diversas pedreiras, a retenção de fases refratárias na rocha e a escassez de grandes volumes de leucossoma segregado indicam não só a anatexia em condições

metamórficas moderadas, mas também a limitação na quantidade de fundido gerado e segregado. A ausência de segregação do líquido de forma eficaz auxilia no retrometamorfismo da rocha, com consumo de parte do líquido aprisionado, resultando em produto final, que quimicamente acaba não sendo muito diferente da composição geral pré-fusão.

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Anexos

Anexo 1 – Mapas geológico e de pontos

Anexo 2 – Mídia com dados de campo e laboratório

Anexo 1

Mapas geológico e de pontos

Mapa de pontos

Legenda

Litologia

- ✂ Pedreira
- Anfibolito
- granada-anfibólio-clorita xisto
- biotita ortognaisse
- biotita paragnaisse
- granito gnáissico
- granada-biotita paragnaisse
- granada-biotita-muscovita paragnaisse
- granada-biotita-muscovita xisto
- granada-biotita-plagioclásio-quartzo xisto metatexítico
- granada-muscovita quartzito
- granada-muscovita-biotita xisto metatexítico
- granada-muscovita-quartzo xisto
- cianita-granada-biotita-plagioclásio-quartzo xisto homogêneo
- cianita-granada-biotita-plagioclásio-quartzo xisto homogêneo metatexítico
- cianita-granadat-plagioclásio-quartzo-biotita(±muscovita) xisto
- cianita-granada-plagioclásio-quartzo-biotita(±muscovita) xisto metatexítico
- metarritmito (gr-ms-qtz xisto e grt-ms quartzito)
- metarritmito (ms quartzitos e grt-bt-ms-qtz xisto)
- muscovita quartzo xisto

Mapa geológico das adjacências de Três Corações, Cambuquira e Lambari, MG, Brasil

Legenda

Fusão in situ / in source

Estruturas

Lineação de estiramento mineral

Lineação de eixo de dobra

Foliação

Zona Cisalhamento Três Corações

Falha inversa

Unidades

Depósitos Aluvionares - Cascalho, areia e lama inconsolidada.

Unidade Arantina - Intercalações submétricas de muscovita quartzito xistos, quartzitos e biotita xistos com granada e plagioclásio.

Unidade Santo Antônio - Biotita xisto/metatexito rico em plagioclásio, com granada, cianita, rutilo, muscovita e ilmenita.

Unidade São Vicente - Biotita paragneisse bandado com intercalações de quartzito, muscovita-quartzito xisto e anfibolito, localmente migmatítico.

Unidade São Vicente - Granada-anfibolito-clorita xisto e anfibolito

Unidade São Vicente - Muscovita quartzito xistos e quartzitos

Unidade São Tomé das Letras - Quartzitos com intercalações de quartzito xistos.

Complexo Mantiqueira - Ortognaisses migmatíticos com intercalações de anfibolitos e metaultramáficas

Anexo 2

Dados de campo,
geoquímica e modelagem

TABELA DE PONTOS

Dados de Campo																				
Data	Ponto	utm		h (m)	litotipo	granulaça	sn	sn+1	Lcren	Lmin	Lest	Lint	Lb	PADn	EDn	PADn+1	EDn+1	S	C	obs
28/10/2010	IC01	472793	7579249		ky-grt-bt xisto homogêneo		330/20 320/30 325/21 332/25 317/24 324/25		060/04 052/00 060/00	016/15 296/20										presença de veios de quartzo // ou não à
29/10/2010	IC02	463970	7571908		ky-grt-bt xisto homogêneo		334/88		058/05											
	IC03	473516	7594291		ky-grt-bt metatexito		134/47													
	IC04	470462	7579491		granito gnáissico															
	IC05	453436	7620800		sill-ky-kfelds-grt migmatito granulítico		212/30 190/20			284/12 244/25	208/30									
10/04/2011	Tf1	470313	9586561	922	ky-grt-bt xisto metatexítico	média - até 0,7 mm	114/10			190/01 188/09										lentes e veios paralelos ou oblíquos à foliação, graníticos a pegmatóides, estes mais oblíquos
	Tf2	cofre			ky-grt-bt xisto metatexítico		137/12					190/07								aumento na quantidade de lentes e veios
	Tf3	471496	7586416	1012	ky-grt-bt xisto homogêneo	fina	135/25 148/17			056/02 072/05	188/15									veios de quartzo paralelos à foliação
	Tf4	471503	7585929	1084	ky-grt-bt xisto homogêneo	média	082/15 118/20				088/05									veios - até 3% do volume da rocha; granadas com
	Tf5	471539	7585711	1158	ky-grt-bt xisto homogêneo	média	038/15				071/08									
	Tf6	472410	7586058	1069	ky-grt-bt xisto homogêneo	média	348/15						230/02 205/20							
	Tf7	471304	7585574	1103	ky-grt-bt xisto homogêneo silicificado		108/25 118/25													menos biotita
	Tf8	471095	7585677		ky-grt-bt xisto homogêneo silicificado		133/25													sem granada
	Tf9	471093	7585906	977	ky-grt-bt xisto metatexítico	média	150/15													megacristais de plagioclásio, lentes
	Tf10	473553	7580278	913	grt-bt xisto metatexítico		154/10													veios de quartzo de até 2 cm de espessura, lentes

11/04/2011	Tf11	473453	7580210	922	ky-grt-bt xisto homogêneo		118/25 120/12												extremamente alterado, presença de bandas
	Tf12	473248	7579365	874	ky-grt-bt xisto homogêneo		334/25		353/22		250/00						331/32	342/25	
	Tf13	471742	7579436	879	ky-grt-bt xisto homogêneo		162/10												contato entre zona com predomínio de clivagem espessada - acima - e zona mais ricas em
	Tf14	470302	7577790	973	ky-grt-bt xisto homogêneo		160/10				231/05								extremamente alterado
	Tf15	469557	7576336	1118	ky-grt-bt xisto homogêneo	fina a média	313/56 142/52						045/08						sericitização em algumas porções; aumento na quantidade de
	Tf16	cofre			ky-grt-bt xisto homogêneo		350/17	264/62			243/12								extremamente alterado - marrom amarelado a marrom avermelhado;
	Tf17	468114	7576141		Contato entre lente gnáissica amarelada, de granulação média, com biotita, 2 m de espessura e xisto homogêneo marrom avermelhado	gnaisse - média; xisto - fina	162/10				240/05								tudo extremamente alterado
	Tf18	467454	7575931	1215	bt gnaiss		128/17						240/05						extremamente alterado
	Tf19	466982	7575570	1208	ky-grt-bt xisto homogêneo		308/12 318/25				045/07								
	Tf20	466838	7575460		ky-grt-bt xisto homogêneo		285/15						234/08						veios de quartzo localmente assimétricos
12/04/2011	Tf21	466786	7575611	1166	bt gnaiss		350/40				085/00								preseça de injeção
	Tf22	471461	7579394	859	ky-grt-bt xisto homogêneo		174/10				220/06								grande quantidade de plagioclásio
	Tf23	471400	7579380	856	ky-grt-bt xisto metatexitico	fina	215/10 142/09?				149/06 202/10		200/08						Lest posterior a Lb; veios de quartzo com até 10 cm de espessura;
	Tf24	470753	7579386		bt gnaiss		173/15				211/05								presença de injeções graníticas perpendiculares ou
	Tf25	468390	7579718	975	ms-qtz xisto	fina	155/34 158/25				076/08 234/05								muscovitas concentram-se nos planos de foliação; ocorrem

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	Tf42	enato/cofre?			granulitos máficos e félsicos		228/22				242/30								Rio Verde
	Tf43	457659	7619524	891	ky-grt granulito		214/25			260/25									80% qtz?
	Tf44	458769	7620696		ky-grt granulito		174/22												
07/09/2011	Tf45	473496	7581453	873	ky-grt-bt xisto homogêneo		215/15				216/12								granadas envoltas por biotita, muscovita
	Tf46	473669	7581268	880	ky-grt-bt xisto homogêneo		225/17						225/17						
	Tf47	474568	7581586		ky-grt-bt xisto homogêneo		132/20? 116/15?					308/05	048/00? 042/00?						talvez não esteja in situ; patches graníticos em
	Tf48	474837	7581201	948	ky-grt-bt xisto homogêneo		192/15? 248/05				198/05?		219/00						
	Tf49	475469	7582058	878	ky-grt-bt xisto homogêneo		327/15						242/10						
	Tf50	cofre																	
	Tf51	475773	7581801	929	ky-grt-bt xisto homogêneo		297/12		239/09	312/12									
	Tf52	475894	7581668	960	ky-grt-bt xisto homogêneo		321/05		221/05	338/02									pequena pedreira desativada
	Tf53	476190	7581291	981	ky-grt-bt xisto homogêneo		302/07 216/10						232/07 255/07						
	Tf54	476228	7580740	1066	blocos de anfibolito na estrada ocre														
	Tf55	475782	7580446	1069	contato entre quartzito milonitizado e grt-cl-anf xisto		238/12												"é o são tomé chegando..." - unidades quartzítica e anfibolítica/calcssilicátic
08/09/2011	Tf56	471240	7582052		blocos de ms gnaiss com granada e bt gnaiss														próximo a drenagem
	Tf57	471175	7581975	944	ky-grt-bt xisto metatexitico		175/50			085/10									até 10% de fusão em volume de rocha total;
	Tf58	470848	7581996	1019	ky-grt-bt xisto metatexitico														
	Tf59	476985	7582927		blocos de ky-grt-bt xisto homogêneo														
	Tf60	476900	7582837		ky-grt-bt xisto homogêneo		300/05			247/03									
	Tf61	475873	7582472	848	ky-grt-bt xisto homogêneo		312/10 190/02 071/10			302/02									
	Tf62	474638	7582009		ky-grt-bt xisto homogêneo		257/17 233/27												"placoso" - 20% de muscovita

	Tf63	475627	7580321		ms quartzito		307/17				314/16								
	Tf64	dreira s to			ms quartzito		324/58			287/52 052/02	052/05								
	TPf22	494014	7626991	914	ky-grt-ms-bt xisto	média	176/25 174/30 185/22				245/12								ponto 310 peternel
	TPF23	489239	7623402		blocos de ky-grt-bt granulito														
09/09/2011	TPF24	487306	7624730		blocos de ky-grt quartzito com feldspato e biotita	grossa													
	TPF25	485858	7625503		ky-grt quartzito com feldspato e biotita		230/30				179/11								
	IC07	475317	7594065		ky-grt-bt metatexito														
	IC07B	475280	7594125	1032	ky-grt-bt metatexito														ponto de visada
04/09/2012	IC07C	475225	7594043	1051	ky-grt-bt metatexito	fina	065/10 068/45 068/10 068/25	242/45 248/70			040/04		166/05						veios de quartzo co fusão nas bordas, presença de
	IC07D	475262	7594053	1022	ky-grt-bt metatexito	fina	090/20 124/05												veios de quartzo com vergência para NE
	IC07E	475280	7594099	1011	ky-grt-bt metatexito		074/05 079/10 138/10 120/14 160/10 096/00				046/00 078/10 234/05?								
05/09/2012	IC07F	475364	7594073		ky-grt-bt metatexito		118/10 140/10 106/10	334/20?		034/04	038/00		005/10?						
	IC07G	475619	7594250		ky-grt-bt metatexito		135/15				055/06								
	IC07H				ky-grt-bt metatexito		075/25												
	Tf65	473492	7593876	899	ky-grt-bt xisto homogêneo		113/08 060/10			228/05									
	Tf66	475971	7593090	970	blocos de ky-grt-bt xisto metatexitico														
	Tf67	cofres			ms quartzito		310/17			275/15									
	Tf67a	477027	7593360	880	grt-ms-qtz xisto		301/15				224/05								
	Tf68	477158	7479330	860	grt-ms-qtz xisto		282/08				250/05								

06/09/2012	Tf69	477626	7592878	855	alternância entre gr-ms-qtz xisto e grt-ms quartzito		315/18			257/10						236/45			bancos com ~50 cm de espessura; dobras de arraste
	Tf70	477238	7591717	866	contato entre bt-ms-qtz xisto e ms quartzito		300/25 302/20				210/00								
	Tf71	476699	7590847	954	grt-ms-bt xisto		040/14?												sto antônio?
	Tf72	476588	7590685	988	contato ms quartzito e grt-ms-bt-qtz xisto		292/28 215/35 258/22			280/15				232/10	275/10				
	Tf73	476553	7590986	1007	intercalação centi- a decimétrica entre ms quarzitos e grt-bt-ms-qtz xisto														
07/09/2012	Tf74	476385	7590318	906	ky-grt-bt xisto homogêneo		286/12					220/00							
	Tf75	cofre		872	ky-grt-bt xisto homogêneo		284/15				200/00								
	Tf76	cofre			ky-grt-bt xisto homogêneo?		242/15				168/10								muito alterado
	Tf77	476453	7591542	1009	intercalação métrica entre bt-grt-ms-qtz xisto e ms quartzito		265/25				233/12								
	Tf78	476623	7592000	946	intercalação métrica entre bt-grt-ms-qtz xisto e ms quartzito		306/25 337/40				214/05 055/05								predominância dos xistos; presença de lentes graníticas?? -- muito alterado
	Tf79	476946	7592675	882	intercalação métrica entre bt-grt-ms-qtz xisto e ms quartzito		297/15				245/10								
	Tf80	476568	7589611	880	ky-grt-bt xisto homogêneo?	fina	190/15				260/10								
	Tf81	477677	7588452	864	ky-grt-bt xisto homogêneo	fina	312/05 328/00												
	Tf82	478471	7588315	937	ky-grt-bt xisto homogêneo	fina	328/00				045/00								
	Tf83	473825	7595520	863	ky-grt-bt metatexitico		084/10? 087/15 116/13				042/05 027/05 063/10								

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**GEOQUÍMICA DE
ROCHA TOTAL POR
FLUORESCÊNCIA DE
RAIOS X**

	IC-01E3	IC-02C	IC-01F	IC-03-C6	IC-03K1.2	IC-03G1	IC-03F3	IC-03A3	IC-03H3	IC-03K1.1	IC-03J3.2	IC-03J3.1	IC-03-C5	IC-03-E3	IC-07-F3	IC-07-C	IC-07-A1	IC-07-F1
	11/437	11/442	11/443	11/1092	11/439	11/434	11/435	11/436	11/433	11/438	11/441	11/440a	11/1093	11/1094	13/953a	13/955	13/956	13/954
SiO2	61.46	63.69	59.25	65.07	64.76	66.12	64.85	65.51	66.51	63.74	63.92	70.36	77.18	72.15	66.14	64.99	67.02	65.52
TiO2	0.893	0.813	0.900	0.815	0.856	0.901	0.870	0.833	0.805	0.830	0.868	0.444	0.076	0.165	1.009	0.823	0.863	0.802
Al2O3	16.79	15.68	17.87	14.90	14.95	14.17	15.23	15.29	14.01	15.06	15.04	14.69	12.88	14.84	14.12	15.07	14.13	14.95
Fe2O3	7.30	7.00	8.01	6.72	6.90	6.63	6.86	6.59	6.33	6.89	6.81	3.68	0.32	1.35	6.71	6.59	6.26	6.29
MnO	0.100	0.130	0.151	0.128	0.138	0.117	0.122	0.113	0.108	0.124	0.113	0.075	0.006	0.020	0.099	0.097	0.103	0.082
MgO	3.48	3.05	3.68	2.74	2.81	2.90	3.07	2.82	2.97	3.15	3.17	1.44	0.07	0.57	2.90	2.95	2.59	2.84
CaO	2.28	2.26	2.45	1.82	2.18	2.12	1.92	1.72	2.42	2.73	2.80	2.75	2.25	2.91	2.42	2.32	2.53	2.23
Na2O	2.65	2.60	2.79	3.00	2.58	3.11	2.85	2.62	2.70	2.88	2.86	3.72	4.53	5.40	2.55	2.62	2.72	2.69
K2O	2.96	2.56	3.03	2.40	2.49	2.04	2.33	2.61	2.21	2.41	2.43	1.34	0.64	0.56	2.44	2.49	2.25	2.58
P2O5	0.220	0.190	0.199	0.175	0.180	0.189	0.196	0.182	0.197	0.204	0.207	0.082	0.023	0.074	0.249	0.180	0.182	0.082
Loi	0.74	0.98	0.80	0.81	0.96	0.69	0.58	0.84	0.58	0.78	0.74	0.74	0.61	0.56	0.60	0.68	0.53	1.02
Total	98.87	98.95	99.13	98.58	98.80	98.99	98.88	99.13	98.84	98.80	98.96	99.32	98.59	98.60	99.24	98.81	99.18	99.09
Ba	637	538	647	471	537	436	467	533	436	434	505	315	196	148	492	514	538	556
Ce	53	50	51	44	45	81	< 35	56	55	64	< 35	47	<35	<35	70	42	83	41
Co	22	19	21	18	19	17	21	18	16	20	20	10	<6	<6	21	21	19	21
Cr	111	104	118	154	170	151	138	107	128	163	119	54	<13	30	102	143	114	116
Cu	53	38	29	32	40	33	33	36	20	6	15	56	24	44	18	18	21	< 5
Ga	22	19	22	16	18	17	19	20	16	18	19	15	11	12	18	19	16	17
La	< 28	< 28	31	<28	38	< 28	< 28	< 28	< 28	32	31	< 28	<28	<28	38	29	43	< 28
Nb	10	10	11	9	14	9	10	9	< 9	< 9	9	< 9	<9	<9	18	10	14	9
Nd	23	21	24	<14	34	18	17	16	22	31	23	23	<14	<14	23	20	38	35
Ni	67	59	70	56	48	58	61	55	55	58	58	28	5	12	44	54	45	53
Pb	13	23	16	8	11	10	11	10	9	15	14	12	5	7	16	15	11	15
Rb	98	84	102	71	84	58	70	74	71	89	83	43	11	14	85	83	85	90
Sc	19	18	21	15	15	16	16	14	15	18	17	< 14	<14	<14	15	17	14	14
Sr	190	180	206	186	171	199	194	177	188	191	197	230	259	327	190	213	194	201
Th	< 7	< 7	< 7	<7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	<7	<7	13	9	11	10
U	3	< 3	3	5	< 3	< 3	< 3	< 3	3	< 3	3	5	<3	<3	8	7	7	7
V	158	136	164	123	131	145	150	120	151	116	152	59	23	32	112	140	116	141
Y	28	32	36	30	38	29	29	29	26	31	29	21	3	7	31	30	29	22
Zn	125	110	136	95	92	91	102	98	93	100	100	49	7	21	98	103	86	99
Zr	193	181	195	181	203	197	181	179	168	179	177	105	29	50	255	182	193	170
Cl	< 50	157	< 50	<50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<50	<50	330	629	559	355
F	942	1018	986	800	1350	579	840	793	858	1369	776	526	<500	<500	< 500	< 500	< 500	< 500
S	< 550	< 550	< 550	<550	< 550	< 550	< 550	< 550	< 550	< 550	< 550	< 550	<550	<550	< 550	< 550	< 550	< 550

cianita-granada-biotita-quartzo-plagioclásio xisto homogêneo
 cianita-granada-biotita-quartzo-plagioclásio metatextito homogêneo
 leucossoma

**GEOQUÍMICA DE
ROCHA TOTAL –
ICP/MS**

	IC-03G1	IC-03F3	IC-03A3	C-03K1.2	IC-03-C6	C-03K1.1	IC-03H3	C-03J3.2	IC-02C	IC-01F	IC-01E3	IC-03-C5	IC-03-E3
Ba	455.00	495.00	561.00	546.00	439.00	457.00	452.00	526.00	552.00	659.00	674.00	210.00	137.00
Rb	70.80	81.90	85.10	92.80	65.90	101.00	94.50	94.40	94.70	109.00	109.00	9.91	14.60
Th	6.91	9.84	7.55	11.52	6.99	7.75	7.16	7.44	9.30	8.93	10.15	0.70	1.38
Nb	11.00	12.40	10.90	17.70	9.86	8.60	13.20	10.60	11.50	12.70	12.10	1.30	0.54
Ta	0.68	0.80	0.71	1.36	0.00	0.43	1.25	0.69	0.75	1.05	0.84	0.00	0.00
La	24.80	37.00	27.20	35.30	25.20	27.80	25.00	27.50	31.60	30.40	32.60	3.50	6.00
Ce	47.70	70.90	51.90	67.20	48.70	52.80	48.00	52.20	59.20	57.70	62.20	7.49	12.80
Sr	229.00	216.00	171.00	159.00	194.00	180.00	233.00	183.00	167.00	184.00	178.00	269.00	371.00
Nd	25.60	37.90	27.70	34.50	25.20	28.50	25.90	28.50	32.10	31.60	33.50	2.95	6.75
Sm	5.59	7.90	5.96	7.30	5.51	6.15	5.59	6.12	6.72	6.70	7.23	0.66	1.58
Zr	152.00	198.00	167.00	172.00	159.00	149.00	149.00	137.00	165.00	162.00	184.00	13.50	44.70
Hf	3.37	4.32	3.83	4.08	5.26	3.52	3.15	3.21	3.86	3.90	4.29	0.59	1.29
Tb	0.84	1.02	0.86	1.14	0.84	0.91	0.81	0.89	0.88	0.90	0.98	0.10	0.24
Y	32.50	33.80	30.60	39.90	30.40	33.30	31.80	29.60	27.20	29.50	28.40	30.40	6.23
Tm	0.47	0.48	0.46	0.60	0.46	0.53	0.44	0.46	0.43	0.50	0.42	0.03	0.07
Yb	2.95	3.00	2.96	3.71	3.13	3.36	2.87	2.88	2.79	3.34	2.63	0.18	0.48
U	1.99	2.73	2.37	4.62	2.25	2.45	2.23	2.33	2.68	2.74	2.96	3.67	0.65
Pb	13.50	14.10	14.70	17.20	14.70	18.20	15.30	17.60	17.20	18.20	17.40	18.70	18.10
Pr	6.36	9.48	6.95	8.88	6.51	7.15	6.42	7.10	8.08	7.91	8.38	0.79	1.72
Eu	1.34	1.59	1.35	1.45	1.37	1.29	1.30	1.28	1.44	1.45	1.52	1.26	1.44
Gd	5.27	6.90	5.46	6.93	5.17	5.78	5.14	5.75	6.02	6.03	6.65	0.60	1.62
Dy	4.88	5.45	4.90	6.51	4.90	5.21	4.51	4.99	4.82	4.98	5.11	0.44	1.19
Ho	1.09	1.16	1.08	1.44	1.03	1.19	1.00	1.08	1.01	1.11	1.04	0.08	0.21
Er	3.06	3.24	3.05	3.95	2.96	3.45	2.88	3.04	2.80	3.19	2.84	0.19	0.52
Lu	0.46	0.47	0.46	0.56	0.46	0.51	0.44	0.44	0.44	0.53	0.42	0.03	0.07
Cs	3.65	4.25	4.22	5.24	4.42	6.19	4.82	5.96	5.67	6.23	6.05	0.33	0.89

cianita-granada-biotita-quartzo-plagioclásio xisto homogêneo

cianita-granada-biotita-quartzo-plagioclásio metatexito homogêneo

leucossoma

QUÍMICA MINERAL

IC01: BIOTITA

	01C2 C3 BI	01C2 C3 BI	01C2 C1 BI	01C2 C1 BI	01C2 C1 BI	01C2 C1 BI	01C2 C3 BI	01C2 C3 BI	01d2 C3bic	01d2 C3bic	01d2 C3bic	01d2 c1 bic	01d2 c1 bic	01d2 c1 bic	01d2 C3bic	01d2 C3bic	01d2 C3bic	01d2 C3bic	01d2 C3bic	01d2 C3bic
SiO2	35.624	36.054	36.477	36.008	35.883	36.284	36.059	36.31	36.937	36.931	36.914	36.814	36.885	37.294	37.114	36.96	37.106	37.532	36.807	36.994
TiO2	2.427	2.526	2.092	2.032	2.23	2.058	2.482	2.152	1.769	1.67	1.744	1.828	1.996	1.783	1.473	1.948	1.781	1.851	1.576	1.712
Al2O3	17.927	18.119	18.876	17.947	18.539	18.282	18.261	18.591	18.825	19.254	18.367	18.903	18.908	19.307	18.946	18.817	19.013	18.875	18.924	18.96
Cr2O3	0.068	0.068	0.076	0.031	0.1	0.094	0.087	0.036	0.064	0.086	0.041	0.029	0.022	0.066	0.098	0.079	0.053	0.151	0	0.064
V2O3	0.054	0.081	0.027	0.076	0.053	0.038	0	0.094	17.796	17.455	18.024	17.93	17.243	16.947	17.555	17.821	17.461	16.404	17.83	17.669
FeO	19.228	19.256	18.458	19.519	19.25	18.958	18.907	18.393	0.057	0.106	0.097	0.111	0.077	0.051	0.116	0.097	0.079	0.043	0.073	0.058
MnO	0.216	0.173	0.259	0.216	0.23	0.216	0.247	0.147	11.703	11.517	11.673	11.534	11.407	11.544	11.734	11.58	11.767	9.893	11.609	11.636
MgO	10.557	10.481	10.673	10.11	10.307	10.788	10.559	10.897	0	0.061	0.024	0.008	0.038	0	0.032	0.027	0.04	0.483	0.033	0.042
CaO	0	0.046	0.032	0.032	0.038	0.028	0.01	0.119	0.163	0.154	0.197	0.185	0.165	0.236	0.147	0.119	0.11	0.796	0.135	0.157
Na2O	0.156	0.148	0.163	0.131	0.131	0.196	0.133	0.066	9.225	9.13	9.215	9.368	9.258	9.322	9.312	9.007	9.143	8.136	9.371	9.418
K2O	9.696	9.533	9.564	9.563	9.394	9.517	9.551	9.504	0.214	0.274	0.2	0.261	0.241	0.195	0.182	0.262	0.171	0.284	0.342	0.127
F	0.386	0.481	0.499	0.449	0.267	0.409	0.415	0.342	0	0.003	0	0	0	0.005	0.006	0.004	0.005	0.039	0.01	0.014
Cl	0.015	0.015	0.003	0.002	0.029	0.006	0.006	0	0.059	0.006	0.046	0.082	0.118	0.101	0.123	0.078	0.1	0.134	0.087	0.157
(OH)	3.81	3.226	3.012	4.074	3.668	3.297	3.459	3.492	3.278	3.467	3.542	3.056	3.744	3.234	3.241	3.312	3.242	5.509	3.348	3.049
Total	99.998	100.001	100	100.001	100	99.998	100	99.999	100	99.998	100	99.999	100.001	100.002	100.001	100	99.998	100.001	99.999	100.001
Si	2.667	2.679	2.687	2.702	2.672	2.678	2.687	2.689	2.705	2.703	2.716	2.697	2.71	2.717	2.716	2.706	2.709	2.784	2.704	2.705
Ti	0.137	0.141	0.116	0.115	0.125	0.139	0.12	0.115	0.097	0.092	0.096	0.101	0.11	0.098	0.081	0.107	0.098	0.103	0.087	0.094
Al	1.583	1.587	1.639	1.588	1.627	1.599	1.622	1.598	1.625	1.661	1.593	1.632	1.638	1.658	1.634	1.624	1.637	1.651	1.639	1.634
Cr	0.004	0.004	0.004	0.002	0.006	0.005	0.002	0.006	0.004	0.005	0.002	0.002	0.001	0.004	0.006	0.005	0.003	0.009	0	0.004
Fe3	0.094	0.094	0.093	0.095	0.094	0.094	0.093	0.093	0.092	0.092	0.093	0.092	0.093	0.092	0.092	0.092	0.092	0.093	0.093	0.092
Fe2	1.204	1.196	1.137	1.225	1.199	1.174	1.138	1.175	1.09	1.068	1.109	1.098	1.06	1.033	1.074	1.091	1.066	1.018	1.095	1.081
Mn	0.014	0.011	0.016	0.014	0.015	0.016	0.009	0.014	0.004	0.007	0.006	0.007	0.005	0.003	0.007	0.006	0.005	0.003	0.005	0.004
Mg	1.178	1.16	1.172	1.131	1.144	1.169	1.202	1.192	1.277	1.256	1.28	1.259	1.249	1.253	1.28	1.264	1.28	1.094	1.271	1.268
Ca	0	0.004	0.003	0.003	0.003	0.001	0.009	0.002	0	0.005	0.002	0.001	0.003	0	0.003	0.002	0.003	0.038	0.003	0.003
Na	0.023	0.021	0.023	0.019	0.019	0.019	0.009	0.028	0.023	0.022	0.028	0.026	0.024	0.033	0.021	0.017	0.016	0.115	0.019	0.022
K	0.926	0.904	0.899	0.916	0.892	0.905	0.897	0.9	0.862	0.852	0.865	0.875	0.868	0.867	0.869	0.841	0.852	0.77	0.878	0.879
Sum	7.83	7.801	7.79	7.809	7.796	7.798	7.789	7.812	7.78	7.764	7.791	7.791	7.76	7.759	7.783	7.756	7.761	7.679	7.793	7.787

01d2 c1 bic	01d2 c1 bic	01d2 c1 bic	01E3 C1 BI	01E3 C1 BI	01E3 C1 BI	01E3 C1 BIO 1B
36.152	36.744	36.766	36.829	36.561	36.598	35.428
1.636	1.91	1.544	1.917	1.847	1.527	1.567
19.365	18.998	19.108	19.131	19.155	19.282	19.386
0.068	0.061	0.011	0.064	0.1	0.015	0
17.785	17.621	17.796	17	17.001	16.423	17.576
0.115	0.115	0.078	0.081	0.036	0.119	0.101
12.459	11.558	11.621	12.315	12.015	12.422	13.103
0.014	0.04	0	0	0.007	0.013	0.025
0.155	0.182	0.21	0.236	0.198	0.214	0.253
8.401	9.306	9.378	9.361	9.414	9.283	8.116
0.124	0.209	0.257	0.208	0.215	0.201	0.164
0	0.017	0	0.003	0.009	0	0.006
0.062	0.086	0.043	0.078	0.087	0.048	0.105
3.714	3.244	3.295	2.865	3.448	3.943	4.241
99.998	99.999	99.999	99.999	100	100.003	100.001
2.65	2.692	2.696	2.68	2.679	2.613	2.684
0.09	0.105	0.085	0.105	0.102	0.087	0.084
1.674	1.641	1.652	1.641	1.654	1.686	1.667
0.004	0.004	0.001	0.004	0.006	0	0.001
0.092	0.092	0.092	0.092	0.092	0.093	0.092
1.09	1.08	1.091	1.034	1.042	1.084	1.007
0.007	0.007	0.005	0.005	0.002	0.006	0.007
1.361	1.262	1.27	1.335	1.312	1.44	1.358
0.001	0.003	0	0	0.001	0.002	0.001
0.022	0.026	0.03	0.033	0.028	0.036	0.03
0.786	0.87	0.877	0.869	0.88	0.764	0.869
7.779	7.783	7.8	7.799	7.798	7.811	7.802

IC01: MUSCOVITA

	01C2 C6 M	01C2 C6 M	01C2 C6 M	01C2 C6 M	01C2 C5 M	01C2 C5 M	01C2 C4 M	01C2 C4 M	01C2 C2 M	01C2 C3 M	01C2 C3 M	01C2 C1 M	01C2 C5 M	01C2 C5 M	01C2 C4 M	01C2 C4 M	01C2 C2 M	01C2 C3 M	01C2 C3 M	01C2 C1 M
SiO2	45.769	46.567	45.51	46.426	46.299	46.411	46.367	46.356	45.847	48.526	47.109	46.633	46.303	45.964	46.182	45.793	45.562	46.432	46.552	46.712
TiO2	0.128	0.284	0.009	0.462	0.094	0.148	0.038	0.157	0.704	0.665	0.636	0.527	0.041	0.208	0.053	0.244	0.781	0.741	0.791	0.523
Al2O3	33.682	34.034	34.192	33.513	34.043	33.99	34.611	34.42	33.516	32.654	33.369	33.754	34.673	33.937	34.266	34.243	33.446	34.141	34.434	33.408
Cr2O3	0.046	0.022	0.018	0	0	0	0	0	0.027	0.037	0.057		0.061	0.011	0	0.061	0.035	0.024	0.033	
FeO	2.264	2.366	2.321	2.333	2.122	2.39	2.007	1.86	1.78	1.803	2.139	2.09	2.198	2.192	2.051	1.904	1.788	2.101	1.827	2.031
MnO	0.019	0	0.07	0	0	0	0	0.056	0	0.033	0.013	0	0.06	0	0.021	0.032	0.02	0	0.038	0.05
MgO	0.631	0.79	0.609	0.684	0.734	0.651	0.726	0.728	0.825	0.82	0.969	0.815	0.63	0.703	0.746	0.67	0.858	0.787	0.737	0.98
CaO	0.008	0	0	0.03	0.01	0.013	0.005	0	0	0	0.027	0	0.049	0	0.021	0.044	0	0	0.016	0.016
Na2O	0.57	0.556	0.586	0.541	0.574	0.634	0.706	0.634	0.662	0.52	0.569	0.542	0.673	0.61	0.693	0.555	0.663	0.602	0.629	0.539
K2O	10.626	10.64	10.772	10.597	10.554	10.695	10.535	10.454	10.53	9.935	10.437	10.501	10.417	10.619	10.547	10.726	10.332	10.386	10.569	10.527
F	0	0	0.069	0.027	0	0.023	0.021	0.023	0	0.044	0	0	0	0.035	0	0	0.011	0.006	0.011	0
Cl	0.005	0.014	0.004	0.011	0.016	0.008	0	0.002	0.005	0.007	0.008	0.008	0.013	0.006	0.02	0	0.004	0	0.011	0.008
V2O3	0.031	0.011	0	0.015	0.006	0.01	0.059	0.002	0.058	0.086	0.093	0.063	0.003	0.024	0.032	0.014	0.016	0.014	0.009	0.056
(OH)	6.223	4.719	5.87	5.374	5.552	5.039	4.934	5.318	6.047	4.889	4.574	5.067	4.881	5.709	5.371	5.714	6.487	4.77	4.351	5.09
Total	100.001	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	99.998	99.998	99.998	99.999	100.002	99.998	100.000	99.997	100.001	100.001	99.999
Si	3.081	3.083	3.057	3.095	3.086	3.085	3.071	3.078	3.075	3.191	3.111	3.075	3.067	3.075	3.075	3.063	3.068	3.069	3.064	3.068
Ti	0.006	0.014	0	0.023	0.005	0.007	0.002	0.008	0.036	0.033	0.032	0.036	0.002	0.01	0.003	0.012	0.04	0.037	0.039	0.04
Al	2.673	2.657	2.708	2.634	2.675	2.664	2.703	2.694	2.65	2.531	2.598	2.65	2.708	2.677	2.69	2.7	2.655	2.661	2.672	2.655
Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fe3	0.085	0.084	0.085	0.085	0.085	0.084	0.084	0.084	0.085	0.083	0.084	0.085	0.084	0.085	0.085	0.085	0.085	0.084	0.084	0.085
Fe2	0.127	0.131	0.13	0.13	0.118	0.133	0.111	0.103	0.1	0.099	0.118	0.1	0.122	0.123	0.114	0.107	0.101	0.116	0.101	0.101
Mn	0.001	0	0.004	0	0	0	0	0.003	0	0.002	0.001	0	0.003	0	0.001	0.002	0.001	0	0.002	0.001
Mg	0.063	0.078	0.061	0.068	0.073	0.064	0.072	0.072	0.082	0.08	0.095	0.082	0.062	0.07	0.074	0.067	0.086	0.078	0.072	0.086
Ca	0.001	0	0	0.002	0.001	0.001	0	0	0	0	0.002	0	0.003	0	0.001	0.003	0	0	0.001	0
Na	0.074	0.071	0.076	0.07	0.074	0.082	0.091	0.082	0.086	0.066	0.073	0.086	0.086	0.079	0.089	0.072	0.087	0.077	0.08	0.087
K	0.913	0.899	0.923	0.901	0.898	0.907	0.89	0.885	0.901	0.833	0.879	0.901	0.88	0.906	0.896	0.915	0.888	0.876	0.888	0.888
Sum	7.027	7.018	7.046	7.009	7.015	7.028	7.025	7.01	7.016	6.92	6.993	7.016	7.019	7.027	7.029	7.026	7.01	6.998	7.003	7.01

01C2 C1 M	01E3 C1 M	01E3 C1 M	01E3 C1 M	01E3 C1 MS1.1
47.149	46.122	45.798	46.588	46.423
0.598	0.384	0.594	0.48	0.503
33.137	34.644	33.94	35.17	34.074
	0.035	0.048	0.087	0.025
1.959	2.24	2.239	2.25	2.33
0.004	0.028	0	0	0
1.016	0.636	0.711	0.561	0.752
0	0.043	0.102	0.018	0.05
0.555	1.112	1.193	1.037	1.116
10.344	9.641	9.589	9.305	9.471
0	0	0	0	0
0.012	0.004	0.034	0	0
0.018	0.05	0.085	0.117	0.079
5.197	5.063	5.673	4.385	5.178
99.999	100.001	99.998	99.998	100.001
3.063	3.054	3.058	3.056	3.076
0.012	0.019	0.03	0.024	0.025
2.7	2.705	2.672	2.72	2.662
0	0	0	0	0
0.085	0.084	0.085	0.083	0.084
0.107	0.124	0.125	0.123	0.129
0.002	0.002	0	0	0
0.067	0.063	0.071	0.055	0.074
0.003	0.003	0.007	0.001	0.004
0.072	0.143	0.154	0.132	0.143
0.915	0.815	0.817	0.779	0.801
7.026	7.011	7.02	6.974	6.999

IC01: GRANADA

	01C2 C3 Gr	01C2 C3 Gr	01C2 C3 Gr	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c4 grt	01d2c1 grt	01d2c1 grt	01d2c1 grt	01d2c1 grt
SiO2	36.102	36.293	36.206	36.423	36.945	36.612	37.079	36.835	37.079	36.953	36.605	37.251	36.739	37.108	37.067	37.031	37.111	37.065	36.754	37.203
TiO2	0	0	0.023	0.081	0.143	0.12	0.12	0.117	0.051	0.009	0.082	0.111	0.073	0.054	0.016	0.019	0.101	0.131	0.029	0.081
Al2O3	21.091	21.545	21.229	21.11	21.17	21.21	21.367	21.12	21.327	21.267	21.132	21.327	21.173	21.591	21.589	21.827	21.14	21.679	21.597	21.153
Cr2O3	0.03	0	0.05	0	0.072	0.001	0.031	0.042	0.022	0.03	0	0	0.037	0.012	0.013	0.001	0.022	0.008	0	0.049
FeO	26.958	27.071	27.177	0.05	0.015	0	0	0.01	0	0.019	0	0.051	0.015	0.03	0.03	0.044	0.062	0.041	0.018	0.012
MnO	11.579	10.945	10.57	28.59	27.93	27.965	27.848	27.715	28.714	29.043	29.526	29.918	30.533	30.416	30.113	29.882	28.873	28.047	27.932	27.854
MgO	1.6	2.129	1.875	4.261	4.606	4.703	4.807	4.369	3.926	3.318	2.575	2.017	1.793	1.344	1.211	1.732	3.609	4.186	4.434	4.681
CaO	2.441	2.437	3.184	1.527	1.412	1.632	1.459	1.445	1.61	1.674	1.826	1.738	2.109	2.207	2.31	2.682	1.587	1.69	1.738	1.59
Na2O	0	0.066	0.06	7.724	7.921	7.865	8.253	8.027	8.102	7.943	8.262	8.097	7.587	8.069	8.083	7.627	7.72	8.006	8.254	8.484
K2O	0	0.019	0	0	0.003	0.014	0	0	0	0	0	0.009	0.003	0	0	0	0	0.003	0	0.033
V2O3	0.02	0	0.004	0	0.064	0.017	0.018	0.033	0.059	0.037	0.022	0.012	0	0.006	0	0	0.03	0.05	0.034	0.02
NiO	0	0.01	0.03	0	0.027	0.009	0	0	0	0.001	0	0	0	0.009	0	0	0	0.012	0.016	0
Total	99.821	100.515	100.408	99.766	100.308	100.148	100.982	99.713	100.89	100.294	100.03	100.531	100.062	100.846	100.432	100.845	100.255	100.918	100.806	101.16
Si	2.863	2.849	2.85	2.86	2.879	2.86	2.871	2.883	2.873	2.877	2.86	2.887	2.866	2.865	2.868	2.853	2.89	2.865	2.85	2.877
Ti	0	0	0.001	0.005	0.008	0.007	0.007	0.007	0.003	0.001	0.005	0.006	0.004	0.003	0.001	0.001	0.006	0.008	0.002	0.005
Al	1.972	1.994	1.97	1.954	1.945	1.954	1.95	1.948	1.948	1.952	1.946	1.949	1.947	1.965	1.969	1.983	1.941	1.975	1.974	1.929
Cr	0.002	0	0.003	0	0.004	0	0.002	0.003	0.001	0.002	0	0	0.002	0.001	0.001	0	0.001	0	0	0.003
Fe3	0.234	0.232	0.233	0.232	0.23	0.231	0.229	0.231	0.229	0.23	0.231	0.229	0.231	0.228	0.229	0.228	0.23	0.228	0.229	0.229
Fe2	1.788	1.777	1.789	1.878	1.82	1.827	1.803	1.814	1.861	1.891	1.929	1.939	1.992	1.964	1.949	1.925	1.881	1.813	1.811	1.802
Mn	0.778	0.728	0.705	0.283	0.304	0.311	0.315	0.29	0.258	0.219	0.17	0.132	0.118	0.088	0.079	0.113	0.238	0.274	0.291	0.307
Mg	0.189	0.249	0.22	0.179	0.164	0.19	0.168	0.169	0.186	0.194	0.213	0.201	0.245	0.254	0.266	0.308	0.184	0.195	0.201	0.183
Ca	0.207	0.205	0.269	0.65	0.661	0.658	0.685	0.673	0.673	0.663	0.692	0.672	0.634	0.667	0.67	0.63	0.644	0.663	0.686	0.703
Na	0	0.01	0.009	0	0.01	0.003	0.003	0.005	0.009	0.006	0.003	0.002	0	0.001	0	0	0.005	0.007	0.005	0.003
K	0	0.002	0	0	0.003	0.001	0	0	0	0	0	0	0	0.001	0	0	0	0.001	0.002	0
Sum	8.033	8.045	8.05	8.042	8.029	8.042	8.033	8.022	8.04	8.034	8.049	8.018	8.04	8.036	8.032	8.041	8.02	8.03	8.05	8.04

	01d2c1 grt	01d2c1 grt	01d2c1 grt	01d2c1 grt	01d2c1 grt	01d2c1 grt	01d2c1 grt	01d2c1 grt	01d2c1 grt	01d2c1 grt	01E3C6	01E3C7	01E3C8	01E3C9	01E3C10	01E3C11	01E3C12	01E3C13	01E3C14	01E3C15
SiO2	37.218	36.932	36.655	37.253	36.85	37.039	37.414	37.234	36.906	37.013	37.02	37.358	36.894	36.88	37.632	37.26	37.211	36.891	37.396	37.201
TiO2	0.023	0.02	0.072	0.098	0.284	0.108	0.047	0.03	0	0.103	0	0	0.012	0.108	0.017	0.031	0.041	0	0.015	0.014
Al2O3	21.534	21.28	21.356	21.115	21.131	21.455	21.235	21.483	21.506	21.395	21.471	21.085	21.417	21.114	21.386	21.358	22.066	21.75	21.643	21.849
Cr2O3	0.018	0.047	0.074	0.067	0	0.06	0.002	0.008	0.014	0.03	0.066	0.047	0.007	0.063	0	0.034	0	0	0	0.021
FeO	0	0.047	0.06	0.002	0.075	0.036	0.031	0.028	0.04	0	0	0	0.053	0.062	0.018	0.004	0.032	0	0.013	0.039
MnO	28.169	27.859	28.288	28.738	29.485	29.738	30.124	30.325	30.479	29.495	31.431	31.302	31.346	31.206	31.197	29.622	29.717	30.481	31.54	30.012
MgO	4.795	4.29	4.284	3.931	3.289	2.642	1.654	1.271	0.978	1.842	3.625	4.086	4.67	4.695	3.541	2.611	2.499	2.579	2.668	2.307
CaO	1.612	1.482	1.55	1.611	1.682	1.739	1.905	2.208	2.401	2.549	3.939	3.719	3.485	3.263	3.803	3.639	3.608	4.268	4.342	3.88
Na2O	7.891	8.576	8.133	7.89	7.541	7.952	8.204	8.044	7.637	7.903	2.9	2.861	2.484	2.584	3.438	5.742	5.655	4.113	3.37	5.135
K2O	0	0.014	0.071	0.036	0	0	0	0.052	0.047	0.017	0	0	0.035	0	0	0.005	0	0.002	0.007	0
V2O3	0.018	0.018	0.042	0.03	0.009	0.027	0.013	0.007	0.027	0.038	0	0.052	0.013	0	0.038	0.03	0.029	0	0	0.023
NiO	0.002	0	0.003	0	0.023	0	0	0	0	0	0.01	0.024	0	0.013	0	0	0.015	0.005	0.012	0
Total	101.28	100.565	100.588	100.771	100.369	100.796	100.629	100.69	100.035	100.385	100.462	100.534	100.416	99.988	101.07	100.336	100.873	100.089	101.006	100.481
Si	2.872	2.871	2.855	2.889	2.872	2.869	2.894	2.877	2.868	2.865	2.869	2.896	2.872	2.883	2.894	2.877	2.855	2.854	2.872	2.864
Ti	0.001	0.001	0.004	0.006	0.017	0.006	0.003	0.002	0	0.006	0	0	0.001	0.006	0.001	0.002	0.002	0	0.001	0.001
Al	1.959	1.95	1.961	1.93	1.941	1.959	1.937	1.957	1.971	1.953	1.961	1.927	1.965	1.946	1.939	1.944	1.996	1.984	1.96	1.983
Cr	0.001	0.003	0.005	0.004	0	0.004	0	0	0.001	0.002	0.004	0.003	0	0.004	0	0.002	0	0	0	0.001
Fe3	0.228	0.23	0.23	0.229	0.23	0.229	0.229	0.228	0.23	0.229	0.229	0.229	0.23	0.231	0.227	0.228	0.227	0.229	0.227	0.227
Fe2	1.818	1.811	1.843	1.864	1.922	1.926	1.949	1.96	1.981	1.91	2.037	2.029	2.041	2.04	2.007	1.913	1.907	1.972	2.026	1.932
Mn	0.313	0.282	0.283	0.258	0.217	0.173	0.108	0.083	0.064	0.121	0.238	0.268	0.308	0.311	0.231	0.171	0.162	0.169	0.174	0.15
Mg	0.185	0.172	0.18	0.186	0.195	0.201	0.22	0.254	0.278	0.294	0.455	0.43	0.404	0.38	0.436	0.419	0.413	0.492	0.497	0.445
Ca	0.652	0.714	0.679	0.656	0.63	0.66	0.68	0.666	0.636	0.656	0.241	0.238	0.207	0.216	0.283	0.475	0.465	0.341	0.277	0.424
Na	0.003	0.003	0.006	0.005	0.001	0.004	0.002	0.001	0.004	0.006	0	0.008	0.002	0	0.006	0.004	0.004	0	0	0.003
K	0	0	0	0	0.002	0	0	0	0	0	0.001	0.002	0	0.001	0	0	0.001	0	0.001	0
Sum	8.034	8.038	8.046	8.026	8.028	8.031	8.021	8.029	8.033	8.04	8.035	8.03	8.03	8.02	8.024	8.036	8.034	8.04	8.034	8.031

	01E3C16	01E3C17	01E3C18	01E3C19	01E3C20
SiO2	37.208	37.135	37.106	37.167	36.815
TiO2	0	0	0	0.01	0
Al2O3	22.195	21.764	21.702	21.729	21.546
Cr2O3	0	0	0.017	0	0.033
FeO	0.033	0.003	0	0.025	0
MnO	31.142	30.952	31.877	30.887	31.219
MgO	2.46	2.685	2.669	2.67	4.852
CaO	4.245	4.306	4.473	4.065	3.018
Na2O	4.051	3.544	2.793	3.814	3.469
K2O	0.014	0	0.009	0	0
V2O3	0.029	0.01	0	0.005	0.028
NiO	0	0.014	0.005	0.008	0.002
Total	101.377	100.413	100.651	100.38	100.982
Si	2.845	2.864	2.861	2.869	2.856
Ti	0	0	0	0.001	0
Al	2.001	1.979	1.973	1.977	1.971
Cr	0	0	0.001	0	0.002
Fe3	0.226	0.228	0.228	0.228	0.229
Fe2	1.992	1.997	2.056	1.994	2.026
Mn	0.159	0.175	0.174	0.175	0.319
Mg	0.484	0.495	0.514	0.468	0.349
Ca	0.332	0.293	0.231	0.315	0.288
Na	0.004	0.001	0	0.001	0.004
K	0	0.001	0	0.001	0
Sum	8.043	8.034	8.038	8.028	8.045

IC01: PLAGIOCLÁSIO

AMOSTRA	01C2 C6 P	01C2 C6 P	01C2 C6 P	01C2 C6 P	01C2 C6 P	01C2 C6 P	01C2 C6 P	01C2 C6 P	01C2 C6 P	01C2 C6 P	01C2 C5 P	01C2 C5 P	01C2 C5 P	01C2 C5 P	01C2 C5 P	01C2 C4 P	01C2 C4 P	01C2 C4 P	01C2 C4 P	01C2 C4 P
SiO2	63.593	64.789	63.934	63.253	63.967	64.057	65.281	65.401	64.98	64.381	64.559	63.516	63.821	64.313	65.287	62.144	63.204	62.094	63.028	63.618
TiO2	0.031	0	0	0.001	0	0	0	0	0	0.004	0	0	0	0	0	0.009	0	0.017	0	0
Al2O3	22.041	21.888	22.41	23.355	22.476	22.737	21.282	21.832	21.494	21.892	21.849	22.323	22.738	22.158	21.387	23.201	22.478	22.226	22.594	22.649
Cr2O3	0	0.022	0.044	0	0	0.003	0.024	0.01	0	0	0	0	0.022	0	0.007	0.026	0.018	0	0.008	0
V2O3	0	0	0.013	0	0	0	0.002	0.014	0.011	0.033	0	0	0.024	0	0.007	0.006	0	0.008	0	0.04
CaO	3.352	3.238	3.441	4.68	4.046	3.879	2.74	2.805	2.834	3.679	3.288	3.907	4.343	3.633	2.789	4.945	4.138	3.871	3.838	3.589
MgO	0	0	0.015	0	0	0	0	0	0.014	0	0	0	0	0.01	0	0	0	0	0	0.008
FeO	0.046	0.02	0.023	0.041	0.031	0	0.036	0.043	0.014	0	0	0.022	0	0	0.027	0	0.012	0.021	0.042	0.021
BaO	0.029	0	0	0.057	0	0.049	0.021	0.058	0	0	0	0	0	0	0.007	0.05	0.058	0	0	0
SrO	0.196	0.05	0.119	0.102	0.092	0.112	0.06	0.141	0.071	0.194	0.034	0.084	0.169	0.079	0.087	0.126	0	0	0.154	0.014
Na2O	9.022	9.43	9.364	8.878	9.28	9.175	9.769	9.933	9.374	9.538	9.514	9.156	8.897	9.204	9.597	8.691	8.934	8.697	8.622	9.278
K2O	0.161	0.09	0.102	0.094	0.067	0.085	0.09	0.088	0.145	0.106	0.056	0.061	0.093	0.064	0.086	0.038	0.101	0.22	0.114	0.07
Total	98.471	99.527	99.465	100.461	99.959	100.097	99.305	100.325	98.937	99.827	99.3	99.069	100.107	99.461	99.281	99.236	98.943	97.154	98.4	99.287
Si	8.5357	8.5899	8.5009	8.3596	8.4758	8.4701	8.6677	8.6118	8.6512	8.5422	8.5816	8.4844	8.4468	8.5409	8.6651	8.3228	8.4571	8.455	8.4659	8.4706
Ti	0.0031	0	0	0	0	0	0	0	0	0.0004	0	0	0	0	0	0.0009	0	0.0017	0	0
Al	3.487	3.4206	3.5122	3.6381	3.5104	3.5436	3.3306	3.3885	3.3729	3.4237	3.4233	3.5147	3.5472	3.4685	3.3458	3.6625	3.5452	3.5672	3.577	3.5545
Cr	0	0.0023	0.0046	0	0	0.0003	0.0025	0.0011	0	0	0	0	0.0023	0	0.0008	0.0027	0.0019	0	0.0008	0
V	0	0	0.0014	0	0	0	0.0002	0.0015	0.0012	0.0035	0	0	0.0026	0	0.0007	0.0007	0	0.0009	0	0.0043
Ca	0.4821	0.4601	0.4903	0.66	0.5744	0.5496	0.3898	0.3958	0.4043	0.523	0.4684	0.5592	0.6159	0.5169	0.3966	0.7096	0.5932	0.5648	0.5523	0.5121
Mg	0	0.00	0.0031	0	0	0	0	0	0.0028	0	0	0	0	0.002	0	0	0	0	0	0.0016
Fe	0.0052	0.0023	0.0025	0	0.0035	0	0.004	0.0048	0.0016	0	0	0.0025	0	0	0.003	0	0.0014	0.0024	0.0047	0.0024
Ba	0.0015	0	0	0	0	0.0026	0.0011	0.003	0	0	0	0	0	0	0.0004	0.0026	0.003	0	0	0
Sr	0.0152	0.0039	0.0092	0.01	0.007	0.0086	0.0046	0.0107	0.0055	0.0149	0.0026	0.0065	0.013	0.0061	0.0067	0.0098	0	0	0.012	0.0011
Na	2	2.4242	2.4141	2.275	2.3842	2.3523	2.515	2.5363	2.42	2.4538	2.4522	2.3715	2.2833	2.3702	2.4697	2.2569	2.318	2.2962	2.2455	2.3953
K	0.0276	0.0153	0.0174	0.02	0.0113	0.0144	0.0153	0.0148	0.0247	0.018	0.0095	0.0104	0.0156	0.0108	0.0145	0.0065	0.0173	0.0381	0.0195	0.0118
Soma	14.9055	14.9184	14.9557	14.9666	14.9667	14.9413	14.9308	14.9682	14.8841	14.9796	14.9376	14.9492	14.9266	14.9153	14.9033	14.975	14.937	14.9264	14.8777	14.9536

01C2 C2 P	01C2 C2 P	01C2 C2 P	01C2 C2 P	01C2 C2 P	01C2 C2 P	01C2 C2 P	01C2 C2 P	01C2 C2 P	01C2 C2 P	01C2 C2 P	01C3 C2 P	01C3 C2 P	01C3 C2 P	01C3 C2 P	01C3 C2 P	01C3 C2 P	01C3 C1 P	01C3 C1 P	01C3 C1 P	01C3 C1 P	01C3 C1 P
61.552	62.103	61.853	61.394	62.012	62.608	61.584	61.859	61.89	62.092	62.348	60.894	61.132	62.114	61.617	61.449	63.852	64.739	61.975	62.186	62.206	
0	0	0	0	0	0.021	0.024	0	0.012	0	0.056	0	0.002	0	0	0.01	0	0	0	0.006	0.011	
23.734	23.573	23.619	23.872	23.412	22.302	23.814	24.112	24.1	23.721	23.076	23.837	23.98	23.543	24.314	23.656	21.929	21.434	23.473	23.491	23.435	
0.014	0.052	0	0	0	0	0.036	0.022	0	0.017	0.031	0	0	0.032	0.009	0.005	0.023	0	0	0	0.047	
0	0	0	0	0	0	0	0.014	0.042	0	0.054	0	0.002	0.021	0	0.033	0	0	0	0.004	0.028	
5.325	5.639	5.378	5.833	5.288	4.068	5.284	5.444	5.433	5.432	4.666	5.796	5.642	4.964	5.857	5.396	3.686	3.286	5.379	5.291	5.288	
0	0.005	0.004	0	0	0.004	0.001	0	0	0.002	0	0	0	0	0	0	0	0	0.01	0.005	0.014	
0	0.057	0.058	0.039	0.163	0.016	0.022	0	0.025	0.114	0.009	0	0.048	0.05	0.032	0.185	0.135	0.089	0.022	0.066	0	
0	0	0.029	0.145	0.094	0	0.036	0	0	0.094	0.037	0.13	0.03	0	0.036	0.045	0.015	0	0.051	0	0.094	
0	0.119	0.145	0.117	0.111	0.152	0	0	0.227	0.2	0.124	0.129	0.06	0.015	0.096	0	0.093	0.033	0.194	0.217	0.098	
8.075	8.13	8.254	7.932	8.336	8.76	8.32	8.118	8.333	8.181	8.706	8.029	7.84	8.371	7.845	7.965	9.284	9.471	8.111	8.158	7.977	
0.095	0.144	0.127	0.106	0.057	0.07	0.157	0.122	0.101	0.073	0.057	0.095	0.067	0.083	0.088	0.071	0.067	0.086	0.139	0.189	0.216	
98.795	99.822	99.467	99.438	99.473	98.001	99.278	99.691	100.163	99.926	99.164	98.91	98.803	99.193	99.894	98.815	99.084	99.138	99.354	99.613	99.414	
8.2676	8.2764	8.2718	8.2242	8.2942	8.4566	8.2473	8.2399	8.2257	8.2701	8.3478	8	8.2221	8.307	8.2034	8.262	8.5294	8.6211	8.2941	8.3003	8.3123	
0	0	0	0	0	0.0021	0.0024	0	0.0012	0	0.0056	0	0.0002	0	0	0.001	0	0	0	0.0006	0.0011	
3.7576	3.7029	3.7231	3.7693	3.6909	3.5506	3.759	3.7858	3.7755	3.7239	3.6418	3.7859	3.8015	3.7112	3.8156	3.7489	3.4527	3.3643	3.7027	3.6958	3.6912	
0.0015	0.0055	0	0	0	0	0.0038	0.0023	0	0.0018	0.0033	0	0	0.0034	0.0009	0.0005	0.0024	0	0	0	0.005	
0	0	0	0	0	0	0	0.0015	0.0045	0	0.0058	0	0.0002	0.0023	0	0.0035	0	0	0	0.0004	0.003	
0.7664	0.8053	0.7707	0.8373	0.7578	0.5888	0.7583	0.7771	0.7737	0.7752	0.6694	0.8368	0.8131	0.7114	0.8355	0.7773	0.5275	0.4688	0.7714	0.7567	0.7571	
0	0.0011	0.0008	0	0	0.0009	0.0001	0	0	0.0004	0	0	0	0	0	0	0	0	0.002	0.0011	0.0029	
0	0.0064	0.0065	0.0044	0.0182	0.0018	0.0025	0	0.0027	0.0127	0.001	0	0.0054	0.0056	0.0035	0.0208	0.0151	0.01	0.0025	0.0073	0	
0	0	0.0015	0.0076	0.0049	0	0.0019	0	0	0.0049	0.0019	0.0069	0.0016	0	0.0019	0.0023	0.0008	0	0.0027	0	0.0049	
0	0.0092	0.0112	0.0091	0.0086	0.0119	0	0	0.0175	0.0154	0.0096	0.0101	0.0046	0.0012	0.0074	0	0.0072	0.0025	0.015	0.0168	0.0076	
2.1031	2.1009	2.1403	2.0604	2.1619	2.2944	2.1604	2.0968	2.1474	2.1129	2.2602	2	2.0446	2.1707	2.0253	2.0764	2.4047	2.4457	2.1047	2.1113	2.0669	
0.0163	0.0244	0.0216	0.0181	0.0098	0.012	0.0268	0.0207	0.0171	0.0124	0.0098	0.0163	0.0115	0.0141	0.0149	0.0121	0.0115	0.0146	0.0237	0.0322	0.0368	
14.9125	14.9321	14.9476	14.9304	14.9462	14.9192	14.9625	14.9241	14.9654	14.9297	14.9562	14.9589	14.9049	14.269	14.9084	14.9049	14.9512	14.9269	14.9188	14.9227	14.8888	

01C3 C1 P	01C3 C1 P	01C3 C1 P	01C3 C1 P	01C3 C1 P	01C3 C1 P	01d2 c4 pl	01d2 c4 pl	01d2 c4 pl	01d2 c4 p2	01d2 c4 p2	01d2 c4 p2	01d2 c6 pl	01d2 c6 pl	01d2 c6 pl	01d2 c6 pl	01d2 c6 pl	01d2 c6 pl	01d2 c6 pl	01d2 c6 pl	01d2 c6 pl
62.092	61.961	60.922	62.037	61.746	61.578	59.331	60.893	59.016	59.411	59.802	59.841	60.231	59.458	60.435	60.671	59.218	59.572	60.043	58.507	58.118
0	0	0	0	0.003	0	0.007	0	0	0	0	0	0	0	0	0.01	0	0.028	0	0	0
23.514	23.642	23.546	23.63	24.141	23.767	24.974	24.862	24.885	25.466	24.96	25.191	25.514	25.53	24.506	24.113	25.107	24.783	24.529	25.659	25.357
0	0.026	0	0	0	0	0.043	0.055	0	0.011	0.042	0	0.016	0.03	0	0	0.027	0	0.013	0.016	0
0.017	0.044	0	0.01	0.042	0	0	0.021	0	0.038	0.1	0.023	0.297	0.099	0.028	0.062	0.126	0.041	0.032	0.071	0.02
5.298	5.288	5.429	5.328	5.613	5.532	0.017	0.019	0	0.024	0	0.035	0	0.02	0	0	0	0	0	0.004	0
0.003	0	0	0	0	0	7.35	6.292	7.515	7.407	7.127	6.962	6.822	7.438	6.374	6.602	7.518	7.201	7.005	8.116	7.98
0.04	0.014	0.045	0.05	0	0	7.011	7.34	6.769	6.88	6.975	7.081	7.082	6.779	7.332	7.422	6.632	7.142	6.892	6.367	6.481
0	0.065	0	0.015	0	0.058	0.064	0.079	0.06	0.086	0.066	0.029	0.064	0.07	0.027	0.064	0.049	0.034	0.069	0.061	0.055
0.12	0.157	0.173	0.034	0.13	0	0	0	0	0.1	0.014	0.044	0	0	0	0	0.049	0.022	0.122	0	0
8.377	8.182	8.083	8.114	8.015	8.178	0.084	0.147	0.083	0.112	0.308	0.208	0.084	0.002	0.189	0	0.092	0.225	0.029	0.037	0.058
0.212	0.193	0.189	0.152	0.156	0.08	0.006	0.048	0.037	0	0	0.013	0.007	0.008	0.025	0	0.026	0.009	0	0.001	0
99.673	99.572	98.387	99.37	99.846	99.193	98.887	99.756	98.365	99.535	99.394	99.427	100.117	99.434	98.916	98.944	98.844	99.057	98.734	98.839	98.069
8.2872	8.2773	8.2426	8.2898	8.2241	8.2514	8.0143	8.1233	8.0123	7.9793	8.0409	8.0328	8.0258	7.9811	8.1342	8.1642	8.0031	8.039	8.1051	7.9155	7.9257
0	0	0	0	0.0003	0	0.0007	0	0	0	0	0	0	0	0	0.001	0	0.0029	0	0	0
3.6992	3.7227	3.755	3.7218	3.79	3.7538	3.9763	3.9093	3.9823	4.0314	3.9559	3.9859	4.0072	4.0392	3.8878	3.8246	3.9994	3.9419	3.9028	4.0918	4.076
0	0.0027	0	0	0	0	0.0046	0.0058	0	0.0012	0.0044	0	0.0017	0.0032	0	0	0.0029	0	0.0014	0.0017	0
0.0019	0.0047	0	0.0011	0.0045	0	0.0007	0.0052	0.004	0	0	0.0014	0.0007	0.0008	0.0026	0	0.0028	0.0009	0	0.0001	0
0.7577	0.757	0.7871	0.7629	0.801	0.7943	1.0638	0.8994	1.0932	1.066	1.0268	1.0014	0.974	1.0697	0.9192	0.9519	1.0887	1.0413	1.0132	1.1765	1.1661
0.0005	0	0	0	0	0	0.0034	0.0039	0	0.0049	0	0.007	0	0.004	0	0	0	0	0	0.0008	0
0.0044	0.0016	0.0051	0.0056	0	0	0	0.0024	0	0.0043	0.0112	0.0025	0.0331	0.0111	0.0031	0.0069	0.0142	0.0046	0.0036	0.0081	0.0023
0	0.0034	0	0.0008	0	0.0031	0	0	0	0.0053	0.0007	0.0023	0	0	0	0	0.0026	0.0012	0.0065	0	0
0.0093	0.0122	0.0136	0.0026	0.0101	0	0.0066	0.0114	0.0065	0.0087	0.024	0.0162	0.0065	0.0002	0.0147	0	0.0072	0.0176	0.0023	0.0029	0.0046
2.1679	2.1195	2.1205	2.1023	2.0701	2.1248	1.8364	1.8986	1.7819	1.7918	1.8184	1.8432	1.8298	1.7644	1.9134	1.9366	1.7379	1.8687	1.8041	1.6702	1.7137
0.0361	0.0328	0.0327	0.026	0.0265	0.0138	0.011	0.0134	0.0104	0.0147	0.0114	0.005	0.0109	0.012	0.0046	0.011	0.0085	0.0058	0.0119	0.0106	0.0096
14.9643	14.9338	14.9565	14.9129	14.9266	14.941	14.9179	14.8725	14.8907	14.9076	14.8938	14.8976	14.8898	14.8855	14.8796	14.8963	14.8675	14.924	14.8508	14.8781	14.898

01d2 c6 pl	01d2 c6 pl	01d2 c6 pl	01d2 c6 pl	01d2 c6 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c1 pl	01d2 c9 pl	01d2 c9 pl	01d2 c9 pl	01d2 c9 pl
58.5	59.638	58.58	57.974	58.67	58.053	58.964	58.995	58.936	59.213	58.4	59.955	59.205	58.801	58.403	59.22	65.896	59.286	58.357	60.76	59.169
0	0	0	0	0.03	0	0	0	0	0.014	0.01	0	0	0	0	0	0	0	0.045	0	0.029
25.68	25.104	25.725	26.334	25.577	26.598	25.864	25.228	25.441	25.515	25.781	25.531	25.952	25.81	26.203	25.618	21.33	26.175	26.286	24.8	26.016
0	0.018	0	0	0	0	0.01	0	0	0.001	0.015	0	0	0	0.028	0.006	0.018	0	0	0.024	0
0.334	0.192	0.147	0.089	0.202	0.217	0.12	0.056	0.09	0.247	0.147	0.024	0.07	0.257	0.077	0.101	0.242	0.076	0.002	0	0.066
0	0	0	0	0	0	0.002	0.001	0.01	0	0	0	0	0	0.014	0	0	0.018	0.004	0	0.002
8.203	7.666	7.982	8.747	7.831	8.435	8.038	7.597	7.886	7.697	8.318	7.398	8.124	7.912	8.494	7.934	2.514	7.755	8.603	6.809	8
6.466	6.669	6.422	6.272	6.534	6.415	6.55	6.732	6.39	6.721	6.505	7.018	6.449	6.589	6.31	6.632	9.755	6.7	6.267	7.296	6.609
0.081	0.041	0.036	0.018	0.066	0.061	0.168	0.057	0.064	0.072	0.07	0.082	0.089	0.042	0.051	0.066	0.075	0.053	0.053	0.036	0.055
0.022	0	0	0	0.043	0	0.015	0	0	0	0.13	0.036	0.201	0.036	0	0.036	0	0.022	0	0.058	0.072
0.123	0.034	0.195	0.167	0.162	0.075	0.166	0.14	0.168	0	0.194	0	0.056	0.176	0.029	0.083	0.115	0.066	0.013	0.13	0.124
0	0	0	0.008	0	0.005	0	0.033	0	0	0.006	0	0	0	0.023	0	0.021	0.028	0.053	0.001	0.01
99.409	99.362	99.087	99.609	99.115	99.859	99.897	98.839	98.985	99.48	99.576	100.044	100.146	99.623	99.632	99.696	99.966	100.179	99.683	99.914	100.152
7.8933	8.0154	7.9126	7.81	7.926	7.7985	7.9083	7.9783	7.9587	7.9581	7.8754	7.9999	7.9169	7.9078	7.8503	7.9463	8.6886	7.9109	7.839	8.1064	7.9084
0	0	0	0	0.003	0	0	0	0	0.0014	0.001	0	0	0	0	0	0	0	0.0046	0	0.0029
4.0842	3.977	4.0957	4.1815	4.0729	4.2114	4.0888	4.0214	4.0495	4.0419	4.098	4.0153	4.0905	4.0914	4.1515	4.0517	3.315	4.1169	4.162	3.9	4.0985
0	0.0019	0	0	0	0	0.0011	0	0	0.0001	0.0016	0	0	0	0.003	0.0007	0.0019	0	0	0.0025	0
0	0	0	0.0008	0	0.0005	0	0.0035	0	0	0.0006	0	0	0	0.0025	0	0.0023	0.003	0.0058	0.0001	0.001
1.186	1.104	1.1553	1.2627	1.1335	1.2141	1.1552	1.1009	1.1411	1.1084	1.2019	1.0578	1.1641	1.1401	1.2233	1.1408	0.3552	1.1088	1.2383	0.9734	1.1457
0	0	0	0	0	0	0.0003	0.0002	0.002	0	0	0	0	0	0.0029	0	0.0001	0.0036	0.0009	0	0.0003
0.0377	0.0216	0.0166	0.0101	0.0228	0.0244	0.0135	0.0063	0.0101	0.0277	0.0165	0.0027	0.0079	0.0289	0.0087	0.0113	0.0267	0.0085	0.0002	0	0.0074
0.0012	0	0	0	0.0023	0	0.0008	0	0	0	0.0069	0.0019	0.0105	0.0019	0	0.0019	0	0.0012	0	0.003	0.0038
0.0096	0.0026	0.0152	0.013	0.0127	0.0058	0.0129	0.011	0.0132	0	0.0151	0	0.0043	0.0137	0.0023	0.0065	0.0088	0.0051	0.001	0.01	0.0096
1.6916	1.738	1.6821	1.6384	1.7115	1.6709	1.7033	1.7653	1.6731	1.7515	1.701	1.8157	1.672	1.7183	1.6447	1.7256	2.494	1.7336	1.6325	1.8874	1.7127
0.0139	0.007	0.0062	0.0031	0.0114	0.0105	0.0287	0.0098	0.011	0.0124	0.012	0.014	0.0152	0.0072	0.0087	0.0113	0.0127	0.009	0.0091	0.0062	0.0094
14.9173	14.8676	14.8837	14.9196	14.896	14.9362	14.9128	14.8967	14.8586	14.9015	14.9301	14.9073	14.8814	14.9093	14.8979	14.896	14.9052	14.9005	14.8933	14.8891	14.8999

01E3 C1 PLAGINCGRT Line 001										01E3 C01 PLAG Line 001										01E3 C01 F
58.112	59.186	60.167	59.669	59.097	58.594	59.785	59.872	60.672	60.752	60.177	60.108	60.382	60.818	60.753	60.595	60.196	60.418	60.552	60.927	59.169
0	0.071	0	0	0.046	0	0.024	0	0	0	0.057	0	0	0	0	0	0.003	0	0	0	0
25.36	25.829	25.096	25.173	25.291	25.955	25.235	25.074	24.847	24.619	24.946	24.312	24.675	24.594	24.909	24.463	24.835	24.396	24.603	24.449	24.084
0.006	0.025	0	0	0.003	0	0	0	0	0.018	0.023	0.051	0.022	0.012	0	0.1	0.001	0	0	0	0.007
0.534	0.388	0.153	0.168	0.183	0.185	0.142	0.156	0.206	0.297	0.213	0.087	0.039	0.006	0.026	0.022	0.025	0.068	0.113	0.132	0.087
0	0	0	0	0	0	0	0.015	0	0	0	0	0	0.004	0	0	0	0	0	0	0
7.666	7.847	7.199	7.086	7.618	8.1	7.163	7.249	6.722	6.524	6.408	6.179	6.147	6.08	6.167	6.221	6.266	6.227	6.464	6.069	6.295
7.082	7.057	7.699	7.594	7.218	6.819	7.364	7.445	7.701	7.997	7.963	7.723	7.747	7.861	7.786	7.721	7.834	7.855	7.926	7.675	7.799
0.04	0.029	0.068	0.047	0.034	0.025	0.061	0.065	0.057	0.061	0.035	0.072	0.055	0.058	0.058	0.057	0.05	0.061	0.028	0.063	0.064
0.073	0.036	0.001	0	0	0.014	0.101	0	0.028	0	0	0	0.093	0	0.029	0	0	0.03	0	0	0
0.071	0.252	0.163	0	0.089	0	0.11	0.062	0.066	0	0.069	0.043	0.091	0.063	0.157	0.061	0.199	0.11	0.066	0.076	0.181
0	0.001	0	0.016	0.003	0	0	0	0	0.01	0.01	0	0.032	0.031	0	0.019	0	0.042	0.037	0	0.028
98.944	100.721	100.546	99.753	99.582	99.692	99.985	99.938	100.299	100.278	99.901	98.575	99.283	99.527	99.885	99.259	99.409	99.207	99.789	99.391	97.714
7.8934	7.8946	8.0157	8.0007	7.9515	7.8762	8.0025	8.0145	8.0805	8.096	8.0499	8.1267	8.1091	8.1366	8.1066	8.1324	8.0808	8.1244	8.1002	8.159	8.092
0	0.0071	0	0	0.0047	0	0.0024	0	0	0	0.0058	0	0	0	0	0	0.0003	0	0	0	0
4.0602	4.0609	3.9408	3.9785	4.011	4.1124	3.9814	3.9563	3.9006	3.867	3.9333	3.8744	3.9059	3.8782	3.9176	3.8699	3.9295	3.8667	3.8793	3.8591	3.8824
0.0006	0.0026	0	0	0.0003	0	0	0	0	0.0019	0.0024	0.0055	0.0024	0.0013	0	0.0106	0.0001	0	0	0	0.0008
0	0.0001	0	0.0018	0.0003	0	0	0	0	0.0011	0.0011	0	0.0035	0.0033	0	0.0021	0	0.0045	0.004	0	0.0031
1.1158	1.1216	1.0276	1.018	1.0982	1.1666	1.0273	1.0398	0.9592	0.9315	0.9185	0.8952	0.8846	0.8716	0.8817	0.8947	0.9013	0.8972	0.9265	0.8708	0.9224
0	0	0	0	0	0	0	0.003	0	0	0	0	0	0.0008	0	0	0	0	0	0	0
0.0607	0.0433	0.017	0.0189	0.0206	0.0208	0.0159	0.0174	0.023	0.0331	0.0238	0.0099	0.0043	0.0007	0.0029	0.0024	0.0028	0.0076	0.0127	0.0148	0.0099
0.0039	0.0019	0	0	0	0.0008	0.0053	0	0.0015	0	0	0	0.0049	0	0.0015	0	0	0.0016	0	0	0
0.0056	0.0195	0.0126	0	0.0069	0	0.0086	0.0048	0.0051	0	0.0053	0.0034	0.0071	0.0049	0.0121	0.0047	0.0155	0.0086	0.0051	0.0059	0.0144
1.8652	1.8252	1.9888	1.9744	1.883	1.7772	1.9113	1.9323	1.9888	2.0664	2.0655	2.0245	2.0173	2.0392	2.0144	2.0094	2.0393	2.0481	2.0559	1.9929	2.0682
0.0069	0.0049	0.0115	0.0081	0.0058	0.0044	0.0103	0.0112	0.0097	0.0103	0.006	0.0124	0.0094	0.0099	0.0099	0.0098	0.0085	0.0104	0.0048	0.0108	0.0112
15.0123	14.9816	15.0141	15.0004	14.9824	14.9584	14.9651	14.9792	14.9684	15.0073	15.0117	14.9518	14.9484	14.9465	14.9468	14.9359	14.978	14.9692	14.9885	14.9133	15.0045

PLAG 2 Line 001								01E3 C06 PLAG 1 Line 001			01E3 C06 PLAG 2 Line 001				01E3 C04 PLAG Line 001					
61.774	61.455	62.311	62.248	62.249	61.832	60.735	60.828	61.496	60.894	61.016	61.258	62.422	62.485	61.264	60.674	60.423	60.334	61.225	62.464	61.736
0	0	0	0	0	0.046	0.017	0	0	0.021	0	0.023	0	0	0.001	0	0	0.014	0	0	0
23.947	23.75	23.66	23.498	23.855	23.977	24.853	24.941	24.07	26.491	24.777	23.937	23.712	23.561	24.399	24.882	24.886	24.805	24.246	24.231	23.683
0.045	0	0.007	0	0	0.013	0	0.07	0.02	0.015	0.008	0	0	0.014	0.014	0	0	0.057	0.015	0	0
0.041	0	0.012	0	0.037	0.033	0.006	0.102	0.153	0.079	0.077	0.019	0	0.013	0.027	0.098	0.058	0.028	0	0	0.048
0	0	0	0	0.006	0	0	0	0	0.012	0	0	0	0	0.01	0.012	0	0.01	0	0	0.006
5.622	5.277	5.263	4.841	5.301	5.531	6.578	6.283	5.883	5.41	6.348	5.494	5.035	5.32	5.905	6.422	6.123	6.186	5.615	5.088	5.222
8.004	8.166	8.598	8.786	8.609	8.522	7.778	7.984	8.191	6.651	8.038	8.291	8.566	8.904	8.234	7.913	7.893	8.152	8.155	8.727	8.655
0.056	0.127	0.069	0.082	0.064	0.064	0.087	0.021	0.049	0.049	0.063	0.255	0.063	0.062	0.067	0.042	0.049	0.059	0.06	0.033	0.096
0	0.029	0	0	0	0	0	0.108	0	0.015	0.042	0.007	0.115	0.007	0	0.014	0.073	0	0.008	0	0
0.217	0.038	0.06	0.092	0	0.193	0.038	0.117	0.101	0.043	0.082	0.057	0.082	0.03	0.158	0.103	0	0.042	0.005	0.212	0.175
0.001	0	0.01	0.048	0	0.019	0	0	0	0.025	0.007	0	0.021	0.021	0	0.03	0.036	0	0	0.022	0.033
99.707	98.842	99.99	99.595	100.121	100.23	100.092	100.454	99.963	99.705	100.458	99.341	100.016	100.417	100.079	100.19	99.541	99.687	99.329	100.777	99.654
8.2401	8.2589	8.2833	8.3039	8.264	8.2199	8.0931	8.0872	8.1979	8.07	8.1075	8.2128	8.2941	8.282	8.161	8.0845	8.0919	8.0784	8.1951	8.2437	8.2506
0	0	0	0	0	0.0046	0.0017	0	0	0.0021	0	0.0024	0	0	0.0001	0	0	0.0014	0	0	0
3.7651	3.762	3.7073	3.6947	3.7328	3.7571	3.9035	3.9085	3.7821	4.1382	3.8806	3.7827	3.7136	3.6809	3.831	3.9078	3.9283	3.9147	3.8253	3.7693	3.7306
0.0047	0	0.0007	0	0	0.0014	0	0.0073	0.0021	0.0016	0.0008	0	0	0.0015	0.0014	0	0	0.0061	0.0016	0	0
0.0002	0	0.0011	0.0052	0	0.002	0	0	0	0.0026	0.0007	0	0.0022	0.0023	0	0.0032	0.0039	0	0	0.0023	0.0035
0.8035	0.7599	0.7497	0.692	0.7541	0.7878	0.9392	0.8951	0.8404	0.7682	0.9038	0.7892	0.7168	0.7555	0.8428	0.9168	0.8787	0.8875	0.8054	0.7195	0.7478
0	0	0	0	0.0012	0	0	0	0	0.0024	0	0	0	0	0.0019	0.0023	0	0.002	0	0	0.0013
0.0046	0	0.0013	0	0.0041	0.0036	0.0007	0.0113	0.017	0.0088	0.0085	0.0021	0	0.0014	0.003	0.0109	0.0065	0.0031	0	0	0.0053
0	0.0015	0	0	0	0	0	0.0056	0	0.0008	0.0022	0.0004	0.006	0.0004	0	0.0008	0.0038	0	0.0004	0	0
0.0168	0.0029	0.0047	0.0071	0	0.0149	0.0029	0.009	0.0078	0.0033	0.0064	0.0044	0.0063	0.0023	0.0122	0.0079	0	0.0032	0.0004	0.0162	0.0136
2.0703	2.128	2.2163	2.2726	2.216	2.1968	2.0098	2.0582	2.1172	1.709	2.071	2.1554	2.207	2.2884	2.1269	2.0445	2.0496	2.1164	2.1165	2.2333	2.2427
0.0095	0.0217	0.0117	0.0139	0.0109	0.0109	0.0148	0.0035	0.0083	0.0082	0.0107	0.0436	0.0107	0.0105	0.0114	0.0072	0.0083	0.0102	0.0102	0.0055	0.0164
14.9148	14.935	14.9762	14.9894	14.9831	14.9991	14.9658	14.9857	14.9728	14.7153	14.9923	14.993	14.9568	15.0251	14.9917	14.9859	14.971	15.023	14.9548	14.9899	15.0119

61.505	61.921	52.902	61.445	60.765	61.055	60.531	60.726
0	0.011	0	0	0.008	0	0	0.001
23.711	23.489	34.415	23.821	24.181	24.302	24.746	24.55
0.022	0.061	0	0	0	0	0.002	0
0.035	0.019	0.146	0.117	0.093	0.02	0.006	0.097
0	0	0	0	0	0	0	0
5.12	5.249	4.473	5.533	5.68	5.879	6.568	6.263
8.61	8.613	6.285	8.543	8.384	8.303	8.027	8.168
0.088	0.114	0.046	0.09	0.047	0.051	0.061	0.036
0	0	0.094	0	0	0	0.036	0
0.047	0.159	0.167	0.135	0.143	0.089	0.115	0.007
0.012	0	0	0.001	0.013	0	0	0
99.15	99.636	98.528	99.685	99.314	99.699	100.092	99.848
8.2502	8.2738	7.14	8.2177	8.1602	8.1621	8.0815	8.1149
0	0.0011	0	0	0.0009	0	0	0.0001
3.749	3.6994	5.4749	3.7551	3.8275	3.8294	3.8942	3.8669
0.0023	0.0064	0	0	0	0	0.0002	0
0.0013	0	0	0.0001	0.0014	0	0	0
0.7359	0.7516	0.6469	0.7929	0.8173	0.8421	0.9396	0.8968
0	0	0	0	0	0	0	0
0.0039	0.0021	0.0165	0.0131	0.0105	0.0022	0.0007	0.0108
0	0	0.0049	0	0	0	0.0019	0
0.0036	0.0123	0.013	0.0105	0.0111	0.0069	0.0089	0.0006
2.2395	2.2315	1.6448	2.2154	2.1832	2.1523	2.0781	2.1165
0.015	0.0195	0.008	0.0153	0.0081	0.0087	0.0103	0.0062
15.0007	14.9977	14.949	15.0201	15.0202	15.0037	15.0155	15.0129

IC03: BIOTITA

	03b5 c2 bic	03b5 c2 bic	03b5 c2 bic	03b5 c2 bic	03b5 c9 bic	03b5 c9 bic	03b5 c8 bic	03b5 c8 bic	03E3 C4 BI	03E3 C4 BI	03E3 C3 BI	03E3 C2 BI	03E3 C4 BI	03E3 C4 BI	03E3 C3 BI	03E3 C2 BI	03E3 C3 BI	03L2 C5 BI	03L2 C6 BI	03L2 C5 BI
SiO2	36.842	36.952	37.178	36.954	36.436	36.981	36.735	37.505	36.588	36.727	37.047	36.93	36.483	36.626	37.16	36.719	37.626	37.1810	36.8550	36.6760
TiO2	2.527	1.77	2.543	1.853	0.89	1.913	1.987	1.954	1.719	1.731	1.83	1.595	1.799	1.913	1.735	1.799	1.905	1.8710	1.7660	1.9450
Al2O3	18.991	18.974	18.909	19.182	18.926	18.404	18.839	19.44	18.64	19.612	18.686	19.275	18.903	19.631	18.794	19.133	19.114	20.0760	19.0410	19.6230
Cr2O3	0.077	0.084	0.035	0.084	0.04	0.014	0.014	0.097	0.134	0.066	0.061	0.203	0.035	0.067	0.035	0.157	0.062	0.0560	0.0650	0.0290
FeO	16.603	16.743	16.613	16.88	19.6	17.254	17.176	15.568	15.94	15.397	16.422	15.798	15.796	15.589	16.515	16.226	15.379	14.6640	15.8610	15.6580
MnO	0.037	0.04	0.023	0	0.009	0	0.039	0.022	0	0	0.065	0.033	0.036	0.062	0	0.033	0.099	0.0180	0.0420	0.0170
MgO	11.874	12.69	11.781	12.005	11.043	11.679	12.208	12.527	13.281	12.815	13.047	12.746	13.268	12.851	12.975	12.893	12.231	12.6900	12.6820	12.4880
CaO	0.016	0.055	0.03	0	0.03	0.024	0.014	0	0.028	0.021	0.015	0.01	0.016	0	0	0.008	0.035	0.0000	0.0570	0.0420
Na2O	0.25	0.346	0.226	0.188	0.164	0.213	0.187	0.191	0.233	0.227	0.224	0.238	0.202	0.257	0.217	0.224	0.224	0.3360	0.2730	0.3300
K2O	8.984	9.066	9.178	9.009	8.997	8.861	9.024	9.269	8.621	8.696	8.995	9.037	8.667	8.601	9.216	8.972	9.367	8.7830	8.8350	8.6150
F	0.133	0.222	0.172	0.157	0.172	0.141	0.183	0.286	0.241	0.188	0.107	0.149	0.312	0.117	0.064	0.217	0.121	0.2190	0.1410	0.2140
Cl	0.016	0.041	0.029	0.014	0.03	0	0.014	0.02	0.001	0.014	0.01	0.004	0.012	0.003	0.007	0.008	0.001	0.0170	0.0000	0.0020
V2O3	0.055	0.039	0.034	0.058	0.069	0.057	0.072	0.055	0.141	0.104	0.074	0.055	0.128	0.022	0.154	0.114	0.129	0.0710	0.1060	0.0900
(OH)	3.655	3.081	3.327	3.686	3.672	4.518	3.589	3.19	4.535	4.484	3.467	3.99	4.476	4.312	3.159	3.588	3.758	4.1120	4.3360	4.3610
Total	100	100.001	99.999	100.001	99.999	100	100.001	99.999	100.001	100	100.003	99.999	99.999	100.001	100.002	99.998	100	99.9980	100.0010	100.0000
Si	2.69	2.688	2.706	2.7	2.701	2.73	2.69	2.712	2.712	2.685	2.698	2.695	2.679	2.672	2.701	2.678	2.736	2.6950	2.7000	2.681
Ti	0.139	0.097	0.139	0.102	0.05	0.106	0.109	0.106	0.096	0.095	0.1	0.088	0.099	0.105	0.095	0.099	0.104	0.1020	0.0970	0.107
Al	1.635	1.627	1.623	1.652	1.654	1.602	1.626	1.657	1.629	1.69	1.604	1.658	1.637	1.688	1.611	1.645	1.638	1.7160	1.6440	1.691
Cr	0.004	0.005	0.002	0.005	0.002	0.001	0.001	0.006	0.008	0.004	0.004	0.012	0.002	0.004	0.002	0.009	0.004	0.0030	0.0040	0.002
Fe3	0.092	0.092	0.092	0.092	0.093	0.093	0.092	0.091	0.094	0.092	0.092	0.092	0.093	0.092	0.092	0.092	0.092	0.0910	0.0920	0.092
Fe2	1.014	1.018	1.011	1.032	1.215	1.065	1.052	0.941	0.894	0.941	1	0.964	0.97	0.951	1.004	0.99	0.935	0.8890	0.9720	0.957
Mn	0.002	0.002	0.001	0	0.001	0	0.002	0.001	0	0	0.004	0.002	0.002	0.004	0	0.002	0.006	0.0010	0.0030	0.001
Mg	1.292	1.376	1.278	1.307	1.22	1.285	1.332	1.35	1.467	1.396	1.416	1.386	1.452	1.397	1.406	1.401	1.325	1.3710	1.3840	1.36
Ca	0.001	0.004	0.002	0	0.002	0.002	0.001	0	0.002	0.002	0.001	0.001	0.001	0	0	0.001	0.003	0.0000	0.0040	0.003
Na	0.035	0.049	0.032	0.027	0.024	0.03	0.027	0.027	0.033	0.032	0.032	0.034	0.029	0.036	0.031	0.032	0.032	0.0470	0.0390	0.047
K	0.837	0.841	0.852	0.84	0.851	0.835	0.843	0.855	0.815	0.811	0.836	0.841	0.812	0.8	0.855	0.835	0.869	0.8120	0.8260	0.803
Sum	7.742	7.799	7.739	7.757	7.813	7.749	7.776	7.747	7.752	7.749	7.786	7.774	7.777	7.75	7.795	7.784	7.744	7.7280	7.7660	7.745

03L2 C6 Bic03J2 C7 bic03J2 C7 bic03J2 C7 bio2.2

36.4920	36.7640	37.3350	36.5800	36.9340
1.7530	1.8420	1.7200	1.6980	1.7070
18.6800	18.6450	19.0430	18.7630	18.9460
0.0560	0.0810	0.0620	0.0490	0.0460
16.2680	16.5200	16.4710	16.6760	16.7090
0.0000	0.0290	0.0550	0.0520	0.0460
12.9470	12.6080	12.4550	12.5140	12.3400
0.0180	0.0120	0.0390	0.1000	0.0430
0.2760	0.1730	0.1410	0.2110	0.1830
8.6250	9.1380	9.1360	9.0070	9.1430
0.1790	0.2100	0.2450	0.2630	0.1050
0.0080	0.0130	0.0000	0.0470	0.0110
0.0710	0.0960	0.1230	0.1000	0.0830
4.7050	3.9610	3.2760	4.0630	3.7490
100.0010	100.0010	99.9980	100.0010	99.9990
2.689	2.698	2.715	2.691	2.702
0.097	0.102	0.094	0.094	0.094
1.623	1.613	1.632	1.627	1.634
0.003	0.005	0.004	0.003	0.003
0.093	0.092	0.092	0.093	0.092
1.002	1.014	1.002	1.026	1.022
0	0.002	0.003	0.003	0.003
1.422	1.379	1.35	1.372	1.346
0.001	0.001	0.003	0.008	0.003
0.039	0.025	0.02	0.03	0.026
0.811	0.856	0.847	0.845	0.853
7.781	7.786	7.762	7.792	7.779

IC03: MUSCOVITA

	03b5 c9 m	03b5 c9 m	03b5 c9 m	03b5 c9 m	03E3 C4 M	03E3 C4 M	03E3 C2 M	03E3 C4 M	03E3 C4 M	03E3 C2 M	03L2 C6 M	03L2 C6 M	03J2 C7 M	03J2 C7 M	03J2 C7 MUSC 3
SiO2	47.173	46.182	47.01	46.82	45.883	45.492	46.283	45.91	46.009	45.97	45.882	45.362	46.544	47.387	46.536
TiO2	0.802	0.841	0.926	0.694	0.912	0.667	0.446	1.152	0.535	0.345	0.841	0.5	0.359	1.016	0.58
Al2O3	34.03	33.434	34.079	34.628	35.762	33.845	35.657	34.355	35.075	35.779	34.773	35.279	35.121	33.731	34.185
Cr2O3	0.093	0.06	0.043	0	0.09	0.161	0.164	0.323	0.177	0.099	0	0.052	0.042	0.157	0.055
FeO	1.115	1.813	1.109	1.095	1.06	2.168	1.037	1.21	1.241	0.921	1.036	1.02	0.1	0.099	0.119
MnO	0	0.044	0	0.048	0.038	0	0.068	0	0.019	0	0	0.026	1.257	1.25	1.251
MgO	1.005	1.648	1.037	0.919	0.569	1.651	0.651	0.778	0.863	0.538	0.708	0.536	0	0.015	0.014
CaO	0.044	0.044	0.053	0.004	0	0	0.016	0.006	0.043	0.006	0.022	0.006	0.771	1.212	0.906
Na2O	1.195	1.153	1.257	1.291	1.422	1.088	1.732	0.972	1.673	1.189	1.662	1.894	0.011	0	0.013
K2O	9.138	8.913	9.322	9.14	8.801	8.648	8.532	9.409	8.409	9.441	8.557	8.347	0.819	0.664	0.813
F	0	0	0	0	0	0	0	0	0	0	0	0	9.748	10.203	9.809
Cl	0.009	0.018	0.004	0.004	0.009	0	0.003	0.006	0.01	0	0.009	0.007	0	0	0
V2O3	0.027	0.07	0.049	0.04	0.085	0.059	0.05	0.137	0.021	0.059	0.117	0.057	0	0	0.008
(OH)	5.371	5.786	5.114	5.318	5.369	6.22	5.363	5.744	5.926	5.652	6.394	6.917	5.227	4.267	5.71
Total	100	100.002	100.002	100	99.998	99.999	100.001	100.001	99.999	99.999	99.999	100.001	99.999	100.001	99.997
Si	3.105	3.069	3.091	3.08	3.056	3.064	3.044	3.09	3.046	3.039	3.051	3.031	3.068	3.105	3.088
Ti	0.04	0.042	0.046	0.034	0.046	0.034	0.022	0.058	0.027	0.017	0.042	0.025	0.018	0.05	0.029
Al	2.641	2.62	2.642	2.685	2.808	2.687	2.765	2.726	2.738	2.789	2.726	2.779	2.73	2.606	2.674
Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fe3	0.084	0.084	0.083	0.083	0	0.085	0.083	0	0.084	0.084	0.084	0.085	0.084	0.083	0.084
Fe2	0.061	0.101	0.061	0.06	0.059	0.037	0.057	0.068	0.069	0.051	0.058	0.057	0.069	0.069	0.069
Mn	0	0.002	0	0.003	0.002	0	0.004	0	0.001	0	0	0.001	0	0.001	0.001
Mg	0.099	0.163	0.102	0.09	0.056	0.166	0.064	0.078	0.085	0.053	0.07	0.053	0.076	0.118	0.09
Ca	0.003	0.003	0.004	0	0	0	0.001	0	0.003	0	0.002	0	0.001	0	0.001
Na	0.153	0.149	0.16	0.165	0.184	0.142	0.221	0.127	0.215	0.152	0.214	0.245	0.105	0.084	0.105
K	0.767	0.756	0.782	0.767	0.748	0.743	0.716	0.808	0.71	0.796	0.726	0.712	0.82	0.853	0.83
Sum	6.953	6.99	6.972	6.968	6.96	6.959	6.978	6.956	6.979	6.982	6.973	6.99	6.97	6.97	6.972

IC03: GRANADA

	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c9 grt	03b5 c10 g
SiO2	36.586	37.315	37.034	36.979	36.734	36.77	36.639	37.018	36.6	36.825	37.116	36.776	37.078	36.474	36.463	37.085	36.92	36.473	37.241	36.563
TiO2	0.043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.021	0
Al2O3	21.41	21.566	21.73	22.193	21.911	21.812	21.488	21.686	21.949	21.524	21.654	21.882	21.833	21.501	21.25	21.688	21.507	21.329	21.769	21.406
Cr2O3	0.024	0.049	0	0.043	0.007	0.042	0.068	0.023	0	0.001	0.082	0.014	0.013	0.009	0.035	0	0	0	0.014	0.014
V2O3	0.037	0	0.002	0.022	0.027	0	0.004	0	0.034	0	0.042	0.034	0.035	0.028	0	0.004	0.011	0.063	0.015	0
FeO	33.218	32.485	33.226	32.892	32.771	32.677	33.599	33.287	33.394	33.8	33.143	33	33.377	33.063	34.97	33.069	33.735	34.571	32.37	33.171
MnO	2.397	1.724	1.757	1.673	1.674	1.792	1.872	2.012	1.898	2.101	1.535	1.565	1.622	1.54	1.855	1.378	1.839	2.472	1.799	2.33
MgO	3.634	5.017	4.459	4.929	4.536	4.518	4.011	4.234	3.98	3.563	4.813	4.776	4.359	4.274	2.683	4.288	3.251	2.674	4.748	3.929
CaO	2.027	2.337	2.316	2.337	2.029	2.167	2.144	1.874	2.261	2.17	2.385	2.342	2.697	2.642	2.995	2.925	2.732	2.294	2.165	2.135
NiO	0.016	0.036	0	0.064	0	0	0.052	0	0.012	0	0.035	0.014	0.023	0	0	0.038	0.007	0.059	0	0.017
Na2O	0.02	0.021	0.001	0.024	0	0.048	0.012	0	0.004	0.002	0.045	0	0.017	0	0.048	0.039	0.023	0.067	0.023	0.059
K2O	0	0	0	0	0	0	0	0.019	0	0.016	0.003	0	0	0.012	0.013	0.019	0	0.403	0	0.013
Total	99.412	100.55	100.525	101.156	99.689	99.826	99.889	100.153	100.132	100.002	100.853	100.403	101.054	99.543	100.312	100.533	100.025	100.405	100.165	99.637
Si	2.87	2.756	2.872	2.861	2.836	2.855	2.855	2.859	2.871	2.846	2.872	2.858	2.843	2.854	2.85	2.859	2.865	2.879	2.863	2.861
Ti	0.003	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Al	1.98	1.981	1.957	1.979	2.006	2.007	1.997	1.977	1.983	2.012	1.979	1.966	1.994	1.981	1.981	1.964	1.975	1.977	1.974	1.975
Cr	0.001	0	0.003	0	0.003	0	0.003	0.004	0.001	0	0	0.005	0.001	0.001	0.001	0.002	0	0	0	0.001
Fe3	0.232	0.245	0.227	0.228	0.227	0.23	0.229	0.231	0.229	0.23	0.23	0.228	0.228	0.227	0.231	0.232	0.228	0.23	0.232	0.231
Fe2	2.179	2.041	2.091	2.147	2.109	2.13	2.122	2.193	2.159	2.171	2.205	2.134	2.133	2.149	2.161	2.293	2.136	2.2	2.27	2.171
Mn	0.159	0.103	0.112	0.115	0.109	0.11	0.118	0.124	0.132	0.125	0.139	0.1	0.102	0.106	0.102	0.123	0.09	0.121	0.164	0.154
Mg	0.425	0.812	0.576	0.513	0.563	0.525	0.523	0.467	0.489	0.461	0.414	0.552	0.55	0.5	0.498	0.313	0.494	0.378	0.313	0.458
Ca	0.17	0.166	0.193	0.192	0.192	0.169	0.18	0.179	0.156	0.188	0.181	0.197	0.194	0.222	0.221	0.252	0.242	0.228	0.193	0.179
Na	0.003	0.009	0.003	0	0.004	0	0.007	0.002	0	0.001	0	0.007	0	0.003	0	0.007	0.006	0.003	0.01	0.009
K	0	0.039	0	0	0	0	0	0	0.002	0	0.002	0	0	0	0.001	0.001	0.002	0	0.04	0.001
Sum	8.022	8.153	8.035	8.035	8.048	8.027	8.034	8.036	8.023	8.034	8.024	8.047	8.046	8.043	8.045	8.047	8.038	8.019	8.059	8.041

03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03b5 c10 g	03E3 C4 GF	03E3 C4 GF
36.796	36.896	37.026	37.208	37.239	36.914	37.027	37.271	36.926	37.442	37.303	36.67	36.905	37.106	37.28	37.295	37.233	37.054	36.926	36.733	36.82
0	0	0	0	0	0	0	0.001	0	0.027	0	0	0	0	0.009	0.165	0	0	0	0	0
22.049	21.863	21.811	21.687	21.812	21.632	21.939	21.784	21.605	21.273	21.656	21.966	21.761	21.671	21.502	21.532	21.818	21.631	21.638	21.312	21.396
0.067	0.019	0.053	0.059	0.02	0.049	0.093	0.04	0.078	0.103	0.082	0	0.062	0.033	0.008	0.029	0.041	0.009	0.042	0.082	0.019
0.024	0	0	0	0.034	0.025	0.008	0	0.04	0.059	0.034	0	0.005	0.005	0.024	0.043	0.017	0.022	0	0.026	0.063
32.358	32.314	32.199	33.316	31.869	31.762	31.911	32.46	32.264	32.418	31.918	32.177	32.11	31.821	32.192	32.489	32.779	32.934	33.066	34.516	33.558
1.794	1.523	1.593	1.783	1.592	1.647	1.705	1.694	1.657	1.681	1.666	1.557	1.569	1.585	1.568	1.571	1.568	1.859	2.461	2.905	1.994
4.774	5.013	5.041	4.749	5.226	5.316	5.171	5.3	5.422	5.044	5.205	5.219	5.431	5.477	5.458	5.175	4.722	4.444	3.793	3.158	4.239
2.383	2.632	2.501	2.441	2.479	2.357	2.413	2.321	2.387	2.442	2.464	2.318	2.241	2.38	2.252	2.447	2.667	2.247	2.285	2.328	2.313
0	0.012	0.045	0.005	0.059	0.007	0.052	0	0.038	0	0.017	0	0.038	0	0.014	0.029	0	0	0.061		
0.053	0.006	0	0.051	0.014	0.059	0	0.029	0.003	0.049	0	0.039	0.028	0	0.001	0	0	0.007	0	0.015	0.047
0.022	0.01	0	0	0	0	0.017	0.019	0.001	0.015	0	0	0	0	0	0.014	0.012	0	0.019	0.019	0.005
100.32	100.288	100.269	101.299	100.344	99.768	100.336	100.919	100.421	100.553	100.345	99.946	100.15	100.078	100.308	100.789	100.857	100.207	100.291	101.094	100.454
2.841	2.847	2.856	2.855	2.865	2.857	2.851	2.857	2.848	2.883	2.871	2.836	2.848	2.86	2.871	2.865	2.861	2.869	2.869		
0	0	0	0	0	0	0	0	0	0.002	0	0	0	0	0.001	0.01	0	0	0	2.858	2.859
2.007	1.989	1.983	1.962	1.978	1.974	1.992	1.969	1.964	1.931	1.965	2.003	1.98	1.969	1.952	1.95	1.976	1.975	1.982	0	0
0.004	0.001	0.003	0.004	0.001	0.003	0.006	0.002	0.005	0.006	0.005	0	0.004	0.002	0	0.002	0.002	0.001	0.003	1.955	1.959
0.228	0.228	0.228	0.227	0.227	0.229	0.228	0.227	0.228	0.228	0.227	0.229	0.228	0.228	0.228	0.227	0.227	0.229	0.23	0.005	0.001
2.09	2.085	2.077	2.138	2.051	2.056	2.055	2.081	2.081	2.088	2.054	2.081	2.072	2.051	2.073	2.087	2.106	2.133	2.149	0.23	0.229
0.117	0.1	0.104	0.116	0.104	0.108	0.111	0.11	0.108	0.11	0.109	0.102	0.103	0.103	0.102	0.102	0.102	0.122	0.162	2.246	2.179
0.549	0.576	0.579	0.543	0.599	0.613	0.593	0.605	0.623	0.579	0.597	0.602	0.625	0.629	0.626	0.592	0.541	0.513	0.439	0.191	0.131
0.197	0.218	0.207	0.201	0.204	0.195	0.199	0.191	0.197	0.202	0.203	0.192	0.185	0.197	0.186	0.201	0.22	0.186	0.19	0.366	0.491
0.008	0.001	0	0.008	0.002	0.009	0	0.004	0	0.007	0	0.006	0.004	0	0	0	0	0.001	0	0.194	0.192
0.002	0.001	0	0	0	0	0.002	0.002	0	0.001	0	0	0	0	0	0.001	0.001	0	0.002	0.002	0.007
																			0.002	0
8.044	8.045	8.037	8.053	8.032	8.044	8.037	8.047	8.054	8.037	8.031	8.051	8.048	8.04	8.039	8.037	8.037	8.029	8.025		
																			8.049	8.05

03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C4 GF	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN
37.12	36.84	37.14	37.16	36.809	37.262	37.459	36.489	36.996	36.832	36.939	37.477	37.293	37.173	37.061	37.065	36.555	36.264	36.782	36.925	36.879	
0	0	0	0.004	0.019	0	0	0	0	0.011	0.012	0	0.065	0	0	0	0	0	0	0	0	
21.747	21.868	21.571	21.658	22.1	21.688	21.368	22.604	21.716	21.442	21.491	21.58	21.441	21.761	21.529	21.245	21.417	21.293	21.709	21.578	21.513	
0.05	0.023	0	0.03	0.061	0.053	0.111	0.084	0.108	0.097	0.001	0.142	0.005	0.067	0.036	0.055	0.02	0.003	0.026	0.06	0.045	
0.02	0.009	0	0	0	0	0.044	0.034	0.015	0	0.045	0.045	0.022	0.026	0.016	0.034	0	0.006	0.043	0.012	0.041	
33.307	33.711	33.518	33.166	30.482	33.068	32.29	32.555	33.08	33.5	32.866	32.733	33.104	33.14	33.432	33.697	34.092	34.611	33.088	32.577	32.242	
1.74	1.542	1.505	1.357	1.205	1.196	1.25	1.287	1.335	1.374	1.276	1.285	1.364	1.372	1.437	1.659	1.959	3.179	1.674	1.244	1.394	
4.61	4.636	4.424	4.915	4.607	4.874	5.205	4.856	4.786	4.257	5.227	5.141	5.176	4.801	4.939	4.852	4.422	2.667	4.392	4.719	3.959	
2.418	2.502	2.58	2.69	2.542	2.822	2.953	2.639	2.849	2.74	2.725	2.635	2.666	2.666	2.447	2.329	2.288	2.244	2.661	3.354	3.899	
																		0	0.016	0.016	
0.012	0	0.049	0.063	0.017	0	0.031	0.034	0.04	0	0.073	0	0.035	0.036	0.037	0	0.03	0	0.014	0	0.059	
0	0	0	0.014	0.028	0	0.005	0.012	0.013	0.028	0	0.026	0.002	0	0	0.015	0	0.014	0	0	0	
101.024	101.131	100.787	101.057	97.87	100.963	100.716	100.594	100.938	100.281	100.655	101.064	101.173	101.042	100.934	100.951	100.783	100.281	100.389	100.485	100.047	
																		2.849	2.851	2.863	
2.856	2.836	2.865	2.854	2.88	2.86	2.876	2.809	2.846	2.858	2.847	2.87	2.86	2.855	2.853	2.86	2.836	2.851	0	0	0	
0	0	0	0	0.001	0	0	0	0	0.001	0.001	0	0.004	0	0	0	0	0	1.982	1.964	1.969	
1.972	1.984	1.962	1.961	2.039	1.963	1.934	2.051	1.97	1.962	1.953	1.948	1.938	1.97	1.954	1.933	1.959	1.973	0.002	0.004	0.003	
0.003	0.001	0	0.002	0.004	0.003	0.007	0.005	0.007	0.006	0	0.009	0	0.004	0.002	0.003	0.001	0	0.229	0.228	0.229	
0.227	0.227	0.228	0.227	0.231	0.227	0.227	0.227	0.227	0.229	0.228	0.226	0.227	0.227	0.228	0.228	0.229	0.232	2.144	2.103	2.093	
2.143	2.17	2.162	2.13	1.995	2.123	2.073	2.096	2.128	2.174	2.119	2.097	2.123	2.128	2.153	2.175	2.212	2.276	0.11	0.081	0.092	
0.113	0.101	0.098	0.088	0.08	0.078	0.081	0.084	0.087	0.09	0.083	0.083	0.089	0.089	0.094	0.108	0.129	0.212	0.507	0.543	0.458	
0.529	0.532	0.509	0.563	0.537	0.558	0.596	0.557	0.549	0.492	0.6	0.587	0.592	0.549	0.567	0.558	0.511	0.312	0.221	0.277	0.324	
0.199	0.206	0.213	0.221	0.213	0.232	0.243	0.218	0.235	0.228	0.225	0.216	0.219	0.219	0.202	0.193	0.19	0.189	0.002	0	0.009	
0.002	0	0.007	0.009	0.003	0	0.005	0.005	0.006	0	0.011	0	0.005	0.005	0.006	0	0.005	0	0	0	0	
0	0	0	0.001	0.003	0	0	0.001	0.001	0.003	0	0.003	0	0	0	0.001	0	0.001				
																		8.045	8.052	8.041	
8.044	8.058	8.044	8.057	7.985	8.043	8.042	8.053	8.056	8.044	8.067	8.039	8.057	8.048	8.058	8.059	8.072	8.047				

03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03E3 C3 GN	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF
37.152	36.594	36.681	36.641	37.891	36.786	36.639	36.575	36.703	36.95	37.061	36.69	36.85	37.013	37.12	37.128	36.852	36.268	36.607	36.977	36.536
0	0	0.042	0.006	0	0.056	0.035	0.02	0	0	0.003	0.049	0	0	0	0	0	0	0	0.039	0
21.395	21.581	21.473	21.381	23.152	21.248	21.575	21.608	21.524	21.412	21.651	21.362	21.633	21.577	21.604	21.588	21.675	21.24	21.358	21.575	21.571
0.091	0.034	0.001	0.061	0	0.058	0.06	0.03	0.069	0.072	0.048	0.053	0	0.035	0.069	0.077	0.005	0.002	0	0	0.049
0.007	0.059	0.029	0	0	0.044	0.049	0.081	0.098	0.056	0.009	0.048	0	0.023	0.013	0.002	0.055	0.051	0.016	0	0.049
30.883	30.07	30.015	29.832	26.419	29.047	29.666	29.31	30.407	30.063	30.617	30.645	31.006	31.267	32.019	32.37	33.627	33.403	32.217	33.135	32.394
2.088	2.76	3.101	3.454	4.005	3.993	4.037	4.609	3.916	3.601	3.599	3.221	2.688	2.129	1.546	1.38	1.967	1.816	1.139	1.319	1.156
3.397	2.983	2.865	2.646	2.193	2.346	2.51	2.466	2.618	3.163	3.235	3.58	3.691	4.291	4.694	4.703	4	4.463	5.146	4.96	4.958
5.315	5.526	5.373	5.728	5.372	6.376	5.81	5.68	5.478	4.887	4.772	4.336	4.225	3.92	3.557	3.092	2.542	2.888	2.856	2.384	3.035
0.028	0	0	0.049	0.011	0	0.012	0.009	0	0	0	0.06	0	0.019	0	0	0				
0.011	0.03	0.028	0	0.019	0.016	0.037	0.012	0	0.015	0	0.002	0.04	0.019	0.051	0	0.012	0	0.026	0	0.039
0	0	0.006	0.008	0.04	0.014	0	0.013	0	0	0	0	0	0	0.014	0	0	0	0.033	0	0.018
100.367	99.637	99.614	99.806	99.102	99.984	100.43	100.413	100.813	100.219	100.995	100.046	100.133	100.293	100.687	100.34	100.735	100.131	99.398	100.389	99.805
2.875	2.857	2.865	2.863	2.92	2.871	2.851	2.849	2.851	2.871	2.86	2.858	2.859	2.861	2.857	2.865	2.854	2.886	2.851	2.856	2.838
0	0	0.002	0	0	0.003	0.002	0.001	0	0	0	0.003	0	0	0	0	0	0	0	0.002	0
1.952	1.986	1.978	1.97	2.103	1.955	1.979	1.984	1.971	1.961	1.97	1.962	1.979	1.967	1.96	1.964	1.979	1.993	1.961	1.964	1.976
0.006	0.002	0	0.004	0	0.004	0.004	0.002	0.004	0.004	0.003	0.003	0	0.002	0.004	0.005	0	0	0	0	0.003
0.229	0.231	0.231	0.231	0.228	0.231	0.23	0.23	0.23	0.23	0.228	0.23	0.229	0.228	0.227	0.228	0.229	0.235	0.23	0.228	0.23
1.999	1.963	1.961	1.95	1.703	1.896	1.931	1.909	1.975	1.954	1.976	1.996	2.012	2.022	2.061	2.089	2.178	1.988	2.098	2.14	2.105
0.137	0.183	0.205	0.229	0.261	0.264	0.266	0.304	0.258	0.237	0.235	0.213	0.177	0.139	0.101	0.09	0.129	0.122	0.075	0.086	0.076
0.392	0.347	0.334	0.308	0.252	0.273	0.291	0.286	0.303	0.366	0.372	0.416	0.427	0.494	0.538	0.541	0.462	0.529	0.597	0.571	0.574
0.441	0.462	0.45	0.48	0.444	0.533	0.484	0.474	0.456	0.407	0.395	0.362	0.351	0.325	0.293	0.256	0.211	0.246	0.238	0.197	0.253
0.002	0.005	0.004	0	0.003	0.002	0.006	0.002	0	0.002	0	0	0.006	0.003	0.008	0	0.002	0	0.004	0	0.006
0	0	0.001	0.001	0.004	0.001	0	0.001	0	0	0	0	0	0	0.001	0	0	0	0.003	0	0.002
8.032	8.036	8.03	8.035	7.918	8.033	8.043	8.043	8.047	8.032	8.039	8.042	8.04	8.041	8.052	8.037	8.043	8	8.058	8.046	8.061

03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2 C6 GF	03F2C7g1	03F2C7g2
36.478	36.668	36.633	36.661	36.131	36.157	36.531	36.664	35.987	35.532	36.155	36.63	36.524	35.802	36.498	36.534	36.391	36.457	36.225	36.908	36.795
0.008	0	0	0	0.01	0	0.03	0.027	0	0.018	0	0.006	0	0.058	0.07	0	0	0.007	0	0	0
21.224	21.509	21.568	21.277	21.366	21.625	21.44	21.516	21.328	20.81	21.464	21.28	21.309	21.373	21.231	21.405	21.467	21.613	21.387	21.125	21.12
0.034	0	0	0.021	0.018	0.095	0.095	0.063	0.02	0.034	0.061	0.041	0	0	0.047	0.064	0.046	0.009	0.047	0.076	0.051
0	0.017	0.023	0.018	0.02	0.003	0.016	0.021	0.03	0.03	0	0.019	0.062	0.025	0.03	0.014	0	0	0.016	0.017	0.033
32.774	32.46	32.679	32.23	32.317	32.314	32.437	31.503	32.233	31.566	31.248	32.112	31.195	32.474	31.854	31.482	32.649	32.703	33.414	32.706	32.623
0.759	0.549	0.699	1.087	1.434	2.311	2.658	3.108	2.965	2.948	3.323	3.206	3.257	3.553	3.348	3.037	2.551	2.391	2.399	1.294	1.26
4.691	4.098	3.989	4.178	4.449	4.498	4.066	4.063	3.691	4.048	4.104	3.716	4.306	3.341	4.096	4.14	4.619	4.346	3.784	5.009	5.263
3.754	4.975	4.813	3.96	3.277	3.264	3.043	3.532	3.468	2.868	3.227	3.054	3.068	2.979	2.844	2.699	2.453	2.389	2.261	2.67	2.725
0	0.018	0	0.006	0	0.01	0	0	0	0	0.032	0	0.034	0.032	0.009	0.013	0.014	0.042	0	0.011	0.027
0	0.013	0.018	0	0.03	0.002	0	0.008	0.002	0.012	0	0	0	0	0.001	0	0	0.026	0.006	0.022	0
99.722	100.307	100.422	99.438	99.052	100.279	100.316	100.505	99.724	97.866	99.614	100.064	99.755	99.637	100.028	99.388	100.19	99.983	99.539	99.838	99.897
2.842	2.841	2.838	2.861	2.835	2.812	2.842	2.843	2.826	2.835	2.83	2.859	2.851	2.821	2.848	2.858	2.832	2.84	2.845	2.867	2.857
0	0	0	0	0.001	0	0.002	0.002	0	0.001	0	0	0	0.003	0.004	0	0	0	0	0	0
1.949	1.965	1.97	1.958	1.977	1.983	1.966	1.967	1.974	1.958	1.98	1.958	1.961	1.985	1.953	1.974	1.969	1.985	1.98	1.934	1.933
0.002	0	0	0.001	0.001	0.006	0.006	0.004	0.001	0.002	0.004	0.003	0	0	0.003	0.004	0.003	0.001	0.003	0.005	0.003
0.23	0.229	0.229	0.231	0.232	0.23	0.23	0.229	0.232	0.236	0.231	0.231	0.231	0.233	0.231	0.231	0.23	0.23	0.232	0.23	0.229
2.135	2.103	2.118	2.104	2.121	2.102	2.11	2.043	2.117	2.107	2.045	2.096	2.036	2.14	2.079	2.06	2.125	2.13	2.195	2.125	2.118
0.05	0.036	0.046	0.072	0.095	0.152	0.175	0.204	0.197	0.199	0.22	0.212	0.215	0.237	0.221	0.201	0.168	0.158	0.16	0.085	0.083
0.545	0.473	0.461	0.486	0.52	0.521	0.471	0.47	0.432	0.481	0.479	0.432	0.501	0.392	0.476	0.483	0.536	0.505	0.443	0.58	0.609
0.313	0.413	0.4	0.331	0.276	0.272	0.254	0.293	0.292	0.245	0.271	0.255	0.257	0.252	0.238	0.226	0.205	0.199	0.19	0.222	0.227
0	0.003	0	0.001	0	0.002	0	0	0	0	0.005	0	0.005	0.005	0.001	0.002	0.002	0.006	0	0.002	0.004
0	0.001	0.002	0	0.003	0	0	0.001	0	0.001	0	0	0	0	0	0	0	0.003	0.001	0.002	0
8.067	8.064	8.063	8.044	8.061	8.08	8.056	8.056	8.071	8.066	8.065	8.046	8.056	8.069	8.055	8.039	8.069	8.057	8.048	8.051	8.063

03F2C7g3	03F2C7g4	03F2C7g5	03F2C7g6	03F2C7g7	03F2C7g8	03F2C7g9	03F2C7g10	03F2C7g11	03F2C7g12	03F2C7g13	03F2C7g14	03F2C7g15	03F2C7g16	03F2C7g17	03F2C7g18	03F2C7g19	03F2C7g20	03F2C7g21	03F2C7g22	03F2C7g23
36.975	37.037	37.064	36.475	36.7	36.371	36.304	36.276	36.856	36.265	36.304	36.226	36.045	36.408	35.663	36.103	36.402	36.371	36.758	36.969	36.235
0.036	0	0	0	0	0	0.027	0.043	0	0.066	0.127	0.02	0.043	0.035	0	0.041	0.061	0	0	0	0
21.475	21.247	21.166	20.993	21.156	21.174	20.857	20.868	21.695	20.803	20.618	20.956	20.802	21.264	20.782	20.837	20.813	21.047	21.295	21.309	21.072
0	0	0.018	0.075	0.046	0.03	0	0.049	0	0.034	0	0.014	0	0	0	0.077	0.042	0.037	0.053	0.122	0.051
0.025	0	0.033	0.056	0.042	0.03	0.017	0.027	0.047	0.038	0.039	0	0.036	0	0.01	0	0.002	0.025	0	0.055	0.053
31.898	32.593	33.259	31.857	31.612	31.605	27.997	27.888	28.994	27.873	27.087	27.632	27.934	28.011	27.995	29.713	30.1	32.001	32.733	33.195	33.472
1.289	1.413	1.711	2.149	2.41	2.663	4.282	4.771	4.323	4.957	4.736	4.257	3.64	3.783	3.153	2.882	2.362	1.7	1.485	1.44	2.261
5.088	4.758	4.224	4.075	3.913	3.574	1.658	1.635	2.138	1.636	1.225	1.36	1.523	1.494	1.6	1.912	1.98	3.5	4.359	4.519	3.956
2.845	2.826	3.205	3.864	4.027	4.029	8.4	8.07	6.503	8.027	8.898	9.146	8.642	8.907	8.318	7.914	7.963	4.948	3.733	3.076	2.323
0.066	0.043	0.042	0.054	0	0.006	0.016	0	0.018	0.034	0.033	0.076	0.001	0.014	0.048	0.043	0	0.022	0.011	0.009	0
0.012	0	0.018	0.028	0.002	0	0.013	0	0.04	0.006	0	0	0.019	0	0	0	0	0	0.014	0.009	0
99.709	99.917	100.74	99.626	99.908	99.482	99.571	99.627	100.614	99.739	99.067	99.687	98.685	99.916	97.569	99.522	99.725	99.651	100.441	100.703	99.423
2.865	2.873	2.868	2.854	2.861	2.853	2.857	2.855	2.86	2.854	2.871	2.849	2.858	2.85	2.854	2.845	2.858	2.866	2.849	2.849	2.858
0.002	0	0	0	0	0	0.002	0.003	0	0.004	0.008	0.001	0.003	0.002	0	0.002	0.004	0	0	0	0
1.962	1.943	1.931	1.937	1.944	1.958	1.935	1.936	1.985	1.93	1.922	1.943	1.944	1.962	1.961	1.936	1.926	1.916	1.944	1.946	1.942
0	0	0.001	0.005	0.003	0.002	0	0.003	0	0.002	0	0.001	0	0	0	0.005	0.003	0.001	0.002	0.003	0.007
0.229	0.229	0.229	0.231	0.23	0.232	0.233	0.233	0.229	0.233	0.234	0.232	0.234	0.231	0.236	0.233	0.232	0.231	0.231	0.229	0.228
2.067	2.114	2.153	2.085	2.061	2.073	1.842	1.836	1.882	1.835	1.791	1.817	1.852	1.834	1.874	1.958	1.976	2.029	2.097	2.122	2.146
0.085	0.093	0.112	0.142	0.159	0.177	0.285	0.318	0.284	0.33	0.317	0.284	0.244	0.251	0.214	0.192	0.157	0.136	0.113	0.097	0.094
0.587	0.55	0.487	0.475	0.455	0.418	0.194	0.192	0.247	0.192	0.144	0.159	0.18	0.174	0.191	0.225	0.232	0.31	0.409	0.504	0.521
0.236	0.235	0.266	0.324	0.336	0.339	0.708	0.681	0.541	0.677	0.754	0.771	0.734	0.747	0.713	0.668	0.67	0.567	0.415	0.31	0.255
0.01	0.006	0.006	0.008	0	0.001	0.002	0	0.003	0.005	0.005	0.012	0	0.002	0.007	0.007	0	0.007	0.003	0.002	0.001
0.001	0	0.002	0.003	0	0	0.001	0	0.004	0.001	0	0	0.002	0	0	0	0	0	0	0.001	0.001
8.044	8.044	8.055	8.065	8.05	8.052	8.06	8.056	8.036	8.062	8.046	8.068	8.052	8.053	8.051	8.07	8.058	8.063	8.064	8.063	8.054

03F2C7g24	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2 C3 GR	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g
36.688	37.426	37.233	37.559	36.765	37.28	37.433	37.047	37.349	37.245	37.562	37.374	36.882	37.14	37.052	37.195	36.898	36.905	36.799	36.867	36.926
0	0.004	0	0.008	0	0	0	0.025	0	0	0	0	0	0	0	0	0	0	0.041	0	0
20.804	21.646	21.516	21.896	21.547	21.346	21.749	21.486	21.537	21.61	21.646	21.563	21.406	21.868	21.861	21.627	21.193	21.361	20.839	21.539	21.579
0.018	0	0	0.068	0.084	0	0.022	0.099	0.013	0.01	0	0	0.042	0.001	0.017	0.017	0.095	0.03	0.069	0	0.03
0.053	0	0	0.022	0.02	0.032	0.011	0	0	0	0	0	0.035	0.018	0	0.016	0.043	0.015	0.019	0.025	0.001
31.058	31.647	32.573	32.761	35.592	33.354	33.534	33.288	32.721	32.8	32.75	31.847	31.945	32.643	32.165	32.003	33.607	32.84	33.453	32.508	32.609
2.052	1.867	1.996	1.937	2.525	2.244	2.22	2.235	2.256	2.13	2.071	1.873	1.698	2.214	2.1	2.114	2.384	2.146	2.283	2.115	1.972
2.663	4.846	4.503	4.451	2.09	3.731	3.988	4	4.262	4.272	4.276	4.523	4.402	4.062	4.535	4.451	3.156	3.738	3.321	3.923	4.128
6.773	3.443	3.188	2.745	2.936	2.924	2.938	3.201	2.983	2.799	3.041	3.063	3.445	2.836	2.847	2.793	3.047	2.938	2.888	2.94	2.879
	0.028	0.021	0.012	0.055	0.071	0.033	0	0	0	0	0	0.04	0	0.024	0	0.026	0	0.059	0.073	0
0.046	0.036	0	0.039	0.003	0.022	0	0.038	0.002	0.006	0.016	0.022	0.048	0.064	0	0.008	0	0.005	0	0.015	0
0	0	0.037	0.003	0	0	0.002	0	0.002	0	0	0.006	0	0.012	0.005	0	0	0	0	0.019	0.016
100.155	100.943	101.067	101.501	101.617	101.004	101.93	101.419	101.125	100.872	101.362	100.271	99.943	100.858	100.606	100.224	100.449	99.978	99.771	100.024	100.14
2.851	2.869	2.864	2.87	2.859	2.882	2.865	2.853	2.872	2.869	2.878	2.883	2.872	2.862	2.856	2.874	2.877	2.875	2.887	2.868	2.865
0	0	0	0	0	0	0	0.001	0	0	0	0	0	0	0	0	0	0	0.002	0	0
1.955	1.956	1.951	1.973	1.975	1.945	1.962	1.951	1.952	1.963	1.955	1.961	1.943	1.987	1.986	1.97	1.948	1.962	1.927	1.975	1.974
0.003	0	0	0.004	0.005	0	0.001	0.006	0.001	0.001	0	0	0.001	0	0.001	0.001	0.006	0.002	0.004	0	0.002
0.232	0.226	0.227	0.226	0.23	0.228	0.226	0.228	0.227	0.228	0.226	0.228	0.228	0.228	0.228	0.228	0.23	0.23	0.232	0.23	0.229
2.202	2.029	2.095	2.094	2.314	2.156	2.146	2.144	2.104	2.113	2.098	2.054	2.208	2.104	2.073	2.068	2.191	2.139	2.195	2.115	2.116
0.151	0.121	0.13	0.125	0.166	0.147	0.144	0.146	0.147	0.139	0.134	0.122	0.131	0.145	0.137	0.138	0.157	0.142	0.152	0.139	0.13
0.464	0.554	0.516	0.507	0.242	0.43	0.455	0.459	0.488	0.491	0.488	0.52	0.391	0.466	0.521	0.513	0.367	0.434	0.388	0.455	0.477
0.196	0.283	0.263	0.225	0.245	0.242	0.241	0.264	0.246	0.231	0.25	0.253	0.267	0.234	0.235	0.231	0.255	0.245	0.243	0.245	0.239
0	0.005	0	0.006	0	0.003	0	0.006	0	0.001	0.002	0.003	0	0.01	0	0.001	0	0.001	0	0.002	0
0	0	0.004	0	0	0	0	0	0	0	0	0.001	0.001	0.001	0	0	0	0	0	0.002	0.002
8.054	8043	8049	8031	8037	8033	8041	8057	8038	8035	8033	8025	8043	8036	8037	8026	8031	8029	8.03	8032	8033

03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g	03J2c7g
37.445	37.306	37.249	37.401	37.35	36.928	36.933	37.324	37.48	37.275	37.723	36.87
0.015	0.002	0	0	0	0	0	0	0.008	0	0	0
21.712	21.112	21.773	21.377	21.458	21.653	21.637	21.987	21.614	21.721	21.954	21.451
0.077	0	0.067	0	0.033	0.031	0.016	0.069	0	0.01	0	0
0.067	0.033	0	0.043	0	0.004	0.057	0	0.028	0.005	0	0
33.145	32.507	31.963	32.157	32.942	32.532	31.81	32.274	31.996	32.572	31.889	31.896
1.998	1.957	2.212	2	2.166	2.088	2.056	1.989	2.061	2.055	2.175	2.072
4.488	4.529	4.658	4.58	3.786	4.419	4.729	4.605	4.572	4.638	4.602	4.356
2.958	2.929	2.98	2.87	3.085	2.844	2.93	2.878	3.022	2.935	3.115	2.851
0	0	0.003	0.009	0.047	0	0	0	0.012	0	0	0
0	0.031	0	0.014	0.014	0.013	0.02	0.055	0.014	0	0.027	0.047
0.002	0.008	0	0.001	0	0	0.005	0	0.009	0.012	0.015	0
101.907	100.414	100.905	100.452	100.881	100.512	100.193	101.181	100.816	101.223	101.5	99.543
2.86	2.885	2.861	2.886	2.883	2.855	2.857	2.858	2.879	2.859	2.875	2.871
0.001	0	0	0	0	0	0	0	0	0	0	0
1.955	1.925	1.971	1.944	1.953	1.973	1.973	1.985	1.958	1.964	1.973	1.969
0.005	0	0.004	0	0.002	0.002	0.001	0.004	0	0.001	0	0
0.226	0.229	0.227	0.228	0.228	0.228	0.229	0.226	0.227	0.227	0.225	0.23
2.117	2.103	2.053	2.075	2.127	2.103	2.058	2.067	2.056	2.089	2.033	2.077
0.129	0.128	0.144	0.131	0.142	0.137	0.135	0.129	0.134	0.134	0.14	0.137
0.511	0.522	0.533	0.527	0.436	0.509	0.545	0.525	0.523	0.53	0.523	0.505
0.242	0.243	0.245	0.237	0.255	0.236	0.243	0.236	0.249	0.241	0.254	0.238
0	0.005	0	0.002	0.002	0.002	0.003	0.008	0.002	0	0.004	0.007
0	0.001	0	0	0	0	0	0	0.001	0.001	0.001	0
8046	8.04	8038	8029	8027	8045	8044	8039	8029	8046	8029	8033

IC03: PLAGIOCLÁSIO

AMOSTRA 03b5 c2 pla1 Line 001											03b5 c1 pla1 Line 001									
SiO2	62.586	62.723	62.637	63.032	62.777	62.852	62.221	62.765	62.495	62.659	62.374	62.333	62.576	62.926	62.146	62.905	62.627	62.568	62.169	62.336
TiO2	0	0	0	0.035	0	0	0	0	0	0.017	0	0.004	0	0	0	0	0	0	0	0
Al2O3	23.071	23.334	23.213	23.256	23.418	23.324	23.245	23.328	23.213	23.254	23.519	23.27	23.194	23.016	23.093	23.578	23.278	23.51	23.78	23.237
Cr2O3	0	0.026	0.009	0.01	0	0	0	0	0.008	0.033	0	0	0	0.008	0.023	0	0.059	0	0.046	0.028
FeO	0.047	0.002	0.035	0	0.066	0.027	0.061	0	0.017	0.066	0.031	0.029	0	0.013	0.01	0.032	0.001	0.015	0	0.053
MgO	0	0	0	0	0	0	0.001	0.001	0	0.009	0	0	0	0	0	0	0.015	0	0.014	0
CaO	4.875	4.937	4.855	4.84	4.857	4.905	5.002	4.916	4.918	5.111	4.9	5.09	5.004	4.642	4.674	4.747	4.784	4.678	5.125	4.869
Na2O	8.536	8.419	8.212	8.296	8.386	8.208	8.455	8.51	8.214	8.254	8.448	8.291	8.239	8.654	8.313	8.522	8.501	8.341	8.076	8.269
K2O	0.019	0.11	0.121	0.139	0.148	0.15	0.113	0.128	0.098	0.029	0.076	0.034	0.07	0.082	0.041	0.068	0.05	0.404	0.03	0.049
BaO	0	0.071	0.043	0	0.008	0	0.035	0	0.056	0.071	0	0.007	0.001	0.065	0.049	0.08	0.065	0.036	0.064	0.007
SrO	0.137	0.008	0	0	0.053	0.135	0.247	0.078	0.188	0.141	0.07	0.055	0.142	0.082	0.05	0.191	0.132	0.265	0.148	0
V2O3	0	0.022	0.029	0	0.025	0	0	0.003	0.005	0.024	0	0	0.033	0	0.028	0	0	0.02	0	0
Total	99.271	99.652	99.154	99.608	99.738	99.601	99.38	99.729	99.212	99.668	99.418	99.113	99.259	99.488	98.427	100.123	99.512	99.837	99.452	98.848
Si	8.3637	8.3484	8.3679	8.3781	8.3468	8.3639	8.3249	8.3489	8.3564	8.3453	8.3218	8.3394	8.3585	8.3875	8.3636	8.3383	8.35	8.3301	8.2934	8.3532
Ti	0	0	0	0.0035	0	0	0	0	0	0.0017	0	0.0004	0	0	0	0	0	0	0	0
Al	3.634	3.6608	3.6553	3.6434	3.67	3.6585	3.6658	3.6576	3.6586	3.6505	3.6985	3.6697	3.6518	3.6161	3.6632	3.6839	3.6583	3.6895	3.7392	3.6702
Cr	0	0.0027	0.001	0.0011	0	0	0	0	0.0009	0.0035	0	0	0	0.0009	0.0025	0	0.0063	0	0.0049	0.003
V	0	0.0024	0.0031	0	0.0026	0	0	0.0004	0.0006	0.0026	0	0	0.0035	0	0.003	0	0	0.0022	0	0
Ca	0.698	0.7041	0.6949	0.6893	0.6919	0.6994	0.717	0.7007	0.7046	0.7293	0.7006	0.7297	0.7162	0.663	0.6741	0.6742	0.6835	0.6674	0.7325	0.6991
Mg	0	0	0	0	0	0	0.0002	0.0003	0	0.0018	0	0	0	0	0	0	0.003	0	0.0028	0
Fe	0.0053	0.0002	0.0039	0	0.0074	0.003	0.0068	0	0.0019	0.0073	0.0035	0.0033	0	0.0014	0.0011	0.0036	0.0001	0.0016	0	0.006
Ba	0	0.0037	0.0023	0	0.0004	0	0.0018	0	0.003	0.0037	0	0.0004	0	0.0034	0.0026	0.0041	0.0034	0.0019	0.0034	0.0004
Sr	0.0106	0.0006	0	0	0.0041	0.0104	0.0192	0.006	0.0146	0.0109	0.0054	0.0043	0.011	0.0064	0.0039	0.0147	0.0102	0.0205	0.0114	0
Na	2.2119	2.1728	2.1272	2.1381	2.1619	2.1178	2.1934	2.195	2.1298	2.1316	2.1855	2.1507	2.1338	2.2366	2.1693	2.1903	2.1977	2.1533	2.089	2.1485
K	0.0033	0.0187	0.0206	0.0235	0.0252	0.0254	0.0194	0.0217	0.0167	0.0049	0.0129	0.0058	0.0119	0.014	0.007	0.0114	0.0084	0.0687	0.0051	0.0085
Soma	14.9268	14.9144	14.8763	14.877	14.9104	14.8785	14.9485	14.9305	14.8868	14.8931	14.9282	14.9036	14.8867	14.9293	14.8903	14.9206	14.9208	14.9351	14.8817	14.8888

03b5 c3 pla1 Line 001										03b5 c3 pla2 Line 001										
62.342	62.416	62.852	62.688	62.697	62.797	62.688	62.546	62.777	62.284	62.342	62.416	62.852	62.688	62.697	62.797	62.688	62.546	62.777	62.284	63.093
0.025	0	0	0	0	0	0	0	0	0	0.025	0	0	0	0	0	0	0	0	0	0
23.186	23.554	23.312	23.133	23.006	23.062	23.071	22.996	23.762	23.186	23.186	23.554	23.312	23.133	23.006	23.062	23.071	22.996	23.762	23.186	23.033
0	0	0	0.021	0.03	0	0.035	0	0	0.007	0	0	0	0.021	0.03	0	0.035	0	0	0.007	0.034
0.087	0.026	0.007	0.021	0	0.01	0	0.005	0.017	0.092	0.087	0.026	0.007	0.021	0	0.01	0	0.005	0.017	0.092	0.011
0	0	0	0	0	0	0	0	0	0.003	0	0	0	0	0	0	0	0	0	0.003	0
4.914	5.054	4.96	4.693	4.651	4.842	4.976	4.853	4.843	4.897	4.914	5.054	4.96	4.693	4.651	4.842	4.976	4.853	4.843	4.897	4.746
8.294	8.129	8.363	8.531	8.394	8.262	8.384	8.222	8.511	8.318	8.294	8.129	8.363	8.531	8.394	8.262	8.384	8.222	8.511	8.318	8.264
0.048	0.06	0.041	0.059	0.088	0.079	0.089	0.098	0.035	0.324	0.048	0.06	0.041	0.059	0.088	0.079	0.089	0.098	0.035	0.324	0.104
0.086	0	0.115	0	0	0.022	0.05	0.015	0	0.036	0.086	0	0.115	0	0	0.022	0.05	0.015	0	0.036	0
0.124	0.076	0.079	0	0.03	0.11	0	0.024	0.024	0.15	0.124	0.076	0.079	0	0.03	0.11	0	0.024	0.024	0.15	0.02
0	0.015	0.025	0.008	0.033	0.023	0	0.035	0	0.018	0	0.015	0.025	0.008	0.033	0.023	0	0.035	0	0.018	0.022
99.106	99.33	99.754	99.154	98.929	99.207	99.293	98.794	99.969	99.315	99.106	99.33	99.754	99.154	98.929	99.207	99.293	98.794	99.969	99.315	99.327

8.348	8.327	8.3573	8.374	8.3903	8.3857	8.3703	8.3838	8.3214	8.3373	8.348	8.327	8.3573	8.374	8.3903	8.3857	8.3703	8.3838	8.3214	8.3373	8.4049
0.0025	0	0	0	0	0	0	0	0	0	0.0025	0	0	0	0	0	0	0	0	0	0
3.6596	3.7038	3.6537	3.6424	3.6289	3.6299	3.631	3.6332	3.7126	3.6583	3.6596	3.7038	3.6537	3.6424	3.6289	3.6299	3.631	3.6332	3.7126	3.6583	3.6167
0	0	0	0.0022	0.0032	0	0.0037	0	0	0.0007	0	0	0	0.0022	0.0032	0	0.0037	0	0	0.0007	0.0036
0	0.0016	0.0027	0.0009	0.0036	0.0025	0	0.0037	0	0.0019	0	0.0016	0.0027	0.0009	0.0036	0.0025	0	0.0037	0	0.0019	0.0023
0.705	0.7225	0.7066	0.6717	0.6669	0.6928	0.712	0.697	0.6879	0.7024	0.705	0.7225	0.7066	0.6717	0.6669	0.6928	0.712	0.697	0.6879	0.7024	0.6774
0	0	0	0	0	0	0	0	0	0.0005	0	0	0	0	0	0	0	0	0	0.0005	0
0.0098	0.0029	0.0008	0.0023	0	0.0011	0	0.0005	0.0018	0.0103	0.0098	0.0029	0.0008	0.0023	0	0.0011	0	0.0005	0.0018	0.0103	0.0012
0.0045	0	0.006	0	0	0.0011	0.0026	0.0008	0	0.0019	0.0045	0	0.006	0	0	0.0011	0.0026	0.0008	0	0.0019	0
0.0096	0.0059	0.0061	0	0.0023	0.0085	0	0.0018	0.0018	0.0117	0.0096	0.0059	0.0061	0	0.0023	0.0085	0	0.0018	0.0018	0.0117	0.0015
2.1534	2.1028	2.1562	2.2096	2.1782	2.1392	2.1706	2.137	2.1876	2.159	2.1534	2.1028	2.1562	2.2096	2.1782	2.1392	2.1706	2.137	2.1876	2.159	2.1346
0.0083	0.0103	0.007	0.0101	0.0151	0.0134	0.0152	0.0167	0.0059	0.0553	0.0083	0.0103	0.007	0.0101	0.0151	0.0134	0.0152	0.0167	0.0059	0.0553	0.0177
14.9006	14.8768	14.8961	14.9131	14.8885	14.8744	14.9053	14.8746	14.9191	14.9393	14.9006	14.8768	14.8961	14.9131	14.8885	14.8744	14.9053	14.8746	14.9191	14.9393	14.86

03b5 c4 pla1 Line 001														03b5 c4 pla2 Line 001						03b5 c4 pla
62.596	62.725	62.455	62.347	62.769	62.71	62.234	61.72	62.538	62.283	62.381	62.614	62.349	62.196	62.379	62.4	62.332	61.827	62.525	62.367	62.412
0	0	0	0.004	0	0	0	0	0	0	0	0	0	0.01	0.02	0.032	0	0	0	0	0
22.858	23.175	22.745	23.518	22.787	23.062	23.548	23.563	23.543	23.53	23.176	23.192	23.683	23.093	23.114	23.092	23.064	23.233	22.972	23.182	23.285
0	0	0.018	0.025	0	0.023	0.017	0	0.029	0	0.029	0	0.044	0	0	0	0	0.011	0.013	0.024	0.032
0	0	0	0	0.026	0	0.027	0.013	0.038	0.053	0.021	0	0	0.026	0	0	0.033	0.006	0.033	0.022	0
0	0	0	0	0	0.003	0.003	0.012	0	0	0	0	0	0	0	0.014	0	0	0	0	0
4.779	4.843	4.718	4.918	4.954	4.856	5.263	4.888	4.986	4.883	4.94	4.856	4.882	4.875	5.163	4.949	5.012	4.907	5.019	4.871	4.896
8.434	8.147	8.268	8.486	8.4	8.503	8.394	8.096	8.466	8.006	8.214	8.632	8.242	8.215	8.21	8.516	8.316	8.152	8.278	8.292	8.249
0.088	0.054	0.076	0.056	0.029	0.052	0.025	0.05	0.076	0.059	0.064	0.07	0.053	0.054	0.048	0.033	0.064	0.076	0.051	0.086	0.091
0	0	0.058	0.028	0	0.016	0	0	0	0	0.014	0	0.036	0	0.093	0.043	0	0	0	0.015	0
0.009	0.114	0.064	0.184	0.221	0.048	0.134	0.159	0.067	0.12	0.238	0.1	0.087	0.123	0.041	0.201	0.138	0.183	0.07	0	0
0.012	0	0.005	0	0.007	0	0.016	0	0	0	0.043	0.005	0.003	0.016	0	0.036	0.04	0.014	0	0.032	0.048
98.776	99.058	98.407	99.566	99.193	99.273	99.661	98.501	99.743	98.934	99.12	99.469	99.379	98.608	99.068	99.316	98.999	98.409	98.961	98.891	99.013
8.3938	8.3814	8.4052	8.3148	8.3946	8.3734	8.2961	8.306	8.3197	8.3362	8.3507	8.3526	8.3157	8.3591	8.3526	8.3454	8.3541	8.3324	8.3746	8.3562	8.3499
0	0	0	0.0004	0	0	0	0	0	0	0	0	0	0.0011	0.002	0.0032	0	0	0	0	0
3.6128	3.65	3.608	3.6969	3.5921	3.6297	3.6999	3.7376	3.6917	3.7121	3.6569	3.6466	3.7232	3.6584	3.648	3.6401	3.6435	3.6906	3.6267	3.661	3.6718
0	0	0.0019	0.0027	0	0.0024	0.0018	0	0.003	0	0.0031	0	0.0046	0	0	0	0	0.0012	0.0013	0.0026	0.0034
0.0013	0	0.0005	0	0.0007	0	0.0017	0	0	0	0.0047	0.0005	0.0003	0.0017	0	0.0039	0.0043	0.0015	0	0.0034	0.0051
0.6866	0.6934	0.6804	0.7027	0.7099	0.6948	0.7518	0.7048	0.7107	0.7003	0.7086	0.694	0.6976	0.702	0.7407	0.7092	0.7197	0.7087	0.7203	0.6993	0.7019
0	0	0	0	0	0.0007	0.0007	0.0024	0	0	0	0	0	0	0	0.0029	0	0	0	0	0
0	0	0	0	0.0029	0	0.003	0.0015	0.0043	0.0059	0.0024	0	0	0.0029	0	0	0.0038	0.0006	0.0037	0.0025	0
0	0	0.0031	0.0015	0	0.0008	0	0	0	0	0.0007	0	0.0019	0	0.0049	0.0023	0	0	0	0.0008	0
0.0007	0.0088	0.005	0.0142	0.0171	0.0038	0.0103	0.0124	0.0052	0.0093	0.0184	0.0078	0.0067	0.0096	0.0032	0.0156	0.0107	0.0143	0.0054	0	0
2.1929	2.1109	2.1577	2.1945	2.1782	2.2014	2.1697	2.1126	2.1838	2.0777	2.132	2.2327	2.1314	2.1408	2.1316	2.2083	2.1612	2.1303	2.1498	2.1544	2.14
0.0151	0.0093	0.0131	0.0095	0.005	0.0089	0.0043	0.0085	0.0129	0.0101	0.0109	0.0119	0.0091	0.0093	0.0083	0.0056	0.011	0.0131	0.0087	0.0147	0.0155
14.9032	14.8537	14.8749	14.9371	14.9005	14.9157	14.9393	14.8858	14.9313	14.8517	14.8884	14.9462	14.8905	14.8849	14.8913	14.9364	14.9081	14.8926	14.8906	14.8948	14.8876

i2.1 Line 001				03b5 c4 pla3 Line 001															03b5 c10 p	03b5 c10 p
62.265	62.188	62.407	62.803	61.968	62.282	62.797	62.799	62.724	62.244	62.58	62.513	62.357	62.642	62.421	62.482	62.357	62.296	62.216	62.165	61.466
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.024	0
23.263	23.197	22.718	23.131	23.463	22.683	22.904	22.99	22.86	23.497	23.304	22.539	23.086	22.821	22.788	22.735	23.647	22.995	23.344	23.794	23.458
0.001	0.04	0	0	0	0	0	0	0.023	0	0	0	0	0	0.035	0.003	0.022	0.068	0.003	0.031	0
0.064	0.02	0	0.075	0.015	0.005	0	0.048	0	0.038	0.052	0	0	0.066	0.029	0	0.006	0.052	0.159	0.126	0.066
0	0.002	0	0	0	0.009	0.005	0	0	0	0	0	0.01	0	0	0	0.016	0	0.01	0	0
4.998	5.113	4.993	4.872	5.114	4.745	4.591	4.684	4.838	5.032	4.887	4.622	4.755	4.826	4.861	4.861	4.989	4.989	4.898	5.29	5.32
8.292	8.307	8.208	8.333	8.069	8.452	8.537	8.323	8.256	8.272	8.283	8.338	8.135	8.394	8.201	8.437	8.252	8.235	8.056	7.989	8.074
0.025	0.033	0.058	0.052	0.017	0.029	0.047	0.057	0.03	0.024	0.056	0.067	0.074	0.073	0.034	0.067	0.08	0.042	0.054	0.05	0.016
0.051	0	0	0.058	0	0.093	0.051	0.079	0	0	0.036	0	0	0	0	0.007	0.007	0	0	0.094	0
0	0.11	0.129	0	0	0.12	0.015	0.123	0.187	0	0.184	0	0.189	0.079	0.105	0.165	0.129	0.18	0.047	0.046	0.137
0	0.035	0.027	0.017	0	0.018	0.019	0.023	0	0.004	0.05	0	0	0	0	0.004	0.016	0.057	0	0	0.014
98.959	99.045	98.54	99.341	98.646	98.436	98.966	99.126	98.918	99.111	99.432	98.079	98.606	98.901	98.474	98.761	99.521	98.914	98.787	99.609	98.551
8.3416	8.3327	8.394	8.3764	8.3204	8.3923	8.4021	8.3947	8.4001	8.3225	8.3491	8.4309	8.3755	8.3948	8.3956	8.3915	8.311	8.357	8.3428	8.2847	8.2831
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0024	0
3.6735	3.6636	3.6017	3.6364	3.7133	3.6027	3.6122	3.6223	3.6085	3.7032	3.6647	3.583	3.6549	3.6048	3.6126	3.5991	3.7148	3.6361	3.6897	3.7376	3.7261
0.0001	0.0042	0	0	0	0	0	0	0.0025	0	0	0	0	0	0.0037	0.0004	0.0023	0.0072	0.0004	0.0033	0
0	0.0038	0.0029	0.0019	0	0.002	0.002	0.0025	0	0.0004	0.0053	0	0	0	0	0.0005	0.0017	0.0061	0	0	0.0016
0.7174	0.7341	0.7196	0.6962	0.7357	0.6851	0.6581	0.6709	0.6942	0.721	0.6986	0.6679	0.6844	0.693	0.7005	0.6995	0.7125	0.7172	0.7037	0.7554	0.7681
0	0.0003	0	0	0	0.0018	0.0011	0	0	0	0	0	0.0019	0	0	0	0.0032	0	0.002	0	0
0.0072	0.0022	0	0.0084	0.0017	0.0005	0	0.0053	0	0.0043	0.0057	0	0	0.0074	0.0033	0	0.0006	0.0058	0.0179	0.014	0.0074
0.0027	0	0	0.003	0	0.0049	0.0027	0.0042	0	0	0.0019	0	0	0	0	0.0004	0.0004	0	0	0.0049	0
0	0.0086	0.01	0	0	0.0094	0.0012	0.0095	0.0146	0	0.0142	0	0.0147	0.0061	0.0082	0.0129	0.01	0.014	0.0037	0.0036	0.0107
2.154	2.1583	2.1407	2.1552	2.1008	2.2083	2.2148	2.1573	2.1439	2.1447	2.1429	2.1805	2.1185	2.1811	2.1388	2.1972	2.1326	2.1422	2.0946	2.0644	2.1097
0.0043	0.0056	0.01	0.0088	0.0029	0.005	0.0081	0.0097	0.0052	0.0041	0.0095	0.0115	0.0127	0.0124	0.0058	0.0114	0.0136	0.0072	0.0093	0.0084	0.0027
14.9008	14.9135	14.879	14.8864	14.8748	14.912	14.9022	14.8764	14.869	14.9001	14.892	14.8736	14.8626	14.8996	14.8686	14.9128	14.9027	14.8929	14.8641	14.8788	14.9093

03b5 c10 p	03b5 c5 pla 1 Line 001										03b5 c6 pla 1 Line 001										03b5 c9 pla
61.306	62.3	62.04	61.798	62.327	62.007	62.16	62.561	62.372	62.555	62.134	62.742	62.757	62.665	62.953	62.665	60.848	62.708	62.425	62.98	59.209	
0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.032	0.027	0	0	0	0.018	0	0	
23.824	23.346	23.112	23.507	23.057	23.309	23.303	23.67	23.426	23.164	23.165	23.21	22.939	23.2	22.988	22.94	22.489	22.947	23.052	23.038	25.296	
0.019	0	0.03	0	0	0.037	0.054	0	0.034	0	0	0.007	0	0	0	0	0.024	0	0.008	0	0.004	
0.094	0.073	0	0.015	0	0.006	0.028	0.006	0.029	0.031	0.041	0.025	0.02	0	0.011	0.002	0	0.019	0	0	0.4	
0.021	0	0	0	0	0.021	0	0.008	0	0	0	0	0.01	0	0	0	0.008	0	0.002	0	0	
5.874	5.024	4.963	5.049	5.043	5.041	5.121	4.986	5.056	5.035	4.877	4.924	4.626	4.809	4.82	4.614	4.726	4.793	4.79	4.765	6.339	
7.577	8.171	8.02	8.339	8.182	8.169	7.923	8.363	8.38	8.181	8.272	8.268	8.145	8.217	8.346	8.379	7.831	8.225	8.064	8.145	7.288	
0.041	0.045	0.048	0.042	0.056	0.064	0.034	0.029	0.068	0.057	0.056	0.068	0.041	0.102	0.07	0.045	0.04	0.085	0.055	0.048	0.121	
0.079	0	0	0.022	0.015	0	0.072	0.079	0	0.058	0.057	0	0	0.043	0	0	0.029	0.093	0	0.044	0	
0.123	0.065	0.104	0.046	0.088	0.362	0.055	0.089	0.135	0.239	0.051	0.093	0.133	0.028	0.174	0.114	0.021	0.078	0.234	0.101	0.213	
0.005	0	0.036	0.015	0.075	0	0	0.001	0.025	0	0.026	0.027	0.017	0.007	0.022	0.012	0.005	0	0.019	0	0	
98.973	99.024	98.353	98.833	98.843	99.016	98.75	99.792	99.525	99.32	98.679	99.364	98.688	99.103	99.411	98.771	96.021	98.948	98.667	99.121	98.87	
8.2357	8.3386	8.3553	8.2976	8.3596	8.3194	8.3409	8.3164	8.32	8.3585	8.3484	8.3669	8.4106	8.3729	8.3924	8.3989	8.3828	8.3961	8.3796	8.4066	8.0039	
0.001	0	0	0	0	0	0	0	0	0	0	0	0	0.0032	0.0027	0	0	0	0.0019	0	0	
3.7723	3.6832	3.6688	3.7203	3.6451	3.6862	3.6856	3.7088	3.6833	3.6483	3.6687	3.6483	3.6236	3.6539	3.6123	3.6241	3.6518	3.6214	3.6473	3.6247	4.0305	
0.0021	0	0.0032	0	0	0.0039	0.0057	0	0.0035	0	0	0.0008	0	0	0	0	0.0026	0	0.0009	0	0.0005	
0.0005	0	0.0039	0.0016	0.0081	0	0	0.0001	0.0027	0	0.0028	0.0029	0.0018	0.0007	0.0024	0.0013	0.0005	0	0.0021	0	0	
0.8455	0.7205	0.7162	0.7264	0.7247	0.7248	0.7363	0.7102	0.7226	0.7209	0.7021	0.7036	0.6643	0.6885	0.6885	0.6626	0.6976	0.6876	0.6889	0.6815	0.9182	
0.0042	0	0	0	0	0.0043	0	0.0015	0	0	0	0	0.0021	0	0	0	0.0017	0	0.0005	0	0	
0.0106	0.0082	0	0.0016	0	0.0007	0.0031	0.0007	0.0032	0.0035	0.0046	0.0027	0.0022	0	0.0012	0.0002	0	0.0021	0	0	0.0452	
0.0042	0	0	0.0011	0.0008	0	0.0038	0.0041	0	0.003	0.003	0	0	0.0022	0	0	0.0016	0.0049	0	0.0023	0	
0.0096	0.005	0.0081	0.0036	0.0068	0.0282	0.0043	0.0069	0.0105	0.0185	0.004	0.0072	0.0103	0.0021	0.0134	0.0089	0.0017	0.006	0.0182	0.0078	0.0167	
1.9736	2.1206	2.0944	2.171	2.1278	2.1252	2.0615	2.1558	2.1675	2.1197	2.155	2.138	2.1166	2.1289	2.1575	2.1775	2.092	2.1355	2.0988	2.1081	1.9103	
0.007	0.0076	0.0083	0.0073	0.0095	0.011	0.0058	0.0049	0.0115	0.0097	0.0095	0.0115	0.007	0.0173	0.0119	0.0077	0.007	0.0145	0.0093	0.0083	0.0208	
14.8662	14.8839	14.8582	14.9306	14.8824	14.9036	14.8471	14.9094	14.9248	14.8821	14.8982	14.8819	14.8386	14.8697	14.8823	14.881	14.8393	14.8681	14.8475	14.8393	14.9461	

i1 Line 001				03b5 c8 pla 1 Line 001																
60.228	60.735	60.39	60.328	62.232	62.577	62.953	62.435	62.594	62.662	62.87	62.226	62.615	61.828	62.854	63.126	61.882	63	62.522	62.868	62.234
0	0.004	0	0	0	0	0	0	0.021	0	0	0	0	0	0	0	0	0	0	0	0.021
24.695	24.347	24.995	24.41	23.126	22.931	23.062	23.238	23.231	23.187	23.097	23.439	23.103	23.187	23.244	22.516	22.435	23.005	22.867	23.012	23.165
0.006	0	0.026	0.018	0	0	0	0.012	0.005	0	0.008	0.008	0	0.026	0.035	0.041	0.006	0	0.031	0.027	0
0.287	0.309	0.442	0.733	0	0.013	0.023	0	0	0.014	0.024	0	0.036	0.006	0.031	0.007	0	0.056	0	0.027	0.022
0	0	0	0	0	0	0	0	0	0	0.007	0	0.011	0	0	0	0	0	0	0	0
6.644	6.056	6.642	6.582	5.048	4.62	4.581	4.878	4.728	4.728	4.7	4.92	4.861	5.1	5.045	4.562	5.418	4.417	4.699	5.048	4.931
7.227	7.521	7.388	7.499	8.187	8.304	8.382	8.217	8.251	8.327	8.469	8.095	8.23	8.449	7.935	8.504	8.387	8.39	8.342	8.09	8.311
0.043	0.04	0.041	0.061	0.063	0.064	0.056	0.056	0.111	0.091	0.072	0.095	0.093	0.074	0.074	0.086	0.111	0.093	0.063	0.042	0.048
0	0	0	0.022	0.037	0	0.001	0.1	0.009	0.072	0	0.015	0.015	0.101	0	0	0.08	0	0	0.015	0
0.194	0.186	0.097	0.083	0.162	0.309	0.103	0.029	0.074	0	0.083	0	0.056	0.013	0.115	0	0.151	0.074	0.037	0.225	0.105
0.026	0.002	0	0.035	0.018	0	0.024	0	0.004	0	0.016	0.002	0	0	0.03	0.055	0	0.018	0.016	0.005	0
99.35	99.2	100.021	99.771	98.873	98.818	99.185	98.965	99.028	99.081	99.346	98.8	99.02	98.784	99.363	98.897	98.47	99.053	98.577	99.359	98.837
8.0906	8.157	8.0638	8.0927	8.3501	8.3935	8.4003	8.3593	8.3696	8.3756	8.3837	8.3388	8.3761	8.3159	8.375	8.4463	8.3642	8.4135	8.3962	8.3871	8.3485
0	0.0004	0	0	0	0	0	0	0.0022	0	0	0	0	0	0	0	0	0	0	0	0.0022
3.9101	3.8543	3.934	3.8596	3.6575	3.6254	3.6273	3.6673	3.6614	3.6531	3.6304	3.7024	3.6428	3.676	3.6505	3.5511	3.5742	3.6212	3.6196	3.6186	3.6629
0.0006	0	0.0027	0.0019	0	0	0	0.0013	0.0006	0	0.0008	0.0009	0	0.0028	0.0037	0.0043	0.0006	0	0.0033	0.0029	0
0.0028	0.0002	0	0.0038	0.0019	0	0.0026	0	0.0005	0	0.0018	0.0002	0	0	0.0032	0.0059	0	0.002	0.0017	0.0006	0
0.9563	0.8716	0.9503	0.9461	0.7258	0.664	0.655	0.6999	0.6774	0.6771	0.6716	0.7065	0.6968	0.735	0.7203	0.6541	0.7846	0.632	0.6762	0.7216	0.7088
0	0	0	0	0	0	0	0	0	0	0.0013	0	0.0022	0	0	0	0	0	0	0	0
0.0323	0.0347	0.0494	0.0822	0	0.0014	0.0026	0	0	0.0015	0.0027	0	0.004	0.0007	0.0035	0.0008	0	0.0063	0	0.0031	0.0024
0	0	0	0.0012	0.0019	0	0	0.0053	0.0004	0.0038	0	0.0008	0.0008	0.0053	0	0	0.0042	0	0	0.0008	0
0.0151	0.0145	0.0075	0.0065	0.0126	0.024	0.0079	0.0022	0.0057	0	0.0064	0	0.0044	0.001	0.0089	0	0.0119	0.0057	0.0029	0.0174	0.0082
1.8826	1.9587	1.913	1.9507	2.13	2.1596	2.1686	2.1332	2.1394	2.1581	2.1899	2.1035	2.1348	2.2035	2.0501	2.2064	2.1981	2.1725	2.1722	2.0926	2.1619
0.0074	0.0068	0.007	0.0105	0.0108	0.011	0.0095	0.0095	0.019	0.0155	0.0122	0.0162	0.0159	0.0127	0.0126	0.0147	0.0192	0.0159	0.0108	0.0072	0.0083
14.8977	14.8981	14.9278	14.9552	14.8906	14.8791	14.8738	14.8779	14.8762	14.8847	14.9008	14.8693	14.8778	14.9529	14.8276	14.8836	14.957	14.8692	14.883	14.8518	14.903

03b5 c7 pla 1 1											033E3 C5 PL1 Line 001					033E3 C5 PL2 Line 001				
62.425	62.163	61.827	62.243	62.835	62.413	62.539	62.432	62.451	62.66	62.485	62.88	62.932	62.579	62.769	62.738	62.905	62.622	62.642	63.031	62.972
0.01	0.019	0.022	0.009	0	0	0.005	0	0	0	0	0	0	0	0	0	0	0	0.004	0.036	0
22.99	23.042	23.435	23.595	23.159	23.338	23.476	22.908	23.478	23.279	23.472	23.145	22.878	23.195	23.21	23.219	23.263	23.302	23.167	23.039	22.944
0	0.005	0	0.011	0	0	0.008	0	0.024	0.014	0	0	0.072	0.003	0	0	0.032	0.068	0.037	0	0.031
0.01	0.019	0	0	0.021	0.002	0	0	0.005	0	0	0.043	0.023	0.017	0.018	0	0.012	0	0	0	0.004
0	0	0.003	0	0	0	0	0	0.001	0	0	0	0	0	0	0	0.001	0	0	0	0
4.994	4.944	4.885	4.927	5.003	4.959	4.846	4.821	4.963	4.814	4.818	4.652	4.558	4.681	4.722	4.66	4.68	4.709	4.739	4.748	4.735
8.26	8.3	7.86	8.053	8.142	8.156	8.382	8.161	7.986	8.414	8.27	8.58	8.515	8.703	8.528	8.604	8.6	8.501	8.472	8.431	8.532
0.047	0.099	0.034	0.061	0.067	0.109	0.101	0.092	0.062	0.116	0.045	0.071	0.108	0.101	0.1	0.082	0.055	0.099	0.094	0.101	0.077
0.051	0	0	0.008	0.037	0.108	0	0.044	0.065	0.065	0	0	0.001	0	0.016	0.051	0	0	0.13	0.101	0.022
0.192	0.046	0.127	0.041	0.156	0.213	0	0.163	0.083	0.184	0.07	0.023	0.107	0.107	0.226	0.105	0.01	0.12	0.038	0.093	0.034
0	0	0	0	0.005	0	0.009	0.051	0	0.021	0	0	0.014	0	0	0.032	0.016	0	0.006	0.005	0.003
98.979	98.637	98.193	98.948	99.425	99.298	99.366	98.672	99.118	99.567	99.16	99.394	99.208	99.386	99.589	99.491	99.574	99.421	99.329	99.585	99.354
8.3679	8.3557	8.3327	8.3276	8.376	8.3427	8.3387	8.3859	8.3445	8.3527	8.3443	8.3804	8.4047	8.3547	8.3637	8.3635	8.3686	8.3522	8.365	8.3913	8.3974
0.001	0.002	0.0022	0.0009	0	0	0.0005	0	0	0	0	0	0	0	0	0	0	0	0.0004	0.0036	0
3.6324	3.6507	3.7228	3.721	3.6389	3.677	3.6895	3.6269	3.6976	3.6576	3.6947	3.6359	3.6014	3.6501	3.6453	3.6484	3.6479	3.6633	3.6464	3.6153	3.6063
0	0.0005	0	0.0012	0	0	0.0009	0	0.0025	0.0015	0	0	0.0076	0.0004	0	0	0.0034	0.0071	0.0039	0	0.0032
0	0	0	0	0.0006	0	0.001	0.0055	0	0.0023	0	0	0.0015	0	0	0.0034	0.0017	0	0.0007	0.0005	0.0003
0.7174	0.712	0.7055	0.7063	0.7145	0.7103	0.6924	0.6938	0.7106	0.6877	0.6894	0.6643	0.6523	0.6696	0.6742	0.6657	0.6671	0.673	0.6781	0.6772	0.6766
0	0	0.0006	0	0	0	0	0	0.0001	0	0	0	0	0	0	0.0001	0.0002	0	0	0	0
0.0011	0.0021	0	0	0.0023	0.0003	0	0	0.0005	0	0	0.0047	0.0025	0.0019	0.002	0	0.0013	0	0	0	0.0004
0.0027	0	0	0.0004	0.0019	0.0057	0	0.0023	0.0034	0.0034	0	0	0.0001	0	0.0008	0.0027	0	0	0.0068	0.0053	0.0011
0.0149	0.0036	0.0099	0.0032	0.0121	0.0165	0	0.0127	0.0064	0.0142	0.0054	0.0018	0.0083	0.0083	0.0175	0.0081	0.0008	0.0093	0.0029	0.0072	0.0026
2.147	2.1633	2.054	2.0891	2.1046	2.114	2.1671	2.1255	2.0691	2.1747	2.1415	2.2172	2.2051	2.2529	2.2032	2.2239	2.2184	2.1986	2.1937	2.1764	2.2061
0.0081	0.017	0.0058	0.0103	0.0113	0.0186	0.0171	0.0158	0.0105	0.0198	0.0076	0.0121	0.0183	0.0173	0.017	0.0139	0.0093	0.0169	0.016	0.0172	0.0131
14.8925	14.9069	14.8336	14.8601	14.8622	14.8851	14.9072	14.8685	14.8453	14.9139	14.8829	14.9164	14.9018	14.9552	14.9237	14.9297	14.9187	14.9204	14.9139	14.894	14.9071

033E3 C6 PL Line 001												033E3 C3 PLINGR1 Line 001						033E3 C3 PLINGR2 Line 001					
60.801	62.039	63.011	62.985	62.629	62.656	63.097	63.506	63.295	63.187	63.087	62.44	60.413	60.317	60.236	58.388	59.837	60.409	60.211	60.384	60.718			
0.005	0	0	0	0	0	0	0	0	0.005	0.017	0	0	0.021	0.003	0	0.013	0.004	0	0.032	0			
22.505	23.28	23.479	22.679	22.92	23.091	22.758	22.395	22.894	22.423	23.401	22.969	24.735	25.023	24.7	25.203	25.114	24.343	24.34	24.537	24.247			
0.019	0	0	0.004	0.026	0	0	0	0	0.008	0	0	0.025	0.006	0	0.027	0.038	0	0	0.059	0			
0	0.028	0	0	0.008	0	0.002	0	0.048	0.029	0.024	0	0.495	0.189	0.134	0.102	0.233	0.389	0.227	0.15	0.131			
0	0.006	0	0	0.006	0	0	0.009	0	0	0	0	0	0.008	0	0.023	0.019	0	0	0	0			
4.673	5.106	4.825	4.283	4.654	4.671	4.626	4.454	4.468	4.32	4.778	4.83	6.443	6.733	6.679	6.543	7.218	6.283	6.447	6.449	6.525			
7.953	7.837	8.556	8.595	8.361	8.618	8.546	8.245	8.541	8.611	8.349	8.583	7.494	7.455	7.353	6.833	7.129	7.765	7.548	7.567	7.531			
0.084	0.072	0.232	0.093	0.098	0.069	0.078	0.055	0.069	0.101	0.098	0.032	0.091	0.107	0.126	0.652	0.106	0.039	0.041	0.089	0.02			
0	0.115	0	0.109	0	0	0	0.073	0	0.043	0	0.051	0	0.014	0.072	0.015	0	0.029	0	0	0.037			
0.147	0.09	0.043	0.037	0.182	0.096	0.11	0	0.189	0.06	0.016	0.302	0	0.158	0	0.164	0	0	0.067	0	0.023			
0	0	0.004	0.049	0.013	0	0.011	0.007	0.036	0	0	0	0.011	0.009	0.01	0	0	0	0.041	0.007	0.001			
96.187	98.573	100.15	98.834	98.897	99.201	99.228	98.744	99.54	98.787	99.77	99.207	99.707	100.04	99.313	97.95	99.707	99.261	98.922	99.274	99.233			
8.3729	8.3422	8.3469	8.4365	8.3924	8.3729	8.4221	8.493	8.4218	8.4648	8.3706	8.3624	8.0891	8.0555	8.0915	7.9783	8.0194	8.1228	8.119	8.1095	8.1523			
0.0005	0	0	0	0	0	0	0	0	0.0005	0.0017	0	0	0.0021	0.0003	0	0.0013	0.0004	0	0.0033	0			
3.653	3.6898	3.666	3.5806	3.6201	3.637	3.5806	3.5302	3.5906	3.5406	3.6599	3.6258	3.9038	3.9391	3.9108	4.0592	3.9673	3.8582	3.8685	3.8842	3.8374			
0.0021	0	0	0.0004	0.0027	0	0	0	0	0.0009	0	0	0.0026	0.0007	0	0.0029	0.0041	0	0	0.0063	0			
0	0	0.0004	0.0053	0.0014	0	0.0011	0.0007	0.0039	0	0	0	0.0012	0.001	0.0011	0	0	0	0.0044	0.0007	0.0001			
0.6895	0.7357	0.6849	0.6147	0.6682	0.6689	0.6617	0.6383	0.6371	0.6202	0.6792	0.6931	0.9244	0.9635	0.9613	0.9579	1.0365	0.9053	0.9315	0.928	0.9388			
0	0.0011	0	0	0.0011	0	0	0.0018	0	0	0	0	0	0.0016	0	0.0048	0.0038	0	0	0	0			
0	0.0031	0	0	0.0009	0	0.0003	0	0.0053	0.0032	0.0027	0	0.0555	0.0211	0.015	0.0116	0.0261	0.0437	0.0256	0.0168	0.0147			
0	0.0061	0	0.0057	0	0	0	0.0038	0	0.0023	0	0.0027	0	0.0007	0.0038	0.0008	0	0.0015	0	0	0.002			
0.0117	0.007	0.0033	0.0029	0.0142	0.0075	0.0085	0	0.0146	0.0046	0.0012	0.0234	0	0.0122	0	0.013	0	0	0.0052	0	0.0018			
2.1237	2.0434	2.1976	2.2322	2.1723	2.2331	2.2119	2.138	2.2037	2.2368	2.1481	2.2289	1.9456	1.9305	1.9153	1.8104	1.8525	2.0246	1.9735	1.9704	1.9607			
0.0148	0.0124	0.0392	0.0159	0.0168	0.0117	0.0134	0.0094	0.0117	0.0172	0.0166	0.0054	0.0156	0.0183	0.0215	0.1136	0.0181	0.0067	0.0071	0.0152	0.0033			
14.8682	14.8408	14.9383	14.8942	14.8901	14.9311	14.8996	14.8152	14.8887	14.8911	14.88	14.9417	14.9378	14.9463	14.9206	14.9525	14.9291	14.9632	14.9348	14.9344	14.9111			

	033E3 C2 PL Line 001															033E3 C1 PL Line 001				
																3	4	5		
60.873	62.12	64.149	63.834	64.243	63.782	62.488	63.337	63.347	63.08	63.638	64.025	57.013	62.526	62.94	61.82	62.164	61.925	61.984	61.956	61.499
0	0	0	0	0	0	0.019	0	0	0.021	0	0.019	0	0	0	0	0	0.022	0	0	0.02
24.848	23.299	22.193	21.966	21.56	22.05	22.189	22.103	22.727	22.649	22.591	22.311	24.032	22.643	22.504	23.363	23.144	23.434	23.513	23.491	23.514
0.014	0	0	0.064	0	0.013	0.014	0	0	0.011	0	0.017	0.019	0.003	0.043	0	0.002	0	0.019	0	0
0.336	0	0	0.007	0	0	0.056	0.048	0	0.011	0.015	0.008	0.024	0.054	0	0.137	0.037	0.024	0	0	0.029
0	0.008	0	0	0	0	0	0	0	0.014	0	0	0.076	0	0.011	0	0	0.001	0.014	0	0.002
6.646	5.013	3.547	3.763	3.439	3.862	4.186	3.868	4.343	4.345	3.859	3.8	2.733	4.47	4.468	4.886	5.089	5.037	5.17	5.244	5.287
7.525	8.299	9.02	9.201	8.999	8.942	9.082	9.146	8.362	8.531	8.678	8.761	6.177	8.739	8.34	8.251	8.165	8.339	8.278	8.086	8.214
0.037	0.055	0.112	0.102	0.118	0.107	0.124	0.127	0.14	0.119	0.107	0.124	1.82	0.08	0.048	0.012	0.09	0.033	0.044	0.05	0.043
0.007	0.072	0.029	0.188	0.095	0	0.021	0.015	0.044	0.022	0.079	0.022	0	0	0	0	0.058	0.015	0	0.08	0.051
0.038	0.056	0.208	0.116	0.097	0.125	0.09	0.167	0.116	0.121	0.143	0	0.004	0.167	0.038	0.205	0.005	0.044	0.131	0.119	0.015
0	0.007	0.007	0.001	0	0	0.031	0.007	0.037	0	0	0	0.02	0.004	0	0	0	0.008	0.032	0.033	0.022
100.324	98.929	99.265	99.242	98.551	98.881	98.3	98.818	99.116	98.924	99.11	99.087	91.918	98.686	98.392	98.674	98.754	98.882	99.185	99.059	98.696
8.0966	8.3304	8.5393	8.5232	8.6048	8.5273	8.4364	8.4922	8.4531	8.4406	8.4869	8.5269	8.2045	8.4045	8.4549	8.3156	8.3472	8.3082	8.2972	8.3034	8.2762
0	0	0	0	0	0	0.0019	0	0	0.0021	0	0.0019	0	0	0	0	0	0.0022	0	0	0.002
3.8955	3.6828	3.4822	3.4571	3.4038	3.4748	3.5311	3.4932	3.5746	3.5722	3.5511	3.5023	4.0763	3.5875	3.5632	3.7042	3.6631	3.7058	3.7099	3.7108	3.7298
0.0014	0	0	0.0068	0	0.0014	0.0015	0	0	0.0012	0	0.0018	0.0022	0.0003	0.0046	0	0.0002	0	0.002	0	0
0	0.0008	0.0008	0.0001	0	0	0.0033	0.0008	0.0039	0	0	0	0.0023	0.0004	0	0	0	0.0009	0.0035	0.0036	0.0024
0.9471	0.7203	0.5059	0.5384	0.4935	0.5533	0.6056	0.5558	0.6209	0.6229	0.5514	0.5423	0.4215	0.6438	0.6431	0.7042	0.7321	0.7242	0.7416	0.7531	0.7624
0	0.0017	0	0	0	0	0	0	0	0.0029	0	0	0.0162	0	0.0022	0	0	0.0003	0.0028	0	0.0003
0.0374	0	0	0.0007	0	0	0.0063	0.0054	0	0.0013	0.0017	0.0009	0.0029	0.0061	0	0.0154	0.0042	0.0027	0	0	0.0032
0.0004	0.0038	0.0015	0.0099	0.005	0	0.0011	0.0008	0.0023	0.0012	0.0042	0.0011	0	0	0	0	0.0031	0.0008	0	0.0042	0.0027
0.0029	0.0043	0.0161	0.009	0.0075	0.0097	0.007	0.013	0.009	0.0094	0.0111	0	0.0003	0.013	0.0029	0.016	0.0004	0.0034	0.0101	0.0093	0.0012
1.9406	2.158	2.3281	2.3821	2.3372	2.3181	2.3775	2.3778	2.1637	2.2134	2.244	2.2625	1.7235	2.2778	2.1723	2.1521	2.1259	2.1694	2.1485	2.1012	2.1434
0.0062	0.0094	0.019	0.0173	0.0201	0.0182	0.0213	0.0218	0.0238	0.0203	0.0181	0.021	0.3341	0.0137	0.0082	0.0021	0.0155	0.0057	0.0075	0.0086	0.0074
14.9281	14.9115	14.8929	14.9446	14.8719	14.9028	14.993	14.9608	14.8513	14.8875	14.8685	14.8607	14.7838	14.9471	14.8514	14.9096	14.8917	14.9236	14.9231	14.8942	14.931

6	7	8	9	10	11	12	13	14	03E3 C4 PLA1 1			03E3 C4 PLA2 1			03E3 C4 PLA3 1					03L2 C3 PL	
62.3	62.231	63.148	62.873	62.596	62.505	62.376	61.817	61.868	62.031	62.352	62.694	62.022	62.387	62.626	62.737	62.231	62.688	61.347	62.355	63.675	
0	0	0.01	0	0.014	0.025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23.765	23.175	22.792	23.082	23.359	23.618	23.263	23.703	23.47	23.833	23.539	23.492	23.868	23.421	23.346	23.91	23.984	23.927	23.04	23.608	22.919	
0.023	0	0.035	0.033	0.012	0	0	0.011	0.011	0.011	0.023	0	0	0	0	0.003	0.005	0.091	0.058	0	0.017	
0	0	0	0.014	0.043	0.08	0.04	0.113	0.226	0.107	0.135	0.166	0.087	0.049	0	0.204	0.099	0.08	0.055	0.2	0.059	
0	0	0.001	0.021	0.002	0	0	0	0.008	0.015	0	0	0	0	0.009	0	0	0.008	0	0	0.019	
5.125	4.83	4.341	4.414	4.897	5.179	5.027	5.195	5.115	5.362	4.825	4.676	5.193	4.615	4.751	5.257	5.228	5.138	4.768	5.133	4.181	
8.344	8.074	8.724	8.598	8.401	8.192	8.014	8.465	8.115	9.426	9.478	9.743	9.393	9.973	9.726	9.446	9.486	9.603	9.626	9.519	9.787	
0.08	0.023	0.063	0.044	0.049	0.038	0.027	0.032	0.051	0.063	0.056	0.065	0.088	0.038	0.052	0.071	0.049	0.038	0.094	0.06	0.056	
0.008	0	0	0	0	0	0	0	0.007	0	0.022	0.08	0.064	0.016	0.094	0.065	0	0.029	0.044	0.007	0.093	
0.112	0.061	0.118	0.019	0.02	0.079	0.197	0.156	0.014	0.138	0.186	0.057	0	0.138	0.092	0.073	0.09	0.102	0.106	0	0.14	
0.002	0.031	0	0.007	0	0.014	0.015	0	0	0.056	0.046	0	0.026	0.018	0.043	0.003	0.023	0.024	0	0	0	
99.759	98.425	99.232	99.105	99.393	99.73	98.959	99.492	98.885	101.042	100.662	100.973	100.741	100.655	100.739	101.769	101.195	101.728	99.138	100.882	100.946	
8.2906	8.3659	8.4258	8.3946	8.3461	8.3132	8.3529	8.2636	8.3027	8.2072	8.2664	8.2845	8.2193	8.2737	8.2931	8.2355	8.2124	8.2301	8.2657	8.2505	8.3925	
0	0	0.001	0	0.0014	0.0025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3.7277	3.6722	3.5846	3.6326	3.6711	3.7025	3.6719	3.7349	3.7124	3.7168	3.6783	3.659	3.7283	3.6611	3.6441	3.6996	3.7306	3.7026	3.6591	3.6818	3.5605	
0.0025	0	0.0037	0.0035	0.0012	0	0	0.0012	0.0012	0.0011	0.0024	0	0	0	0	0.0003	0.0006	0.0094	0.0062	0	0.0018	
0.0003	0.0034	0	0.0008	0	0.0015	0.0016	0	0	0.006	0.0049	0	0.0028	0.0019	0.0045	0.0003	0.0024	0.0026	0	0	0	
0.7308	0.6957	0.6206	0.6315	0.6996	0.738	0.7213	0.7441	0.7355	0.7601	0.6854	0.662	0.7375	0.6558	0.6741	0.7394	0.7393	0.7228	0.6884	0.7277	0.5904	
0	0	0.0002	0.0042	0.0005	0	0	0	0.0017	0.0029	0	0	0	0	0.0017	0	0	0.0016	0	0	0.0038	
0	0	0	0.0016	0.0048	0.0089	0.0045	0.0127	0.0254	0.0118	0.015	0.0184	0.0097	0.0054	0	0.0224	0.0109	0.0088	0.0062	0.0221	0.0065	
0.0004	0	0	0	0	0	0	0	0.0004	0	0.0012	0.0041	0.0033	0.0008	0.0049	0.0034	0	0.0015	0.0023	0.0004	0.0048	
0.0086	0.0047	0.0091	0.0015	0.0016	0.0061	0.0153	0.0121	0.0011	0.0106	0.0143	0.0043	0	0.0106	0.0071	0.0056	0.0069	0.0078	0.0083	0	0.0107	
2.153	2.1046	2.2572	2.2258	2.172	2.1127	2.0808	2.1943	2.1116	2.4181	2.4366	2.4964	2.4136	2.5645	2.4973	2.4042	2.4274	2.4447	2.5148	2.4422	2.5012	
0.0135	0.004	0.0107	0.0075	0.0083	0.0064	0.0046	0.0054	0.0088	0.0107	0.0095	0.0109	0.0148	0.0064	0.0089	0.0118	0.0082	0.0063	0.0161	0.0101	0.0094	
14.9274	14.8505	14.9129	14.9036	14.9066	14.8918	14.8529	14.9683	14.9008	15.1453	15.1138	15.1397	15.1293	15.1803	15.1356	15.1225	15.1386	15.1381	15.1672	15.1347	15.0817	

.G Line 001									03L2 C2 PLG Line 001										03L2 C1 PLG Line 001	
62.347	62.723	62.198	63.402	62.222	62.238	62.558	62.599	62.314	62.595	62.689	61.944	62.247	62.501	62.9	62.756	62.262	62.253	62.01	62.322	62.452
0	0	0	0	0	0.015	0	0.004	0	0	0	0.002	0	0	0	0	0	0	0	0	0
23.848	23.758	23.94	24.005	23.739	23.67	23.706	23.604	23.761	23.654	23.405	23.642	23.645	23.671	23.531	23.68	23.906	23.958	24.104	23.98	23.696
0.054	0.036	0.003	0.055	0.014	0.059	0	0.008	0	0.011	0	0.041	0	0	0.009	0	0	0.041	0.002	0	0.039
0.008	0	0.017	0	0	0.043	0	0.011	0.045	0.035	0.036	0	0.018	0.002	0.024	0.024	0.046	0.016	0.039	0.014	0
0	0.005	0	0.018	0	0	0	0.002	0	0.031	0	0.024	0	0	0	0	0	0	0	0	0
5.168	4.841	5.067	5.033	5.106	5.061	4.976	5.191	5.033	5.033	4.832	4.974	5.122	4.966	5.03	5.018	5.01	5.149	5.273	5.045	5.227
9.427	9.585	9.689	9.859	9.506	9.605	9.582	9.512	9.357	9.674	9.629	9.597	9.407	9.501	9.481	9.678	9.68	9.533	9.516	9.465	9.588
0.038	0.151	0.048	0.041	0.085	0.074	0.078	0.073	0.055	0.072	0.096	0.066	0.051	0.065	0.077	0.051	0.006	0.079	0.041	0.027	0.066
0.057	0	0.072	0	0	0.036	0.05	0.072	0.072	0.087	0.029	0	0	0.021	0	0	0.029	0	0.015	0.044	0
0.053	0.271	0.102	0.029	0.098	0.013	0.111	0.067	0.212	0.107	0.047	0	0	0.06	0.131	0.106	0.084	0	0.184	0.02	0.29
0.023	0	0.001	0.003	0.013	0	0.007	0.065	0.025	0	0	0	0.02	0	0.008	0.053	0	0	0	0.045	0.043
101.023	101.37	101.137	102.445	100.783	100.814	101.068	101.208	100.874	101.299	100.763	100.29	100.51	100.787	101.191	101.366	101.023	101.029	101.184	100.962	101.401
8.2347	8.2606	8.2162	8.2548	8.2392	8.2407	8.2588	8.2579	8.2463	8.2537	8.2939	8.2385	8.2547	8.2659	8.2876	8.2612	8.2263	8.2211	8.1912	8.2303	8.2353
0	0	0	0	0	0.0015	0	0.0004	0	0	0	0.0002	0	0	0	0	0	0	0	0	0
3.7126	3.688	3.7276	3.6839	3.7051	3.6942	3.6889	3.6701	3.7064	3.6763	3.6499	3.7064	3.696	3.6899	3.6545	3.6743	3.723	3.7292	3.7529	3.7327	3.683
0.0056	0.0037	0.0003	0.0057	0.0015	0.0061	0	0.0008	0	0.0011	0	0.0043	0	0	0.0009	0	0	0.0043	0.0002	0	0.004
0.0025	0	0.0001	0.0003	0.0014	0	0.0007	0.0068	0.0026	0	0	0	0.0021	0	0.0008	0.0056	0	0	0	0.0047	0.0045
0.7314	0.6832	0.7172	0.7021	0.7245	0.718	0.7038	0.7338	0.7136	0.7111	0.685	0.7088	0.7278	0.7038	0.7102	0.7078	0.7093	0.7286	0.7464	0.7138	0.7385
0	0.0009	0	0.0034	0	0	0	0.0004	0	0.0061	0	0.0047	0	0	0	0	0	0	0	0	0
0.0009	0	0.0019	0	0	0.0048	0	0.0012	0.005	0.0039	0.0039	0	0.002	0.0002	0.0027	0.0026	0.0051	0.0018	0.0043	0.0015	0
0.003	0	0.0037	0	0	0.0019	0.0026	0.0037	0.0037	0.0045	0.0015	0	0	0.0011	0	0	0.0015	0	0.0008	0.0023	0
0.004	0.0207	0.0078	0.0022	0.0076	0.001	0.0085	0.0051	0.0163	0.0082	0.0036	0	0	0.0046	0.01	0.0081	0.0065	0	0.0141	0.0015	0.0222
2.4143	2.4477	2.4819	2.4889	2.4407	2.4659	2.4528	2.4331	2.4011	2.4734	2.4703	2.475	2.4188	2.4365	2.4223	2.4702	2.4799	2.4411	2.4374	2.4237	2.4516
0.0064	0.0254	0.008	0.0069	0.0144	0.0126	0.0131	0.0123	0.0093	0.0121	0.0163	0.0112	0.0087	0.0109	0.0129	0.0086	0.001	0.0133	0.007	0.0045	0.0111
15.1153	15.1301	15.1647	15.1482	15.1344	15.1468	15.1293	15.1256	15.1043	15.1503	15.1244	15.1491	15.11	15.1129	15.1019	15.1383	15.1526	15.1394	15.1544	15.1151	15.1502

03L2 C7 PLBOR Line 001										03L2 C4 PL Line 001										
62.094	62.51	62.11	62.442	62.234	59.994	62.34	62.387	61.744	61.653	62.016	61.701	62.695	62.411	62.063	61.84	62.074	62.055	62.1	59.934	61.637
0	0	0	0	0.04	0	0	0	0	0	0	0	0.013	0	0	0	0	0	0	0	0.01
23.598	23.505	23.811	23.507	23.744	22.642	23.405	23.723	23.493	23.187	23.4	24.097	23.635	23.532	23.554	23.912	23.53	23.579	23.83	22.741	23.59
0.019	0	0	0.013	0	0.025	0	0.04	0	0	0.032	0	0	0	0	0	0	0	0	0.028	0
0.029	0	0	0.043	0	0.007	0.01	0.016	0	0.061	0.043	0.017	0.013	0.003	0.011	0.024	0.018	0.005	0.024	0.047	0.041
0	0	0.002	0	0	0	0.003	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.18	5.001	5.229	5.272	4.863	4.921	4.932	4.78	4.956	5.072	5.058	5.15	4.735	4.983	5.124	5.264	5.023	5.027	5.088	4.736	4.889
9.711	9.762	9.395	9.419	9.579	9.181	9.802	9.526	9.367	9.656	9.823	9.284	9.875	9.626	9.725	9.517	9.818	9.686	9.842	9.235	9.611
0.069	0.057	0.052	0.041	0.089	0.073	0.061	0.087	0.049	0.082	0.016	0.058	0.078	0.059	0.057	0.028	0.069	0.071	0.073	0.098	0.107
0	0	0.05	0.014	0.058	0	0	0.007	0.043	0	0	0	0.093	0.072	0.008	0	0.057	0	0.094	0	0
0.208	0.166	0.052	0	0.041	0.119	0	0.056	0	0.152	0.015	0.263	0.161	0	0.084	0.093	0.101	0	0.152	0.08	0
0	0.041	0.047	0.049	0	0.049	0.048	0	0	0	0.012	0.008	0.036	0	0	0	0.019	0	0	0.032	0.01
100.908	101.042	100.748	100.8	100.648	97.011	100.601	100.622	99.652	99.863	100.415	100.578	101.334	100.686	100.626	100.678	100.709	100.423	101.203	96.931	99.895
8.2295	8.262	8.2277	8.2628	8.247	8.2558	8.268	8.262	8.2571	8.253	8.248	8.1932	8.264	8.2678	8.2391	8.2035	8.2393	8.2453	8.2108	8.2514	8.2335
0	0	0	0	0.004	0	0	0	0	0	0	0	0.0013	0	0	0	0	0	0	0	0.001
3.6864	3.6618	3.7179	3.6665	3.7087	3.6726	3.6589	3.703	3.7032	3.6585	3.6683	3.7716	3.6721	3.6745	3.6857	3.739	3.6813	3.6928	3.7137	3.6904	3.7142
0.002	0	0	0.0014	0	0.0027	0	0.0041	0	0	0.0034	0	0	0	0	0	0	0	0	0.0031	0
0	0.0044	0.005	0.0052	0	0.0054	0.0051	0	0	0	0.0013	0.0008	0.0038	0	0	0	0.002	0	0	0.0035	0.0011
0.7356	0.7082	0.7423	0.7475	0.6905	0.7256	0.7008	0.6783	0.7102	0.7275	0.7208	0.7328	0.6687	0.7073	0.7288	0.7482	0.7145	0.7158	0.7209	0.6987	0.6997
0	0	0.0005	0	0	0	0.0006	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.0032	0	0	0.0047	0	0.0009	0.0011	0.0017	0	0.0068	0.0048	0.0019	0.0014	0.0003	0.0012	0.0027	0.002	0.0006	0.0026	0.0054	0.0046
0	0	0.0026	0.0007	0.003	0	0	0.0004	0.0023	0	0	0	0.0048	0.0038	0.0004	0	0.003	0	0.0049	0	0
0.016	0.0128	0.004	0	0.0032	0.0095	0	0.0043	0	0.0118	0.0012	0.0202	0.0123	0	0.0065	0.0072	0.0077	0	0.0117	0.0064	0
2.4956	2.5018	2.4132	2.4167	2.4613	2.4498	2.5208	2.4461	2.4289	2.5064	2.5333	2.3903	2.5238	2.4727	2.5032	2.4479	2.527	2.4954	2.5232	2.4653	2.4894
0.0117	0.0096	0.0088	0.007	0.015	0.0128	0.0103	0.0148	0.0083	0.0141	0.0027	0.0099	0.0131	0.01	0.0096	0.0047	0.0117	0.0121	0.0123	0.0173	0.0182
15.18	15.1606	15.1219	15.1125	15.1327	15.1351	15.1656	15.1148	15.1099	15.178	15.1835	15.1207	15.1652	15.1363	15.1745	15.1533	15.1884	15.162	15.2001	15.1414	15.1617

									03L2 C5 PL Line 001											
62.244	62.166	61.769	61.867	61.771	61.395	61.139	61.838	61.182	60.735	61.802	61.748	62.394	62.062	61.227	61.485	61.736	61.537	61.544	61.384	62.204
0	0	0	0	0	0	0	0	0	0	0	0.009	0	0.01	0	0	0	0	0	0	0
23.482	23.554	23.879	23.67	23.623	23.749	23.736	23.321	22.995	23.712	23.164	23.13	22.943	23.032	23.646	23.296	23.539	23.36	23.026	23.285	23.304
0.032	0	0	0.049	0	0	0.031	0.015	0	0	0	0.009	0.012	0	0.012	0.008	0	0	0	0.024	0.015
0.009	0.012	0	0	0.039	0	0	0.005	0.056	0.009	0.002	0	0	0.01	0.017	0	0	0.025	0.014	0	0.055
0	0	0.011	0.01	0	0	0	0	0.028	0	0	0	0	0.002	0.017	0	0.011	0.004	0	0	0
5.065	5.221	4.684	5.033	5.079	4.955	5.075	4.005	4.726	5.15	4.745	4.692	4.175	4.226	4.944	4.899	5.069	4.799	4.57	4.703	3.518
9.511	9.444	9.47	9.504	9.461	9.495	9.497	9.562	9.395	9.647	9.671	9.742	9.838	9.988	9.52	9.45	9.766	9.656	10.007	9.754	10.454
0.08	0.097	0.216	0.019	0.074	0.046	0.047	0.472	0.105	0.051	0.069	0.065	0.096	0.067	0.051	0.037	0.06	0.04	0.05	0.036	0.054
0	0	0.086	0	0	0.057	0.071	0.021	0.108	0.043	0.028	0	0.1	0.037	0.064	0	0.03	0	0.057	0	0
0.103	0.088	0.029	0	0.138	0.032	0.065	0.088	0.024	0.142	0.011	0	0.05	0.11	0.173	0	0.165	0.102	0.145	0	0.088
0.051	0	0.014	0.021	0	0	0.012	0.038	0.048	0.026	0.004	0.004	0	0	0	0.019	0	0.024	0.007	0.019	0.017
100.577	100.582	100.158	100.173	100.185	99.729	99.673	99.365	98.667	99.515	99.496	99.399	99.608	99.544	99.671	99.194	100.376	99.547	99.42	99.205	99.709
8.2593	8.2499	8.2278	8.2352	8.2323	8.215	8.1958	8.2959	8.2742	8.169	8.2823	8.2821	8.342	8.3117	8.2092	8.261	8.2244	8.2499	8.2722	8.253	8.3083
0	0	0	0	0	0	0	0	0	0	0	0.0009	0	0.001	0	0	0	0	0	0	0
3.6727	3.6843	3.7491	3.7138	3.7109	3.7456	3.7504	3.6876	3.6656	3.7593	3.659	3.6568	3.6156	3.6357	3.737	3.6894	3.6963	3.6914	3.6481	3.69	3.6689
0.0033	0	0	0.0052	0	0	0.0033	0.0016	0	0	0	0.001	0.0013	0	0.0013	0.0008	0	0	0	0.0025	0.0016
0.0054	0	0.0015	0.0022	0	0	0.0013	0.0041	0.0052	0.0029	0.0004	0.0005	0	0	0	0.0021	0	0.0025	0.0007	0.002	0.0018
0.7201	0.7425	0.6686	0.7178	0.7253	0.7105	0.7289	0.5758	0.6848	0.7422	0.6813	0.6743	0.5981	0.6064	0.7103	0.7053	0.7236	0.6894	0.6582	0.6775	0.5035
0	0	0.0022	0.002	0	0	0	0	0.0056	0	0	0	0	0.0005	0.0034	0	0.0022	0.0007	0	0	0
0.001	0.0013	0	0	0.0044	0	0	0.0005	0.0064	0.001	0.0003	0	0	0.0011	0.0019	0	0	0.0028	0.0016	0	0.0062
0	0	0.0045	0	0	0.003	0.0037	0.0011	0.0057	0.0023	0.0015	0	0.0052	0.0019	0.0034	0	0.0016	0	0.003	0	0
0.0079	0.0068	0.0022	0	0.0107	0.0024	0.0051	0.0068	0.0019	0.0111	0.0009	0	0.0039	0.0086	0.0135	0	0.0128	0.008	0.0113	0	0.0068
2.447	2.4302	2.4458	2.4529	2.4448	2.4636	2.4686	2.4874	2.4637	2.5161	2.5132	2.5336	2.5504	2.5938	2.475	2.4619	2.5227	2.5102	2.608	2.5428	2.7074
0.0135	0.0164	0.0367	0.0033	0.0126	0.0079	0.0081	0.0807	0.0182	0.0087	0.0118	0.0112	0.0163	0.0114	0.0087	0.0064	0.0103	0.0068	0.0085	0.0062	0.0093
15.1303	15.1313	15.1382	15.1323	15.1409	15.1479	15.1651	15.1415	15.1313	15.2123	15.1505	15.1603	15.1329	15.1721	15.1636	15.127	15.1939	15.1617	15.2116	15.1742	15.2138

								03L2 C6 PL 1			03L2 C6 PL2 1					03L2 C7 PL1 1			03L2 C7 PL2 1	
61.949	60.787	61.523	62.307	62.263	61.459	60.666	60.841	59.382	59.752	59.648	61.125	60.898	58.602	60.523	61.041	59.55	59.505	59.306	59.464	59.473
0	0	0	0	0	0	0	0	0	0	0.007	0.02	0.002	0	0	0	0.023	0	0.012	0	0.009
23.28	23.691	22.972	22.806	22.801	23.668	23.352	23.63	25.114	25.156	24.515	24.009	23.719	22.86	23.703	24.183	26.04	25.996	25.679	25.403	25.745
0.039	0.049	0	0.023	0	0.012	0.041	0	0	0.036	0	0.017	0.062	0.048	0	0	0.005	0.019	0	0.005	0
0.004	0.026	0.013	0.004	0.068	0.066	0	0.018	0.458	0.3	0.603	0.157	0.034	0.035	0.071	0.282	0.143	0.043	0.107	0.142	0.066
0	0	0	0	0	0	0.006	0	0	0	0	0	0	0	0	0	0.012	0	0	0	0
4.66	3.802	4.39	4.479	4.353	4.841	4.972	5.069	6.447	6.591	5.972	5.423	5.322	5.258	5.336	5.465	7.676	7.615	7.399	6.978	7.263
9.858	9.32	10.025	9.882	9.965	9.625	9.498	9.852	8.85	8.356	8.883	9.482	9.301	8.964	9.39	9.554	7.962	7.935	7.9	8.224	8.344
0	0.705	0.041	0.066	0.091	0.091	0.049	0.035	0.046	0.019	0.03	0.054	0.071	0.061	0.057	0.031	0.098	0.092	0.104	0.121	0.15
0.036	0	0.058	0.065	0.043	0.036	0	0.071	0.065	0.015	0	0.107	0.008	0	0	0.071	0.058	0	0.001	0.015	0
0.152	0.03	0.05	0	0.092	0.134	0.079	0.183	0.087	0.231	0.059	0.087	0.189	0.17	0.16	0	0	0	0.016	0.037	0.02
0	0.039	0.021	0	0.014	0.015	0	0.041	0.002	0.04	0.018	0	0	0.03	0.044	0.023	0.039	0	0	0.017	0
99.978	98.449	99.093	99.632	99.69	99.947	98.663	99.74	100.451	100.496	99.735	100.481	99.606	96.028	99.284	100.65	101.606	101.205	100.524	100.406	101.07
8.2709	8.2347	8.286	8.3347	8.3311	8.2164	8.2124	8.1728	7.9554	7.983	8.0316	8.1495	8.1781	8.1672	8.1597	8.1266	7.879	7.8926	7.917	7.9488	7.9073
0	0	0	0	0	0	0	0	0	0	0.0007	0.002	0.0002	0	0	0	0.0023	0	0.0012	0	0.0009
3.6635	3.7829	3.6468	3.5959	3.596	3.7295	3.7261	3.7414	3.9658	3.9614	3.8907	3.773	3.7545	3.7552	3.7667	3.795	4.0609	4.0642	4.0405	4.0025	4.0346
0.0041	0.0052	0	0.0024	0	0.0013	0.0044	0	0	0.0038	0	0.0018	0.0066	0.0053	0	0	0.0006	0.002	0	0.0005	0
0	0.0042	0.0022	0	0.0015	0.0016	0	0.0044	0.0003	0.0043	0.002	0	0	0.0034	0.0048	0.0025	0.0042	0	0	0.0018	0
0.6667	0.5519	0.6335	0.642	0.6242	0.6935	0.7212	0.7296	0.9254	0.9435	0.8617	0.7747	0.7658	0.7852	0.7708	0.7796	1.0882	1.0823	1.0584	0.9995	1.0347
0	0	0	0.0001	0	0	0.0013	0	0	0	0	0	0	0	0	0	0.0024	0	0	0	0
0.0004	0.003	0.0015	0.0004	0.0077	0.0074	0	0.002	0.0513	0.0335	0.0679	0.0175	0.0038	0.0041	0.008	0.0314	0.0158	0.0048	0.012	0.0159	0.0073
0.0019	0	0.003	0.0034	0.0022	0.0019	0	0.0037	0.0034	0.0008	0	0.0056	0.0004	0	0	0.0037	0.003	0	0	0.0008	0
0.0118	0.0024	0.0039	0	0.0072	0.0104	0.0062	0.0143	0.0068	0.0179	0.0046	0.0068	0.0147	0.0137	0.0125	0	0	0	0.0013	0.0028	0.0015
2.5521	2.4482	2.618	2.5632	2.5855	2.4952	2.4931	2.5662	2.2989	2.1648	2.3193	2.4514	2.4219	2.4223	2.4547	2.4664	2.0426	2.0407	2.0447	2.1317	2.151
0	0.1218	0.0071	0.0113	0.0155	0.0154	0.0085	0.006	0.0078	0.0033	0.0052	0.0092	0.0122	0.0109	0.0097	0.0053	0.0165	0.0155	0.0177	0.0206	0.0254
15.1714	15.1542	15.202	15.1534	15.1707	15.1727	15.1731	15.2404	15.215	15.1162	15.1836	15.1914	15.1582	15.1674	15.1868	15.2105	15.1154	15.1024	15.0928	15.1249	15.1628

03L2 C8 PLG Line 001								03L2 C9 PI 03L2 C9 PI 03L2 C9 PI 03L2 C9 PI				03j2 c4 pl2 Line 002			03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/					
59.573	62.17	62.291	62.554	63.189	62.777	62.762	61.801	62.171	62.538	62.59	62.113	61.527	61.579	61.558	61.523	61.541	62.191	60.67	62.169	61.869
0	0	0	0	0	0	0	0	0	0.014	0	0	0	0	0	0	0	0	0	0	0
25.248	23.443	23.822	23.799	23.126	23.425	23.693	23.972	23.301	23.499	23.872	23.845	24.428	23.998	24.44	24.677	24.173	24.252	23.935	24.522	24.14
0	0.019	0.015	0	0.018	0.021	0	0.016	0	0	0	0.025	0	0	0	0.043	0	0.024	0	0	0
0.266	0	0.028	0.04	0	0.016	0.023	0.023	0.044	0	0.004	0.022	0.016	0.032	0.055	0.033	0.04	0.017	0.068	0.024	0
0.009	0.015	0	0	0	0.008	0	0	0	0.002	0	0	0	0.01	0.002	0	0.014	0.007	0	0	0
7.311	5.024	5.188	5	4.187	4.668	5.017	5.063	4.982	4.974	4.909	5.031	6.132	6.088	6.05	6.119	5.966	5.777	5.87	5.888	5.882
8.048	9.649	9.752	9.388	9.993	9.94	9.526	9.583	9.942	9.474	9.661	9.681	7.66	7.779	7.525	7.638	7.783	7.73	7.689	8.162	8.157
0.103	0.039	0.057	0.069	0.105	0.117	0.084	0.032	0.056	0.089	0.072	0.09	0.042	0.074	0.065	0.069	0.052	0.08	0.063	0.082	0.085
0	0	0	0	0	0	0	0	0	0.023	0.029	0	0	0.021	0	0.036	0	0.022	0	0.014	0.066
0.018	0.029	0	0.151	0.043	0.155	0.125	0.055	0.128	0.04	0.05	0	0.066	0.162	0.298	0	0	0.068	0	0.02	0.095
0.001	0.018	0	0	0.008	0.026	0	0.016	0	0	0	0	0	0.013	0	0.014	0	0.015	0	0	0.005
100.577	100.406	101.153	101.001	100.669	101.153	101.23	100.561	100.624	100.653	101.187	100.807	99.871	99.756	99.993	100.152	99.569	100.183	98.295	100.881	100.299
7.9548	8.2602	8.2236	8.2575	8.3527	8.2849	8.2686	8.2031	8.2591	8.2808	8.2489	8.2239	8.189	8.217	8.191	8.1671	8.2124	8.2411	8.2033	8.1978	8.214
0	0	0	0	0	0	0	0	0	0.0014	0	0	0	0	0	0	0	0	0	0	0
3.9738	3.6713	3.707	3.703	3.6032	3.6439	3.6792	3.7506	3.6485	3.6676	3.7084	3.7212	3.8323	3.7744	3.8331	3.8612	3.8023	3.7879	3.8146	3.8114	3.7777
0	0.002	0.0016	0	0.0019	0.0022	0	0.0017	0	0	0	0.0026	0	0	0	0.0045	0	0.0025	0	0	0
0.0001	0.0019	0	0	0.0008	0.0027	0	0.0017	0	0	0	0	0	0.0014	0	0.0015	0	0.0016	0	0	0.0006
1.046	0.7152	0.7338	0.7073	0.593	0.6602	0.7082	0.7201	0.7091	0.7057	0.6933	0.7137	0.8745	0.8704	0.8626	0.8704	0.8531	0.8203	0.8505	0.832	0.8368
0.0018	0.003	0	0	0	0.0016	0	0	0	0.0005	0	0	0	0.002	0.0003	0	0.0028	0.0014	0	0	0
0.0297	0	0.0031	0.0044	0	0.0018	0.0025	0.0025	0.0049	0	0.0005	0.0025	0.0018	0.0036	0.0061	0.0037	0.0045	0.0019	0.0077	0.0027	0
0	0	0	0	0	0	0	0	0	0.0012	0.0015	0	0	0.0011	0	0.0019	0	0.0012	0	0.0007	0.0034
0.0014	0.0022	0	0.0116	0.0033	0.0119	0.0095	0.0043	0.0099	0.0031	0.0039	0	0.0051	0.0125	0.023	0	0	0.0053	0	0.0015	0.0073
2.0838	2.4858	2.4965	2.4029	2.5613	2.5435	2.4334	2.4665	2.561	2.4324	2.4688	2.4855	1.9769	2.0127	1.9416	1.9661	2.014	1.9862	2.0158	2.087	2.0999
0.0175	0.0066	0.0096	0.0117	0.0176	0.0197	0.0141	0.0053	0.0095	0.015	0.0121	0.0152	0.0072	0.0126	0.0111	0.0118	0.0089	0.0136	0.0109	0.0137	0.0144
15.1089	15.1483	15.1752	15.0983	15.1338	15.1723	15.1155	15.1558	15.2019	15.1077	15.1373	15.1645	14.8869	14.9077	14.8688	14.8882	14.8979	14.8628	14.9028	14.9468	14.9541

03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/ 03j2 c2 PL/ 03j2 c4 pl2 Line 001									03j2 c2 PLAG Line 001		03j2 c7 PL	03j2 c6 PLAG Line 002								
61.92	61.942	61.317	61.643	47.891	61.737	61.736	60.711	61.9	61.498	61.109	61.987	62.149	62.357	62.95	62.108	61.986	62.336	62.11	63.015	61.938
0	0	0.011	0	0.029	0	0	0	0	0	0	0.02	0.04	0	0.014	0	0	0	0	0	0
24.123	24.019	24.033	24.467	20.634	24.282	24.009	24.227	24.507	24.468	24.204	24.139	24.199	23.845	24.174	24.211	24.142	23.442	23.742	23.801	23.83
0	0	0.011	0	0	0	0.017	0	0	0.004	0	0	0.051	0.026	0.002	0.012	0.062	0	0	0	0.024
0.007	0	0.029	0.04	6.801	0.034	0	0	0.16	0.088	0.094	0.02	0.013	0.084	0	0	0.18	0.02	0.02	0.017	0.06
0	0.003	0	0	5.728	0.007	0	0	0	0.007	0	0.002	0	0	0	0.004	0	0	0	0	0.008
5.668	5.952	6.24	6.011	3.154	5.904	5.897	6.131	6.143	6.334	6.06	5.658	5.467	5.415	5.415	5.587	4.774	5.307	5.437	5.127	5.478
8.165	7.889	7.955	7.659	4.592	7.969	7.952	7.503	7.697	7.553	7.561	7.985	8.141	8.135	8.347	8.097	8.089	8.279	8.414	8.549	8.189
0.088	0.135	0.094	0.079	2.215	0.055	0.084	0.042	0.059	0.057	0.049	0.079	0.107	0.104	0.091	0.076	0.441	0.055	0.079	0.078	0.08
0.029	0	0	0	0.029	0	0.001	0	0	0.022	0	0.008	0	0	0.08	0	0.015	0	0.029	0.115	0.079
0.081	0.13	0.052	0.096	0.148	0.02	0.145	0.165	0.035	0.075	0	0.071	0.046	0.006	0	0.002	0	0.134	0.226	0.259	0.185
0	0	0.017	0	0.029	0.013	0.032	0.003	0.025	0.016	0	0	0.013	0.023	0	0	0	0	0	0	0
100.081	100.07	99.759	99.995	91.25	100.021	99.873	98.782	100.526	100.122	99.077	99.969	100.226	99.995	101.073	100.097	99.689	99.573	100.057	100.961	99.871
8.2285	8.2341	8.1898	8.194	7.3721	8.2062	8.2248	8.1753	8.1898	8.1742	8.1959	8.2374	8.2374	8.2793	8.2716	8.2386	8.2591	8.3133	8.2634	8.3027	8.254
0	0	0.0011	0	0.0033	0	0	0	0	0	0	0.002	0.004	0	0.0013	0	0	0	0	0	0
3.7786	3.7634	3.7835	3.8335	3.7439	3.8043	3.7702	3.8454	3.8218	3.8333	3.8262	3.7811	3.7805	3.7316	3.7441	3.7854	3.7915	3.6849	3.7232	3.6964	3.7431
0	0	0.0012	0	0	0	0.0018	0	0	0.0005	0	0	0.0054	0.0027	0.0002	0.0013	0.0066	0	0	0	0.0025
0	0	0.0018	0	0.0036	0.0014	0.0034	0.0003	0.0027	0.0017	0	0	0.0014	0.0024	0	0	0	0	0	0	0
0.8071	0.8477	0.893	0.8561	0.5202	0.8409	0.8418	0.8846	0.8708	0.9021	0.8709	0.8057	0.7764	0.7704	0.7624	0.7941	0.6816	0.7584	0.7751	0.7238	0.7822
0	0.0007	0	0	1.3143	0.0014	0	0	0	0.0014	0	0.0004	0	0	0	0.0008	0	0	0	0	0.0015
0.0008	0	0.0033	0.0044	0.8756	0.0037	0	0	0.0177	0.0098	0.0105	0.0023	0.0014	0.0094	0	0	0.02	0.0022	0.0022	0.0019	0.0067
0.0015	0	0	0	0.0018	0	0.0001	0	0	0.0012	0	0.0004	0	0	0.0041	0	0.0008	0	0.0015	0.006	0.0042
0.0062	0.01	0.004	0.0074	0.0132	0.0015	0.0112	0.0129	0.0027	0.0058	0	0.0054	0.0035	0.0005	0	0.0002	0	0.0103	0.0175	0.0198	0.0143
2.104	2.0335	2.0602	1.9741	1.3705	2.054	2.0543	1.959	1.9745	1.9467	1.9663	2.0575	2.0922	2.0944	2.1267	2.0825	2.0899	2.1409	2.1707	2.1841	2.1159
0.0149	0.0229	0.016	0.0134	0.4349	0.0093	0.0143	0.0073	0.01	0.0097	0.0083	0.0134	0.0181	0.0175	0.0153	0.0128	0.075	0.0093	0.0134	0.0131	0.0137
14.9416	14.9124	14.9539	14.883	15.6535	14.9226	14.9218	14.8849	14.8902	14.8862	14.8782	14.9056	14.9202	14.9083	14.9259	14.9157	14.9243	14.9194	14.9671	14.9477	14.938

03j2 c5 PLAG Line 002																03j2 c7 PLAG1 1		03j2 c6 PLAG Line 001		03j2 c5 PL/
62.223	62.069	62.476	61.484	62.124	62.361	62.365	62.864	62.092	62.742	61.9	62.699	62.332	62.458	62.187	62.878	61.624	62.042	60.323	62.174	60.914
0.017	0	0	0	0	0	0	0.023	0	0.015	0	0	0	0.01	0	0	0	0	0	0	0
23.814	24.116	24.097	24.272	24.235	24.286	23.921	23.611	23.951	23.337	23.97	24.02	24	23.763	23.737	23.734	24.692	23.787	24.487	23.985	24.572
0	0.022	0.044	0	0.012	0	0.01	0	0	0.054	0.074	0	0	0.004	0	0	0	0	0.022	0	0
0	0	0	0.032	0	0.014	0.017	0	0.041	0.03	0.035	0.026	0	0.002	0.052	0.008	0.061	0.073	0.004	0.056	0.023
0	0	0	0	0	0	0	0	0	0.001	0.008	0.008	0	0	0	0	0.018	0	0	0	0
5.453	5.735	5.676	6.002	5.64	5.838	5.662	5.127	5.395	4.842	5.578	5.108	5.229	5.379	5.342	5.297	6.057	5.381	6.585	4.676	6.201
8.108	7.957	8.15	8.144	7.917	8.313	8.197	8.385	8.148	8.496	8.095	8.392	8.307	8.209	8.274	8.462	7.745	8.286	7.973	8.544	7.607
0.082	0.12	0.075	0.085	0.079	0.118	0.163	0.116	0.125	0.168	0.136	0.164	0.167	0.125	0.09	0.062	0.043	0.057	0.068	0.468	0.084
0.101	0	0	0	0	0.079	0.043	0.021	0	0	0	0.022	0.015	0.079	0.015	0.08	0	0.065	0.058	0	0
0.125	0.019	0.156	0.124	0.08	0.116	0	0.005	0.134	0.153	0	0.082	0.134	0.154	0	0	0.089	0.135	0	0.024	0.168
0.011	0	0.056	0	0.056	0.01	0.008	0.036	0.025	0.006	0.041	0	0.002	0	0.015	0	0	0	0	0	0.005
99.934	100.038	100.73	100.143	100.143	101.135	100.386	100.188	99.911	99.844	99.837	100.521	100.186	100.183	99.712	100.521	100.329	99.826	99.52	99.927	99.574
8.2754	8.2415	8.2478	8.1815	8.2378	8.2156	8.2606	8.3236	8.259	8.343	8.241	8.283	8.2675	8.2874	8.2819	8.3065	8.1684	8.2657	8.096	8.2711	8.146
0.0017	0	0	0	0	0	0	0.0023	0	0.0015	0	0	0	0.001	0	0	0	0	0	0	0
3.7332	3.7744	3.7496	3.8069	3.7879	3.7713	3.7346	3.685	3.7551	3.6577	3.7615	3.7402	3.752	3.7166	3.7261	3.6956	3.8579	3.7355	3.8738	3.761	3.8731
0	0.0023	0.0046	0	0.0012	0	0.001	0	0	0.0057	0.0078	0	0	0.0004	0	0	0	0	0.0023	0	0
0.0011	0	0.0059	0	0.0059	0.001	0.0009	0.0038	0.0027	0.0006	0.0044	0	0.0003	0	0.0016	0	0	0	0	0	0.0005
0.777	0.816	0.8029	0.8557	0.8014	0.8241	0.8035	0.7273	0.7689	0.6899	0.7957	0.7231	0.7432	0.7648	0.7622	0.7498	0.8602	0.7682	0.947	0.6665	0.8886
0	0	0	0	0	0	0	0	0	0.0002	0.0015	0.0016	0	0	0	0	0.0035	0	0	0	0
0	0	0	0.0035	0	0.0016	0.0019	0	0.0046	0.0034	0.0039	0.0029	0	0.0003	0.0058	0.0008	0.0068	0.0081	0.0005	0.0062	0.0026
0.0053	0	0	0	0	0.0041	0.0022	0.0011	0	0	0	0.0011	0.0008	0.0041	0.0008	0.0041	0	0.0034	0.003	0	0
0.0097	0.0015	0.0119	0.0095	0.0061	0.0089	0	0.0004	0.0103	0.0118	0	0.0063	0.0103	0.0118	0	0	0.0068	0.0104	0	0.0018	0.013
2.0909	2.0487	2.0863	2.1014	2.0355	2.1236	2.1053	2.1527	2.1016	2.1906	2.0898	2.1498	2.1365	2.1122	2.1365	2.1674	1.9907	2.1406	2.0749	2.204	1.9725
0.0139	0.0204	0.0127	0.0145	0.0134	0.0198	0.0275	0.0195	0.0213	0.0285	0.0231	0.0277	0.0282	0.0212	0.0153	0.0105	0.0072	0.0097	0.0117	0.0795	0.0143
14.9081	14.9047	14.9216	14.973	14.8892	14.9699	14.9376	14.9158	14.9235	14.9329	14.9287	14.9356	14.9388	14.9197	14.9302	14.9347	14.9016	14.9417	15.0092	14.9902	14.9106

AG Line 001	03j2 c3 plaginclgrt1 Line 002			03j2 c3 pla	03j2 c3 plaginclgrt1 Line 001		
61.828	61.189	62.324	62.377	61.264	60.901	60.687	61.381
0	0.027	0	0	0	0.041	0	0
23.815	24.267	23.874	23.783	24.099	24.604	24.646	24.216
0	0.004	0.015	0.101	0.018	0	0.048	0
0.085	0.117	0.105	0	0.039	0.769	0.579	0.149
0.01	0	0	0	0	0.015	0.014	0.005
5.6	6.333	5.57	5.349	5.974	6.589	6.855	5.807
8.303	7.496	8.142	8.027	7.544	7.527	7.603	8.028
0.085	0.076	0.033	0.068	0.057	0.066	0.045	0.072
0	0.029	0	0	0.015	0	0.101	0
0.1	0.148	0.05	0.162	0.035	0.065	0.053	0.082
0.002	0	0	0.01	0.029	0	0.074	0.032
99.828	99.686	100.113	99.877	99.074	100.577	100.705	99.772
8.2431	8.1756	8.2696	8.29	8.214	8.0991	8.0729	8.1912
0	0.0027	0	0	0	0.0041	0	0
3.7425	3.8217	3.7338	3.7256	3.8085	3.8568	3.8645	3.809
0	0.0004	0.0016	0.0106	0.0019	0	0.0051	0
0.0002	0	0	0.001	0.0031	0	0.0079	0.0034
0.8	0.9067	0.7919	0.7618	0.8582	0.9389	0.9772	0.8303
0.002	0	0	0	0	0.003	0.0028	0.0009
0.0095	0.0131	0.0117	0	0.0044	0.0855	0.0644	0.0167
0	0.0015	0	0	0.0008	0	0.0052	0
0.0077	0.0115	0.0039	0.0125	0.0027	0.005	0.0041	0.0063
2.1463	1.942	2.0949	2.0685	1.9611	1.941	1.9611	2.0774
0.0145	0.013	0.0055	0.0115	0.0098	0.0113	0.0076	0.0122
14.9659	14.8881	14.9129	14.8815	14.8647	14.9446	14.9727	14.9474

IC07: BIOTITA

Comment	BIOT1_07A	BIOT1_07A	BIOT1_07A	BIOT2_07A	BIOT2_07A	BIOT3_07A	BIOT1_07C	BIOT2_07C	BIT3_07C_C1
MgO	11.508	11.558	11.704	12.313	11.661	11.92	11.414	12.574	11.753
SiO2	36.89	36.498	36.71	36.603	36.466	36.453	36.601	36.622	36.604
Al2O3	17.229	17.827	17.953	17.514	17.647	17.766	18.527	17.905	18.241
FeO	15.622	15.589	15.438	15.23	15.925	15.899	14.791	13.946	14.833
K2O	10.059	10.156	10.152	10.253	10.265	10.165	10.194	9.981	10.214
TiO2	2.532	2.515	2.401	1.48	2.231	1.859	2.589	1.967	2.453
Total	93.84	94.143	94.358	93.393	94.195	94.062	94.116	92.995	94.098
Si	2.805	2.768	2.773	2.950	2.771	3	2.762	2.785	2.766
Ti	0.145	0.143	0.136	0.085	0.128	0.106	0.147	0.113	0.139
Al	1.544	1.594	1.599	1.577	1.581	1.593	1.649	1.605	1.625
Cr	0	0	0	0	0	0	0.000	0.000	0.000
Fe3	0	0	0	0	0	0	0.000	0.000	0.000
Fe2	0.993	0.989	0.975	0.973	1.012	1.011	0.934	0.887	0.937
Mn	0	0	0	0	0	0	0.000	0.000	0.000
Mg	1.304	1.306	1.318	1.401	1.321	1.351	1.284	1.425	1.323
Ca	0	0	0	0	0	0	0.000	0.000	0.000
Na	0	0	0	0	0	0	0.000	0.000	0.000
K	0.976	0.983	0.978	0.999	0.995	0.986	0.982	0.968	0.985

IC07: MUSCOVITA

Comment	MUSC1_07	MUSC1_07	MUSC2_07	MUSC2_07	MUSC3_07	MUSC1_07	MUSC2_07	MUSC3_07C_C1
MgO	0.89	0.782	1.075	0.835	1.005	0.988	0.859	0.92
SiO2	46.431	46.563	46.568	46.703	46.434	46.778	46.594	46.503
Al2O3	33.306	33.116	33.079	33.541	32.945	33.241	33.544	33.198
FeO	1.517	1.464	1.569	1.571	1.637	1.253	1.087	1.231
K2O	10.392	10.495	10.292	10.224	10.42	9.671	10.101	10.525
TiO2	0.869	0.917	1.001	0.827	1.083	0.883	0.752	1.01
Total	93.405	93.337	93.584	93.701	93.524	92.814	92.937	93.387
Si	3.147	3.159	3.150	3.151	3.148	3.169	3.159	3.151
Ti	0.044	0.047	0.051	0.042	0.055	0.045	0.038	0.051
Al	2.661	2.648	2.638	2.668	2.633	2.655	2.681	2.652
Cr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fe3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fe2	0.086	0.083	0.089	0.089	0.093	0.071	0.062	0.070
Mn	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mg	0.090	0.079	0.108	0.084	0.102	0.100	0.087	0.093
Ca	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Na	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
K	0.899	0.908	0.888	0.880	0.901	0.836	0.874	0.910

IC07: GRANADA

Comment	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	GRAN_07A	
SiO2	37.407	37	37.241	37.185	37.143	37.26	37.386	37.262	37.097	37.006	37.328	37.112	37.051	37.235	37.158	37.201	36.934	37.145	37.396	37.247
MgO	4.069	4.127	4.474	4.367	4.491	4.286	4.379	4.326	4.267	3.852	4.168	4.268	3.869	4.067	4.209	4.065	3.756	4.215	4.442	4.447
Al2O3	20.643	20.786	20.708	20.652	20.5	20.952	20.732	20.708	20.724	20.935	20.835	20.733	20.835	20.738	20.919	20.797	20.738	20.598	20.914	20.749
FeO	33.162	33.301	32.992	32.405	33.05	33.018	32.771	32.133	32.933	33.098	33.005	32.677	33.433	33.161	32.363	33.229	33.222	32.982	31.819	32.346
CaO	3.233	3.228	3.188	3.458	3.121	3.155	3.455	3.26	3.294	3.076	3.142	3.109	3.041	3.225	3.025	3.247	3.073	3.349	3.32	3.452
TiO2	0.012	0	0.013	0.037	0	0.006	0.02	0.041	0.017	0	0	0.019	0.003	0.052	0.025	0	0.023	0.03	0.025	0.025
MnO	1.844	1.876	1.972	2.038	1.983	1.944	1.998	2.042	1.921	2.075	1.978	1.967	2.099	1.879	2.022	1.887	2.247	2.004	2.084	2.039
Cr2O3	0.013	0	0	0.039	0.07	0.008	0.027	0.027	0.042	0.014	0.02	0.038	0.007	0	0	0.016	0.004	0.016	0	0.044
Total	100.383	100.318	100.588	100.181	100.358	100.629	100.768	99.799	100.295	100.056	100.476	99.923	100.338	100.357	99.721	100.442	99.997	100.339	100	100.349
SiO2	2.975	2.923	2.929	2.933	2.93	2.927	2.933	2.944	2.927	2.928	2.937	2.934	2.928	2.936	2.938	2.932	2.93	2.932	2.943	2.931
TiO2	0.001	0	0.001	0.002	0	0	0.001	0.002	0.001	0	0	0.001	0	0.003	0.001	0	0.001	0.002	0.001	0.001
Al2O3	1.936	1.936	1.92	1.92	1.907	1.941	1.918	1.929	1.928	1.953	1.933	1.933	1.941	1.928	1.95	1.933	1.939	1.917	1.94	1.925
Cr2O3	0.001	0	0	0.002	0.004	0	0.002	0.002	0.003	0.001	0.001	0.002	0	0	0	0.001	0	0.001	0	0.003
Fe2O3	0.112	0.112	0.111	0.111	0.111	0.111	0.111	0.112	0.111	0.112	0.111	0.112	0.112	0.111	0.112	0.111	0.112	0.111	0.111	0.111
FeO	2.094	2.2	2.17	2.137	2.181	2.17	2.15	2.123	2.173	2.19	2.172	2.161	2.21	2.187	2.14	2.19	2.204	2.177	2.094	2.129
MnO	0.124	0.126	0.131	0.136	0.133	0.129	0.133	0.137	0.128	0.139	0.132	0.132	0.141	0.126	0.135	0.126	0.151	0.134	0.139	0.136
MgO	0.482	0.486	0.524	0.513	0.528	0.502	0.512	0.509	0.502	0.454	0.489	0.503	0.456	0.478	0.496	0.478	0.444	0.496	0.521	0.522
CaO	0.276	0.273	0.269	0.292	0.264	0.266	0.29	0.276	0.278	0.261	0.265	0.263	0.258	0.272	0.256	0.274	0.261	0.283	0.28	0.291
Na2O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
K2O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

[illegible]

GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07
37.313	37.528	37.211	37.134	37.409	37.738	37.332	36.98	37.211	37.287	37.157	36.917	37.071	36.987	37.156	37.396	37.26	37.004	37.384	37.068	37.092
4.184	3.946	3.788	3.464	4.2	4.33	4.147	3.567	3.928	3.917	3.954	3.984	3.824	3.335	3.664	4.083	4.238	4.233	4.065	4.164	4.098
20.762	20.842	20.875	20.781	20.608	20.57	20.858	20.971	20.843	20.714	20.739	20.641	20.867	20.607	20.77	20.542	20.622	20.606	21.049	20.65	20.662
32.775	33.218	33.456	34.344	31.951	32.365	32.835	33.8	33.592	33.054	33.174	33.556	33.039	34.5	33.422	33.306	32.922	33.067	32.218	32.636	33.152
3.469	3.007	3.2	3.219	4.318	3.602	3.893	3.19	3.415	3.553	3.39	3.426	3.59	3.12	3.423	3.577	3.854	3.81	4.648	3.83	3.538
0.014	0.031	0	0.012	0.051	0.009	0.016	0	0.015	0.025	0.023	0	0	0	0	0.004	0.013	0.015	0.015	0.04	0
2.163	1.988	2.105	2.171	2.165	2.219	1.94	2.326	2.128	2.005	2.022	2.08	2.124	2.422	2.06	2.222	2.118	2.181	2.076	2.019	1.972
0	0.006	0.017	0.002	0.034	0.048	0.008	0	0.004	0.036	0.037	0.017	0.005	0	0.013	0	0.011	0	0.001	0.055	0
100.68	100.566	100.652	101.127	100.736	100.881	101.029	100.834	101.136	100.591	100.496	100.621	100.52	100.971	100.508	101.13	101.038	100.916	101.456	100.462	100.514
2.933	2.95	2.932	2.925	2.935	2.954	2.925	2.917	2.922	2.936	2.93	2.916	2.924	2.925	2.933	2.935	2.924	2.912	2.915	2.922	2.926
0.001	0.002	0	0.001	0.003	0.001	0.001	0	0.001	0.001	0.001	0	0	0	0	0	0.001	0.001	0.001	0.002	0
1.924	1.932	1.939	1.93	1.906	1.898	1.927	1.95	1.929	1.923	1.928	1.922	1.94	1.921	1.933	1.901	1.908	1.912	1.935	1.919	1.921
0	0	0.001	0	0.002	0.003	0	0	0	0.002	0.002	0.001	0	0	0.001	0	0.001	0	0	0.003	0
0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.112	0.111	0.112	0.111	0.111	0.111	0.111	0.11	0.111	0.111
2.154	2.184	2.204	2.263	2.097	2.119	2.152	2.23	2.206	2.177	2.188	2.217	2.179	2.282	2.207	2.186	2.161	2.176	2.101	2.152	2.187
0.144	0.132	0.14	0.145	0.144	0.147	0.129	0.155	0.142	0.134	0.135	0.139	0.142	0.162	0.138	0.148	0.141	0.145	0.137	0.135	0.132
0.49	0.462	0.445	0.407	0.491	0.505	0.484	0.419	0.46	0.46	0.465	0.469	0.449	0.393	0.431	0.478	0.496	0.496	0.472	0.489	0.482
0.292	0.253	0.27	0.272	0.363	0.302	0.327	0.27	0.287	0.3	0.286	0.29	0.303	0.264	0.29	0.301	0.324	0.321	0.388	0.324	0.299
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GRAN2_07	GRAN2_07	GRAN3_07	GRAN3_07	GRAN3_07	GRAN3_07	GRAN3_07	GRAN3_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07	GRAN4_07
37.212	37.198	37.089	37.149	37.39	37.131	37.148	37.058	37.058	37.251	37.308	37.284	37.246	37.304	37.524	37.147	37.196	36.993	37.335	37.186	36.772
3.869	3.515	3.71	3.882	3.739	3.628	3.971	3.612	3.5	4.044	3.562	3.814	3.513	3.127	3.491	3.728	4.01	3.898	3.36	3.792	3.65
20.647	20.638	20.413	20.712	20.464	20.74	20.639	20.733	20.872	21.016	20.74	20.654	20.802	20.445	20.537	20.464	20.733	20.843	20.607	21.089	20.931
33.802	32.842	32.82	31.825	31.589	32.249	33.37	33.976	34.29	33.393	31.257	31.917	32.373	32.032	31.554	33.914	33.312	33.404	32.131	33.654	34.061
3.28	3.28	3.414	5.31	5.543	5.408	3.896	3.234	2.996	3.267	5.563	4.34	5.004	6.037	5.865	3.282	3.947	3.42	5.744	3.367	3.387
0.009	0.002	0.017	0.004	0.081	0.06	0.026	0.003	0.018	0	0.047	0.028	0.011	0	0.033	0.017	0.027	0.018	0.048	0.03	0.035
2.044	2.306	2.115	2.028	2.05	1.916	1.849	2.199	2.356	1.913	2.284	2.331	2.462	2.157	1.904	2.171	1.947	2.003	1.979	2.113	2.195
0.029	0.044	0.007	0	0.007	0	0.021	0.018	0.003	0.032	0.027	0.024	0	0.018	0.024	0.017	0.042	0.014	0.015	0	0.008
100.892	99.825	99.585	100.91	100.863	101.132	100.92	100.833	101.093	100.916	100.788	100.392	101.411	101.12	100.932	100.74	101.214	100.593	101.219	101.231	101.039
2.93	2.951	2.95	2.916	2.935	2.913	2.922	2.925	2.92	2.924	2.929	2.938	2.918	2.933	2.942	2.934	2.918	2.918	2.928	2.916	2.9
0.001	0	0.001	0	0.005	0.004	0.002	0	0.001	0	0.003	0.002	0.001	0	0.002	0.001	0.002	0.001	0.003	0.002	0.002
1.917	1.931	1.914	1.917	1.894	1.918	1.914	1.929	1.939	1.945	1.92	1.919	1.921	1.895	1.898	1.906	1.917	1.938	1.905	1.95	1.946
0.002	0.003	0	0	0	0	0.001	0.001	0	0.002	0.002	0.001	0	0.001	0.001	0.001	0.003	0.001	0.001	0	0
0.111	0.112	0.112	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.112	0.111	0.111	0.111	0.111	0.111
2.226	2.179	2.183	2.089	2.074	2.116	2.195	2.243	2.26	2.192	2.052	2.103	2.121	2.106	2.069	2.24	2.185	2.204	2.107	2.207	2.247
0.136	0.155	0.143	0.135	0.136	0.127	0.123	0.147	0.157	0.127	0.152	0.156	0.163	0.144	0.126	0.145	0.129	0.134	0.131	0.14	0.147
0.454	0.416	0.44	0.454	0.437	0.424	0.466	0.425	0.411	0.473	0.417	0.448	0.41	0.366	0.408	0.439	0.469	0.458	0.393	0.443	0.429
0.277	0.279	0.291	0.447	0.466	0.455	0.328	0.273	0.253	0.275	0.468	0.366	0.42	0.509	0.493	0.278	0.332	0.289	0.483	0.283	0.286
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07
	37.163	36.909	37.038	37.174	37.301	37.232	37.247	37.082	37.025	37.047	37.223	37.313	37.102	36.918	37.203	37.155	37.016	37.274	36.899	36.934	36.987
	3.606	4.016	3.988	4.117	4.515	4.346	4.209	4.108	3.834	3.661	4.118	4.297	4.154	3.816	4.293	4.003	3.466	4.116	3.948	3.802	3.877
	20.664	21.036	20.964	20.793	20.79	20.992	20.946	20.783	20.697	20.989	21.051	21.124	21.166	20.664	20.857	20.945	20.694	20.769	20.807	20.615	20.835
	34.637	34.214	34.036	33.881	33.494	33.43	33.85	34.189	34.093	34	34.124	33.103	33.886	34.278	33.417	34.358	34.698	33.648	33.684	34.063	34.058
	2.751	2.845	2.786	2.778	2.95	2.788	2.747	2.772	2.78	2.777	2.801	2.901	2.841	2.794	2.887	2.798	2.842	2.824	2.865	2.766	2.797
	0	0.006	0	0	0.004	0.017	0.012	0.031	0.023	0	0.005	0.006	0.027	0	0.008	0.008	0	0.011	0.023	0.004	0.019
	2.266	2.013	1.961	1.866	1.706	1.751	1.794	1.888	2.01	2.178	1.946	1.711	1.819	2.034	1.746	1.99	2.366	1.726	2.005	1.912	2.036
	0.006	0	0.022	0	0.008	0	0.002	0.005	0.02	0.026	0.005	0	0.016	0	0.028	0	0.023	0.025	0.017	0	0.029
	101.093	101.039	100.795	100.609	100.768	100.556	100.807	100.858	100.482	100.678	101.273	100.455	101.011	100.504	100.439	101.257	101.105	100.393	100.248	100.096	100.638
	2.951	2.886	2.899	2.911	2.91	2.909	2.909	2.902	2.91	2.905	2.899	2.913	2.893	2.905	2.912	2.899	2.904	2.92	2.903	2.913	2.902
	0	0	0	0	0	0.001	0.001	0.002	0.001	0	0	0	0.002	0	0	0	0	0.001	0.001	0	0.001
	1.935	1.939	1.935	1.92	1.912	1.934	1.928	1.918	1.918	1.94	1.933	1.944	1.946	1.917	1.924	1.926	1.914	1.918	1.93	1.917	1.927
	0	0	0.001	0	0	0	0	0	0.001	0.002	0	0	0.001	0	0.002	0	0.001	0.002	0.001	0	0.002
	0.162	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.161	0.161	0.16	0.16	0.16	0.161	0.16	0.16	0.161	0.161	0.161	0.162	0.161
	2.138	2.238	2.228	2.219	2.186	2.184	2.211	2.238	2.241	2.23	2.223	2.161	2.21	2.255	2.187	2.242	2.277	2.205	2.216	2.247	2.235
	0.152	0.133	0.13	0.124	0.113	0.116	0.119	0.125	0.134	0.145	0.128	0.113	0.12	0.136	0.116	0.132	0.157	0.115	0.134	0.128	0.135
	0.427	0.468	0.465	0.481	0.525	0.506	0.49	0.479	0.449	0.428	0.478	0.5	0.483	0.447	0.501	0.465	0.405	0.481	0.463	0.447	0.453
	0.234	0.238	0.234	0.233	0.247	0.233	0.23	0.232	0.234	0.233	0.234	0.243	0.237	0.236	0.242	0.234	0.239	0.237	0.241	0.234	0.235
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07
	37.146	37.211	37.058	36.965	37.223	37.068	36.848	37.053	37.472	37.205	37.264	37.169	36.952	37.027	37.166	37.316	37.178	37.077	37.571	37.275	37.306
	3.41	3.725	3.78	2.952	4.113	4.17	3.647	4.047	4.351	4.409	4.27	4.233	3.611	3.556	4.354	3.96	3.92	4.036	4.583	4.444	4.212
	20.805	20.921	20.953	20.534	20.803	21.006	20.663	20.843	21.035	20.784	20.935	20.901	20.831	21.007	20.884	20.904	20.748	20.851	21.159	20.611	20.89
	35.024	34.632	34.352	34.87	34.061	33.892	34.788	34.165	33.989	33.627	33.625	33.718	34.45	33.818	34.445	34.415	34.011	34.112	33.561	33.481	33.686
	2.919	2.911	2.782	3.056	3.229	3.229	2.904	3.143	3.405	3.321	3.281	2.874	2.781	2.958	2.863	2.868	2.85	2.878	2.793	2.825	2.807
	0.003	0.003	0	0.03	0.029	0.027	0.026	0	0.011	0.008	0.001	0	0	0.033	0	0.009	0	0.028	0.017	0	0
	2.302	2.094	2.257	2.487	1.695	1.65	2.118	1.701	1.482	1.553	1.514	1.633	2.244	2.354	1.818	2.167	2.121	2.012	1.899	1.777	1.841
	0.024	0.004	0.009	0	0.005	0.023	0	0.038	0.041	0.029	0.021	0.066	0.031	0	0	0	0.05	0	0.079	0.119	0.025
	101.633	101.501	101.191	100.894	101.158	101.065	100.994	100.99	101.786	100.936	100.911	100.594	100.9	100.753	101.53	101.639	100.878	100.994	101.662	100.532	100.767
	2.901	2.901	2.897	2.912	2.903	2.891	2.894	2.897	2.899	2.902	2.905	2.907	2.9	2.903	2.892	2.903	2.91	2.899	2.904	2.916	2.913
	0	0	0	0.002	0.002	0.002	0.002	0	0.001	0	0	0	0	0.002	0	0.001	0	0.002	0.001	0	0
	1.916	1.923	1.931	1.907	1.913	1.932	1.913	1.921	1.919	1.911	1.924	1.927	1.927	1.942	1.916	1.917	1.915	1.922	1.928	1.901	1.923
	0.001	0	0.001	0	0	0.001	0	0.002	0.003	0.002	0.001	0.004	0.002	0	0	0	0.003	0	0.005	0.007	0.002
	0.16	0.16	0.16	0.161	0.16	0.16	0.161	0.16	0.159	0.16	0.16	0.16	0.161	0.161	0.159	0.159	0.16	0.16	0.158	0.16	0.16
	2.288	2.258	2.246	2.298	2.222	2.211	2.285	2.234	2.199	2.194	2.192	2.206	2.261	2.217	2.241	2.239	2.226	2.231	2.169	2.191	2.2
	0.152	0.138	0.149	0.166	0.112	0.109	0.141	0.113	0.097	0.103	0.1	0.108	0.149	0.156	0.12	0.143	0.141	0.133	0.124	0.118	0.122
	0.397	0.433	0.44	0.347	0.478	0.485	0.427	0.472	0.502	0.513	0.496	0.493	0.422	0.415	0.505	0.459	0.457	0.47	0.528	0.518	0.49
	0.244	0.243	0.233	0.258	0.27	0.27	0.244	0.263	0.282	0.278	0.274	0.241	0.234	0.248	0.239	0.239	0.239	0.241	0.231	0.237	0.235
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07
36.954	37.334	37.16	37.318	36.989	37.183	37.267	37.237	37.057	37.395	36.98	37.234	37.175	37.295	37.202	37.277	37.254	36.945	37.219	37.192	37.182	
3.479	3.892	4.235	4.134	3.939	4.444	4.594	4.387	3.769	4.209	4.564	4.165	4.081	4.447	4.102	4.101	4.054	3.733	4.322	3.988	4.061	
21.121	20.924	21.043	20.744	20.921	21.164	20.791	21.066	20.722	20.685	20.826	20.988	20.984	21.068	20.923	20.93	20.964	20.922	20.811	20.881	20.823	
34.501	33.945	34.291	34.167	33.713	33.792	33.406	33.833	33.641	33.7	33.716	33.871	33.696	33.454	34.387	32.928	33.385	33.884	33.762	34.363	33.673	
2.809	2.843	2.837	2.789	2.903	3.056	3.057	2.988	2.922	2.948	3.025	2.965	3.116	2.92	3.065	4.077	3.221	2.871	2.885	2.843	2.858	
0	0	0.01	0.014	0.017	0.014	0	0.021	0	0.001	0.017	0.007	0.015	0.004	0.011	0	0.009	0.007	0	0.029	0	
2.427	2.1	1.903	1.967	2.144	1.805	1.824	1.925	2.005	1.888	1.761	1.877	1.896	1.825	1.845	1.872	2.033	2.263	1.878	1.949	1.996	
0	0.014	0.015	0.222	0	0.03	0.016	0.043	0.013	0.058	0	0.062	0.024	0.014	0.028	0.034	0.014	0.022	0.044	0.035	0.02	
101.291	101.052	101.494	101.355	100.626	101.488	100.955	101.5	100.129	100.884	100.889	101.169	100.987	101.027	101.563	101.219	100.934	100.647	100.921	101.28	100.613	
2.89	2.913	2.89	2.907	2.9	2.886	2.904	2.891	2.917	2.919	2.889	2.901	2.901	2.902	2.894	2.899	2.906	2.9	2.905	2.901	2.911	
0	0	0.001	0.001	0.001	0.001	0	0.001	0	0	0.001	0	0.001	0	0.001	0	0.001	0	0	0.002	0	
1.947	1.925	1.93	1.905	1.934	1.937	1.91	1.928	1.923	1.904	1.918	1.928	1.93	1.933	1.919	1.919	1.928	1.936	1.915	1.92	1.922	
0	0.001	0.001	0.014	0	0.002	0.001	0.003	0.001	0.004	0	0.004	0.001	0.001	0.002	0.002	0.001	0.001	0.003	0.002	0.001	
0.16	0.16	0.159	0.16	0.161	0.159	0.16	0.159	0.161	0.16	0.16	0.16	0.16	0.159	0.159	0.159	0.16	0.161	0.16	0.16	0.16	
2.257	2.215	2.231	2.226	2.21	2.193	2.177	2.197	2.215	2.2	2.203	2.207	2.199	2.177	2.237	2.142	2.178	2.224	2.204	2.242	2.205	
0.161	0.139	0.125	0.13	0.142	0.119	0.12	0.127	0.134	0.125	0.117	0.124	0.125	0.12	0.122	0.123	0.134	0.15	0.124	0.129	0.132	
0.405	0.453	0.491	0.48	0.46	0.514	0.534	0.508	0.442	0.49	0.531	0.484	0.475	0.516	0.476	0.475	0.471	0.437	0.503	0.464	0.474	
0.235	0.238	0.236	0.233	0.244	0.254	0.255	0.249	0.246	0.247	0.253	0.247	0.261	0.243	0.256	0.34	0.269	0.241	0.241	0.238	0.24	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN2_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07
37.086	37.128	37.229	37.26	37.341	37.144	37.177	37.29	36.986	37.016	37.134	36.552	37.242	37.071	36.974	37.003	37.06	37.095	37.045	37.17	37.202
4.122	4.38	4.666	4.517	4.779	4.528	4.023	4.441	4.406	4.04	4.012	3.41	4.073	4.225	3.803	4.351	4.326	4.101	4.241	4.349	4.433
20.637	20.806	20.822	21.137	21.034	20.943	20.868	20.878	20.957	20.849	20.945	20.905	21.055	20.988	20.851	20.993	20.898	21.005	20.883	20.806	20.771
33.485	33.787	31.571	33.256	32.952	33.056	33.678	33.45	33.708	33.744	34.131	34.909	34.158	33.99	33.985	33.286	33.682	34.293	33.974	33.5	33.326
2.958	2.812	2.749	3.108	2.967	3.01	2.941	2.955	2.897	2.902	2.771	2.706	2.788	2.853	2.805	2.908	2.793	2.904	2.915	2.766	3
0.016	0	0.028	0.01	0	0	0.009	0.025	0	0	0	0.011	0.006	0	0.014	0.002	0.016	0.004	0	0	0.023
1.861	1.905	1.943	1.803	1.859	1.886	1.971	1.882	1.735	1.94	1.942	2.339	1.844	1.761	2.172	1.752	1.824	1.992	1.931	1.874	1.905
0	0.002	0.012	0	0.024	0.03	0.003	0.037	0.014	0.013	0.042	0.033	0.007	0.025	0	0.028	0.022	0	0.03	0.01	0.056
100.165	100.82	99.02	101.091	100.956	100.597	100.67	100.958	100.703	100.504	100.977	100.865	101.173	100.913	100.604	100.323	100.621	101.394	101.019	100.475	100.716
2.915	2.902	2.932	2.896	2.902	2.901	2.91	2.906	2.892	2.904	2.902	2.879	2.902	2.896	2.903	2.899	2.9	2.89	2.894	2.91	2.906
0.001	0	0.002	0.001	0	0	0.001	0.001	0	0	0	0.001	0	0	0.001	0	0.001	0	0	0	0.001
1.912	1.917	1.933	1.937	1.927	1.928	1.925	1.918	1.932	1.928	1.93	1.941	1.934	1.933	1.93	1.939	1.928	1.93	1.923	1.92	1.913
0	0	0.001	0	0.001	0.002	0	0.002	0.001	0.001	0.003	0.002	0	0.002	0	0.002	0.001	0	0.002	0.001	0.003
0.161	0.16	0.161	0.159	0.159	0.16	0.16	0.16	0.16	0.161	0.16	0.161	0.16	0.16	0.161	0.161	0.16	0.16	0.16	0.16	0.16
2.201	2.208	2.08	2.162	2.142	2.159	2.204	2.18	2.205	2.214	2.231	2.299	2.226	2.22	2.231	2.181	2.204	2.235	2.219	2.194	2.177
0.124	0.126	0.13	0.119	0.122	0.125	0.131	0.124	0.115	0.129	0.129	0.156	0.122	0.117	0.144	0.116	0.121	0.131	0.128	0.124	0.126
0.483	0.51	0.548	0.523	0.553	0.527	0.469	0.516	0.513	0.472	0.467	0.4	0.473	0.492	0.445	0.508	0.504	0.476	0.494	0.507	0.516
0.249	0.235	0.232	0.259	0.247	0.252	0.247	0.247	0.243	0.244	0.232	0.228	0.233	0.239	0.236	0.244	0.234	0.242	0.244	0.232	0.251
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07
37.12	37.195	36.954	37.099	37.199	37.093	36.893	37.217	36.941	37.12	36.909	37.021	37.009	37.091	37.249	36.878	37.253	24.641	37.373	37.134	37.055
4.102	3.944	3.775	4.024	4.117	3.635	3.552	4.393	3.883	4.425	4.194	4.11	4.39	4.33	4.435	4.401	4.261	2.949	4.323	4.443	4.445
20.823	20.817	21.041	21.111	20.822	21.003	20.972	20.64	21.149	20.782	21.023	20.9	20.732	20.856	20.839	20.92	20.998	14.277	20.873	20.96	20.766
33.811	33.901	33.644	33.7	34.025	34.447	34.173	33.473	34.198	33.601	33.76	34.033	32.374	32.643	32.311	32.251	31.916	22.157	32.913	32.863	32.747
2.923	2.739	2.892	2.679	2.893	2.791	2.828	2.876	2.812	2.8	2.81	2.821	3.907	3.868	4.596	3.964	4.531	2.653	3.78	3.236	3.409
0	0.007	0.013	0	0.019	0.028	0.008	0.013	0	0.018	0	0	0.009	0.015	0.001	0.012	0.012	33.753	0.023	0.023	0.012
1.926	2.013	2.151	2.068	1.868	2.368	2.172	1.819	2.004	1.775	1.91	1.951	1.536	1.381	1.18	1.363	0.96	1.074	1.574	1.727	1.745
0.048	0	0.035	0	0.041	0	0.028	0.018	0.003	0.042	0	0.026	0	0.04	0.027	0.001	0.028	0	0	0.063	0.011
100.753	100.616	100.505	100.681	100.984	101.365	100.626	100.449	100.99	100.563	100.606	100.862	99.957	100.224	100.638	99.79	99.959	101.504	100.859	100.449	100.19
2.905	2.914	2.9	2.902	2.905	2.897	2.899	2.915	2.889	2.905	2.891	2.897	2.944	2.903	2.901	2.895	2.912	1.906	2.909	2.901	2.903
0	0	0.001	0	0.001	0.002	0	0.001	0	0.001	0	0	0.001	0.001	0	0.001	0.001	1.964	0.001	0.001	0.001
1.921	1.923	1.946	1.947	1.917	1.934	1.943	1.906	1.95	1.917	1.942	1.928	1.944	1.924	1.913	1.936	1.935	1.302	1.915	1.93	1.918
0.003	0	0.002	0	0.003	0	0.002	0.001	0	0.003	0	0.002	0	0.002	0.002	0	0.002	0	0	0.004	0.001
0.16	0.161	0.161	0.16	0.16	0.16	0.161	0.16	0.16	0.16	0.161	0.16	0.166	0.164	0.163	0.164	0.164	0.162	0.163	0.164	0.164
2.213	2.221	2.208	2.205	2.222	2.25	2.245	2.193	2.237	2.199	2.212	2.227	1.988	2.136	2.105	2.118	2.086	1.434	2.142	2.147	2.146
0.128	0.134	0.143	0.137	0.124	0.157	0.145	0.121	0.133	0.118	0.127	0.129	0.104	0.092	0.078	0.091	0.064	0.07	0.104	0.114	0.116
0.478	0.461	0.441	0.469	0.479	0.423	0.416	0.513	0.453	0.516	0.49	0.479	0.52	0.505	0.515	0.515	0.496	0.34	0.501	0.517	0.519
0.245	0.23	0.243	0.225	0.242	0.234	0.238	0.241	0.236	0.235	0.236	0.237	0.333	0.324	0.384	0.333	0.379	0.22	0.315	0.271	0.286
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07
37.074	36.756	36.908	36.805	36.903	36.914	37.018	36.774	36.949	36.907	37.26	37.182	37.224	37.484	37.422	36.734	37.045	37.312	37.077	37.237	37.196
4.556	3.946	3.495	3.357	3.939	4.045	4.182	3.887	3.538	3.797	4.252	4.524	4.577	4.579	4.564	3.577	4.61	4.268	4.019	4.143	4.379
20.827	20.877	20.617	20.586	20.62	20.821	20.661	20.646	20.953	21.009	20.793	20.897	20.777	20.786	20.944	20.549	20.664	21.175	20.998	20.827	20.774
32.476	33.148	33.483	34.195	33.832	33.895	33.331	33.477	34.346	33.859	33.328	33.709	33.48	33.253	32.878	34.745	33.606	33.271	33.889	34.204	33.503
3.494	3.003	2.929	3.093	3.008	3.126	3.261	2.994	2.845	2.824	3.022	2.986	2.841	2.858	3.02	2.954	2.795	2.825	2.836	2.859	3.148
0	0.005	0.015	0.022	0.009	0.017	0.005	0.018	0.023	0	0	0.012	0.012	0.012	0.016	0.014	0.027	0.01	0	0	0.024
1.631	1.985	2.372	2.34	1.99	1.812	1.706	1.863	2.268	2.152	1.646	1.723	1.728	1.688	1.599	1.763	1.709	1.879	2.042	2.053	1.701
0.024	0.032	0.025	0.032	0.06	0.014	0.024	0.014	0	0.021	0.017	0.006	0	0.025	0.027	0.02	0.057	0	0.021	0.043	0.015
100.082	99.752	99.844	100.43	100.361	100.644	100.188	99.673	100.922	100.569	100.318	101.039	100.639	100.685	100.47	100.356	100.513	100.74	100.882	101.366	100.74
2.904	2.9	2.917	2.903	2.903	2.894	2.907	2.907	2.937	2.898	2.919	2.898	2.909	2.923	2.919	2.902	2.902	2.909	2.9	2.903	2.907
0	0	0.001	0.001	0.001	0.001	0	0.001	0.001	0	0	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0	0	0.001
1.923	1.942	1.921	1.914	1.912	1.924	1.913	1.924	1.964	1.945	1.921	1.92	1.914	1.911	1.926	1.914	1.909	1.947	1.936	1.914	1.914
0.001	0.002	0.002	0.002	0.004	0.001	0.001	0.001	0	0.001	0.001	0	0	0.002	0.002	0.001	0.004	0	0.001	0.003	0.001
0.164	0.165	0.165	0.165	0.165	0.164	0.164	0.165	0.159	0.157	0.157	0.156	0.157	0.156	0.156	0.158	0.157	0.156	0.157	0.156	0.157
2.127	2.187	2.213	2.256	2.225	2.222	2.189	2.213	2.124	2.224	2.184	2.198	2.188	2.168	2.145	2.296	2.202	2.17	2.217	2.23	2.19
0.108	0.133	0.159	0.156	0.133	0.12	0.113	0.125	0.153	0.143	0.109	0.114	0.114	0.111	0.106	0.118	0.113	0.124	0.135	0.136	0.113
0.532	0.464	0.412	0.395	0.462	0.473	0.489	0.458	0.419	0.444	0.496	0.526	0.533	0.532	0.531	0.421	0.538	0.496	0.468	0.481	0.51
0.293	0.254	0.248	0.261	0.254	0.263	0.274	0.254	0.242	0.238	0.254	0.249	0.238	0.239	0.252	0.25	0.235	0.236	0.238	0.239	0.264
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07	GRAN1_07
37.044	36.676	36.991	37.188	37.114	36.861	37.297	37.318	37.322	37.414	37.459	37.364	37.34	37.274	37.037	37.157	37.18	36.859	37.043	36.934	37.109
4.428	3.384	3.191	4.236	3.737	4.444	4.393	4.623	4.749	4.738	4.815	4.645	4.5	4.703	3.963	4.411	4.23	3.736	4.487	4.389	4.162
20.699	21.995	20.847	21.106	20.731	20.858	20.762	21.053	20.993	20.943	21.258	20.939	20.923	20.945	20.767	20.92	20.873	20.984	20.835	20.935	21.079
33.379	33.041	34.639	33.936	33.614	33.156	33.457	32.843	33.201	32.782	33.151	33.679	33.404	32.234	34.27	33.641	33.748	33.97	32.693	33.305	33.997
3.121	2.755	2.73	2.818	3.013	3.344	3.148	3.213	3.23	3.319	3.07	2.938	3.01	3.027	2.916	2.792	3.303	2.936	3.11	3.018	2.991
0.014	0.03	0	0	0.009	0.038	0.013	0.004	0.007	0.006	0	0.028	0.014	0.029	0.01	0	0	0.015	0.014	0.016	0
1.748	2.138	2.546	1.948	2.22	1.587	1.659	1.609	1.569	1.667	1.661	1.701	1.673	1.691	1.854	1.903	1.727	2.247	1.714	1.638	1.885
0.037	0	0	0.038	0.009	0	0	0.042	0.013	0.001	0.047	0.033	0.023	0.007	0.023	0.034	0.001	0.014	0.034	0.027	0
100.47	100.019	100.944	101.27	100.447	100.288	100.729	100.705	101.084	100.87	101.461	101.327	100.887	99.91	100.84	100.858	101.062	100.761	99.93	100.262	101.223
2.903	2.881	2.908	2.896	2.916	2.892	2.913	2.906	2.9	2.909	2.897	2.902	2.909	2.918	2.903	2.902	2.901	2.893	2.909	2.897	2.893
0.001	0.002	0	0	0.001	0.002	0.001	0	0	0	0	0.002	0.001	0.002	0.001	0	0	0.001	0.001	0.001	0
1.913	2.037	1.932	1.937	1.921	1.929	1.912	1.933	1.923	1.92	1.938	1.917	1.922	1.933	1.919	1.926	1.92	1.942	1.929	1.936	1.937
0.002	0	0	0.002	0.001	0	0	0.003	0.001	0	0.003	0.002	0.001	0	0.001	0.002	0	0.001	0.002	0.002	0
0.157	0.157	0.157	0.156	0.157	0.157	0.156	0.156	0.156	0.156	0.155	0.156	0.156	0.157	0.157	0.156	0.156	0.157	0.157	0.157	0.156
2.188	2.171	2.277	2.21	2.209	2.176	2.185	2.139	2.158	2.132	2.144	2.187	2.177	2.11	2.246	2.197	2.202	2.23	2.147	2.185	2.216
0.116	0.142	0.17	0.128	0.148	0.105	0.11	0.106	0.103	0.11	0.109	0.112	0.11	0.112	0.123	0.126	0.114	0.149	0.114	0.109	0.124
0.517	0.396	0.374	0.492	0.438	0.52	0.511	0.537	0.55	0.549	0.555	0.538	0.523	0.549	0.463	0.513	0.492	0.437	0.525	0.513	0.484
0.262	0.232	0.23	0.235	0.254	0.281	0.263	0.268	0.269	0.277	0.254	0.244	0.251	0.254	0.245	0.234	0.276	0.247	0.262	0.254	0.25
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

[illegible]

IC07: PLAGIOCLÁSIO

Comment	PLA1_IC07I	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07I	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07
Na2O	7.522	7.684	7.711	7.674	7.535	7.565	7.649	7.532	7.48	7.577	7.718	7.402	7.714	7.652	7.699	7.519	7.511	7.602	7.578	7.522
SiO2	59.772	60.106	60.198	60.427	60.148	60.484	60.078	60.114	60.205	59.733	60.508	60.363	60.565	60.252	60.171	60.003	60.144	59.938	60.327	60
Al2O3	24.93	25.078	25.041	24.941	25.052	25.148	25.164	25.014	25.115	25.213	25.05	25.094	25.125	25.12	24.941	24.92	25.02	25.096	25.204	25.221
CaO	6.201	6.275	6.209	6.295	6.229	6.351	6.221	6.423	6.286	6.218	6.242	6.222	6.16	6.082	5.984	6.054	6.207	6.305	6.266	6.265
K2O	0.077	0.065	0.068	0.086	0.067	0.091	0.086	0.078	0.066	0.103	0.115	0.148	0.16	0.176	0.163	0.175	0.141	0.129	0.105	0.085
FeO	0.125	0.113	0.039	0.024	0.049	0.067	0.013	0.028	0.036	0	0.075	0.061	0.047	0.058	0.038	0	0.05	0.065	0.053	0.053
Total	98.627	99.321	99.266	99.447	99.08	99.706	99.211	99.189	99.188	98.844	99.708	99.29	99.771	99.34	98.996	98.671	99.073	99.135	99.533	99.146

Si	2.69	2.686	2.692	2.697	2.693	2.693	2.688	2.691	2.692	2.683	2.695	2.696	2.695	2.692	2.697	2.697	2.694	2.686	2.69	2.686
Ti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Al	1.323	1.321	1.32	1.313	1.322	1.32	1.327	1.32	1.324	1,335	1.315	1.322	1.318	1.323	1.318	1.321	1.321	1.326	1.325	1.331
Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fe3	0.005	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fe2	0	0.004	0.001	0.001	0.002	0.002	0	0.001	0.001	0	0.003	0.002	0.002	0.002	0.001	0	0.002	0.002	0.002	0.002
Mn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ca	0.299	0.3	0.298	0.301	0.299	0.303	0.298	0.308	0.301	0.299	0.298	0.298	0.294	0.291	0.287	0.292	0.298	0.303	0.299	0.301
Na	0.656	0.666	0.669	0.664	0.654	0.653	0.664	0.654	0.649	0.66	0.667	0.641	0.666	0.663	0.669	0.655	0.652	0.661	0.655	0.653
K	0.004	0.004	0.004	0.005	0.004	0.005	0.005	0.004	0.004	0.006	0.007	0.008	0.009	0.01	0.009	0.01	0.008	0.007	0.006	0.005

Sample	PLA1_IC07I	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07I	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA3_IC07I	PLA3_IC07
SiO2	59.35	58.32	58.24	58.34	59.46	59.67	59.43	59.74	59.03	59.57	59.43	59.8	58.96	56.14	57.46	57.71	56.6	58.59	59.04	58.87	
TiO2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Al2O3	25.87	26.37	26.55	26.49	25.87	25.59	25.77	26.03	25.84	25.93	25.67	25.42	26.23	28.3	27.26	27.02	27.66	26.53	26	26.17	
Cr2O3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fe2O3	0.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FeO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MnO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MgO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CaO	6.79	7.39	7.71	7.78	7.08	6.74	6.89	6.98	7.01	6.76	6.59	6.36	7.31	9.5	8.46	8.21	9.23	7.63	7.29	7.21	
Na2O	7.3	6.92	6.74	6.9	7.13	7.4	7.34	7.36	7.23	7.19	7.39	7.52	7	5.82	6.61	6.46	6	6.87	7.13	7.12	
K2O	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.06	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.04	0.05	
Totals	100.1	99.03	99.3	99.55	99.58	99.45	99.48	100.16	99.14	99.5	99.14	99.13	99.53	99.79	99.84	99.44	99.54	99.68	99.5	99.41	

Si	2.642	2.606	2.609	2.609	2.649	2.658	2.652	2.649	2.644	2.654	2.658	2.668	2.618	2.514	2.567	2.583	2.543	2.615		2.636	2.627
Ti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Al	1.358	1.389	1.402	1.397	1.358	1.344	1.356	1.361	1.364	1.362	1.353	1.337	1.374	1.494	1.435	1.426	1.465	1.396		1.369	1.377
Cr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Fe3	0.025	0.025	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Fe2	0	0.012	0.014	0.015	0.018	0.025	0.015	0.013	0.014	0.013	0.016	0.028	0.053	0.02	0.021	0.02	0.011	0.012		0.017	0.026
Mn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Mg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Ca	0.324	0.354	0.37	0.373	0.338	0.322	0.329	0.332	0.336	0.323	0.316	0.304	0.348	0.456	0.405	0.394	0.444	0.365		0.349	0.345
Na	0.63	0.599	0.586	0.598	0.616	0.639	0.635	0.632	0.628	0.622	0.641	0.651	0.603	0.506	0.573	0.561	0.522	0.595		0.617	0.616
K	0.002	0.002	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.001	0.002	0.002	0.002	0.003	0.003	0.003		0.002	0.003

Sum	4.982	4.982	4.979	4.988	4.975	4.981	4.983	4.984	4.984	4.971	4.981	4.979	4.977	4.985	4.995	4.978	4.983	4.981		4.983	4.984
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PLA2_IC07	PLA2_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07
7.457	7.495	7.638	7.653	7.43	7.425	7.614	7.743	7.574	7.782	7.535	7.633	7.412	7.512	7.687	7.351	7.615	7.462	7.62	7.711	7.552	
60.153	59.829	60.419	60.1	60.09	59.801	59.73	60.58	60.043	60.858	60.221	60.492	59.91	60.208	60.009	59.076	60.262	60.403	60.425	59.683	60.018	
24.961	25.14	25.106	25.015	25.122	25.25	25.414	25.242	25.076	24.669	25.217	25.176	25.204	25.006	25.379	24.507	24.998	24.987	25.017	25.018	25.278	
6.267	6.295	6.288	6.454	6.327	6.343	6.433	6.411	6.365	6.165	6.596	6.309	6.61	6.429	6.226	5.848	6.101	6.101	6.192	6.186	6.259	
0.08	0.065	0.066	0.081	0.072	0.09	0.063	0.065	0.065	0.194	0.139	0.046	0.068	0.078	0.047	0.062	0.071	0.086	0.088	0.099	0.088	
0.077	0.165	0.314	0.133	0.127	0.074	0.38	0.293	0.291	0.411	0.179	0.175	0.251	0.43	0.268	0.063	0.008	0.016	0.051	0.037	0.037	
98.995	98.989	99.831	99.436	99.168	98.983	99.634	100.334	99.414	100.079	99.887	99.831	99.455	99.663	99.616	96.907	99.055	99.055	99.393	98.734	99.232	
2.696	2.684	2.69	2.687	2.689	2.682	2.669	2.686	2.685	2.705	2.682	2.691	2.679	2.688	2.678	2.701	2.698	2.702	2.697	2.685	2.685	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.319	1.33	1.318	1.319	1.326	1.335	1.339	1.319	1.322	1.293	1.324	1.32	1.329	1.316	1.335	1.321	1.319	1.318	1.317	1.327	1.333	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.003	0.006	0.012	0.005	0.005	0.003	0.014	0.011	0.011	0.015	0.007	0.007	0.009	0.016	0.01	0.002	0	0.001	0.002	0.001	0.001	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0.301	0.303	0.3	0.309	0.303	0.305	0.308	0.305	0.305	0.294	0.315	0.301	0.317	0.308	0.298	0.286	0.293	0.292	0.296	0.298	0.3	
0.648	0.652	0.659	0.663	0.645	0.646	0.66	0.666	0.657	0.671	0.651	0.658	0.643	0.65	0.665	0.652	0.661	0.647	0.66	0.673	0.655	
0.005	0.004	0.004	0.005	0.004	0.005	0.004	0.004	0.004	0.011	0.008	0.003	0.004	0.004	0.003	0.004	0.004	0.005	0.005	0.006	0.005	

PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA3_IC07
59.09	58.89	58.82	60.28	60.32	61.11	60.81	60.85	64.12	62.97	59.11	59.7	59.95	59.29	59.23	59.96	60.35	60.33	60.54	60.42	60.76
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	25.94	26.36	25.02	25.03	25.27	24.98	24.75	22.9	23.55	26.27	25.31	25.13	25.39	25.74	25.22	25.2	25.21	25.08	25.23	24.8
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.21	6.81	7.41	5.95	6.04	5.47	5.82	5.64	3.48	4.11	6.98	6.05	6.24	6.54	7.04	6.14	6.17	6.04	6.05	6.12	5.58
7.23	7.2	7.09	7.88	7.69	7.35	7.79	7.98	9.15	8.92	7.26	7.37	7.67	7.37	7.19	7.68	7.75	7.71	7.8	7.81	8.05
0.05	0.06	0.04	0	0.04	0.16	0.07	0.04	0.05	0.06	0.06	0	0	0	0	0	0	0	0	0	0
99.59	98.91	99.72	99.13	99.12	99.37	99.47	99.27	99.71	99.61	99.68	98.43	98.99	98.59	99.2	99	99.46	99.29	99.47	99.59	99.19
2.636	2.638	2.618	2.692	2.696	2.709	2.7	2.712	2.822	2.784	2.631	2.684	2.686	2.669	2.653	2.681	2.685	2.692	2.696	2.683	2.71
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.367	1.369	1.383	1.317	1.319	1.321	1.307	1.301	1.188	1.227	1.379	1.342	1.327	1.347	1.359	1.329	1.322	1.326	1.316	1.321	1.304
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.017	0.029	0.03	0.015	0.007	0.022	0.025	0.009	0.018	0.013	0.022	0.006	0.005	0.003	0.005	0.017	0.021	0.004	0.009	0.025	0.009
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.345	0.327	0.353	0.285	0.289	0.26	0.277	0.269	0.164	0.195	0.333	0.291	0.3	0.315	0.338	0.294	0.294	0.289	0.289	0.291	0.267
0.626	0.625	0.612	0.682	0.667	0.632	0.671	0.69	0.781	0.765	0.627	0.642	0.666	0.643	0.624	0.666	0.668	0.667	0.673	0.673	0.696
0.003	0.004	0.002	0	0.002	0.009	0.004	0.003	0.003	0.003	0.003	0	0	0	0	0	0	0	0	0	0
4.988	4.981	4.986	4.985	4.977	4.943	4.974	4.98	4.969	4.982	4.986	4.964	4.982	4.978	4.978	4.981	4.982	4.977	4.979	4.983	4.983

PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07
7.454	7.621	7.683	7.812	7.613	7.774	7.559	8.048	7.758	7.617	7.705	7.764	7.64	7.684	7.515	7.081	7.634	7.751	7.391	7.796	7.449
59.877	60.399	60.638	60.829	60.371	60.422	60.195	60.527	60.341	60.023	60.341	60.094	60.397	60.041	60.178	59.415	59.799	60.654	60.223	60.348	59.87
25.517	24.999	25.23	24.897	25.089	24.868	24.779	24.982	24.924	24.893	24.96	25.123	25.153	25.066	25.167	24.771	25.201	24.935	25.151	25.209	25.332
6.42	6.154	6.123	6.207	6.04	6.068	6.194	6.197	6.102	6.101	5.945	6.144	6.341	6.217	6.281	6.205	6.231	6.305	6.162	6.266	6.339
0.084	0.166	0.215	0.195	0.15	0.128	0.095	0.085	0.114	0.14	0.135	0.071	0.07	0.092	0.128	0.145	0.123	0.08	0.084	0.078	0.074
0.103	0.092	0.015	0.012	0.09	0.018	0.063	0.149	0.094	0.028	0.047	0.141	0.09	0.014	0.002	0.097	0	0.143	0.113	0.124	0.052
99.455	99.431	99.904	99.952	99.353	99.278	98.885	99.988	99.333	98.802	99.133	99.337	99.691	99.114	99.271	97.714	98.988	99.868	99.124	99.821	99.116
2.674	2.697	2.694	2.703	2.696	2.701	2.701	2.692	2.697	2.696	2.7	2.687	2.69	2.69	2.69	2.696	2.683	2.698	2.694	2.687	2.681
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.344	1.316	1.322	1.304	1.321	1.311	1.311	1.31	1.313	1.318	1.317	1.325	1.321	1.324	1.326	1.325	1.333	1.308	1.326	1.323	1.337
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.004	0.003	0.001	0	0.003	0.001	0.002	0.006	0.004	0.001	0.002	0.005	0.003	0.001	0	0.004	0	0.005	0.004	0.005	0.002
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.307	0.294	0.292	0.296	0.289	0.291	0.298	0.295	0.292	0.294	0.285	0.294	0.303	0.298	0.301	0.302	0.3	0.301	0.295	0.299	0.304
0.646	0.66	0.662	0.673	0.659	0.674	0.658	0.694	0.672	0.663	0.669	0.673	0.66	0.667	0.651	0.623	0.664	0.669	0.641	0.673	0.647
0.005	0.009	0.012	0.011	0.009	0.007	0.005	0.005	0.007	0.008	0.008	0.004	0.004	0.005	0.007	0.008	0.007	0.005	0.005	0.004	0.004

PLA3_IC07	PLA3_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07
60.3	60.53	60.25	60.41	59.98	60.38	61.21	61.64	59.49	60.5	60.47	60.88	60.19	60.49	60.4	60.72	60.16	60.52	60.84	60.59	60.48
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.28	25.32	25.24	25.12	24.77	25	24.45	24.38	25.16	25.01	25.13	24.84	25.09	24.95	24.87	25.08	25.28	24.83	24.77	24.87	24.94
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.3	6.09	6	6.13	5.94	6.08	5.52	5.15	6.34	6.02	5.92	5.82	6.15	6.03	6.02	5.97	6.14	6.06	5.79	5.85	6.05
7.47	7.82	7.83	7.75	7.58	7.66	8.2	8.12	7.63	7.74	7.81	7.89	7.62	7.74	7.65	7.88	7.47	7.84	7.85	7.86	7.97
0	0	0	0	0	0.06	0.08	0.07	0.06	0.07	0.07	0.07	0.07	0.09	0.09	0.09	0.06	0.07	0.1	0.1	0.08
99.36	99.75	99.31	99.42	98.27	99.18	99.46	99.36	98.67	99.34	99.39	99.5	99.12	99.3	99.03	99.74	99.11	99.32	99.36	99.27	99.53
2.688	2.688	2.685	2.693	2.702	2.698	2.725	2.738	2.677	2.699	2.697	2.712	2.693	2.702	2.703	2.7	2.69	2.702	2.714	2.706	2.698
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.329	1.326	1.326	1.32	1.315	1.317	1.283	1.277	1.335	1.316	1.321	1.304	1.323	1.313	1.312	1.315	1.333	1.307	1.302	1.309	1.312
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.008	0.009	0.016	0.006	0.006	0.006	0.007	0.012	0.004	0.004	0.001	0	0.001	0	0.002	0.002	0.002	0.002	0	0.001	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.301	0.29	0.287	0.293	0.287	0.291	0.263	0.245	0.306	0.288	0.283	0.278	0.295	0.289	0.289	0.284	0.294	0.29	0.277	0.28	0.289
0.646	0.673	0.676	0.67	0.662	0.663	0.707	0.699	0.666	0.67	0.676	0.682	0.661	0.67	0.664	0.68	0.648	0.679	0.679	0.681	0.69
0	0	0	0	0	0.003	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.003	0.004	0.006	0.006	0.005
4.968	4.982	4.984	4.981	4.97	4.975	4.987	4.971	4.989	4.978	4.982	4.979	4.978	4.979	4.974	4.985	4.969	4.984	4.978	4.983	4.993

PLA4_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA4_IC07
7.374	7.573	7.535	7.761	7.756	7.628	7.582	7.601	7.591	7.595	7.71	7.63	7.649	7.582	7.62	7.713	7.676	7.869	7.553	7.834	7.703
59.88	60.154	60.461	60.029	60.246	60.131	60.414	60.47	60.285	59.913	59.981	60.294	60.056	60.213	59.835	60.29	60.347	60.011	59.775	60.53	60.413
25.378	25.239	25.099	25.025	25.002	25.021	24.936	25.161	25.089	25.188	25.241	25.22	25.053	25.313	25.145	25.204	25.006	25.298	25.16	25.104	24.944
6.322	6.262	6.127	6.162	6.138	6.162	6.05	6.299	6.179	6.262	6.233	6.145	6.349	6.534	6.224	6.211	6.138	6.069	6.243	6.239	6.392
0.078	0.072	0.082	0.096	0.073	0.066	0.119	0.08	0.083	0.095	0.094	0.089	0.085	0.124	0.08	0.093	0.103	0.079	0.064	0.07	0.065
0.032	0.072	0	0	0.005	0.059	0.038	0.022	0.023	0.268	0.055	0.034	0	0.04	0.107	0	0	0.034	0.01	0.137	0.274
99.064	99.372	99.304	99.073	99.22	99.067	99.139	99.633	99.25	99.321	99.314	99.412	99.192	99.806	99.011	99.511	99.27	99.36	98.805	99.914	99.791
2.682	2.687	2.699	2.69	2.695	2.693	2.702	2.693	2.694	2.682	2.683	2.691	2.689	2.681	2.684	2.689	2.697	2.683	2.685	2.692	2.692
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.34	1.329	1.321	1.322	1.318	1.321	1.315	1.321	1.322	1.329	1.331	1.327	1.322	1.329	1.33	1.325	1.318	1.333	1.332	1.316	1.31
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.001	0.003	0	0	0	0.002	0.001	0.001	0.001	0.01	0.002	0.001	0	0.001	0.004	0	0	0.001	0	0.005	0.01
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.303	0.3	0.293	0.296	0.294	0.296	0.29	0.301	0.296	0.3	0.299	0.294	0.305	0.312	0.299	0.297	0.294	0.291	0.3	0.297	0.305
0.64	0.656	0.652	0.674	0.673	0.663	0.658	0.656	0.658	0.659	0.669	0.66	0.664	0.655	0.663	0.667	0.665	0.682	0.658	0.676	0.666
0.004	0.004	0.005	0.005	0.004	0.004	0.007	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.005	0.005	0.006	0.005	0.004	0.004	0.004

PLA6_IC07	PLA6_IC07	PLA7_IC07	PLA7_IC07	PLA7_IC07	PLA7_IC07	PLA7_IC07	PLA7_IC07	PLA7_IC07	PLA7_IC07	PLA7_IC07	PLA7_IC07	PLA9_IC07	PLA9_IC07	PLA9_IC07	PLA9_IC07	PLA9_IC07	PLA10_IC07	PLA10_IC07	PLA10_IC07	PLA10_IC07
60.21	60.23	60.12	60.36	60.22	59.62	60.29	60.22	60.39	60.28	60.66	60.92	60.23	60.3	60.46	60.6	60.66	60.3	60.22	60.04	60.27
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24.93	25.31	25.32	25.05	24.98	25.58	25.26	25.08	25.07	25.09	24.92	24.76	24.9	25.05	25.05	25.11	24.91	25.14	25.14	25.11	25.14
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.06	6.14	6.35	6.15	6.25	6.59	6.1	6.1	6.01	5.97	5.77	5.81	6.05	6.19	6.12	6.25	6.04	6.3	6.21	6.22	6.24
7.69	7.72	7.63	7.78	7.53	7.44	7.83	7.74	7.74	7.87	7.84	8.15	7.38	7.77	7.89	7.84	7.91	7.74	7.79	7.67	7.6
0.06	0.08	0.07	0.04	0.03	0.07	0.06	0.07	0.07	0.1	0.08	0.04	0.06	0.07	0.04	0.07	0.03	0.05	0.05	0.09	0.08
98.95	99.48	99.49	99.38	99.01	99.3	99.54	99.22	99.28	99.31	99.27	99.68	98.62	99.38	99.56	99.88	99.55	99.54	99.41	99.14	99.33
2.698	2.686	2.681	2.695	2.696	2.668	2.685	2.693	2.697	2.694	2.707	2.711	2.702	2.691	2.694	2.693	2.701	2.688	2.689	2.688	2.691
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.317	1.331	1.331	1.318	1.319	1.349	1.326	1.322	1.32	1.322	1.311	1.299	1.317	1.318	1.316	1.315	1.308	1.322	1.323	1.326	1.323
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.001	0.003	0.005	0.001	0.001	0	0.009	0	0.002	0	0	0	0.006	0.006	0.004	0.004	0.006	0.004	0.002	0.001	0.004
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.291	0.293	0.303	0.294	0.3	0.316	0.291	0.292	0.287	0.286	0.276	0.277	0.291	0.296	0.292	0.297	0.288	0.301	0.297	0.298	0.298
0.668	0.667	0.66	0.673	0.654	0.645	0.676	0.671	0.67	0.681	0.679	0.703	0.642	0.672	0.682	0.675	0.683	0.669	0.675	0.666	0.658
0.004	0.004	0.004	0.002	0.002	0.004	0.003	0.004	0.004	0.006	0.004	0.002	0.003	0.004	0.002	0.004	0.002	0.003	0.003	0.005	0.005
4.979	4.983	4.983	4.984	4.972	4.982	4.988	4.983	4.98	4.989	4.978	4.992	4.96	4.986	4.989	4.988	4.986	4.985	4.987	4.984	4.977

PLA4_IC07	PLA4_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07	PLA2_IC07
7.786	7.797	7.791	7.513	7.727	7.557	7.598	7.654	7.498	7.576	7.448	7.395	7.701	7.61	7.654	7.552	7.533	7.653	7.734	7.579	7.627
59.943	59.923	60.047	59.841	60.28	59.874	60.061	60.054	60.022	60.123	59.98	60.096	59.735	59.624	60.55	59.927	60.004	60.302	59.82	60.122	60.283
25.15	25.147	25.084	25.078	25.124	25.237	24.867	25.073	25.066	25.185	25.381	25.275	25.171	25.257	25.17	25.119	24.837	25.096	25.308	25.398	25.219
6.284	6.243	6.304	6.274	6.364	6.36	6.18	6.199	6.254	6.223	6.278	6.218	6.394	6.329	6.127	6.181	6.177	6.058	6.098	6.375	6.126
0.086	0.073	0.079	0.147	0.154	0.156	0.143	0.165	0.137	0.103	0.064	0.078	0.086	0.085	0.076	0.083	0.087	0.093	0.068	0.064	0.05
0.119	0.104	0.141	0.051	0.093	0.023	0.02	0.072	0.039	0	0.103	0.077	0.016	0.06	0.331	0.227	0.147	0.18	0.503	0.83	0.337
99.368	99.287	99.446	98.904	99.742	99.207	98.869	99.217	99.016	99.21	99.254	99.139	99.103	98.965	99.908	99.089	98.785	99.382	99.531	100.368	99.642
2.682	2.683	2.685	2.687	2.687	2.681	2.696	2.689	2.691	2.689	2.682	2.688	2.679	2.677	2.692	2.686	2.696	2.693	2.675	2.671	2.688
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.327	1.327	1.322	1.327	1.32	1.332	1.316	1.323	1.325	1.328	1.338	1.333	1.331	1.337	1.319	1.328	1.316	1.322	1.334	1.33	1.326
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.004	0.004	0.005	0.002	0.003	0.001	0.001	0.003	0.001	0	0.004	0.003	0.001	0.002	0.012	0.009	0.006	0.007	0.019	0.031	0.013
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.301	0.299	0.302	0.302	0.304	0.305	0.297	0.297	0.3	0.298	0.301	0.298	0.307	0.304	0.292	0.297	0.297	0.29	0.292	0.303	0.293
0.675	0.677	0.675	0.654	0.668	0.656	0.661	0.664	0.652	0.657	0.646	0.641	0.67	0.663	0.66	0.656	0.656	0.663	0.671	0.653	0.659
0.005	0.004	0.005	0.008	0.009	0.009	0.008	0.009	0.008	0.006	0.004	0.004	0.005	0.005	0.004	0.005	0.005	0.005	0.004	0.004	0.003

PLA10_IC07	PLA10_IC07	PLA10_IC07	PLA10_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA11_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA5_IC07
60.25	60.52	60.31	60.54	60.8	59.76	60.15	60.25	60.42	60.19	60.52	60.28	59.96	60.27	60.59	60.26	60.12	60.3	60.04	60.03	59.39
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.05	24.83	24.92	24.99	25.05	25.23	25.04	25.06	25.24	25.01	25.23	25.23	25.29	25.15	25.08	25.14	25.2	25	25.07	25.11	25.72
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.1	6.06	6.08	6.13	6.17	6.18	6.16	6.08	6.15	6.05	6.13	6.25	6.32	6.27	6.17	6.3	6.16	5.96	5.98	6.1	6.89
7.73	7.69	7.73	7.79	7.71	7.55	7.54	7.85	7.61	7.72	7.78	7.65	7.69	7.63	7.58	7.64	7.67	7.74	7.41	7.89	7.42
0.09	0.08	0.04	0.04	0.03	0.03	0.04	0.04	0.02	0	0.03	0.03	0	0	0	0.04	0.05	0.09	0.04	0.05	0.03
99.22	99.19	99.07	99.49	99.77	98.75	98.93	99.28	99.45	98.97	99.68	99.44	99.26	99.31	99.43	99.38	99.2	99.09	98.53	99.19	99.45
2.694	2.705	2.698	2.698	2.701	2.681	2.695	2.693	2.692	2.695	2.691	2.688	2.681	2.691	2.7	2.69	2.689	2.698	2.698	2.688	2.654
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.32	1.309	1.314	1.313	1.312	1.335	1.323	1.32	1.326	1.32	1.322	1.326	1.333	1.324	1.318	1.323	1.329	1.319	1.328	1.325	1.355
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.003	0.001	0.005	0.004	0.005	0.009	0.002	0.002	0.004	0.006	0.007	0.003	0.001	0.002	0.002	0.004	0	0.002	0.001	0	0.008
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.292	0.29	0.291	0.293	0.294	0.297	0.296	0.291	0.294	0.29	0.292	0.299	0.303	0.3	0.295	0.301	0.295	0.286	0.288	0.293	0.33
0.67	0.666	0.67	0.673	0.664	0.657	0.655	0.68	0.658	0.67	0.67	0.662	0.667	0.66	0.655	0.661	0.665	0.671	0.645	0.685	0.643
0.005	0.005	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0	0.002	0.002	0	0	0	0.002	0.003	0.005	0.002	0.003	0.002
4.983	4.976	4.979	4.982	4.975	4.977	4.972	4.987	4.973	4.978	4.982	4.979	4.986	4.977	4.969	4.98	4.981	4.98	4.962	4.994	4.988

PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07
7.687	7.64	7.844	7.622	7.718	7.787	7.491	7.647	7.96	7.569	7.526	7.471	7.548	7.627	7.679	7.864	7.934	7.916	8.017	7.978	7.82
60.207	60.04	60.19	60.154	60.068	60.046	60.105	60.321	60.792	59.639	59.848	60.189	60.071	59.854	60.17	60.722	60.81	60.787	60.911	60.876	60.906
25.169	25.249	25.184	25.063	24.864	24.954	25.033	24.992	24.873	25.268	25.173	25.117	24.925	25.22	25.093	25.09	24.738	24.591	24.61	24.649	24.695
6.193	6.268	6.129	6.061	6.207	6.193	6.15	6.25	6.031	6.206	6.197	6.188	6.165	6.125	6.269	6.069	5.565	5.539	5.325	5.568	5.56
0.064	0.071	0.08	0.074	0.091	0.076	0.079	0.088	0.063	0.063	0.085	0.097	0.102	0.086	0.066	0.086	0.181	0.216	0.225	0.222	0.205
0.144	0.173	0.152	0.174	0.065	0.236	0.125	0.163	0.362	0.029	0.045	0.009	0.054	0.086	0.228	0.085	0	0.028	0	0.092	0.055
99.464	99.441	99.579	99.148	99.013	99.292	98.983	99.461	100.081	98.774	98.874	99.071	98.865	98.998	99.505	99.916	99.228	99.077	99.088	99.385	99.241
2.688	2.683	2.686	2.693	2.694	2.689	2.694	2.694	2.7	2.68	2.686	2.694	2.696	2.684	2.688	2.697	2.714	2.719	2.723	2.717	2.719
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.325	1.33	1.325	1.323	1.315	1.317	1.323	1.316	1.303	1.339	1.332	1.325	1.319	1.333	1.321	1.314	1.302	1.297	1.297	1.297	1.3
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.003	0.003	0	0	0	0
0.005	0.006	0.006	0.007	0.002	0.009	0.005	0.006	0.013	0.001	0.002	0	0.002	0.003	0.009	0	0	0.001	0	0.003	0.002
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.296	0.3	0.293	0.291	0.298	0.297	0.295	0.299	0.287	0.299	0.298	0.297	0.296	0.294	0.3	0.289	0.266	0.266	0.255	0.266	0.266
0.666	0.662	0.679	0.662	0.671	0.676	0.651	0.662	0.686	0.66	0.655	0.648	0.657	0.663	0.665	0.677	0.687	0.687	0.695	0.69	0.677
0.004	0.004	0.005	0.004	0.005	0.004	0.005	0.005	0.004	0.004	0.005	0.006	0.006	0.005	0.004	0.005	0.01	0.012	0.013	0.013	0.012

PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07
60.34	60.59	60.44	60.24	59.91	60.35	60.39	59.93	60.24	60.21	59.83	60.42	59.6	60.27	60.24	60.18	59.48	60.18	60.15	60.05	60.12
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.32	24.95	25.03	25.28	25.24	25.04	25.11	25.06	25.33	25.11	25.45	25.4	25.23	25.15	25.25	25.11	25.54	25.27	25.19	25.04	25.28
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.32	5.94	6.17	6.08	6.31	6.09	5.97	6.03	6.16	6.03	6.2	6.27	6.15	5.82	5.86	6.08	6.59	6.27	6.13	6.26	6.25
7.69	7.58	7.71	7.76	7.71	7.73	7.57	7.58	7.83	7.39	7.48	7.61	7.6	7.72	7.65	7.56	7.3	7.82	7.58	7.56	7.65
0.03	0.05	0.03	0.03	0.03	0.04	0.05	0.05	0.03	0.04	0.04	0.02	0	0	0	0	0	0	0	0	0.04
99.71	99.1	99.38	99.39	99.21	99.25	99.09	98.65	99.59	98.78	99	99.73	98.58	98.96	99	98.93	98.91	99.53	99.05	98.9	99.33
2.685	2.707	2.696	2.686	2.681	2.696	2.699	2.693	2.685	2.699	2.679	2.685	2.681	2.697	2.695	2.696	2.666	2.684	2.691	2.691	2.683
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.328	1.314	1.316	1.329	1.332	1.319	1.323	1.328	1.331	1.327	1.343	1.331	1.338	1.327	1.332	1.326	1.35	1.329	1.329	1.323	1.33
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.004	0	0.005	0.007	0.001	0.002	0.002	0	0.001	0	0.003	0.005	0.004	0	0	0	0.009	0.001	0.002	0.004	0.007
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.301	0.284	0.295	0.291	0.303	0.292	0.286	0.29	0.294	0.29	0.298	0.299	0.296	0.279	0.281	0.292	0.316	0.3	0.294	0.301	0.299
0.664	0.656	0.667	0.671	0.669	0.669	0.656	0.66	0.677	0.643	0.65	0.656	0.663	0.67	0.663	0.656	0.635	0.676	0.657	0.657	0.662
0.002	0.003	0.001	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.002	0.001	0	0	0	0	0	0	0	0	0.002
4.983	4.965	4.979	4.983	4.988	4.98	4.968	4.975	4.989	4.96	4.974	4.976	4.981	4.974	4.971	4.97	4.973	4.99	4.973	4.974	4.981

PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA3_IC07
8.034	6.693	6.502	7.045	7.579	7.419	7.789	7.751	7.719	7.637	7.906	7.89	7.72	7.728	7.809	7.827	7.865	7.707	7.754	7.778	7.727
61.122	61.329	61.822	60.823	60.753	60.639	60.592	60.33	60.223	60.801	60.773	60.686	60.703	60.507	61.016	60.993	60.94	60.947	61.09	60.675	60.516
24.68	25.296	25.086	24.992	24.977	25.096	25.031	24.74	24.874	24.791	24.88	24.919	24.868	24.926	24.779	24.827	24.756	24.743	24.538	24.996	25.222
5.599	6.124	6.009	5.882	5.729	6.069	5.963	5.846	5.965	5.819	5.8	5.844	5.855	5.918	5.737	5.731	5.666	5.602	5.787	5.891	6.122
0.175	0.079	0.067	0.06	0.048	0.057	0.111	0.087	0.083	0.145	0.069	0.059	0.059	0.057	0.08	0.129	0.124	0.228	0.134	0.08	0.058
0.075	0.051	0.02	0.073	0	0.063	0.011	0.042	0.073	0.02	0.047	0.026	0.033	0	0.02	0.036	0.048	0.038	0.017	0.073	0.043
99.685	99.572	99.506	98.875	99.086	99.343	99.497	98.796	98.937	99.213	99.475	99.424	99.238	99.136	99.441	99.543	99.399	99.265	99.32	99.493	99.688
2.719	2.718	2.735	2.717	2.712	2.703	2.701	2.707	2.7	2.714	2.708	2.706	2.71	2.705	2.717	2.715	2.716	2.719	2.724	2.704	2.693
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.294	1.322	1.309	1.316	1.315	1.319	1.315	1.309	1.315	1.305	1.307	1.31	1.309	1.314	1.301	1.303	1.301	1.302	1.29	1.313	1.323
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.003	0.002	0.001	0.003	0	0.002	0	0.002	0.003	0.001	0.002	0.001	0.001	0	0.001	0.001	0.002	0.001	0.001	0.003	0.002
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.267	0.291	0.285	0.282	0.274	0.29	0.285	0.281	0.287	0.278	0.277	0.279	0.28	0.283	0.274	0.273	0.271	0.268	0.277	0.281	0.292
0.693	0.575	0.558	0.61	0.656	0.641	0.673	0.674	0.671	0.661	0.683	0.682	0.668	0.67	0.674	0.676	0.68	0.667	0.67	0.672	0.667
0.01	0.004	0.004	0.003	0.003	0.003	0.006	0.005	0.005	0.008	0.004	0.003	0.003	0.003	0.005	0.007	0.007	0.013	0.008	0.005	0.003

PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07	PLA12_IC07
60.22	60.94	60.27	60.39	60.26	60.51	60.26	59.96	60.29	60.2	60.51	60.46	60.35	60.08	60.52	60.5	60.25	60.33	60.34	60.53	60.5
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25.18	25.12	25.16	24.97	25.11	25.26	25.15	25.3	25.31	25.35	25.06	24.83	24.99	24.88	25	25.04	25.1	25.11	24.97	25.03	25.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.1	5.93	6.09	6.16	6.1	6.2	6.18	6.25	6.19	6.28	5.99	6.05	6.01	5.96	6.01	6.11	6.04	5.94	6.01	6.08	5.94
7.77	7.74	7.7	7.84	7.8	7.72	7.72	7.53	7.68	7.57	7.74	7.84	7.81	7.72	7.83	7.73	7.85	7.71	7.88	7.86	7.76
0.09	0.09	0.1	0.08	0.08	0.08	0.09	0.09	0.09	0.08	0.09	0.09	0.1	0.1	0.07	0.08	0.1	0.1	0.07	0.07	0.06
99.37	99.82	99.32	99.44	99.35	99.77	99.4	99.12	99.56	99.48	99.39	99.27	99.26	98.74	99.43	99.45	99.34	99.19	99.26	99.57	99.35
2.689	2.705	2.692	2.695	2.692	2.691	2.691	2.684	2.687	2.685	2.699	2.702	2.697	2.698	2.7	2.698	2.692	2.697	2.697	2.697	2.699
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.326	1.315	1.325	1.314	1.322	1.324	1.324	1.335	1.33	1.333	1.318	1.308	1.317	1.318	1.315	1.316	1.322	1.324	1.316	1.315	1.32
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.002	0	0.002	0.003	0.001	0.001	0	0	0	0.002	0.001	0.001	0.001	0.001	0	0	0	0	0	0.002	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.292	0.282	0.291	0.294	0.292	0.296	0.295	0.3	0.296	0.3	0.286	0.29	0.288	0.287	0.287	0.292	0.289	0.285	0.288	0.29	0.284
0.673	0.666	0.667	0.679	0.676	0.666	0.668	0.654	0.664	0.655	0.67	0.679	0.677	0.672	0.678	0.668	0.68	0.669	0.683	0.679	0.672
0.005	0.005	0.006	0.004	0.005	0.004	0.005	0.005	0.005	0.004	0.005	0.005	0.006	0.006	0.004	0.004	0.006	0.006	0.004	0.004	0.003
4.986	4.973	4.981	4.988	4.987	4.982	4.984	4.978	4.982	4.978	4.979	4.986	4.985	4.981	4.983	4.98	4.99	4.979	4.988	4.986	4.978

PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07
7.773	7.772	7.732	7.784	7.708	7.474	7.827	7.939	8.072	7.971	7.975	7.898	7.902	7.693	7.873	7.713	7.822	7.735	7.999	7.776	7.928
60.703	60.8	60.687	60.525	60.513	60.697	61.204	61.029	61.141	61.22	61.364	61.048	60.881	60.781	60.8	60.828	60.712	60.609	60.97	60.905	60.702
25.254	24.928	25.23	25.068	25.283	25.236	25.04	24.713	24.767	24.951	24.709	24.915	25.011	24.928	25.024	25.115	25.133	24.874	25.012	25.105	24.921
6.067	6.085	6.031	6.09	6.066	6.231	5.878	5.709	5.614	5.765	5.661	5.845	5.855	6.031	5.888	5.926	6.058	5.932	5.832	5.944	5.672
0.084	0.101	0.089	0.045	0.058	0.045	0.053	0.068	0.071	0.062	0.081	0.051	0.127	0.146	0.152	0.141	0.122	0.064	0.065	0.078	0.077
0	0	0.099	0.048	0.127	0.006	0	0.07	0.011	0.075	0.017	0.045	0.026	0	0.023	0.018	0.022	0.07	0.524	0.259	0.36
99.881	99.686	99.868	99.56	99.755	99.689	100.002	99.528	99.676	100.044	99.807	99.802	99.802	99.579	99.76	99.741	99.869	99.284	100.402	100.067	99.66
2.696	2.705	2.696	2.697	2.692	2.698	2.711	2.717	2.718	2.712	2.723	2.711	2.705	2.707	2.704	2.703	2.698	2.706	2.7	2.701	2.704
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.322	1.308	1.321	1.317	1.326	1.322	1.308	1.297	1.298	1.303	1.293	1.304	1.31	1.309	1.312	1.316	1.317	1.309	1.306	1.313	1.309
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0.004	0.002	0.005	0	0	0.003	0	0.003	0.001	0.002	0.001	0	0.001	0.001	0.001	0.003	0.019	0.01	0.013
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.289	0.29	0.287	0.291	0.289	0.297	0.279	0.272	0.267	0.274	0.269	0.278	0.279	0.288	0.281	0.282	0.288	0.284	0.277	0.282	0.271
0.669	0.671	0.666	0.673	0.665	0.644	0.672	0.685	0.696	0.685	0.686	0.68	0.681	0.664	0.679	0.665	0.674	0.67	0.687	0.669	0.685
0.005	0.006	0.005	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.003	0.007	0.008	0.009	0.008	0.007	0.004	0.004	0.004	0.004

PLA12_IC07	PLA12_IC07	PLA12_IC07	C2_24
61.92	60.67	60.19	
0	0	0	
25.16	24.96	25.32	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
6.06	6	6.31	
6.52	7.68	7.71	
0.08	0.05	0.04	
99.74	99.36	99.57	
2.734	2.705	2.683	
0	0	0	
1.31	1.312	1.331	
0	0	0	
0	0	0	
0	0.002	0.001	
0	0	0	
0	0	0	
0.287	0.287	0.301	
0.558	0.664	0.666	
0.004	0.003	0.002	
4.893	4.972	4.985	

PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA1_IC07
7.89	8.041	8.107	7.741	8.014	8.028	7.974	7.058	7.891	7.641	8.142	8.06	7.745	8.247	8.059	7.813	8.174	8.315	8.042	7.885	7.544
60.783	60.569	61.142	60.629	61.037	61.385	61.153	61.563	61.101	61.516	61.145	61.021	61.547	61.671	60.837	61.033	61.49	61.969	61.214	60.93	59.545
25.138	24.998	25.029	24.979	24.879	25.155	25.038	24.502	25.013	24.99	24.987	25.111	25.061	24.602	25.205	24.826	24.931	24.334	24.839	25.025	25.88
5.895	5.885	5.868	5.993	5.93	6.026	5.829	5.199	5.826	5.979	6.017	5.967	5.866	5.209	5.85	5.703	5.58	5.294	5.677	6.071	6.93
0.069	0.055	0.062	0.049	0.056	0.052	0.062	2.072	0.047	0.067	0.053	0.058	0.06	0.076	0.057	0.055	0.067	0.067	0.082	0.071	0.052
0.189	0.361	0.229	0.498	0.379	1.064	0.798	0.875	0.772	1.38	0.385	0.272	0.581	0.203	0.308	0.598	0.278	0.227	0.359	0.826	0.707
99.964	99.909	100.437	99.889	100.295	101.71	100.854	101.269	100.65	101.573	100.729	100.489	100.86	100.008	100.316	100.028	100.52	100.206	100.213	100.808	100.658
2.699	2.695	2.704	2.698	2.705	2.692	2.699	2.722	2.701	2.701	2.7	2.698	2.709	2.731	2.695	2.71	2.714	2.74	2.712	2.693	2.643
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.316	1.311	1.305	1.31	1.3	1.301	1.303	1.277	1.303	1.293	1.301	1.309	1.301	1.284	1.316	1.299	1.297	1.268	1.297	1.304	1.354
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.007	0.013	0.008	0.019	0.014	0.039	0.029	0.032	0.029	0.051	0.014	0.01	0.021	0.008	0.011	0.022	0.01	0.008	0.013	0.031	0.026
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.28	0.281	0.278	0.286	0.282	0.283	0.276	0.246	0.276	0.281	0.285	0.283	0.277	0.247	0.278	0.271	0.264	0.251	0.269	0.288	0.33
0.679	0.694	0.695	0.668	0.689	0.683	0.682	0.605	0.676	0.65	0.697	0.691	0.661	0.708	0.692	0.673	0.7	0.713	0.691	0.676	0.649
0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.117	0.003	0.004	0.003	0.003	0.003	0.004	0.003	0.003	0.004	0.004	0.005	0.004	0.003

PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07
6.786	7.616	6.815	7.257	7.913	7.779	7.774	7.835	7.74	7.594	7.289	7.513	7.62	7.706	7.642	7.603	7.59	7.742	7.689	7.653	7.664
58.408	59.746	58.965	59.281	60.715	60.824	60.705	60.541	60.447	60.927	59.434	60.171	60.578	60.327	59.837	60.08	60.451	60.733	60.481	60.047	60.264
26.941	25.83	26.528	26.057	25.071	25.07	24.891	24.926	25.364	25.064	25.671	25.04	25.233	25.248	25.265	25.564	24.999	24.995	25.017	25.376	25.236
8.065	6.686	7.697	6.935	5.994	6.011	6.009	6.104	6.256	5.983	6.831	6.383	6.445	6.195	6.2	6.849	6.18	5.975	5.927	6.2	6.14
0.054	0.059	0.057	0.043	0.064	0.092	0.12	0.106	0.055	0.081	0.192	0.076	0.067	0.076	0.079	0.072	0.079	0.09	0.087	0.082	0.067
0.2	0.191	0.191	0.243	0.037	0	0.035	0.025	0.599	0.439	0.329	0.191	0.274	0.23	0.274	0.153	0.143	0.058	0.082	0.117	0.273
100.454	100.128	100.253	99.816	99.794	99.776	99.534	99.537	100.461	100.088	99.746	99.374	100.217	99.782	99.297	100.321	99.442	99.593	99.283	99.475	99.644
2.598	2.657	2.622	2.644	2.699	2.703	2.705	2.7	2.679	2.702	2.656	2.69	2.687	2.686	2.679	2.667	2.698	2.704	2.701	2.681	2.687
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.413	1.354	1.391	1.37	1.314	1.313	1.308	1.311	1.325	1.311	1.352	1.32	1.32	1.325	1.334	1.338	1.315	1.312	1.317	1.336	1.326
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.007	0.007	0.007	0.009	0.001	0	0.001	0.001	0.022	0.016	0.012	0.007	0.01	0.009	0.01	0.006	0.005	0.002	0.003	0.004	0.01
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.384	0.319	0.367	0.331	0.286	0.286	0.287	0.292	0.297	0.284	0.327	0.306	0.306	0.296	0.297	0.326	0.296	0.285	0.284	0.297	0.293
0.585	0.657	0.588	0.628	0.682	0.67	0.672	0.678	0.665	0.653	0.631	0.651	0.655	0.665	0.663	0.654	0.657	0.668	0.666	0.663	0.663
0.003	0.003	0.003	0.002	0.004	0.005	0.007	0.006	0.003	0.005	0.011	0.004	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.005	0.004

PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07
7.654	7.257	7.504	7.632	7.751	7.774	8.176	7.953	8.056	7.91	7.694	7.572	7.386	7.691	6.368	5.922	7.652	7.897	7.242	7.667	7.799
60.492	59.77	60.038	60.299	60.741	60.877	61.686	60.7	60.741	60.94	60.604	60.204	60.155	60.596	57.309	56.468	60.118	60.811	60.665	59.961	60.548
25.136	25.887	25.636	25.605	25.166	25.165	24.657	24.958	24.986	24.939	25.252	25.463	25.524	25.149	27.318	27.871	25.054	24.791	24.666	25.265	25.052
6.209	6.903	6.435	6.462	6.119	6.14	5.447	5.87	5.879	5.858	6.302	6.478	6.599	6.103	8.781	8.38	6.165	5.754	5.835	6.313	6.179
0.13	0.124	0.133	0.057	0.057	0.059	0.063	0.065	0.056	0.056	0.092	0.105	0.112	0.087	0.038	0.198	0.051	0.065	0.52	0	0
1.017	0.894	1.256	0.338	0.088	0.089	0.495	0.219	0.568	0.295	0.62	0.219	0.201	0.331	0.478	0.767	0.117	0.039	0.064	0.008	0.114
100.638	100.835	101.002	100.393	99.922	100.104	100.524	99.765	100.286	99.998	100.564	100.041	99.977	99.957	100.292	99.606	99.157	99.357	98.992	99.214	99.692
2.682	2.648	2.658	2.672	2.697	2.698	2.724	2.701	2.695	2.705	2.684	2.676	2.675	2.693	1.876	2.542	2.691	2.712	2.717	2.683	2.696
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.314	1.352	1.338	1.338	1.317	1.315	1.283	1.309	1.307	1.305	1.318	1.334	1.338	1.318	1.054	1.479	1.322	1.304	1.302	1.333	1.315
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.428	0	0	0	0	0	0
0.038	0.033	0.047	0.013	0.003	0.003	0.018	0.008	0.021	0.011	0.023	0.008	0.007	0.012	0.013	0.029	0.004	0.001	0.002	0	0.004
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.295	0.328	0.305	0.307	0.291	0.292	0.258	0.28	0.28	0.279	0.299	0.309	0.314	0.291	0.308	0.404	0.296	0.275	0.28	0.303	0.295
0.658	0.623	0.644	0.656	0.667	0.668	0.7	0.686	0.693	0.681	0.661	0.653	0.637	0.663	0.404	0.517	0.664	0.683	0.629	0.665	0.673
0.007	0.007	0.008	0.003	0.003	0.003	0.004	0.004	0.003	0.003	0.005	0.006	0.006	0.005	0.002	0.011	0.003	0.004	0.03	0	0

PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07
7.883	7.932	7.452	7.621	7.501	7.591	7.755	7.666	7.776	7.532	7.592	7.473	7.759	7.75	7.667	7.783	7.409	7.58	7.728	7.734	7.746
60.299	60.223	59.736	60.006	59.974	60.274	60.17	60.072	60.781	59.985	60.347	60.368	60.327	60.899	60.299	60.428	61.138	60.076	60.273	60.183	60.638
25.171	25.328	25.461	25.288	25.052	25.21	25.19	25.428	25.01	25.453	25.259	25.102	25.325	25.072	25.224	25.223	24.811	25.307	25.387	25.201	25.234
6.312	6.26	6.429	6.285	6.257	6.081	6.339	6.243	6.29	6.541	6.265	6.138	6.272	6.175	6.163	6.161	5.846	6.19	6.25	6.143	6.186
0	0.037	0.036	0.001	0.002	0.035	0.001	0	0.034	0.075	0.065	0.21	0.098	0.086	0.065	0.087	0.145	0.059	0.091	0.108	0.104
0.12	0.046	0	0.099	0.174	0	0.049	0.094	0.174	0	0.022	0.045	0.066	0.072	0.032	0.08	0.006	0.059	0.026	0.019	0
99.785	99.826	99.114	99.3	98.96	99.191	99.504	99.503	100.065	99.586	99.55	99.336	99.847	100.054	99.45	99.762	99.355	99.271	99.755	99.388	99.908
2.686	2.681	2.675	2.683	2.69	2.693	2.686	2.68	2.698	2.676	2.69	2.696	2.684	2.701	2.69	2.69	2.722	2.685	2.683	2.688	2.693
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.322	1.329	1.344	1.333	1.325	1.328	1.325	1.337	1.309	1.339	1.327	1.322	1.328	1.311	1.327	1.324	1.302	1.334	1.332	1.327	1.321
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.004	0.002	0	0.004	0.007	0	0.002	0.004	0.006	0	0.001	0.002	0.002	0.003	0.001	0.003	0	0.002	0.001	0.001	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.301	0.299	0.309	0.301	0.301	0.291	0.303	0.298	0.299	0.313	0.299	0.294	0.299	0.293	0.295	0.294	0.279	0.296	0.298	0.294	0.294
0.681	0.685	0.647	0.661	0.652	0.658	0.671	0.663	0.669	0.651	0.656	0.647	0.669	0.666	0.663	0.672	0.64	0.657	0.667	0.67	0.667
0	0.002	0.002	0	0	0.002	0	0	0.002	0.004	0.004	0.012	0.006	0.005	0.004	0.005	0.008	0.003	0.005	0.006	0.006

PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA5_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA1_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07	PLA2_IC07
7.745	7.587	7.797	7.789	7.755	7.546	7.888	7.704	7.738	7.898	7.581	7.756	7.717	7.917	7.813	7.722	7.532	7.727	7.507	7.614	7.6
60.432	60.099	60.351	60.197	60.47	60.267	60.613	60.488	61.033	60.563	60.237	60.583	60.52	60.551	60.286	60.209	60.08	60.325	59.528	59.923	60.073
25.347	25.298	25.241	25.187	25.154	25.483	25.049	25.166	25.044	25.167	25.386	25.254	25.167	25.106	25.164	25.115	25.183	25.254	25.455	25.09	25.075
6.087	6.264	6.065	6.071	6.009	6.253	6.013	6.299	6.08	6.167	6.15	5.98	5.936	6.169	6.143	6.116	6.042	6.025	6.528	6.135	6.183
0.099	0.068	0.071	0.075	0.087	0.103	0.063	0.067	0.054	0.086	0.079	0.065	0.067	0.001	0.039	0.036	0.035	0	0.031	0.024	0
0.088	0.085	0.026	0	0.017	0.017	0.059	0.075	0.052	0.024	0	0	0.053	0.119	0.116	0.046	0.052	0.091	0.009	0.039	0.056
99.798	99.401	99.551	99.319	99.492	99.669	99.685	99.799	100.001	99.905	99.433	99.638	99.46	99.863	99.561	99.244	98.924	99.422	99.058	98.825	98.987
2.688	2.684	2.69	2.69	2.696	2.683	2.698	2.691	2.706	2.692	2.687	2.696	2.698	2.693	2.689	2.692	2.692	2.691	2.67	2.69	2.692
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.329	1.332	1.327	1.327	1.322	1.338	1.315	1.32	1.309	1.319	1.335	1.325	1.323	1.316	1.323	1.324	1.33	1.328	1.346	1.328	1.325
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.003	0.003	0.001	0	0.001	0.001	0.002	0.003	0.002	0.001	0	0	0.002	0.004	0.004	0.002	0.002	0.003	0	0.001	0.002
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.29	0.3	0.29	0.291	0.287	0.298	0.287	0.3	0.289	0.294	0.294	0.285	0.284	0.294	0.294	0.293	0.29	0.288	0.314	0.295	0.297
0.668	0.657	0.674	0.675	0.67	0.651	0.681	0.665	0.665	0.681	0.656	0.669	0.667	0.683	0.676	0.669	0.654	0.668	0.653	0.663	0.66
0.006	0.004	0.004	0.004	0.005	0.006	0.004	0.004	0.003	0.005	0.004	0.004	0.004	0	0.002	0.002	0.002	0	0.002	0.001	0

PLA2_IC07	PLA2_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA3_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA4_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07	PLA6_IC07
7.433	7.818	7.819	7.797	7.662	7.699	7.811	7.303	7.664	7.727	7.674	7.933	7.553	7.404	7.533	7.798	7.626	7.747	7.653	7.782	7.594
60.116	60.36	60.665	60.288	60.247	60.166	60.557	60.48	60.549	60.056	60.412	60.555	60.468	60.254	59.856	60.137	60.655	60.442	60.418	60.628	60.294
25.253	25.214	24.77	25.069	25.243	25.302	25.121	25.131	25.269	25.118	25.129	25.213	25.149	25.392	25.301	25.047	25.067	25.232	25.241	25.176	25.205
6.002	6.207	6.165	6.101	6.154	6.239	6.257	5.683	6.03	6.221	6.23	6.16	6.062	6.202	6.313	6.252	6.189	6.185	6.1	6.125	6.282
0.001	0	0.001	0	0	0.002	0.036	0.032	0.031	0.04	0.027	0.043	0.093	0.102	0.085	0.064	0.067	0.085	0.074	0.071	0.131
0.003	0.064	0	0.012	0.012	0	0.014	0.053	0.005	0.011	0	0.008	0	0.055	0.027	0.005	0.044	0.09	0.002	0.038	0.038
98.808	99.663	99.42	99.267	99.318	99.408	99.796	98.682	99.548	99.173	99.472	99.912	99.325	99.409	99.115	99.303	99.648	99.781	99.488	99.82	99.544
2.694	2.689	2.706	2.694	2.69	2.686	2.694	2.709	2.696	2.688	2.694	2.691	2.698	2.688	2.681	2.69	2.7	2.69	2.693	2.695	2.689
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.334	1.324	1.303	1.321	1.329	1.331	1.317	1.327	1.326	1.326	1.321	1.321	1.323	1.335	1.336	1.321	1.315	1.324	1.326	1.319	1.325
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0.002	0	0	0	0	0.001	0.002	0	0	0	0	0	0.002	0.001	0	0.002	0.003	0	0.001	0.001
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.288	0.296	0.295	0.292	0.294	0.298	0.298	0.273	0.288	0.298	0.298	0.293	0.29	0.296	0.303	0.3	0.295	0.295	0.291	0.292	0.3
0.646	0.675	0.676	0.676	0.663	0.666	0.674	0.634	0.662	0.671	0.664	0.684	0.653	0.64	0.654	0.676	0.658	0.668	0.661	0.671	0.657
0	0	0	0	0	0	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.006	0.005	0.004	0.004	0.005	0.004	0.004	0.007

PLA6_IC07 PLA6_IC07 PLA6_IC07A_C1_12

7.595	7.64	7.781
60.307	60.161	60.825
25.315	25.191	25.108
6.318	6.21	6.023
0.134	0.105	0.072
0	0.04	0
99.669	99.347	99.809
2.686	2.688	2.702
0	0	0
1.329	1.327	1.315
0	0	0
0	0	0
0	0.001	0
0	0	0
0	0	0
0.302	0.297	0.287
0.656	0.662	0.67
0.008	0.006	0.004

RUTILO

Amostra **IC03F2 Cambuquira** Santo Antonio

Análises	C6-1	C6-2	C6-3	C6-4	C6-5	C6-6	C6-7	C6-8	C7-1
ZrO2	0.1012	0.0831	0.0846	0.0696	0.0722	0.0803	0.0781	0.0556	0.0775
ppm Zr	749.1836	615.1893	626.2938	515.2488	534.4966	594.4609	578.1743	411.6068	573.7325
5	706.2961	688.3501988	689.9522	672.758	675.9421	685.2957	682.8342	653.7172	682.1531
10	729.6534	711.2794356	712.9197	695.3154	698.5754	708.152	705.6319	675.8204	704.9345
15	753.0107	734.2086725	735.8871	717.8727	721.2087	731.0084	728.4296	697.9236	727.716
20	776.3679	757.1379093	758.8546	740.4301	743.8419	753.8648	751.2272	720.0268	750.4974

Amostra **IC01E3 Cambuquira** Santo Antonio

Análises	C1-1	C7	C8
ZrO2	0.0848	0.0783	0.069
ppm Zr	627.7744	579.6549	510.807
5	690.1641	683.0602956	672.0095
10	713.1366	705.8633625	694.549
15	736.1091	728.6664295	717.0885
20	759.0816	751.4694965	739.6279

Amostra **IC07C Cambuquira** Santo Antonio

							parc. Ilm.	parc. Ilm.	parc. Ilm.	parc. Ilm.
Análises	C2-1	C2-2	C2-3	C1-1	C1-2	C3-1	C3-2	C4	C2-4	C3-3
ZrO2	0.105	0.0949	0.082	0.0806	0.0748	0.0937	0.0975	0.2171	0.0688	0.4462
ppm Zr	777.315	702.5447	607.046	596.6818	553.7444	693.6611	721.7925	1607.191	509.3264	3303.219
5	709.7278	700.3693479	687.1603	685.627	679.0339	699.2044	702.8529	782.6235	671.7588	866.4473
10	733.1669	723.5852544	710.0612	708.4913	701.7409	722.3926	726.128	807.8012	694.2923	893.6244
15	756.606	746.8011609	732.9621	731.3556	724.4479	745.5807	749.4032	832.979	716.8258	920.8014
20	780.0452	770.0170674	755.8629	754.2199	747.155	768.7688	772.6783	858.1568	739.3593	947.9785

Logs do THERMOCALC

IC01E3

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.17	621.2	0.4432	0.2919	0.03230	0.07849	0.3017	0.2337
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2258	0.8303	0.1606	0.008109	0.3923	0.9989	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8980	0.4090	0.003344	0.5343	0.0001438	0.2840	

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.2840	0	0.005695	0.1169	0.2458	0.007218	0.002511	0	0.3226	0.01520

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.33	620.9	0.4391	0.2897	0.02409	0.08877	0.3034	0.1953
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1901	0.8319	0.1770	0.007114	0.3894	0.9989	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8993	0.4169	0.003235	0.7081	4.742e-5	0.2835	

mode	bi	ep	g	mu	pl	ilm	q	H2O
	0.2835	0	0	0.1208	0.2449	0.01196	0.3239	0.01496

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.55	622.6	0.4396	0.2799	0.02234	0.09124	0.3085	0.1883
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1834	0.8341	0.1871	0.007447	0.3918	0.9989	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.9016	0.3959	0.003511	0.7396	4.380e-5	0.2830	

mode	bi	ep	g	mu	pl	ilm	q	H2O
	0.2830	0.01115	0	0.1297	0.2273	0.01104	0.3249	0.01291

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.60	623.1	0.4397	0.2777	0.02197	0.09178	0.3096	0.1868
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1820	0.8346	0.1894	0.007525	0.3923	0.9988	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.9020	0.3912	0.003577	0.7460	4.316e-5	0.2829	

mode	bi	ep	g	mu	pl	ilm	q	H2O
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0.2829 0.01343 0 0.1315 0.2237 0.01086 0.3251 0.01249

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.65 623.5 0.4398 0.2756 0.02160 0.09230 0.3107 0.1852
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1805 0.8351 0.1917 0.007603 0.3928 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9023 0.3866 0.003644 0.7522-4.258e-5 0.2828

mode bi ep g mu pl ilm q H2O
0.2828 0.01562 0 0.1333 0.2202 0.01069 0.3253 0.01209

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.70 623.9 0.4399 0.2735 0.02124 0.09281 0.3118 0.1837
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1791 0.8355 0.1940 0.007681 0.3933 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9026 0.3820 0.003712 0.7582-4.205e-5 0.2827

mode bi ep g mu pl ilm q H2O
0.2827 0.01772 0 0.1350 0.2169 0.01053 0.3255 0.01170

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.75 624.3 0.4400 0.2714 0.02090 0.09331 0.3129 0.1822
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1776 0.8360 0.1963 0.007760 0.3938 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9029 0.3774 0.003781 0.7638-4.156e-5 0.2826

mode bi ep g mu pl ilm q H2O
0.2826 0.01975 0 0.1366 0.2137 0.01037 0.3257 0.01132

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 624.7 0.4401 0.2694 0.02056 0.09381 0.3139 0.1808
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1763 0.8365 0.1986 0.007839 0.3943 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9032 0.3729 0.003850 0.7693-4.111e-5 0.2825

mode bi ep g mu pl ilm q H2O
0.2825 0.02170 0 0.1382 0.2106 0.01023 0.3259 0.01096

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.85 625.1 0.4401 0.2674 0.02023 0.09429 0.3150 0.1793
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1749 0.8369 0.2009 0.007919 0.3948 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9034 0.3684 0.003921 0.7745-4.069e-5 0.2824

mode bi ep g mu pl ilm q H2O

0.2824 0.02358 0 0.1398 0.2076 0.01009 0.3260 0.01061

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.90 625.5 0.4402 0.2654 0.01991 0.09476 0.3160 0.1779
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1736 0.8374 0.2032 0.008000 0.3953 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9036 0.3639 0.003993 0.7795-4.031e-5 0.2823

mode bi ep g mu pl ilm q H2O
0.2823 0.02540 0 0.1413 0.2047 0.009959 0.3262 0.01028

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.95 625.9 0.4403 0.2634 0.01960 0.09522 0.3170 0.1766
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1722 0.8378 0.2055 0.008082 0.3958 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9037 0.3595 0.004066 0.7843-3.995e-5 0.2822

mode bi ep g mu pl ilm q H2O
0.2822 0.02715 0 0.1427 0.2019 0.009834 0.3263 0.009949

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 626.2 0.4404 0.2614 0.01929 0.09568 0.3180 0.1752
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1710 0.8382 0.2078 0.008164 0.3963 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9039 0.3551 0.004140 0.7889-3.962e-5 0.2821

mode bi ep g mu pl ilm q H2O
0.2821 0.02884 0 0.1441 0.1991 0.009714 0.3265 0.009632

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, g, mu, pl, ilm, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.28 621.4 0.4391 0.2932 0.02407 0.08868 0.3012 0.8300
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1687 0.006524 0.3891 0.9990 0.9010 0.4162
k(pl) x(ilm) Q(ilm)
0.003226 0.7081-4.748e-5

mode bi g mu pl ilm ky q H2O
0.2837 0 0.1200 0.2453 0.01196 0 0.3240 0.01505

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, mu, pl, ilm, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.45	623.6	0.4392	0.2903	0.02392	0.08934	0.3020	0.1946
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1893	0.3905	0.9989	0.9009	0.4145	0.003280	
	x(ilm)	Q(ilm)					
	0.7109-4.739e-5						

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.001228	0.1214	0.2431	0.01183		0	0.3240 0.01478

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.50	624.5	0.4393	0.2896	0.02372	0.08970	0.3021	0.1938
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1886	0.3910	0.9989	0.9015	0.4121	0.003314	
	x(ilm)	Q(ilm)					
	0.7143-4.704e-5						

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.002530	0.1223	0.2411	0.01171		0	0.3242 0.01456

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.55	625.4	0.4394	0.2890	0.02353	0.09006	0.3021	0.1930
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1878	0.3915	0.9989	0.9022	0.4097	0.003349	
	x(ilm)	Q(ilm)					
	0.7177-4.670e-5						

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.003806	0.1232	0.2391	0.01159		0	0.3243 0.01434

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.60	626.2	0.4394	0.2883	0.02334	0.09042	0.3022	0.1922
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1870	0.3920	0.9989	0.9028	0.4073	0.003384	
	x(ilm)	Q(ilm)					
	0.7211-4.638e-5						

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.005056	0.1241	0.2372	0.01148		0	0.3245 0.01412

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.65	627.1	0.4395	0.2876	0.02315	0.09077	0.3023	0.1914
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1863	0.3925	0.9988	0.9034	0.4050	0.003419	

x(ilm) Q(ilm)
0.7244-4.607e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.006281	0.1249	0.2353	0.01137		0	0.3246 0.01391

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.70 628.0 0.4396 0.2870 0.02297 0.09113 0.3023 0.1907
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1855 0.3930 0.9988 0.9039 0.4026 0.003455
x(ilm) Q(ilm)
0.7276-4.578e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.007482	0.1258	0.2335	0.01126		0	0.3247 0.01370

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.75 628.9 0.4397 0.2863 0.02279 0.09148 0.3024 0.1899
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1848 0.3935 0.9988 0.9045 0.4002 0.003491
x(ilm) Q(ilm)
0.7307-4.550e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.008660	0.1266	0.2316	0.01116		0	0.3249 0.01350

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 629.8 0.4397 0.2857 0.02261 0.09183 0.3024 0.1892
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1840 0.3940 0.9988 0.9050 0.3979 0.003527
x(ilm) Q(ilm)
0.7338-4.523e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.009815	0.1274	0.2298	0.01106		0	0.3250 0.01330

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.85 630.6 0.4398 0.2850 0.02243 0.09217 0.3025 0.1884
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1833 0.3944 0.9988 0.9055 0.3956 0.003563
x(ilm) Q(ilm)
0.7369-4.498e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.01095	0.1282	0.2281	0.01096		0	0.3251 0.01311

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.90 631.5 0.4399 0.2844 0.02225 0.09252 0.3025 0.1876
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1826 0.3949 0.9988 0.9060 0.3932 0.003600

x(ilm) Q(ilm)
0.7398-4.474e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2836	0.01206	0.1290	0.2264	0.01086		0	0.3252 0.01291

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.95 632.4 0.4400 0.2837 0.02208 0.09286 0.3026 0.1869
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1819 0.3954 0.9988 0.9065 0.3909 0.003636
x(ilm) Q(ilm)
0.7428-4.451e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2835	0.01315	0.1298	0.2247	0.01077		0	0.3253 0.01273

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 633.3 0.4400 0.2831 0.02190 0.09320 0.3026 0.1862
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1811 0.3959 0.9987 0.9070 0.3886 0.003674
x(ilm) Q(ilm)
0.7456-4.429e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2835	0.01422	0.1306	0.2230	0.01068		0	0.3255 0.01254

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.00 580.0 0.4498 0.3323 0.02905 0.06733 0.2935 0.3744
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9456 0.4104 0.002013 0.5605-8.069e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2912	0.1083	0.2488	0.007851	0.002614		0	0.3261 0.01520

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.05 580.6 0.4498 0.3315 0.02908 0.06748 0.2937 0.3748
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9453 0.4106 0.002026 0.5604-8.106e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2912	0.1085	0.2487	0.007847	0.002610		0	0.3260 0.01518

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)

6.10 581.3 0.4499 0.3307 0.02912 0.06763 0.2939 0.3752
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9450 0.4108 0.002039 0.5603-8.142e-5

mode bi mu pl ilm ru ky q H2O
0.2911 0.1087 0.2486 0.007842 0.002606 0 0.3260 0.01516

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.15 581.9 0.4499 0.3299 0.02915 0.06778 0.2942 0.3756
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9446 0.4109 0.002052 0.5602-8.179e-5

mode bi mu pl ilm ru ky q H2O
0.2911 0.1089 0.2485 0.007838 0.002602 0 0.3260 0.01514

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.20 582.6 0.4499 0.3291 0.02918 0.06793 0.2944 0.3761
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9443 0.4111 0.002065 0.5601-8.216e-5

mode bi mu pl ilm ru ky q H2O
0.2910 0.1091 0.2484 0.007834 0.002599 0 0.3259 0.01512

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.25 583.2 0.4499 0.3284 0.02921 0.06809 0.2946 0.3765
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9440 0.4112 0.002078 0.5599-8.253e-5

mode bi mu pl ilm ru ky q H2O
0.2910 0.1093 0.2483 0.007829 0.002595 0 0.3259 0.01510

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.30 583.9 0.4499 0.3276 0.02924 0.06824 0.2948 0.3769
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9437 0.4114 0.002091 0.5598-8.290e-5

mode bi mu pl ilm ru ky q H2O
0.2910 0.1095 0.2482 0.007825 0.002591 0 0.3259 0.01508

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.35 584.5 0.4499 0.3268 0.02927 0.06839 0.2950 0.3773
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9433 0.4116 0.002104 0.5597-8.327e-5

mode bi mu pl ilm ru ky q H2O
0.2909 0.1097 0.2481 0.007821 0.002587 0 0.3258 0.01506

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.40 585.2 0.4499 0.3260 0.02931 0.06854 0.2953 0.3777
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9997 0.9430 0.4117 0.002117 0.5596-8.365e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2909	0.1099	0.2480	0.007817	0.002583		0	0.3258 0.01504

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.45 585.8 0.4499 0.3252 0.02933 0.06869 0.2955 0.3781
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9427 0.4119 0.002130 0.5595-8.402e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2908	0.1101	0.2479	0.007813	0.002580		0	0.3258 0.01502

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.50 586.5 0.4499 0.3244 0.02936 0.06884 0.2957 0.3785
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9423 0.4121 0.002143 0.5594-8.439e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2908	0.1103	0.2478	0.007809	0.002576		0	0.3257 0.01501

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.55 587.1 0.4499 0.3236 0.02939 0.06899 0.2959 0.3789
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9420 0.4122 0.002156 0.5593-8.477e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2907	0.1105	0.2477	0.007806	0.002572		0	0.3257 0.01499

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.60 587.7 0.4499 0.3228 0.02942 0.06914 0.2962 0.3793
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.9417 0.4124 0.002169 0.5592-8.515e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2907	0.1107	0.2476	0.007802	0.002568		0	0.3257 0.01497

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.65 588.4 0.4499 0.3220 0.02945 0.06929 0.2964 0.3797
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9996 0.9414 0.4125 0.002182 0.5591-8.553e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2907	0.1109	0.2475	0.007798	0.002564		0	0.3256 0.01495

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.70 589.0 0.4499 0.3212 0.02948 0.06943 0.2966 0.3801
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9996 0.9410 0.4127 0.002195 0.5590-8.590e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2906	0.1111	0.2474	0.007795	0.002560		0	0.3256 0.01493

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
6.75	589.7	0.4499	0.3204	0.02951	0.06958	0.2968	0.3805
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9996	0.9407	0.4129	0.002208	0.5589	-8.628e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2906	0.1113	0.2473	0.007791	0.002556		0	0.3256 0.01491

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
6.80	590.3	0.4500	0.3196	0.02953	0.06973	0.2971	0.3809
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9996	0.9404	0.4130	0.002221	0.5589	-8.667e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2905	0.1115	0.2472	0.007788	0.002552		0	0.3255 0.01489

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
6.85	590.9	0.4500	0.3188	0.02956	0.06988	0.2973	0.3813
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9996	0.9400	0.4132	0.002234	0.5588	-8.705e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2905	0.1117	0.2471	0.007784	0.002548		0	0.3255 0.01487

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
6.90	591.5	0.4500	0.3180	0.02959	0.07003	0.2975	0.3817
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9996	0.9397	0.4133	0.002247	0.5587	-8.743e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2905	0.1119	0.2470	0.007781	0.002544		0	0.3255 0.01485

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
6.95	592.2	0.4500	0.3172	0.02961	0.07017	0.2978	0.3821
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9996	0.9394	0.4135	0.002259	0.5586	-8.781e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2904	0.1121	0.2469	0.007778	0.002540		0	0.3254 0.01483

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
7.00	592.8	0.4500	0.3164	0.02964	0.07032	0.2980	0.3825
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9996	0.9390	0.4137	0.002272	0.5585	-8.820e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2904	0.1123	0.2468	0.007775	0.002536		0	0.3254 0.01481

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)	
7.05	593.4	0.4500	0.3156	0.02966	0.07047	0.2982	0.3829	
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.9996	0.9387	0.4138	0.002285	0.5584-8.859e-5		
mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2903	0.1125	0.2467	0.007772	0.002532		0	0.3254 0.01479

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)	
7.10	594.0	0.4500	0.3148	0.02969	0.07062	0.2985	0.3832	
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.9996	0.9384	0.4140	0.002298	0.5584-8.897e-5		
mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2903	0.1127	0.2466	0.007769	0.002528		0	0.3253 0.01478

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)	
7.15	594.7	0.4500	0.3140	0.02971	0.07076	0.2987	0.3836	
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.9996	0.9381	0.4142	0.002310	0.5583-8.936e-5		
mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2902	0.1129	0.2465	0.007766	0.002524		0	0.3253 0.01476

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)	
7.20	595.3	0.4500	0.3132	0.02973	0.07091	0.2989	0.3840	
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.9996	0.9377	0.4143	0.002323	0.5582-8.975e-5		
mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2902	0.1131	0.2464	0.007763	0.002520		0	0.3253 0.01474

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)	
7.25	595.9	0.4500	0.3124	0.02976	0.07106	0.2992	0.3844	
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.9996	0.9374	0.4145	0.002336	0.5582-9.014e-5		
mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2902	0.1133	0.2463	0.007760	0.002516		0	0.3252 0.01472

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)	
7.30	596.5	0.4500	0.3116	0.02978	0.07120	0.2994	0.3848	
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.9996	0.9371	0.4146	0.002348	0.5581-9.053e-5		
mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2901	0.1135	0.2462	0.007758	0.002512		0	0.3252 0.01470

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)	
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7.35 597.1 0.4500 0.3108 0.02980 0.07135 0.2996 0.3852
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9367 0.4148 0.002361 0.5580-9.092e-5

mode bi mu pl ilm ru ky q H2O
0.2901 0.1137 0.2461 0.007755 0.002508 0 0.3252 0.01468

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.40 597.7 0.4500 0.3100 0.02983 0.07149 0.2999 0.3855
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9364 0.4150 0.002374 0.5580-9.131e-5

mode bi mu pl ilm ru ky q H2O
0.2900 0.1139 0.2460 0.007753 0.002504 0 0.3251 0.01466

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.45 598.3 0.4500 0.3092 0.02985 0.07164 0.3001 0.3859
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9361 0.4151 0.002386 0.5579-9.170e-5

mode bi mu pl ilm ru ky q H2O
0.2900 0.1141 0.2459 0.007750 0.002500 0 0.3251 0.01464

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.50 599.0 0.4500 0.3084 0.02987 0.07178 0.3004 0.3863
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9358 0.4153 0.002399 0.5578-9.210e-5

mode bi mu pl ilm ru ky q H2O
0.2899 0.1143 0.2458 0.007748 0.002496 0 0.3251 0.01462

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.55 599.6 0.4500 0.3076 0.02989 0.07193 0.3006 0.3867
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9354 0.4155 0.002411 0.5578-9.249e-5

mode bi mu pl ilm ru ky q H2O
0.2899 0.1145 0.2458 0.007746 0.002492 0 0.3250 0.01460

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.60 600.2 0.4500 0.3068 0.02991 0.07207 0.3008 0.3871
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9351 0.4156 0.002424 0.5577-9.289e-5

mode bi mu pl ilm ru ky q H2O
0.2898 0.1147 0.2457 0.007743 0.002488 0 0.3250 0.01458

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.65 600.8 0.4500 0.3060 0.02993 0.07222 0.3011 0.3874
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9995 0.9348 0.4158 0.002436 0.5577-9.329e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2898	0.1149	0.2456	0.007741	0.002484		0	0.3250 0.01456

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.70 601.4 0.4500 0.3052 0.02995 0.07236 0.3013 0.3878
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9345 0.4159 0.002448 0.5576-9.368e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2898	0.1151	0.2455	0.007739	0.002480		0	0.3249 0.01455

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.75 602.0 0.4500 0.3044 0.02997 0.07251 0.3016 0.3882
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9341 0.4161 0.002461 0.5576-9.408e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2897	0.1153	0.2454	0.007737	0.002475		0	0.3249 0.01453

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.80 602.6 0.4501 0.3036 0.02999 0.07265 0.3018 0.3886
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9338 0.4163 0.002473 0.5575-9.448e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2897	0.1155	0.2453	0.007735	0.002471		0	0.3249 0.01451

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.85 603.2 0.4501 0.3028 0.03001 0.07279 0.3020 0.3889
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.9335 0.4164 0.002485 0.5575-9.488e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2896	0.1157	0.2452	0.007733	0.002467		0	0.3248 0.01449

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.90 603.8 0.4501 0.3020 0.03003 0.07294 0.3023 0.3893
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9994 0.9332 0.4166 0.002498 0.5574-9.528e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2896	0.1159	0.2451	0.007731	0.002463		0	0.3248 0.01447

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.95 604.4 0.4501 0.3012 0.03004 0.07308 0.3025 0.3897
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9994 0.9328 0.4168 0.002510 0.5574-9.568e-5

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2895	0.1161	0.2450	0.007730	0.002459		0	0.3248 0.01445

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.00	605.0	0.4501	0.3004	0.03006	0.07322	0.3028	0.3900
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9994	0.9325	0.4169	0.002522	0.5573-9.609e-5	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2895	0.1163	0.2449	0.007728	0.002454		0	0.3247 0.01443

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.05	605.6	0.4501	0.2996	0.03008	0.07337	0.3030	0.3904
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9994	0.9322	0.4171	0.002534	0.5573-9.649e-5	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2894	0.1165	0.2448	0.007726	0.002450		0	0.3247 0.01441

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.10	606.2	0.4501	0.2988	0.03010	0.07351	0.3033	0.3908
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9994	0.9319	0.4172	0.002546	0.5573-9.689e-5	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2894	0.1167	0.2447	0.007725	0.002446		0	0.3247 0.01439

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.15	606.8	0.4501	0.2981	0.03011	0.07365	0.3035	0.3911
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9994	0.9315	0.4174	0.002558	0.5572-9.730e-5	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2893	0.1169	0.2446	0.007723	0.002442		0	0.3246 0.01437

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.20	607.4	0.4501	0.2973	0.03013	0.07379	0.3037	0.3915
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9994	0.9312	0.4176	0.002570	0.5572-9.770e-5	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2893	0.1171	0.2445	0.007722	0.002437		0	0.3246 0.01436

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.25	607.9	0.4501	0.2965	0.03014	0.07394	0.3040	0.3919
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9994	0.9309	0.4177	0.002582	0.5571-9.811e-5	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2893	0.1173	0.2444	0.007721	0.002433		0	0.3246 0.01434

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
8.30	608.5	0.4501	0.2957	0.03016	0.07408	0.3042	0.3922		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9994	0.9306	0.4179	0.002594	0.5571-9.852e-5			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2892	0.1175	0.2443	0.007719	0.002429		0	0.3245	0.01432

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
8.35	609.1	0.4501	0.2949	0.03017	0.07422	0.3045	0.3926		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9994	0.9303	0.4180	0.002606	0.5571-9.893e-5			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2892	0.1176	0.2442	0.007718	0.002425		0	0.3245	0.01430

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
8.40	609.7	0.4501	0.2941	0.03019	0.07436	0.3047	0.3929		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9993	0.9300	0.4182	0.002618	0.5571-9.934e-5			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2891	0.1178	0.2441	0.007717	0.002420		0	0.3245	0.01428

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
8.45	610.3	0.4501	0.2933	0.03020	0.07450	0.3050	0.3933		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9993	0.9296	0.4184	0.002630	0.5570-9.975e-5			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2891	0.1180	0.2440	0.007716	0.002416		0	0.3245	0.01426

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
8.50	610.9	0.4501	0.2925	0.03022	0.07464	0.3052	0.3936		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9993	0.9293	0.4185	0.002642	0.5570-0.0001002			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2890	0.1182	0.2439	0.007715	0.002412		0	0.3244	0.01424

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
8.55	611.5	0.4501	0.2917	0.03023	0.07478	0.3054	0.3940		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9993	0.9290	0.4187	0.002654	0.5570-0.0001006			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2890	0.1184	0.2439	0.007714	0.002407		0	0.3244	0.01422

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
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8.60 612.0 0.4501 0.2909 0.03024 0.07492 0.3057 0.3944
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9993 0.9287 0.4189 0.002665 0.5570-0.0001010

mode bi mu pl ilm ru ky q H2O
0.2889 0.1186 0.2438 0.007713 0.002403 0 0.3244 0.01420

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.65 612.6 0.4501 0.2901 0.03025 0.07506 0.3059 0.3947
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9993 0.9284 0.4190 0.002677 0.5569-0.0001014

mode bi mu pl ilm ru ky q H2O
0.2889 0.1188 0.2437 0.007712 0.002399 0 0.3243 0.01419

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.70 613.2 0.4501 0.2894 0.03027 0.07520 0.3062 0.3951
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9993 0.9281 0.4192 0.002689 0.5569-0.0001018

mode bi mu pl ilm ru ky q H2O
0.2888 0.1190 0.2436 0.007711 0.002394 0 0.3243 0.01417

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.75 613.8 0.4501 0.2886 0.03028 0.07534 0.3064 0.3954
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9993 0.9277 0.4193 0.002700 0.5569-0.0001022

mode bi mu pl ilm ru ky q H2O
0.2888 0.1192 0.2435 0.007711 0.002390 0 0.3243 0.01415

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.80 614.3 0.4501 0.2878 0.03029 0.07548 0.3067 0.3958
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9992 0.9274 0.4195 0.002712 0.5569-0.0001026

mode bi mu pl ilm ru ky q H2O
0.2888 0.1194 0.2434 0.007710 0.002386 0 0.3242 0.01413

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.85 614.9 0.4501 0.2870 0.03030 0.07562 0.3069 0.3961
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9992 0.9271 0.4197 0.002724 0.5569-0.0001031

mode bi mu pl ilm ru ky q H2O
0.2887 0.1196 0.2433 0.007709 0.002381 0 0.3242 0.01411

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.90 615.5 0.4501 0.2862 0.03031 0.07576 0.3072 0.3965
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9992 0.9268 0.4198 0.002735 0.5569-0.0001035

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2887	0.1198	0.2432	0.007709	0.002377		0	0.3242 0.01409

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.95	616.1	0.4501	0.2854	0.03032	0.07590	0.3074	0.3968
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9992	0.9265	0.4200	0.002746	0.5568-0.0001039	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2886	0.1200	0.2431	0.007708	0.002372		0	0.3241 0.01407

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.00	616.6	0.4501	0.2847	0.03033	0.07604	0.3076	0.3971
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9992	0.9262	0.4201	0.002758	0.5568-0.0001043	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2886	0.1202	0.2430	0.007708	0.002368		0	0.3241 0.01405

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.05	617.2	0.4501	0.2839	0.03034	0.07618	0.3079	0.3975
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9992	0.9259	0.4203	0.002769	0.5568-0.0001047	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2885	0.1204	0.2429	0.007707	0.002364		0	0.3241 0.01404

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.10	617.8	0.4501	0.2831	0.03035	0.07632	0.3081	0.3978
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9992	0.9256	0.4205	0.002781	0.5568-0.0001052	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2885	0.1206	0.2428	0.007707	0.002359		0	0.3240 0.01402

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.15	618.3	0.4501	0.2823	0.03036	0.07646	0.3084	0.3982
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9992	0.9253	0.4206	0.002792	0.5568-0.0001056	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2884	0.1208	0.2427	0.007707	0.002355		0	0.3240 0.01400

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.20	618.9	0.4501	0.2815	0.03037	0.07659	0.3086	0.3985
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9991	0.9249	0.4208	0.002803	0.5568-0.0001060	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2884	0.1210	0.2426	0.007707	0.002350		0	0.3240 0.01398

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.25	619.5	0.4501	0.2808	0.03038	0.07673	0.3089	0.3989
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9991	0.9246	0.4209	0.002814	0.5568-0.0001064	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2883	0.1212	0.2425	0.007707	0.002346		0	0.3239 0.01396

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.30	620.0	0.4501	0.2800	0.03039	0.07687	0.3091	0.3992
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9991	0.9243	0.4211	0.002826	0.5568-0.0001069	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2883	0.1214	0.2425	0.007706	0.002341		0	0.3239 0.01394

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.35	620.6	0.4501	0.2792	0.03039	0.07701	0.3094	0.3995
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9991	0.9240	0.4213	0.002837	0.5568-0.0001073	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2882	0.1216	0.2424	0.007706	0.002337		0	0.3239 0.01392

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.40	621.2	0.4501	0.2784	0.03040	0.07715	0.3096	0.3999
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9991	0.9237	0.4214	0.002848	0.5568-0.0001077	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2882	0.1217	0.2423	0.007706	0.002332		0	0.3238 0.01391

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.45	621.7	0.4501	0.2777	0.03041	0.07728	0.3098	0.4002
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9991	0.9234	0.4216	0.002859	0.5568-0.0001081	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2882	0.1219	0.2422	0.007707	0.002328		0	0.3238 0.01389

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.50	622.3	0.4501	0.2769	0.03041	0.07742	0.3101	0.4005
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9990	0.9231	0.4217	0.002870	0.5568-0.0001086	

mode	bi	mu	pl	ilm	ru	ky	q	H2O
	0.2881	0.1221	0.2421	0.007707	0.002324		0	0.3238 0.01387

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
9.55	622.8	0.4501	0.2761	0.03042	0.07756	0.3103	0.4009		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9990	0.9228	0.4219	0.002881	0.5568-0.0001090			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2881	0.1223	0.2420	0.007707	0.002319		0	0.3237	0.01385

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
9.60	623.4	0.4501	0.2753	0.03043	0.07769	0.3106	0.4012		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9990	0.9225	0.4221	0.002892	0.5568-0.0001094			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2880	0.1225	0.2419	0.007707	0.002315		0	0.3237	0.01383

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
9.65	624.0	0.4501	0.2746	0.03043	0.07783	0.3108	0.4015		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9990	0.9222	0.4222	0.002903	0.5568-0.0001099			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2880	0.1227	0.2418	0.007707	0.002310		0	0.3237	0.01381

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
9.70	624.5	0.4501	0.2738	0.03044	0.07797	0.3110	0.4019		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9990	0.9219	0.4224	0.002913	0.5568-0.0001103			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2879	0.1229	0.2417	0.007708	0.002305		0	0.3236	0.01380

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
9.75	625.1	0.4501	0.2730	0.03044	0.07810	0.3113	0.4022		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9990	0.9216	0.4225	0.002924	0.5568-0.0001107			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2879	0.1231	0.2416	0.007708	0.002301		0	0.3236	0.01378

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
9.80	625.6	0.4501	0.2723	0.03045	0.07824	0.3115	0.4025		
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.9990	0.9213	0.4227	0.002935	0.5568-0.0001112			
mode	bi	mu	pl	ilm	ru	ky	q	H2O	
	0.2878	0.1233	0.2415	0.007708	0.002296		0	0.3236	0.01376

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)		
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9.85 626.2 0.4501 0.2715 0.03045 0.07837 0.3118 0.4029
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9989 0.9210 0.4228 0.002946 0.5568-0.0001116

mode bi mu pl ilm ru ky q H2O
0.2878 0.1235 0.2415 0.007709 0.002292 0 0.3235 0.01374

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
9.90 626.7 0.4501 0.2708 0.03045 0.07851 0.3120 0.4032
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9989 0.9207 0.4230 0.002956 0.5569-0.0001120

mode bi mu pl ilm ru ky q H2O
0.2877 0.1237 0.2414 0.007709 0.002287 0 0.3235 0.01372

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
9.95 627.3 0.4501 0.2700 0.03046 0.07865 0.3123 0.4035
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9989 0.9204 0.4232 0.002967 0.5569-0.0001125

mode bi mu pl ilm ru ky q H2O
0.2877 0.1238 0.2413 0.007710 0.002283 0 0.3235 0.01371

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.00 627.8 0.4501 0.2692 0.03046 0.07878 0.3125 0.4038
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9989 0.9201 0.4233 0.002977 0.5569-0.0001129

mode bi mu pl ilm ru ky q H2O
0.2876 0.1240 0.2412 0.007711 0.002278 0 0.3235 0.01369

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : liq, bi, mu, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.65 679.2 0.07374 0.1978 0.8133 0.0074940.0006753 0.7228
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7178 0.4435 0.3467 0.02801 0.1052 0.2452
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4084 0.9322 0.1619 0.3195 0.009588 0.6722
Q(ilm)

-6.49E-05

mode liq bi mu pl ilm ky q H2O
0 0.2917 6.327e-5 0.3196 0.01015 0.03478 0.3093 0.03439

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.70 679.2 0.07325 0.1975 0.8148 0.0075360 0.0006842 0.7230
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7185 0.4434 0.3450 0.02798 0.1051 0.2461
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4086 0.9319 0.1627 0.3195 0.009510 0.6725
Q(ilm)
-6.48E-05

mode liq bi mu pl ilm ky q H2O
0 0.29150 0.003348 0.3195 0.01017 0.03485 0.3092 0.03437

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.75 679.3 0.07276 0.1973 0.8163 0.0075800 0.0006933 0.7233
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7192 0.4434 0.3433 0.02795 0.1050 0.2471
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4088 0.9316 0.1635 0.3196 0.009432 0.6728
Q(ilm)
-6.47E-05

mode liq bi mu pl ilm ky q H2O
0 0.29140 0.006061 0.3195 0.01018 0.03492 0.3091 0.03436

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 679.3 0.07228 0.1970 0.8178 0.0076230 0.0007025 0.7235
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7199 0.4434 0.3416 0.02792 0.1050 0.2481
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4090 0.9312 0.1642 0.3196 0.009355 0.6731
Q(ilm)
-6.47E-05

mode liq bi mu pl ilm ky q H2O
0 0.29120 0.008772 0.3194 0.01020 0.03499 0.3090 0.03434

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.85 679.4 0.07181 0.1968 0.8192 0.0076670 0.0007117 0.7238
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7206 0.4433 0.3399 0.02789 0.1049 0.2491
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4092 0.9309 0.1650 0.3197 0.009278 0.6734
Q(ilm)
-6.46E-05

mode liq bi mu pl ilm ky q H2O
0 0.2910 0.001148 0.3194 0.01021 0.03506 0.3088 0.03432

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.90 679.4 0.07133 0.1966 0.8207 0.0077110 0.0007211 0.7240

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7213 0.4433 0.3382 0.02786 0.1048 0.2501
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4093 0.9306 0.1658 0.3197 0.009202 0.6737
Q(ilm)

-6.45E-05

mode liq bi mu pl ilm ky q H2O
0 0.2909 0.001419 0.3193 0.01023 0.03513 0.3087 0.03430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.95 679.4 0.07086 0.1963 0.8221 0.0077560.0007305 0.7243
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7220 0.4433 0.3366 0.02783 0.1047 0.2511
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4095 0.9302 0.1666 0.3198 0.009127 0.6740
Q(ilm)

-6.44E-05

mode liq bi mu pl ilm ky q H2O
0 0.2907 0.001689 0.3193 0.01024 0.03520 0.3086 0.03428

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 679.5 0.07039 0.1961 0.8235 0.0078000.0007400 0.7245
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7227 0.4432 0.3349 0.02780 0.1047 0.2521
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4097 0.9299 0.1674 0.3198 0.009052 0.6743
Q(ilm)

-6.44E-05

mode liq bi mu pl ilm ky q H2O
0 0.2905 0.001959 0.3192 0.01026 0.03527 0.3085 0.03426

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.05 679.5 0.06993 0.1958 0.8250 0.0078450.0007497 0.7248
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7234 0.4432 0.3332 0.02777 0.1046 0.2531
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4099 0.9296 0.1683 0.3199 0.008977 0.6746
Q(ilm)

-6.43E-05

mode liq bi mu pl ilm ky q H2O
0 0.2904 0.002229 0.3192 0.01027 0.03534 0.3084 0.03424

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.10 679.5 0.06946 0.1956 0.8264 0.0078910.0007594 0.7250
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7241 0.4432 0.3315 0.02774 0.1045 0.2541

fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4101 0.9293 0.1691 0.3200 0.008903 0.6749
Q(ilm)

-6.42E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2902	0.002499	0.3191	0.01029	0.03541	0.3083	0.03422	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.15 679.6 0.06901 0.1954 0.8278 0.0079360.0007692 0.7253
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7248 0.4431 0.3299 0.02771 0.1045 0.2551
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4103 0.9289 0.1699 0.3200 0.008830 0.6752
Q(ilm)

-6.41E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2901	0.002769	0.3191	0.01030	0.03548	0.3081	0.03420	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 679.6 0.06855 0.1951 0.8292 0.0079820.0007792 0.7255
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7255 0.4431 0.3282 0.02768 0.1044 0.2560
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4105 0.9286 0.1707 0.3201 0.008757 0.6754
Q(ilm)

-6.41E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2899	0.003038	0.3190	0.01032	0.03555	0.3080	0.03418	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.25 679.6 0.06810 0.1949 0.8305 0.0080290.0007892 0.7258
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7261 0.4431 0.3265 0.02764 0.1043 0.2570
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4106 0.9283 0.1716 0.3201 0.008685 0.6757
Q(ilm)

-6.40E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2897	0.003308	0.3189	0.01034	0.03561	0.3079	0.03416	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.30 679.7 0.06765 0.1946 0.8319 0.0080760.0007993 0.7260
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7268 0.4430 0.3249 0.02761 0.1042 0.2580
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4108 0.9279 0.1724 0.3202 0.008613 0.6760

Q(ilm)

-6.39E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2896	0.003577	0.3189	0.01035	0.03568	0.3078	0.03414	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.35	679.7	0.06720	0.1944	0.8332	0.0081230	0.0008096	0.7262
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7275	0.4430	0.3232	0.02758	0.1042	0.2590	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4110	0.9276	0.1733	0.3202	0.008542	0.6763	
	Q(ilm)						

-6.38E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2894	0.003846	0.3188	0.01037	0.03575	0.3077	0.03412	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	679.7	0.06675	0.1942	0.8346	0.0081700	0.0008199	0.7265
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7281	0.4430	0.3215	0.02754	0.1041	0.2600	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4112	0.9273	0.1742	0.3203	0.008471	0.6765	
	Q(ilm)						

-6.38E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2892	0.004114	0.3188	0.01038	0.03581	0.3076	0.03410	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.45	679.7	0.06631	0.1939	0.8359	0.0082180	0.0008303	0.7267
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7288	0.4429	0.3199	0.02751	0.1040	0.2610	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4113	0.9269	0.1750	0.3203	0.008401	0.6768	
	Q(ilm)						

-6.37E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2891	0.004383	0.3187	0.01040	0.03588	0.3075	0.03408	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.50	679.8	0.06587	0.1937	0.8372	0.0082660	0.0008409	0.7270
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7294	0.4429	0.3182	0.02747	0.1039	0.2620	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4115	0.9266	0.1759	0.3204	0.008331	0.6771	
	Q(ilm)						

-6.36E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2889	0.004652	0.3187	0.01041	0.03595	0.3074	0.03406	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.55	679.8	0.06544	0.1935	0.8385	0.0083140	0.0008515	0.7272
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7301	0.4429	0.3166	0.02743	0.1039	0.2630	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4117	0.9263	0.1768	0.3205	0.008262	0.6773	
	Q(ilm)						

-6.36E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2887	0.004920	0.3186	0.01043	0.03601	0.3073	0.03404	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	679.8	0.06501	0.1932	0.8398	0.0083630	0.0008623	0.7274
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7307	0.4428	0.3149	0.02740	0.1038	0.2640	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4119	0.9260	0.1777	0.3205	0.008193	0.6776	
	Q(ilm)						

-6.35E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2886	0.005188	0.3185	0.01044	0.03608	0.3071	0.03402	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.65	679.8	0.06458	0.1930	0.8411	0.0084120	0.0008731	0.7277
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7313	0.4428	0.3133	0.02736	0.1037	0.2649	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4120	0.9256	0.1786	0.3206	0.008125	0.6779	
	Q(ilm)						

-6.34E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2884	0.005456	0.3185	0.01046	0.03614	0.3070	0.03400	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.70	679.8	0.06415	0.1928	0.8424	0.0084610	0.0008841	0.7279
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7320	0.4428	0.3117	0.02732	0.1036	0.2659	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4122	0.9253	0.1795	0.3206	0.008057	0.6781	
	Q(ilm)						

-6.33E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
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0 0.2883 0.005725 0.3184 0.01047 0.03621 0.3069 0.03398

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.75 679.8 0.06372 0.1925 0.8437 0.0085110.0008952 0.7281
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7326 0.4427 0.3100 0.02729 0.1035 0.2669
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4124 0.9250 0.1804 0.3207 0.007990 0.6784
Q(ilm)
-6.33E-05

mode liq bi mu pl ilm ky q H2O
0 0.2881 0.005993 0.3184 0.01049 0.03627 0.3068 0.03396

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 679.9 0.06330 0.1923 0.8449 0.0085610.0009064 0.7284
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7332 0.4427 0.3084 0.02725 0.1035 0.2679
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4126 0.9247 0.1813 0.3207 0.007923 0.6787
Q(ilm)
-6.32E-05

mode liq bi mu pl ilm ky q H2O
0 0.2879 0.006260 0.3183 0.01050 0.03633 0.3067 0.03394

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>
phases : liq, bi, mu, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.65 679.2 0.07374 0.1978 0.8132 0.0074970.0006753 0.7228
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7178 0.4435 0.3467 0.02801 0.1052 0.2451
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4084 0.9322 0.1618 0.3196 0.009587 0.6722
Q(ilm)
-6.49E-05

mode liq bi mu pl ilm ky q H2O
0.0004371 0.2917 0 0.3194 0.01015 0.03480 0.3092 0.03423

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.70 679.3 0.07329 0.1975 0.8145 0.0075540.0006844 0.7230
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7185 0.4434 0.3451 0.02799 0.1051 0.2461
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)

0.4086 0.9318 0.1623 0.3202 0.009504 0.6725

Q(ilm)

-6.49E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.002326	0.2916	0	0.3187	0.01017	0.03494	0.3088	0.03352

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.75 679.4 0.07284 0.1972 0.8157 0.0076130.0006937 0.7233

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7192 0.4434 0.3435 0.02796 0.1051 0.2470

fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)

0.4088 0.9315 0.1628 0.3209 0.009421 0.6727

Q(ilm)

-6.48E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.004234	0.2914	0	0.3180	0.01018	0.03507	0.3083	0.03280

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.80 679.5 0.07239 0.1970 0.8169 0.0076720.0007030 0.7236

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7199 0.4433 0.3418 0.02794 0.1050 0.2479

fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)

0.4090 0.9311 0.1633 0.3215 0.009340 0.6730

Q(ilm)

-6.48E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.006161	0.2912	0	0.3173	0.01019	0.03521	0.3079	0.03207

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.85 679.6 0.07195 0.1967 0.8181 0.0077320.0007125 0.7238

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7205 0.4433 0.3402 0.02792 0.1050 0.2488

fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)

0.4092 0.9307 0.1638 0.3222 0.009258 0.6732

Q(ilm)

-6.47E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.008107	0.2911	0	0.3165	0.01020	0.03535	0.3074	0.03132

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.90 679.7 0.07151 0.1964 0.8193 0.0077920.0007221 0.7241

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7212 0.4433 0.3386 0.02790 0.1049 0.2498

fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)

0.4094 0.9303 0.1642 0.3228 0.009178 0.6734

Q(ilm)

-6.47E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0.01007	0.2909	0	0.3157	0.01022	0.03549	0.3070	0.03057	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.95	679.8	0.07107	0.1961	0.8204	0.0078540	0.0007317	0.7243
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7219	0.4432	0.3370	0.02787	0.1049	0.2507	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4096	0.9299	0.1647	0.3235	0.009098	0.6737	
	Q(ilm)						

-6.46E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0.01206	0.2908	0	0.3150	0.01023	0.03563	0.3065	0.02980	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	679.9	0.07064	0.1959	0.8216	0.0079160	0.0007415	0.7246
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7226	0.4432	0.3354	0.02785	0.1048	0.2516	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4098	0.9295	0.1652	0.3242	0.009019	0.6739	
	Q(ilm)						

-6.46E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0.01406	0.2906	0	0.3142	0.01024	0.03576	0.3061	0.02903	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.05	680.0	0.07021	0.1956	0.8227	0.0079790	0.0007514	0.7249
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7232	0.4432	0.3338	0.02782	0.1048	0.2525	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4100	0.9291	0.1656	0.3249	0.008941	0.6741	
	Q(ilm)						

-6.45E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0.01608	0.2905	0	0.3134	0.01025	0.03590	0.3056	0.02824	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.10	680.1	0.06979	0.1953	0.8238	0.0080420	0.0007613	0.7251
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7239	0.4431	0.3323	0.02780	0.1047	0.2534	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4102	0.9286	0.1661	0.3256	0.008864	0.6744	
	Q(ilm)						

-6.45E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.01812	0.2903	0	0.3126	0.01027	0.03603	0.3052	0.02744

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.15	680.2	0.06936	0.1951	0.8249	0.0081070	0.0007714	0.7254
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7245	0.4431	0.3307	0.02777	0.1047	0.2543	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4104	0.9282	0.1665	0.3263	0.008787	0.6746	
	Q(ilm)						

-6.45E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.02018	0.2902	0	0.3118	0.01028	0.03617	0.3048	0.02664

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	680.3	0.06894	0.1948	0.8260	0.0081720	0.0007816	0.7256
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7252	0.4430	0.3291	0.02775	0.1046	0.2552	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4106	0.9278	0.1670	0.3270	0.008711	0.6748	
	Q(ilm)						

-6.44E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.02226	0.2900	0	0.3110	0.01029	0.03630	0.3043	0.02582

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.25	680.5	0.06853	0.1945	0.8271	0.0082390	0.0007919	0.7259
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7258	0.4430	0.3275	0.02772	0.1046	0.2561	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4108	0.9274	0.1674	0.3277	0.008635	0.6750	
	Q(ilm)						

-6.44E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.02436	0.2899	0	0.3102	0.01030	0.03644	0.3039	0.02499

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.30	680.6	0.06812	0.1942	0.8281	0.0083060	0.0008024	0.7261
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7265	0.4430	0.3260	0.02770	0.1045	0.2570	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4110	0.9270	0.1678	0.3285	0.008560	0.6752	
	Q(ilm)						

-6.43E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.02647	0.2897	0	0.3094	0.01031	0.03657	0.3034	0.02415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.35 680.7 0.06771 0.1940 0.8292 0.0083740.0008129 0.7264
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7271 0.4429 0.3244 0.02767 0.1045 0.2579
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4111 0.9266 0.1682 0.3292 0.008486 0.6754
Q(ilm)

-6.43E-05

mode liq bi mu pl ilm ky q H2O
0.02861 0.2896 0 0.3085 0.01033 0.03670 0.3030 0.02330

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 680.8 0.06730 0.1937 0.8302 0.0084420.0008236 0.7266
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7277 0.4429 0.3228 0.02765 0.1044 0.2588
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4113 0.9261 0.1687 0.3300 0.008413 0.6757
Q(ilm)

-6.43E-05

mode liq bi mu pl ilm ky q H2O
0.03076 0.2894 0 0.3077 0.01034 0.03684 0.3025 0.02244

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.45 680.9 0.06690 0.1934 0.8313 0.0085120.0008343 0.7269
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7284 0.4428 0.3213 0.02762 0.1044 0.2597
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4115 0.9257 0.1691 0.3308 0.008340 0.6759
Q(ilm)

-6.42E-05

mode liq bi mu pl ilm ky q H2O
0.03294 0.2893 0 0.3068 0.01035 0.03697 0.3021 0.02157

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50 681.0 0.06650 0.1931 0.8323 0.0085830.0008452 0.7271
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7290 0.4428 0.3197 0.02759 0.1044 0.2606
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4117 0.9253 0.1695 0.3315 0.008268 0.6761
Q(ilm)

-6.42E-05

mode liq bi mu pl ilm ky q H2O
0.03513 0.2891 0 0.3060 0.01036 0.03710 0.3017 0.02069

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.55 681.1 0.06610 0.1929 0.8333 0.0086540.0008562 0.7274
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7296 0.4428 0.3182 0.02756 0.1043 0.2615
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4119 0.9248 0.1699 0.3323 0.008196 0.6763
Q(ilm)

-6.42E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.03734	0.2889	0	0.3051	0.01038	0.03723	0.3012	0.01979

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 681.2 0.06571 0.1926 0.8343 0.0087270.0008673 0.7276
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7302 0.4427 0.3167 0.02754 0.1043 0.2624
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4121 0.9244 0.1703 0.3331 0.008126 0.6765
Q(ilm)

-6.41E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.03957	0.2888	0	0.3042	0.01039	0.03737	0.3008	0.01889

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.65 681.3 0.06532 0.1923 0.8352 0.0088000.0008785 0.7279
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7308 0.4427 0.3151 0.02751 0.1042 0.2633
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4123 0.9240 0.1707 0.3339 0.008055 0.6766
Q(ilm)

-6.41E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.04181	0.2886	0	0.3033	0.01040	0.03750	0.3004	0.01797

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70 681.4 0.06493 0.1921 0.8362 0.0088750.0008899 0.7281
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7314 0.4426 0.3136 0.02748 0.1042 0.2642
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4125 0.9235 0.1710 0.3347 0.007986 0.6768
Q(ilm)

-6.41E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.04408	0.2885	0	0.3024	0.01041	0.03763	0.2999	0.01705

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.75 681.5 0.06454 0.1918 0.8371 0.0089500.0009014 0.7284
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7320 0.4426 0.3121 0.02745 0.1041 0.2650
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4126 0.9231 0.1714 0.3356 0.007917 0.6770
Q(ilm)

-6.40E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.04636	0.2883	0	0.3015	0.01042	0.03776	0.2995	0.01611

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 681.6 0.06416 0.1915 0.8381 0.0090260.0009130 0.7286
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7326 0.4425 0.3106 0.02743 0.1041 0.2659
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4128 0.9226 0.1718 0.3364 0.007849 0.6772
Q(ilm)

-6.40E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.04867	0.2882	0	0.3006	0.01043	0.03788	0.2991	0.01517

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.85 681.7 0.06378 0.1912 0.8390 0.0091040.0009247 0.7289
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7332 0.4425 0.3090 0.02740 0.1041 0.2668
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4130 0.9222 0.1721 0.3373 0.007781 0.6774
Q(ilm)

-6.40E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.05099	0.2880	0	0.2997	0.01045	0.03801	0.2986	0.01421

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 681.8 0.06341 0.1910 0.8399 0.0091820.0009365 0.7291
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7338 0.4425 0.3075 0.02737 0.1040 0.2677
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4132 0.9217 0.1725 0.3381 0.007714 0.6776
Q(ilm)

-6.40E-05

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.05333	0.2879	0	0.2987	0.01046	0.03814	0.2982	0.01325

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.95 681.9 0.06304 0.1907 0.8408 0.0092610.0009485 0.7293
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7344 0.4424 0.3060 0.02734 0.1040 0.2685
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)

```

0.4133 0.9213 0.1728 0.3390 0.007647 0.6778
Q(ilm)
-6.39E-05

mode  liq  bi  mu  pl  ilm  ky  q  H2O
0.05568 0.2877 0 0.2978 0.01047 0.03827 0.2978 0.01227
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 682.1 0.06267 0.1904 0.8417 0.0093420 0.0009606 0.7296
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7349 0.4424 0.3045 0.02731 0.1039 0.2694
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4135 0.9208 0.1732 0.3399 0.007581 0.6779
Q(ilm)
-6.39E-05

```

```

mode  liq  bi  mu  pl  ilm  ky  q  H2O
0.05806 0.2876 0 0.2969 0.01048 0.03840 0.2973 0.01128
calcs use:

```

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197
<=====>
phases : liq, bi, pl, ilm, ky, q, H2O
<== nothing in range ==>
calcs use:

```

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197
<=====>
phases : liq, bi, g, pl, ilm, ky, q, H2O

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.53 690.6 0.09757 0.2079 0.8468 0.006311 0.001360 0.7169
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6808 0.4423 0.3686 0.02693 0.09946 0.2332
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7664 0.03502 0.001970 0.3200 0.007826 0.6842
Q(ilm)
-6.41E-05

```

```

mode  liq  bi  g  pl  ilm  ky  q  H2O
0 0.2922 0 0.3190 0.01062 0.03304 0.3110 0.03405
calcs use:

```

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

```

<=====>

phases : bi, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.00 677.7 0.4412 0.3864 0.02577 0.09441 0.2288 0.7609
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02248 0.001461 0.3204 0.006506 0.6934-5.902e-5

mode bi g pl ilm ky q H2O
0.2925 0 0.3186 0.01106 0.03162 0.3124 0.03376

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.05 678.2 0.4412 0.3858 0.02581 0.09458 0.2289 0.7611
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02280 0.001474 0.3204 0.006547 0.6931-5.918e-5

mode bi g pl ilm ky q H2O
0.2925 0 0.3186 0.01104 0.03166 0.3124 0.03377

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.10 678.6 0.4413 0.3852 0.02585 0.09475 0.2291 0.7612
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02312 0.001487 0.3204 0.006589 0.6928-5.934e-5

mode bi g pl ilm ky q H2O
0.2925 0 0.3186 0.01103 0.03171 0.3123 0.03378

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.15 679.1 0.4413 0.3846 0.02589 0.09491 0.2292 0.7613
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02345 0.001501 0.3204 0.006630 0.6925-5.950e-5

mode bi g pl ilm ky q H2O
0.2925 0 0.3187 0.01101 0.03175 0.3123 0.03379

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.20 679.6 0.4414 0.3841 0.02593 0.09508 0.2293 0.7615
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02378 0.001514 0.3204 0.006672 0.6922-5.966e-5

mode bi g pl ilm ky q H2O
0.2925 0 0.3187 0.01100 0.03180 0.3123 0.03379

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.25 680.0 0.4414 0.3835 0.02597 0.09525 0.2295 0.7616
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02412 0.001528 0.3204 0.006714 0.6920-5.982e-5

mode bi g pl ilm ky q H2O
0.2925 0 0.3187 0.01099 0.03185 0.3122 0.03380

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.30	680.5	0.4414	0.3829	0.02600	0.09541	0.2296	0.7618
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.02446	0.001542	0.3204	0.006756	0.6917	-5.998e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2925	0	0.3187	0.01097	0.03189	0.3122	0.03381

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.35	680.9	0.4415	0.3823	0.02604	0.09558	0.2297	0.7619
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.02481	0.001557	0.3203	0.006798	0.6914	-6.014e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2925	0	0.3187	0.01096	0.03194	0.3121	0.03382

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.40	681.4	0.4415	0.3817	0.02608	0.09575	0.2299	0.7621
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.02516	0.001571	0.3203	0.006840	0.6911	-6.030e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2924	0	0.3187	0.01094	0.03198	0.3121	0.03383

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.45	681.8	0.4415	0.3812	0.02612	0.09591	0.2300	0.7622
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.02552	0.001586	0.3203	0.006882	0.6908	-6.047e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2924	0	0.3187	0.01093	0.03203	0.3120	0.03384

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.50	682.3	0.4416	0.3806	0.02616	0.09608	0.2301	0.7624
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.02589	0.001601	0.3203	0.006925	0.6905	-6.063e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2924	0	0.3188	0.01091	0.03208	0.3120	0.03385

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.55	682.7	0.4416	0.3800	0.02620	0.09624	0.2303	0.7626
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.02626	0.001616	0.3203	0.006967	0.6902	-6.079e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2924	0	0.3188	0.01090	0.03212	0.3119	0.03386

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
---------	-------	-------	-------	-------	-------	-------	------

6.60 683.2 0.4416 0.3794 0.02624 0.09641 0.2304 0.7627
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02664 0.001631 0.3203 0.007010 0.6899-6.096e-5

mode bi g pl ilm ky q H2O
0.2924 0 0.3188 0.01088 0.03217 0.3119 0.03387

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.65 683.6 0.4417 0.3788 0.02628 0.09657 0.2306 0.7629
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02702 0.001647 0.3203 0.007053 0.6896-6.112e-5

mode bi g pl ilm ky q H2O
0.2924 0 0.3188 0.01087 0.03222 0.3118 0.03388

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.70 684.0 0.4417 0.3783 0.02631 0.09674 0.2307 0.7631
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02742 0.001663 0.3203 0.007096 0.6893-6.129e-5

mode bi g pl ilm ky q H2O
0.2924 0 0.3188 0.01086 0.03226 0.3118 0.03389

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.75 684.5 0.4417 0.3777 0.02635 0.09690 0.2308 0.7632
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02781 0.001679 0.3202 0.007139 0.6890-6.145e-5

mode bi g pl ilm ky q H2O
0.2924 0 0.3188 0.01084 0.03231 0.3118 0.03390

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.80 684.9 0.4418 0.3771 0.02639 0.09707 0.2310 0.7634
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02822 0.001695 0.3202 0.007182 0.6887-6.162e-5

mode bi g pl ilm ky q H2O
0.2924 0 0.3188 0.01083 0.03236 0.3117 0.03391

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.85 685.3 0.4418 0.3765 0.02643 0.09723 0.2311 0.7636
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02863 0.001712 0.3202 0.007225 0.6884-6.178e-5

mode bi g pl ilm ky q H2O
0.2924 0 0.3189 0.01081 0.03240 0.3117 0.03392

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.90 685.7 0.4418 0.3759 0.02647 0.09740 0.2313 0.7638
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)

0.02905 0.001729 0.3202 0.007269 0.6881-6.195e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3189	0.01080	0.03245	0.3116	0.03393	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.95	686.1	0.4419	0.3753	0.02650	0.09756	0.2314	0.7640
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.02948	0.001746	0.3202	0.007312	0.6878	-6.211e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3189	0.01079	0.03249	0.3116	0.03394	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.00	686.5	0.4419	0.3748	0.02654	0.09773	0.2316	0.7642
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.02991	0.001764	0.3202	0.007356	0.6875	-6.228e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3189	0.01077	0.03254	0.3115	0.03395	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.05	686.9	0.4419	0.3742	0.02658	0.09789	0.2317	0.7644
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03035	0.001781	0.3202	0.007400	0.6872	-6.245e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3189	0.01076	0.03259	0.3115	0.03396	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.10	687.3	0.4420	0.3736	0.02662	0.09805	0.2319	0.7646
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03080	0.001800	0.3201	0.007443	0.6869	-6.262e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3189	0.01074	0.03263	0.3114	0.03397	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.15	687.7	0.4420	0.3730	0.02665	0.09822	0.2320	0.7648
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03126	0.001818	0.3201	0.007488	0.6866	-6.278e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3189	0.01073	0.03268	0.3114	0.03398	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.20	688.1	0.4421	0.3724	0.02669	0.09838	0.2322	0.7650
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03172	0.001837	0.3201	0.007532	0.6863	-6.295e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3189	0.01071	0.03273	0.3113	0.03399	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.25	688.5	0.4421	0.3718	0.02673	0.09855	0.2323	0.7652
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03219	0.001856	0.3201	0.007576	0.6859	-6.312e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3190	0.01070	0.03277	0.3113	0.03399	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.30	688.9	0.4421	0.3713	0.02677	0.09871	0.2325	0.7654
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03268	0.001875	0.3201	0.007620	0.6856	-6.329e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3190	0.01069	0.03282	0.3112	0.03400	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.35	689.3	0.4422	0.3707	0.02680	0.09887	0.2326	0.7656
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03317	0.001895	0.3201	0.007665	0.6853	-6.346e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2923	0	0.3190	0.01067	0.03287	0.3112	0.03401	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.40	689.6	0.4422	0.3701	0.02684	0.09903	0.2328	0.7658
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03367	0.001915	0.3201	0.007709	0.6850	-6.363e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2922	0	0.3190	0.01066	0.03291	0.3112	0.03402	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.45	690.0	0.4422	0.3695	0.02688	0.09920	0.2330	0.7661
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03418	0.001936	0.3200	0.007754	0.6847	-6.380e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2922	0	0.3190	0.01065	0.03296	0.3111	0.03403	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.50	690.4	0.4423	0.3689	0.02691	0.09936	0.2331	0.7663
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03469	0.001957	0.3200	0.007799	0.6844	-6.397e-5

mode	bi	g	pl	ilm	ky	q	H2O
0.2922	0	0.3190	0.01063	0.03301	0.3111	0.03404	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.55	690.8	0.4423	0.3683	0.02695	0.09952	0.2333	0.7665
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03522	0.001978	0.3200	0.007844	0.6841	-6.414e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2922	0	0.3190	0.01062	0.03305	0.3110	0.03405

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.60	691.1	0.4423	0.3677	0.02698	0.09968	0.2334	0.7667
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03576	0.002000	0.3200	0.007889	0.6838	-6.431e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2922	0	0.3191	0.01060	0.03310	0.3110	0.03406

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.65	691.5	0.4424	0.3672	0.02702	0.09985	0.2336	0.7670
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03631	0.002022	0.3200	0.007934	0.6835	-6.448e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2922	0	0.3191	0.01059	0.03315	0.3109	0.03407

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.70	691.8	0.4424	0.3666	0.02706	0.1000	0.2338	0.7672
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03686	0.002045	0.3200	0.007979	0.6831	-6.465e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2922	0	0.3191	0.01058	0.03319	0.3109	0.03408

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.75	692.2	0.4424	0.3660	0.02709	0.1002	0.2339	0.7675
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03743	0.002068	0.3200	0.008024	0.6828	-6.482e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2922	0	0.3191	0.01056	0.03324	0.3108	0.03409

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.80	692.5	0.4425	0.3654	0.02713	0.1003	0.2341	0.7677
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.03801	0.002092	0.3199	0.008070	0.6825	-6.499e-5

mode	bi	g	pl	ilm	ky	q	H2O
	0.2922	0	0.3191	0.01055	0.03329	0.3108	0.03410

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
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7.85 692.9 0.4425 0.3648 0.02716 0.1005 0.2342 0.7680
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.03860 0.002116 0.3199 0.008115 0.6822-6.516e-5

mode bi g pl ilm ky q H2O
0.2921 0 0.3191 0.01053 0.03334 0.3107 0.03411

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.90 693.2 0.4425 0.3642 0.02720 0.1007 0.2344 0.7682
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.03920 0.002141 0.3199 0.008161 0.6819-6.533e-5

mode bi g pl ilm ky q H2O
0.2921 0 0.3192 0.01052 0.03338 0.3107 0.03412

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.95 693.5 0.4426 0.3636 0.02723 0.1008 0.2346 0.7685
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.03982 0.002166 0.3199 0.008206 0.6816-6.551e-5

mode bi g pl ilm ky q H2O
0.2921 0 0.3192 0.01051 0.03343 0.3106 0.03413

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.00 693.8 0.4426 0.3631 0.02727 0.1010 0.2348 0.7688
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.04044 0.002192 0.3199 0.008252 0.6813-6.568e-5

mode bi g pl ilm ky q H2O
0.2921 0 0.3192 0.01049 0.03348 0.3106 0.03414

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, cd, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.35 681.0 0.4415 0.3823 0.02605 0.09559 0.2297 0.2866
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7619 0.02483 0.001557 0.3203 0.006800
x(ilm) Q(ilm)
0.6914-6.015e-5

mode bi cd g pl ilm ky q H2O
0.2925 0 0 0.3187 0.01096 0.03194 0.3121 0.03382

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, cd, pl, ilm, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.00 665.1 0.4410 0.3888 0.02555 0.09365 0.2307 0.2820
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7610 0.3205 0.006361 0.6946-5.641e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3186 0.01113 0.03142 0.3126 0.03372

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.01 665.5 0.4411 0.3886 0.02556 0.09371 0.2306 0.2822
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7613 0.3205 0.006374 0.6945-5.651e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3186 0.01112 0.03144 0.3126 0.03372

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.02 666.0 0.4411 0.3884 0.02558 0.09377 0.2306 0.2823
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7616 0.3205 0.006386 0.6944-5.661e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3186 0.01112 0.03145 0.3126 0.03372

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.03 666.4 0.4411 0.3883 0.02559 0.09382 0.2306 0.2824
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7618 0.3205 0.006399 0.6943-5.671e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3186 0.01111 0.03147 0.3126 0.03373

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.04 666.9 0.4411 0.3881 0.02561 0.09388 0.2306 0.2826
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7621 0.3205 0.006411 0.6943-5.681e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3186 0.01111 0.03148 0.3126 0.03373

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.05 667.3 0.4411 0.3879 0.02562 0.09393 0.2305 0.2827
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7624 0.3205 0.006424 0.6942-5.692e-5 0.2925

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3186	0.01110	0.03150	0.3126	0.03373	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.06	667.8	0.4411	0.3877	0.02563	0.09399	0.2305	0.2828
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7627	0.3205	0.006436	0.6941-5.702e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3186	0.01110	0.03151	0.3125	0.03373	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.07	668.2	0.4411	0.3875	0.02565	0.09404	0.2305	0.2829
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7629	0.3205	0.006449	0.6940-5.712e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3186	0.01109	0.03153	0.3125	0.03374	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.08	668.7	0.4411	0.3873	0.02566	0.09410	0.2305	0.2831
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7632	0.3205	0.006461	0.6939-5.722e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3186	0.01109	0.03154	0.3125	0.03374	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.09	669.1	0.4412	0.3871	0.02568	0.09416	0.2304	0.2832
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7635	0.3205	0.006474	0.6938-5.733e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3186	0.01108	0.03156	0.3125	0.03374	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.10	669.6	0.4412	0.3869	0.02569	0.09421	0.2304	0.2833
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7637	0.3204	0.006486	0.6937-5.743e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3186	0.01108	0.03157	0.3125	0.03375	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.11	670.0	0.4412	0.3868	0.02571	0.09427	0.2304	0.2835
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7640	0.3204	0.006498	0.6936-5.753e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3186	0.01107	0.03159	0.3125	0.03375	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.12	670.5	0.4412	0.3866	0.02572	0.09432	0.2304	0.2836
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7643	0.3204	0.006511	0.6935	5.764e-5	0.2925

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2925	0	0.3186	0.01107	0.03160	0.3124	0.03375

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.13	670.9	0.4412	0.3864	0.02573	0.09438	0.2303	0.2837
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7646	0.3204	0.006523	0.6934	5.774e-5	0.2925

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2925	0	0.3186	0.01106	0.03162	0.3124	0.03376

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.14	671.4	0.4412	0.3862	0.02575	0.09443	0.2303	0.2839
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7648	0.3204	0.006536	0.6933	5.785e-5	0.2925

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2925	0	0.3186	0.01106	0.03163	0.3124	0.03376

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.15	671.9	0.4412	0.3860	0.02576	0.09449	0.2303	0.2840
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7651	0.3204	0.006548	0.6932	5.795e-5	0.2925

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2925	0	0.3186	0.01105	0.03165	0.3124	0.03376

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.16	672.3	0.4412	0.3858	0.02578	0.09454	0.2302	0.2841
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7654	0.3204	0.006561	0.6931	5.806e-5	0.2925

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2925	0	0.3186	0.01105	0.03166	0.3124	0.03377

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.17	672.8	0.4412	0.3856	0.02579	0.09460	0.2302	0.2842
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7656	0.3204	0.006573	0.6930	5.816e-5	0.2925

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2925	0	0.3186	0.01104	0.03167	0.3124	0.03377

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
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6.18 673.2 0.4413 0.3855 0.02580 0.09465 0.2302 0.2844
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7659 0.3204 0.006586 0.6929-5.827e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3186 0.01104 0.03169 0.3124 0.03377

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.19 673.7 0.4413 0.3853 0.02582 0.09471 0.2302 0.2845
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7662 0.3204 0.006598 0.6929-5.837e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3186 0.01103 0.03170 0.3123 0.03377

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.20 674.1 0.4413 0.3851 0.02583 0.09476 0.2301 0.2846
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7664 0.3204 0.006611 0.6928-5.848e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3187 0.01103 0.03172 0.3123 0.03378

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.21 674.6 0.4413 0.3849 0.02585 0.09482 0.2301 0.2848
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7667 0.3204 0.006623 0.6927-5.859e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3187 0.01102 0.03173 0.3123 0.03378

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.22 675.0 0.4413 0.3847 0.02586 0.09487 0.2301 0.2849
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7670 0.3204 0.006635 0.6926-5.870e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3187 0.01102 0.03175 0.3123 0.03378

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.23 675.5 0.4413 0.3845 0.02588 0.09493 0.2301 0.2850
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7672 0.3204 0.006648 0.6925-5.880e-5 0.2925

mode bi cd pl ilm ky q H2O
0.2925 0 0.3187 0.01101 0.03176 0.3123 0.03379

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.24 675.9 0.4413 0.3843 0.02589 0.09498 0.2300 0.2851
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi

0.7675 0.3204 0.006660 0.6924-5.891e-5 0.2925

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01101	0.03178	0.3123	0.03379	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.25	676.4	0.4413	0.3842	0.02590	0.09503	0.2300	0.2853
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
	0.7678	0.3204	0.006673	0.6923-5.902e-5	0.2925		

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01100	0.03179	0.3123	0.03379	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.26	676.8	0.4414	0.3840	0.02592	0.09509	0.2300	0.2854
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
	0.7680	0.3204	0.006685	0.6922-5.913e-5	0.2925		

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01100	0.03181	0.3122	0.03380	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.27	677.3	0.4414	0.3838	0.02593	0.09514	0.2300	0.2855
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
	0.7683	0.3204	0.006698	0.6921-5.924e-5	0.2925		

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01100	0.03182	0.3122	0.03380	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.28	677.7	0.4414	0.3836	0.02595	0.09520	0.2299	0.2857
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
	0.7686	0.3204	0.006710	0.6920-5.935e-5	0.2925		

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01099	0.03184	0.3122	0.03380	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.29	678.2	0.4414	0.3834	0.02596	0.09525	0.2299	0.2858
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
	0.7688	0.3204	0.006722	0.6919-5.946e-5	0.2925		

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01099	0.03185	0.3122	0.03380	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.30	678.6	0.4414	0.3832	0.02597	0.09531	0.2299	0.2859
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
	0.7691	0.3204	0.006735	0.6918-5.957e-5	0.2925		

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01098	0.03186	0.3122	0.03381	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.31	679.1	0.4414	0.3831	0.02599	0.09536	0.2299	0.2860
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7694	0.3204	0.006747	0.6917-5.968e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01098	0.03188	0.3122	0.03381	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.32	679.5	0.4414	0.3829	0.02600	0.09541	0.2298	0.2862
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7696	0.3204	0.006760	0.6916-5.979e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01097	0.03189	0.3122	0.03381	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.33	680.0	0.4414	0.3827	0.02601	0.09547	0.2298	0.2863
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7699	0.3204	0.006772	0.6916-5.990e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01097	0.03191	0.3121	0.03382	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.34	680.4	0.4414	0.3825	0.02603	0.09552	0.2298	0.2864
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7702	0.3204	0.006784	0.6915-6.001e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01096	0.03192	0.3121	0.03382	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.35	680.9	0.4415	0.3823	0.02604	0.09557	0.2297	0.2865
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7704	0.3203	0.006797	0.6914-6.012e-5	0.2925	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2925	0	0.3187	0.01096	0.03194	0.3121	0.03382	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.36	681.3	0.4415	0.3821	0.02606	0.09563	0.2297	0.2867
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7707	0.3203	0.006809	0.6913-6.023e-5	0.2924	

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3187	0.01095	0.03195	0.3121	0.03383	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.37	681.8	0.4415	0.3820	0.02607	0.09568	0.2297	0.2868
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7709	0.3203	0.006821	0.6912-6.035e-5	0.2924	

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3187	0.01095	0.03197	0.3121	0.03383

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.38	682.2	0.4415	0.3818	0.02608	0.09573	0.2297	0.2869
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7712	0.3203	0.006834	0.6911-6.046e-5	0.2924	

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3187	0.01094	0.03198	0.3121	0.03383

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.39	682.7	0.4415	0.3816	0.02610	0.09579	0.2296	0.2870
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7715	0.3203	0.006846	0.6910-6.057e-5	0.2924	

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3187	0.01094	0.03199	0.3121	0.03383

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.40	683.1	0.4415	0.3814	0.02611	0.09584	0.2296	0.2872
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7717	0.3203	0.006859	0.6909-6.069e-5	0.2924	

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3187	0.01093	0.03201	0.3120	0.03384

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.41	683.5	0.4415	0.3812	0.02613	0.09589	0.2296	0.2873
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7720	0.3203	0.006871	0.6908-6.080e-5	0.2924	

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3187	0.01093	0.03202	0.3120	0.03384

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.42	684.0	0.4415	0.3811	0.02614	0.09595	0.2296	0.2874
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7722	0.3203	0.006883	0.6907-6.092e-5	0.2924	

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3187	0.01092	0.03204	0.3120	0.03384

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
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6.43 684.4 0.4415 0.3809 0.02615 0.09600 0.2295 0.2876
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7725 0.3203 0.006896 0.6906-6.103e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3187 0.01092 0.03205 0.3120 0.03385

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.44 684.9 0.4416 0.3807 0.02617 0.09605 0.2295 0.2877
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7728 0.3203 0.006908 0.6905-6.115e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3187 0.01091 0.03207 0.3120 0.03385

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.45 685.3 0.4416 0.3805 0.02618 0.09611 0.2295 0.2878
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7730 0.3203 0.006920 0.6905-6.126e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3188 0.01091 0.03208 0.3120 0.03385

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.46 685.8 0.4416 0.3803 0.02619 0.09616 0.2295 0.2879
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7733 0.3203 0.006933 0.6904-6.138e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3188 0.01091 0.03209 0.3120 0.03386

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.47 686.2 0.4416 0.3802 0.02621 0.09621 0.2294 0.2881
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7735 0.3203 0.006945 0.6903-6.149e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3188 0.01090 0.03211 0.3120 0.03386

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.48 686.7 0.4416 0.3800 0.02622 0.09627 0.2294 0.2882
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7738 0.3203 0.006957 0.6902-6.161e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3188 0.01090 0.03212 0.3119 0.03386

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.49 687.1 0.4416 0.3798 0.02623 0.09632 0.2294 0.2883
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi

0.7741 0.3203 0.006969 0.6901-6.173e-5 0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01089	0.03214	0.3119	0.03386	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.50 687.6 0.4416 0.3796 0.02625 0.09637 0.2294 0.2884
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7743 0.3203 0.006982 0.6900-6.184e-5 0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01089	0.03215	0.3119	0.03387	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.51 688.0 0.4416 0.3794 0.02626 0.09642 0.2293 0.2885
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7746 0.3203 0.006994 0.6899-6.196e-5 0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01088	0.03217	0.3119	0.03387	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.52 688.5 0.4416 0.3793 0.02628 0.09648 0.2293 0.2887
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7748 0.3203 0.007006 0.6898-6.208e-5 0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01088	0.03218	0.3119	0.03387	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.53 688.9 0.4417 0.3791 0.02629 0.09653 0.2293 0.2888
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7751 0.3203 0.007019 0.6897-6.220e-5 0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01087	0.03219	0.3119	0.03388	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.54 689.4 0.4417 0.3789 0.02630 0.09658 0.2292 0.2889
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7753 0.3203 0.007031 0.6896-6.228e-5 0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01087	0.03221	0.3119	0.03388	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.55 689.8 0.4417 0.3787 0.02632 0.09663 0.2292 0.2890
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7756 0.3203 0.007043 0.6895-6.240e-5 0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01086	0.03222	0.3118	0.03388	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.56	690.3	0.4417	0.3785	0.02633	0.09668	0.2292	0.2892
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7758	0.3203	0.007056	0.6895	6.252e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01086	0.03224	0.3118	0.03388	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.57	690.7	0.4417	0.3784	0.02634	0.09674	0.2292	0.2893
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7761	0.3203	0.007068	0.6894	6.264e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01085	0.03225	0.3118	0.03389	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.58	691.1	0.4417	0.3782	0.02636	0.09679	0.2291	0.2894
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7763	0.3203	0.007080	0.6893	6.276e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01085	0.03226	0.3118	0.03389	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.59	691.6	0.4417	0.3780	0.02637	0.09684	0.2291	0.2895
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7766	0.3203	0.007092	0.6892	6.287e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01084	0.03228	0.3118	0.03389	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.60	692.0	0.4417	0.3778	0.02638	0.09689	0.2291	0.2897
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7769	0.3202	0.007105	0.6891	6.299e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01084	0.03229	0.3118	0.03390	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.61	692.5	0.4417	0.3776	0.02640	0.09694	0.2291	0.2898
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7771	0.3202	0.007117	0.6890	6.311e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
0.2924	0	0.3188	0.01084	0.03231	0.3118	0.03390	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.62	692.9	0.4418	0.3775	0.02641	0.09700	0.2290	0.2899
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7774	0.3202	0.007129	0.6889	6.324e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3188	0.01083	0.03232	0.3117	0.03390

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.63	693.4	0.4418	0.3773	0.02642	0.09705	0.2290	0.2900
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7776	0.3202	0.007141	0.6888	6.336e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3188	0.01083	0.03234	0.3117	0.03391

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.64	693.8	0.4418	0.3771	0.02644	0.09710	0.2290	0.2901
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7779	0.3202	0.007153	0.6887	6.348e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3188	0.01082	0.03235	0.3117	0.03391

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.65	694.3	0.4418	0.3769	0.02645	0.09715	0.2290	0.2903
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7781	0.3202	0.007166	0.6886	6.360e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3188	0.01082	0.03236	0.3117	0.03391

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.66	694.7	0.4418	0.3768	0.02646	0.09720	0.2289	0.2904
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7784	0.3202	0.007178	0.6885	6.372e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3188	0.01081	0.03238	0.3117	0.03391

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.67	695.1	0.4418	0.3766	0.02648	0.09725	0.2289	0.2905
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7786	0.3202	0.007190	0.6885	6.384e-5	0.2924

mode	bi	cd	pl	ilm	ky	q	H2O
	0.2924	0	0.3188	0.01081	0.03239	0.3117	0.03392

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
---------	-------	-------	-------	-------	-------	-------	-------

6.68 695.6 0.4418 0.3764 0.02649 0.09731 0.2289 0.2906
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7789 0.3202 0.007202 0.6884-6.396e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3188 0.01080 0.03241 0.3117 0.03392

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.69 696.0 0.4418 0.3762 0.02650 0.09736 0.2288 0.2908
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7791 0.3202 0.007215 0.6883-6.409e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3188 0.01080 0.03242 0.3116 0.03392

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.70 696.5 0.4418 0.3761 0.02652 0.09741 0.2288 0.2909
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7794 0.3202 0.007227 0.6882-6.421e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3189 0.01079 0.03243 0.3116 0.03393

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.71 696.9 0.4419 0.3759 0.02653 0.09746 0.2288 0.2910
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7796 0.3202 0.007239 0.6881-6.433e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3189 0.01079 0.03245 0.3116 0.03393

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.72 697.4 0.4419 0.3757 0.02654 0.09751 0.2288 0.2911
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7799 0.3202 0.007251 0.6880-6.446e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3189 0.01079 0.03246 0.3116 0.03393

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.73 697.8 0.4419 0.3755 0.02656 0.09756 0.2287 0.2912
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7801 0.3202 0.007263 0.6879-6.458e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3189 0.01078 0.03247 0.3116 0.03393

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.74 698.3 0.4419 0.3754 0.02657 0.09761 0.2287 0.2914
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi

0.7803 0.3202 0.007275 0.6878-6.471e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3189 0.01078 0.03249 0.3116 0.03394

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.75 698.7 0.4419 0.3752 0.02658 0.09766 0.2287 0.2915
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7806 0.3202 0.007288 0.6877-6.483e-5 0.2924

mode bi cd pl ilm ky q H2O
0.2924 0 0.3189 0.01077 0.03250 0.3116 0.03394

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.76 699.1 0.4419 0.3750 0.02660 0.09771 0.2287 0.2916
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7808 0.3202 0.007300 0.6876-6.496e-5 0.2923

mode bi cd pl ilm ky q H2O
0.2923 0 0.3189 0.01077 0.03252 0.3115 0.03394

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.77 699.6 0.4419 0.3748 0.02661 0.09776 0.2286 0.2917
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7811 0.3202 0.007312 0.6876-6.508e-5 0.2923

mode bi cd pl ilm ky q H2O
0.2923 0 0.3189 0.01076 0.03253 0.3115 0.03395

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, cd, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.36 681.7 0.4416 0.3828 0.02608 0.09577 0.2292 0.2868
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7617 0.02480 0.001565 0.3203 0.006864
x(ilm) Q(ilm)
0.6910-6.038e-5

mode bi cd g pl ilm ky q H2O
0.29240.0002249 0 0.3187 0.01094 0.03181 0.3121 0.03382

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.37 682.7 0.4417 0.3834 0.02613 0.09601 0.2285 0.2871
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7614 0.02476 0.001576 0.3203 0.006948

x(ilm) Q(ilm)
0.6906-6.069e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.29230	0.005183		0	0.3188	0.01092	0.03165	0.3120 0.03381

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.38 683.7 0.4419 0.3840 0.02617 0.09625 0.2279 0.2874
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7611 0.02473 0.001586 0.3203 0.007034
x(ilm) Q(ilm)
0.6901-6.100e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.29220	0.008119		0	0.3188	0.01090	0.03149	0.3120 0.03380

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.39 684.6 0.4420 0.3845 0.02622 0.09649 0.2272 0.2878
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7609 0.02469 0.001596 0.3202 0.007120
x(ilm) Q(ilm)
0.6897-6.132e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2921	0.001106		0	0.3188	0.01088	0.03133	0.3119 0.03379

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.40 685.6 0.4422 0.3851 0.02627 0.09673 0.2265 0.2881
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7606 0.02466 0.001607 0.3202 0.007207
x(ilm) Q(ilm)
0.6892-6.164e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2920	0.001400		0	0.3188	0.01086	0.03116	0.3119 0.03379

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.41 686.6 0.4423 0.3857 0.02631 0.09697 0.2258 0.2884
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7603 0.02462 0.001617 0.3202 0.007295
x(ilm) Q(ilm)
0.6888-6.196e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2920	0.001694		0	0.3189	0.01084	0.03100	0.3118 0.03378

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.42 687.6 0.4424 0.3863 0.02636 0.09721 0.2252 0.2887
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7600 0.02459 0.001628 0.3202 0.007384

x(ilm) Q(ilm)
0.6883-6.229e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2919	0.001989		0	0.3189	0.01082	0.03084	0.3118 0.03377

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.43 688.6 0.4426 0.3869 0.02641 0.09745 0.2245 0.2890
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7597 0.02455 0.001639 0.3201 0.007474
x(ilm) Q(ilm)
0.6879-6.262e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2918	0.002283		0	0.3189	0.01080	0.03068	0.3118 0.03376

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.44 689.5 0.4427 0.3875 0.02645 0.09769 0.2238 0.2893
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7595 0.02452 0.001649 0.3201 0.007565
x(ilm) Q(ilm)
0.6874-6.295e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2917	0.002578		0	0.3190	0.01078	0.03051	0.3117 0.03376

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.45 690.5 0.4429 0.3881 0.02650 0.09792 0.2232 0.2896
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7592 0.02448 0.001660 0.3201 0.007657
x(ilm) Q(ilm)
0.6869-6.329e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2916	0.002874		0	0.3190	0.01076	0.03035	0.3117 0.03375

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.46 691.5 0.4430 0.3886 0.02655 0.09816 0.2225 0.2899
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7589 0.02445 0.001671 0.3200 0.007750
x(ilm) Q(ilm)
0.6865-6.363e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2915	0.003170		0	0.3190	0.01074	0.03019	0.3116 0.03374

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.47 692.5 0.4432 0.3892 0.02659 0.09840 0.2219 0.2903
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7586 0.02441 0.001682 0.3200 0.007843

x(ilm) Q(ilm)
0.6860-6.398e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2914	0.003466		0	0.3190	0.01072	0.03003	0.3116 0.03374

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.48 693.5 0.4433 0.3898 0.02664 0.09864 0.2212 0.2906
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7583 0.02438 0.001693 0.3200 0.007938
x(ilm) Q(ilm)
0.6856-6.433e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2914	0.003762		0	0.3191	0.01071	0.02987	0.3115 0.03373

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.49 694.4 0.4434 0.3904 0.02669 0.09888 0.2206 0.2909
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7581 0.02435 0.001704 0.3199 0.008034
x(ilm) Q(ilm)
0.6851-6.468e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2913	0.004059		0	0.3191	0.01069	0.02971	0.3115 0.03372

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.50 695.4 0.4436 0.3909 0.02673 0.09911 0.2199 0.2912
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7578 0.02431 0.001715 0.3199 0.008131
x(ilm) Q(ilm)
0.6847-6.504e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2912	0.004356		0	0.3191	0.01067	0.02955	0.3114 0.03371

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.51 696.4 0.4437 0.3915 0.02678 0.09935 0.2193 0.2915
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7575 0.02428 0.001726 0.3199 0.008229
x(ilm) Q(ilm)
0.6842-6.541e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2911	0.004653		0	0.3192	0.01065	0.02938	0.3114 0.03371

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.52 697.4 0.4439 0.3920 0.02683 0.09959 0.2186 0.2918
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7572 0.02425 0.001737 0.3199 0.008328

x(ilm) Q(ilm)
0.6838-6.577e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2910	0.004951		0	0.3192	0.01063	0.02922	0.3113	0.03370

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.53 698.4 0.4440 0.3926 0.02688 0.09983 0.2180 0.2921
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7570 0.02421 0.001749 0.3198 0.008428
x(ilm) Q(ilm)
0.6833-6.615e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2909	0.005249		0	0.3192	0.01061	0.02906	0.3112	0.03369

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.54 699.4 0.4442 0.3932 0.02692 0.1001 0.2173 0.2924
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7705 0.7567 0.02418 0.001760 0.3198 0.008529
x(ilm) Q(ilm)
0.6828-6.652e-5

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2908	0.005547		0	0.3193	0.01059	0.02890	0.3112	0.03369

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.63 698.7 0.1129 0.2091 0.8351 0.006762 0.001595 0.7054
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6604 0.4259 0.3817 0.02746 0.1015 0.2258
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2793 0.7752 0.7459 0.02714 0.001845 0.3591
k(pl) x(ilm) Q(ilm)
0.007225 0.6891-6.451e-5

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0.1089	0.2785		0	0.01082	0.2788	0.01085	0.02894	0.2831	0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.49	694.0	0.1120	0.2127	0.8403	0.005863	0.001516	0.7138
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6588	0.4434	0.3901	0.02667	0.09878	0.2208	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2908	0.7705	0.7582	0.02436	0.001699	0.3200	
	k(pl)	x(ilm)	Q(ilm)				
	0.007995	0.6853	6.454e-5				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0	0.2913	0.003937		0	0.3191	0.01069	0.02977	0.3115 0.03372

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.49	697.8	0.1150	0.2101	0.8255	0.006635	0.001570	0.7173
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6572	0.4484	0.3961	0.02627	0.09991	0.2156	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2951	0.7689	0.7607	0.02675	0.001773	0.3576	
	k(pl)	x(ilm)	Q(ilm)				
	0.007669	0.6897	6.417e-5				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1039	0.2776	0.02457		0	0.2817	0.01106	0.02076	0.2803 0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.49	694.1	0.1120	0.2126	0.8406	0.005865	0.001517	0.7134
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6589	0.4427	0.3897	0.02670	0.09882	0.2211	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2903	0.7707	0.7577	0.02437	0.001701	0.3199	
	k(pl)	x(ilm)	Q(ilm)				
	0.007981	0.6853	6.454e-5				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2913	0.003197	0.0003268			0.3191	0.01069	0.03002	0.3116 0.03378

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.50	694.1	0.1118	0.2126	0.8413	0.005869	0.001518	0.7126
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6591	0.4411	0.3886	0.02679	0.09893	0.2219	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2891	0.7711	0.7567	0.02438	0.001705	0.3199	
	k(pl)	x(ilm)	Q(ilm)				
	0.007948	0.6853	6.456e-5				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2914	0.001393	0.001124			0.3190	0.01067	0.03063	0.3118 0.03393

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

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phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.50	697.9	0.1148	0.2100	0.8261	0.006643	0.001571	0.7166
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6574	0.4469	0.3951	0.02634	0.1000	0.2164	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2940	0.7693	0.7598	0.02678	0.001778	0.3577	
	k(pl)	x(ilm)	Q(ilm)				
	0.007640	0.6896	6.419e-5				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1043	0.2777	0.022930	0.0007272		0.2815	0.01104	0.02131	0.2805 0

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.51 697.9 0.1147 0.2099 0.8268 0.006652 0.001573 0.7157
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6576 0.4453 0.3941 0.02643 0.1001 0.2171
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2929 0.7698 0.7587 0.02680 0.001783 0.3578
 k(pl) x(ilm) Q(ilm)
 0.007608 0.6896-6.421e-5

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1046	0.2778	0.02117	0.001502	0.2813	0.01103	0.02189	0.2807		0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.52 698.0 0.1145 0.2099 0.8275 0.006661 0.001575 0.7149
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6578 0.4437 0.3931 0.02651 0.1002 0.2179
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2918 0.7702 0.7577 0.02683 0.001788 0.3579
 k(pl) x(ilm) Q(ilm)
 0.007576 0.6896-6.423e-5

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1050	0.2778	0.01942	0.002274	0.2811	0.01101	0.02248	0.2809		0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.53 698.1 0.1144 0.2098 0.8282 0.006670 0.001577 0.7140
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6581 0.4421 0.3920 0.02660 0.1004 0.2186
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2906 0.7706 0.7567 0.02686 0.001793 0.3580
 k(pl) x(ilm) Q(ilm)
 0.007544 0.6895-6.426e-5

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1053	0.2779	0.01767	0.003045	0.2809	0.01100	0.02306	0.2811		0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.54 698.1 0.1142 0.2097 0.8289 0.006679 0.001579 0.7132
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6583 0.4405 0.3910 0.02668 0.1005 0.2193
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2895 0.7711 0.7556 0.02689 0.001798 0.3581
 k(pl) x(ilm) Q(ilm)
 0.007513 0.6895-6.428e-5

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1057	0.2779	0.01593	0.003813	0.2807	0.01098	0.02364	0.2813		0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.55 698.2 0.1141 0.2097 0.8296 0.006688 0.001581 0.7124
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6585 0.4389 0.3900 0.02677 0.1006 0.2201
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2884 0.7715 0.7546 0.02692 0.001803 0.3582
k(pl) x(ilm) Q(ilm)
0.007481 0.6895-6.431e-5

mode liq bi cd g pl ilm ky q H2O
0.1060 0.2780 0.01419 0.004580 0.2805 0.01097 0.02422 0.2815 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.56 698.2 0.1139 0.2096 0.8302 0.006697 0.001583 0.7115
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6587 0.4373 0.3890 0.02685 0.1007 0.2208
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2873 0.7720 0.7536 0.02695 0.001808 0.3583
k(pl) x(ilm) Q(ilm)
0.007450 0.6894-6.433e-5

mode liq bi cd g pl ilm ky q H2O
0.1064 0.2781 0.01245 0.005344 0.2803 0.01095 0.02480 0.2817 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.57 698.3 0.1138 0.2095 0.8309 0.006706 0.001584 0.7107
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6590 0.4357 0.3880 0.02694 0.1008 0.2215
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2862 0.7724 0.7525 0.02697 0.001813 0.3584
k(pl) x(ilm) Q(ilm)
0.007418 0.6894-6.436e-5

mode liq bi cd g pl ilm ky q H2O
0.1067 0.2781 0.01072 0.006107 0.2801 0.01094 0.02537 0.2819 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.58 698.4 0.1137 0.2095 0.8316 0.006715 0.001586 0.7098
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6592 0.4341 0.3869 0.02702 0.1009 0.2222
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2851 0.7729 0.7515 0.02700 0.001818 0.3585
k(pl) x(ilm) Q(ilm)
0.007387 0.6893-6.438e-5

mode liq bi cd g pl ilm ky q H2O
0.1071 0.2782 0.008990 0.006867 0.2799 0.01093 0.02595 0.2821 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.59 698.4 0.1135 0.2094 0.8323 0.006724 0.001588 0.7090
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6594 0.4325 0.3859 0.02710 0.1010 0.2229
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2840 0.7733 0.7504 0.02703 0.001823 0.3587
k(pl) x(ilm) Q(ilm)
0.007356 0.6893-6.440e-5

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1074	0.2782	0.007265	0.007626	0.2797	0.01091	0.02652	0.2823	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 698.5 0.1134 0.2093 0.8330 0.006733 0.001590 0.7081
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6596 0.4309 0.3849 0.02719 0.1012 0.2236
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2829 0.7738 0.7494 0.02706 0.001828 0.3588
k(pl) x(ilm) Q(ilm)
0.007325 0.6893-6.443e-5

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1078	0.2783	0.005545	0.008383	0.2795	0.01090	0.02709	0.2825	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.61 698.5 0.1132 0.2093 0.8336 0.006742 0.001591 0.7073
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6599 0.4294 0.3839 0.02727 0.1013 0.2243
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2818 0.7742 0.7483 0.02708 0.001833 0.3589
k(pl) x(ilm) Q(ilm)
0.007294 0.6892-6.446e-5

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1081	0.2784	0.003828	0.009138	0.2793	0.01088	0.02767	0.2827	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.62 698.6 0.1131 0.2092 0.8343 0.006751 0.001593 0.7064
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6601 0.4278 0.3829 0.02736 0.1014 0.2250
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2807 0.7746 0.7472 0.02711 0.001838 0.3590
k(pl) x(ilm) Q(ilm)
0.007263 0.6892-6.448e-5

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1085	0.2784	0.002115	0.009891	0.2791	0.01087	0.02824	0.2829	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.63 698.7 0.1129 0.2092 0.8350 0.006760 0.001595 0.7056
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6603 0.4262 0.3820 0.02744 0.1015 0.2257
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2796 0.7751 0.7462 0.02714 0.001843 0.3591
k(pl) x(ilm) Q(ilm)

0.007232 0.6891-6.451e-5

mode liq bi cd g pl ilm ky q H2O
0.1088 0.27850.0004061 0.01064 0.2789 0.01085 0.02881 0.2831 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

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phases : liq, bi, cd, g, pl, ilm, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 751.9 0.1328 0.2560 0.7070 0.009463 0.002652 0.7412
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5826 0.4633 0.4314 0.02797 0.1182 0.1776
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3180 0.7147 0.7503 0.02331 0.002382 0.3605
k(pl) x(ilm) Q(ilm)
0.01750 0.6667-9.069e-5

mode liq bi cd g pl ilm ky q
0.1305 0.2522 0.07151 0 0.2771 0.01048 0 0.2582
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.25 659.3 0.1064 0.1830 0.8779 0.005152 0.001061 0.6987
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6978 0.4399 0.3679 0.02468 0.08815 0.2466
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2805 0.7931 0.7709 0.02939 0.001396 0.3542
k(pl) x(ilm) Q(ilm)
0.004316 0.7082-5.285e-5

mode liq bi cd g pl ilm ky q
0.09286 0.2868 0.003340 0 0.2854 0.01180 0.03138 0.2884

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 666.6 0.1078 0.1879 0.8694 0.005406 0.001144 0.7024
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6907 0.4415 0.3735 0.02498 0.09033 0.2404
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2832 0.7891 0.7688 0.02887 0.001463 0.3549
k(pl) x(ilm) Q(ilm)

0.004817 0.7048-5.465e-5

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.09467	0.2854	0.006979		0	0.2847	0.01165	0.02948 0.2871

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.35 674.2 0.1094 0.1931 0.8598 0.005683 0.001237 0.7062
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6830 0.4431 0.3793 0.02530 0.09262 0.2341
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2860 0.7847 0.7667 0.02834 0.001535 0.3556
k(pl) x(ilm) Q(ilm)
0.005398 0.7012-5.668e-5

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.09668	0.2838	0.01093		0	0.2840	0.01149	0.02746 0.2857

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 682.2 0.1112 0.1987 0.8491 0.005988 0.001341 0.7100
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6746 0.4449 0.3851 0.02563 0.09505 0.2277
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2891 0.7798 0.7646 0.02779 0.001613 0.3563
k(pl) x(ilm) Q(ilm)
0.006078 0.6973-5.899e-5

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.09894	0.2819	0.01527		0	0.2832	0.01134	0.02528 0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 690.6 0.1131 0.2047 0.8369 0.006328 0.001460 0.7140
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6654 0.4467 0.3911 0.02597 0.09765 0.2211
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2923 0.7741 0.7625 0.02723 0.001698 0.3570
k(pl) x(ilm) Q(ilm)
0.006887 0.6932-6.165e-5

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1015	0.2797	0.02013		0	0.2824	0.01118	0.02290 0.2821

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 699.6 0.1154 0.2114 0.8227 0.006711 0.001597 0.7181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6552 0.4488 0.3973 0.02633 0.1005 0.2144
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2958 0.7676 0.7603 0.02664 0.001792 0.3577
k(pl) x(ilm) Q(ilm)
0.007869 0.6888-6.480e-5

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1045	0.2771	0.02568		0	0.2816	0.01103	0.02023 0.2799

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.55	709.3	0.1181	0.2188	0.8057	0.007152	0.001759	0.7225
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6434	0.4511	0.4038	0.02671	0.1036	0.2072	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2996	0.7598	0.7581	0.02600	0.001897	0.3585	
	k(pl)	x(ilm)	Q(ilm)				
	0.009098	0.6841	6.860e-5				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1082	0.2739	0.03222		0	0.2807	0.01087	0.01717 0.2770

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.60	720.2	0.1213	0.2275	0.7847	0.007680	0.001957	0.7274
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6295	0.4539	0.4109	0.02711	0.1071	0.1995	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3040	0.7502	0.7557	0.02531	0.002019	0.3592	
	k(pl)	x(ilm)	Q(ilm)				
	0.01071	0.6790	7.337e-5				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1127	0.2697	0.04033		0	0.2797	0.01072	0.01347 0.2734

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.65	733.0	0.1255	0.2384	0.7566	0.008355	0.002217	0.7330
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6118	0.4574	0.4192	0.02752	0.1115	0.1905	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3094	0.7374	0.7533	0.02450	0.002166	0.3599	
	k(pl)	x(ilm)	Q(ilm)				
	0.01301	0.6733	7.980e-5				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1189	0.2638	0.05131		0	0.2786	0.01058	0.008605 0.2682

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.70	750.9	0.1324	0.2550	0.7098	0.009402	0.002628	0.7408
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5842	0.4630	0.4308	0.02795	0.1179	0.1783	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3176	0.7160	0.7505	0.02337	0.002371	0.3605	
	k(pl)	x(ilm)	Q(ilm)				
	0.01723	0.6670	9.011e-5				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1298	0.2529	0.07032		0	0.2772	0.010480	0.0004969 0.2588

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

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phases : liq, bi, cd, pl, ilm, ky, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	717.5	0.1331	0.2377	0.7035	0.007262	0.001106	0.7280
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6068	0.4641	0.4533	0.02681	0.1125	0.1745	
	x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3087	0.7163	0.3558	0.01540	0.6740	7.456e-5	

mode	liq	bi	cd	pl	ilm	ky	q
	0.1194	0.2561	0.06810	0.2825	0.01077	0	0.2631

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.03	719.0	0.1330	0.2385	0.7036	0.007346	0.001149	0.7287
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6058	0.4641	0.4524	0.02686	0.1128	0.1746	
	x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3091	0.7163	0.3559	0.01549	0.6737	7.513e-5	

mode	liq	bi	cd	pl	ilm	ky	q
	0.1199	0.2560	0.06826	0.2823	0.01075	0	0.2629

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.06	720.5	0.1330	0.2393	0.7038	0.007430	0.001193	0.7293
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6048	0.4641	0.4514	0.02691	0.1130	0.1748	
	x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3096	0.7162	0.3561	0.01557	0.6734	7.571e-5	

mode	liq	bi	cd	pl	ilm	ky	q
	0.1203	0.2558	0.06841	0.2821	0.01074	0	0.2627

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.09	721.9	0.1330	0.2401	0.7040	0.007515	0.001239	0.7299
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6038	0.4641	0.4505	0.02696	0.1133	0.1749	
	x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3100	0.7162	0.3563	0.01566	0.6730	7.630e-5	

mode	liq	bi	cd	pl	ilm	ky	q
	0.1207	0.2557	0.06857	0.2819	0.01073	0	0.2625

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.12	723.4	0.1329	0.2409	0.7041	0.007601	0.001287	0.7305

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6028 0.4641 0.4495 0.02701 0.1135 0.1750
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3104 0.7162 0.3565 0.01575 0.6727-7.690e-5

mode liq bi cd pl ilm ky q
0.1212 0.2555 0.06872 0.2816 0.01072 0 0.2623

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.15 724.9 0.1329 0.2417 0.7043 0.007688 0.001337 0.7311
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6018 0.4641 0.4486 0.02706 0.1137 0.1752
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3108 0.7162 0.3567 0.01584 0.6724-7.751e-5

mode liq bi cd pl ilm ky q
0.1216 0.2553 0.06887 0.2814 0.01070 0 0.2621

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.18 726.4 0.1329 0.2424 0.7045 0.007776 0.001388 0.7317
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6008 0.4640 0.4476 0.02711 0.1140 0.1753
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3113 0.7162 0.3569 0.01593 0.6721-7.812e-5

mode liq bi cd pl ilm ky q
0.1220 0.2552 0.06902 0.2812 0.01069 0 0.2619

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.21 727.8 0.1329 0.2432 0.7046 0.007865 0.001442 0.7322
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5998 0.4640 0.4467 0.02716 0.1142 0.1755
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3117 0.7162 0.3571 0.01601 0.6718-7.875e-5

mode liq bi cd pl ilm ky q
0.1225 0.2550 0.06917 0.2810 0.01068 0 0.2617

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.24 729.3 0.1328 0.2440 0.7048 0.007955 0.001497 0.7328
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5988 0.4640 0.4457 0.02721 0.1145 0.1756
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3121 0.7161 0.3573 0.01610 0.6715-7.939e-5

mode liq bi cd pl ilm ky q
0.1229 0.2548 0.06932 0.2807 0.01067 0 0.2615

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.27 730.8 0.1328 0.2448 0.7049 0.008045 0.001554 0.7334

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5978 0.4640 0.4448 0.02726 0.1147 0.1757
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3125 0.7161 0.3575 0.01619 0.6712-8.004e-5

mode liq bi cd pl ilm ky q
0.1234 0.2547 0.06947 0.2805 0.01066 0 0.2613

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 732.2 0.1328 0.2456 0.7051 0.008137 0.001614 0.7340
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5967 0.4639 0.4438 0.02731 0.1149 0.1759
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3129 0.7160 0.3577 0.01628 0.6709-8.070e-5

mode liq bi cd pl ilm ky q
0.1239 0.2545 0.06962 0.2803 0.01064 0 0.2611

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.33 733.7 0.1328 0.2464 0.7053 0.008230 0.001675 0.7345
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5957 0.4639 0.4429 0.02736 0.1152 0.1760
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3133 0.7160 0.3579 0.01637 0.6706-8.136e-5

mode liq bi cd pl ilm ky q
0.1243 0.2544 0.06977 0.2801 0.01063 0 0.2609

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.36 735.2 0.1328 0.2472 0.7054 0.008323 0.001739 0.7351
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5947 0.4639 0.4420 0.02741 0.1154 0.1761
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3137 0.7159 0.3581 0.01646 0.6703-8.204e-5

mode liq bi cd pl ilm ky q
0.1248 0.2542 0.06991 0.2798 0.01062 0 0.2607

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.39 736.6 0.1328 0.2479 0.7056 0.008418 0.001805 0.7357
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5937 0.4638 0.4410 0.02746 0.1157 0.1763
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3141 0.7158 0.3583 0.01655 0.6700-8.274e-5

mode liq bi cd pl ilm ky q
0.1253 0.2540 0.07006 0.2796 0.01061 0 0.2604

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.42 738.1 0.1327 0.2487 0.7057 0.008513 0.001874 0.7362

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5926 0.4638 0.4401 0.02751 0.1159 0.1764
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3145 0.7158 0.3585 0.01664 0.6696-8.344e-5

mode liq bi cd pl ilm ky q
0.1257 0.2538 0.07020 0.2794 0.01059 0 0.2602

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 739.6 0.1327 0.2495 0.7059 0.008610 0.001945 0.7368
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5916 0.4638 0.4391 0.02756 0.1162 0.1765
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3149 0.7157 0.3587 0.01673 0.6693-8.415e-5

mode liq bi cd pl ilm ky q
0.1262 0.2537 0.07035 0.2791 0.01058 0 0.2600

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.48 741.0 0.1327 0.2503 0.7060 0.008708 0.002018 0.7373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5905 0.4637 0.4382 0.02761 0.1164 0.1767
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3153 0.7156 0.3589 0.01682 0.6690-8.488e-5

mode liq bi cd pl ilm ky q
0.1267 0.2535 0.07049 0.2789 0.01057 0 0.2598

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.51 742.5 0.1327 0.2510 0.7062 0.008806 0.002095 0.7378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5895 0.4637 0.4373 0.02766 0.1166 0.1768
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3157 0.7155 0.3592 0.01691 0.6687-8.562e-5

mode liq bi cd pl ilm ky q
0.1272 0.2533 0.07063 0.2787 0.01056 0 0.2596

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.54 744.0 0.1327 0.2518 0.7063 0.008906 0.002174 0.7384
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5884 0.4636 0.4364 0.02771 0.1169 0.1769
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3160 0.7154 0.3594 0.01700 0.6684-8.638e-5

mode liq bi cd pl ilm ky q
0.1277 0.2531 0.07077 0.2784 0.01055 0 0.2594

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.57 745.4 0.1327 0.2526 0.7064 0.009007 0.002256 0.7389

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5873 0.4636 0.4354 0.02776 0.1171 0.1771
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3164 0.7153 0.3596 0.01709 0.6681-8.714e-5

mode liq bi cd pl ilm ky q
0.1282 0.2530 0.07091 0.2782 0.01054 0 0.2592

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 746.9 0.1327 0.2534 0.7066 0.009108 0.002340 0.7394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5863 0.4635 0.4345 0.02780 0.1174 0.1772
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3168 0.7152 0.3598 0.01718 0.6678-8.793e-5

mode liq bi cd pl ilm ky q
0.1287 0.2528 0.07105 0.2779 0.01052 0 0.2590

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.63 748.4 0.1327 0.2541 0.7067 0.009211 0.002428 0.7400
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5852 0.4635 0.4336 0.02785 0.1176 0.1773
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3172 0.7151 0.3600 0.01728 0.6674-8.872e-5

mode liq bi cd pl ilm ky q
0.1293 0.2526 0.07119 0.2777 0.01051 0 0.2587

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.66 749.9 0.1328 0.2549 0.7068 0.009315 0.002519 0.7405
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5841 0.4634 0.4327 0.02790 0.1179 0.1775
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3175 0.7149 0.3602 0.01737 0.6671-8.953e-5

mode liq bi cd pl ilm ky q
0.1298 0.2524 0.07132 0.2774 0.01050 0 0.2585

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.69 751.3 0.1328 0.2557 0.7069 0.009421 0.002613 0.7410
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5830 0.4633 0.4317 0.02795 0.1181 0.1776
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3179 0.7148 0.3604 0.01746 0.6668-9.036e-5

mode liq bi cd pl ilm ky q
0.1303 0.2522 0.07146 0.2772 0.01049 0 0.2583

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.72 752.8 0.1328 0.2564 0.7070 0.009527 0.002711 0.7415

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5819 0.4633 0.4308 0.02800 0.1184 0.1777
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3183 0.7147 0.3606 0.01756 0.6665-9.120e-5

mode liq bi cd pl ilm ky q
0.1308 0.2521 0.07160 0.2769 0.01048 0 0.2581

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.75 754.3 0.1328 0.2572 0.7071 0.009634 0.002812 0.7420
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5808 0.4632 0.4299 0.02805 0.1186 0.1778
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3186 0.7145 0.3609 0.01765 0.6662-9.206e-5

mode liq bi cd pl ilm ky q
0.1314 0.2519 0.07173 0.2767 0.01047 0 0.2579

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.78 755.7 0.1328 0.2580 0.7072 0.009743 0.002917 0.7425
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5797 0.4631 0.4290 0.02810 0.1189 0.1780
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3190 0.7143 0.3611 0.01775 0.6659-9.293e-5

mode liq bi cd pl ilm ky q
0.1319 0.2517 0.07186 0.2764 0.01045 0 0.2576

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.81 757.2 0.1328 0.2587 0.7073 0.009853 0.003025 0.7430
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5786 0.4630 0.4281 0.02814 0.1191 0.1781
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3193 0.7142 0.3613 0.01784 0.6655-9.382e-5

mode liq bi cd pl ilm ky q
0.1325 0.2515 0.07200 0.2762 0.01044 0 0.2574

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.84 758.7 0.1329 0.2595 0.7074 0.009964 0.003137 0.7435
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5774 0.4630 0.4271 0.02819 0.1194 0.1782
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3197 0.7140 0.3615 0.01794 0.6652-9.474e-5

mode liq bi cd pl ilm ky q
0.1331 0.2513 0.07213 0.2759 0.01043 0 0.2572

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.87 760.2 0.1329 0.2603 0.7075 0.01008 0.003253 0.7440

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5763 0.4629 0.4262 0.02824 0.1196 0.1783
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3200 0.7138 0.3618 0.01804 0.6649-9.567e-5

mode liq bi cd pl ilm ky q
0.1336 0.2511 0.07226 0.2757 0.01042 0 0.2569

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 761.6 0.1329 0.2610 0.7076 0.01019 0.003374 0.7444
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5752 0.4628 0.4253 0.02829 0.1199 0.1785
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3203 0.7136 0.3620 0.01813 0.6646-9.662e-5

mode liq bi cd pl ilm ky q
0.1342 0.2509 0.07239 0.2754 0.01041 0 0.2567

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.93 763.1 0.1329 0.2618 0.7076 0.01030 0.003498 0.7449
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5740 0.4627 0.4244 0.02834 0.1202 0.1786
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3207 0.7134 0.3622 0.01823 0.6642-9.759e-5

mode liq bi cd pl ilm ky q
0.1348 0.2507 0.07252 0.2751 0.01040 0 0.2565

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.96 764.6 0.1330 0.2625 0.7077 0.01042 0.003627 0.7454
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5728 0.4626 0.4235 0.02839 0.1204 0.1787
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3210 0.7132 0.3624 0.01833 0.6639-9.858e-5

mode liq bi cd pl ilm ky q
0.1354 0.2505 0.07265 0.2749 0.01039 0 0.2562

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.99 766.1 0.1330 0.2633 0.7078 0.01054 0.003760 0.7459
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5717 0.4625 0.4226 0.02844 0.1207 0.1788
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3213 0.7130 0.3627 0.01843 0.6636-9.959e-5

mode liq bi cd pl ilm ky q
0.1360 0.2503 0.07277 0.2746 0.01038 0 0.2560

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.02 767.6 0.1330 0.2640 0.7078 0.01066 0.003899 0.7463

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5705 0.4624 0.4217 0.02849 0.1209 0.1789
 x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3216 0.7127 0.3629 0.01853 0.6633-0.0001006

mode liq bi cd pl ilm ky q
 0.1367 0.2500 0.07290 0.2743 0.01036 0 0.2557

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.05 769.1 0.1331 0.2648 0.7078 0.01078 0.004042 0.7468
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5693 0.4623 0.4208 0.02853 0.1212 0.1791
 x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3220 0.7125 0.3631 0.01863 0.6629-0.0001017

mode liq bi cd pl ilm ky q
 0.1373 0.2498 0.07303 0.2740 0.01035 0 0.2555

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.08 770.5 0.1331 0.2656 0.7079 0.01090 0.004189 0.7472
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5681 0.4621 0.4199 0.02858 0.1215 0.1792
 x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3223 0.7122 0.3634 0.01874 0.6626-0.0001028

mode liq bi cd pl ilm ky q
 0.1379 0.2496 0.07315 0.2738 0.01034 0 0.2552

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.11 772.0 0.1332 0.2663 0.7079 0.01102 0.004343 0.7477
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5669 0.4620 0.4190 0.02863 0.1218 0.1793
 x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3226 0.7120 0.3636 0.01884 0.6623-0.0001039

mode liq bi cd pl ilm ky q
 0.1386 0.2494 0.07327 0.2735 0.01033 0 0.2550

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.14 773.5 0.1332 0.2671 0.7079 0.01114 0.004501 0.7481
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5657 0.4619 0.4181 0.02868 0.1220 0.1794
 x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3229 0.7117 0.3638 0.01895 0.6620-0.0001050

mode liq bi cd pl ilm ky q
 0.1392 0.2491 0.07340 0.2732 0.01032 0 0.2547

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.17 775.0 0.1333 0.2678 0.7079 0.01127 0.004665 0.7486

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5645 0.4617 0.4172 0.02873 0.1223 0.1795
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3232 0.7114 0.3641 0.01905 0.6616-0.0001061

mode liq bi cd pl ilm ky q
0.1399 0.2489 0.07352 0.2729 0.01031 0 0.2545

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 776.5 0.1333 0.2686 0.7078 0.01140 0.004835 0.7490
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5632 0.4616 0.4163 0.02878 0.1226 0.1796
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3235 0.7111 0.3643 0.01916 0.6613-0.0001073

mode liq bi cd pl ilm ky q
0.1406 0.2487 0.07364 0.2726 0.01030 0 0.2542

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.23 778.0 0.1334 0.2693 0.7078 0.01153 0.005010 0.7494
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5620 0.4615 0.4154 0.02883 0.1229 0.1798
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3237 0.7108 0.3646 0.01927 0.6610-0.0001085

mode liq bi cd pl ilm ky q
0.1413 0.2484 0.07376 0.2723 0.01029 0 0.2539

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.26 779.5 0.1334 0.2701 0.7078 0.01166 0.005192 0.7498
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5607 0.4613 0.4145 0.02888 0.1231 0.1799
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3240 0.7105 0.3648 0.01938 0.6606-0.0001098

mode liq bi cd pl ilm ky q
0.1420 0.2482 0.07388 0.2720 0.01028 0 0.2537

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.29 781.0 0.1335 0.2708 0.7077 0.01179 0.005380 0.7502
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5594 0.4611 0.4136 0.02893 0.1234 0.1800
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3243 0.7101 0.3651 0.01949 0.6603-0.0001111

mode liq bi cd pl ilm ky q
0.1427 0.2479 0.07400 0.2717 0.01027 0 0.2534

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.32 782.5 0.1336 0.2716 0.7076 0.01192 0.005574 0.7507

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5582 0.4610 0.4127 0.02898 0.1237 0.1801
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3246 0.7098 0.3653 0.01960 0.6600-0.0001124

mode liq bi cd pl ilm ky q
0.1434 0.2477 0.07411 0.2714 0.01026 0 0.2531

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.35 784.0 0.1336 0.2724 0.7075 0.01206 0.005775 0.7511
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5569 0.4608 0.4118 0.02903 0.1240 0.1802
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3248 0.7094 0.3656 0.01971 0.6596-0.0001137

mode liq bi cd pl ilm ky q
0.1442 0.2474 0.07423 0.2711 0.01024 0 0.2528

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.38 785.5 0.1337 0.2731 0.7074 0.01219 0.005983 0.7515
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5555 0.4606 0.4109 0.02908 0.1243 0.1803
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3251 0.7091 0.3658 0.01983 0.6593-0.0001151

mode liq bi cd pl ilm ky q
0.1450 0.2471 0.07435 0.2708 0.01023 0 0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.41 787.0 0.1338 0.2739 0.7073 0.01233 0.006198 0.7518
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5542 0.4604 0.4100 0.02913 0.1246 0.1804
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3253 0.7087 0.3661 0.01995 0.6590-0.0001165

mode liq bi cd pl ilm ky q
0.1457 0.2469 0.07446 0.2705 0.01022 0 0.2522

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.44 788.6 0.1339 0.2746 0.7072 0.01247 0.006421 0.7522
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5529 0.4602 0.4092 0.02918 0.1249 0.1805
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3256 0.7083 0.3663 0.02006 0.6586-0.0001179

mode liq bi cd pl ilm ky q
0.1465 0.2466 0.07458 0.2702 0.01021 0 0.2519

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.47 790.1 0.1339 0.2754 0.7070 0.01261 0.006651 0.7526

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5515 0.4600 0.4083 0.02924 0.1252 0.1806
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3258 0.7078 0.3666 0.02018 0.6583-0.0001194

mode liq bi cd pl ilm ky q
0.1473 0.2463 0.07469 0.2698 0.01020 0 0.2516

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 791.6 0.1340 0.2761 0.7069 0.01275 0.006889 0.7530
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5502 0.4598 0.4074 0.02929 0.1255 0.1807
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3260 0.7074 0.3669 0.02031 0.6579-0.0001210

mode liq bi cd pl ilm ky q
0.1482 0.2460 0.07480 0.2695 0.01019 0 0.2513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.53 793.1 0.1341 0.2769 0.7067 0.01290 0.007135 0.7534
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5488 0.4595 0.4065 0.02934 0.1258 0.1808
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3262 0.7069 0.3671 0.02043 0.6576-0.0001225

mode liq bi cd pl ilm ky q
0.1490 0.2457 0.07491 0.2692 0.01018 0 0.2510

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.56 794.7 0.1342 0.2776 0.7065 0.01305 0.007389 0.7537
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5474 0.4593 0.4056 0.02939 0.1261 0.1809
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3264 0.7065 0.3674 0.02056 0.6573-0.0001242

mode liq bi cd pl ilm ky q
0.1499 0.2454 0.07502 0.2689 0.01017 0 0.2507

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.59 796.2 0.1343 0.2784 0.7063 0.01320 0.007652 0.7541
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5460 0.4590 0.4047 0.02944 0.1264 0.1810
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3266 0.7060 0.3677 0.02068 0.6569-0.0001258

mode liq bi cd pl ilm ky q
0.1507 0.2451 0.07513 0.2685 0.01016 0 0.2504

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.62 797.7 0.1344 0.2791 0.7060 0.01335 0.007924 0.7544

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5445 0.4588 0.4038 0.02950 0.1267 0.1811
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3268 0.7055 0.3680 0.02081 0.6566-0.0001275

mode liq bi cd pl ilm ky q
0.1516 0.2447 0.07524 0.2682 0.01015 0 0.2500

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.65 799.3 0.1345 0.2799 0.7058 0.01350 0.008205 0.7548
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5431 0.4585 0.4030 0.02955 0.1271 0.1812
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3270 0.7050 0.3682 0.02094 0.6562-0.0001293

mode liq bi cd pl ilm ky q
0.1526 0.2444 0.07535 0.2678 0.01014 0 0.2497

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 772.6 0.1520 0.2791 0.6642 0.01038 0.004857 0.7480
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5373 0.4627 0.3723 0.02973 0.1233 0.2014
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3287 0.6451 0.7464 0.02261 0.002941 0.3673
k(pl) x(ilm) Q(ilm)
0.02127 0.6727-9.631e-5

mode liq bi cd g pl ilm q
0.1577 0.2385 0.08346 0 0.2705 0.01066 0.2391

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.05 771.4 0.1507 0.2776 0.6669 0.01032 0.004665 0.7476
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5403 0.4628 0.3765 0.02963 0.1229 0.1997
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.3280 0.6501 0.7467 0.02265 0.002901 0.3667
k(pl) x(ilm) Q(ilm)
0.02105 0.6722-9.606e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1557	0.2395	0.08263		0	0.2710	0.01064 0.2405

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.10 770.1 0.1493 0.2761 0.6696 0.01026 0.004478 0.7472
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5434 0.4629 0.3807 0.02953 0.1226 0.1979
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3274 0.6552 0.7469 0.02268 0.002861 0.3662
k(pl) x(ilm) Q(ilm)
0.02082 0.6716-9.579e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1536	0.2405	0.08180		0	0.2715	0.01062 0.2419

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.15 768.7 0.1479 0.2746 0.6723 0.01020 0.004298 0.7468
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5465 0.4630 0.3849 0.02943 0.1223 0.1961
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3267 0.6602 0.7472 0.02271 0.002821 0.3657
k(pl) x(ilm) Q(ilm)
0.02058 0.6711-9.549e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1516	0.2415	0.08096		0	0.2720	0.01060 0.2433

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 767.4 0.1466 0.2730 0.6752 0.01014 0.004123 0.7464
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5497 0.4631 0.3891 0.02932 0.1220 0.1944
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3261 0.6652 0.7475 0.02275 0.002781 0.3652
k(pl) x(ilm) Q(ilm)
0.02033 0.6706-9.518e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1496	0.2425	0.08012		0	0.2725	0.01058 0.2447

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.25 766.0 0.1452 0.2714 0.6781 0.01008 0.003955 0.7460
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5528 0.4632 0.3933 0.02920 0.1217 0.1927
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3254 0.6702 0.7478 0.02279 0.002741 0.3647
k(pl) x(ilm) Q(ilm)

0.02008 0.6702-9.485e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1476	0.2435	0.07928		0	0.2730	0.01057 0.2461

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 764.6 0.1438 0.2698 0.6810 0.01001 0.003791 0.7455
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5560 0.4632 0.3975 0.02909 0.1213 0.1910
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3246 0.6751 0.7480 0.02284 0.002701 0.3642
k(pl) x(ilm) Q(ilm)
0.01982 0.6697-9.449e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1456	0.2445	0.07843		0	0.2735	0.01055 0.2475

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.35 763.1 0.1425 0.2682 0.6840 0.009950 0.003633 0.7451
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5592 0.4633 0.4017 0.02897 0.1210 0.1893
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3239 0.6801 0.7483 0.02289 0.002661 0.3637
k(pl) x(ilm) Q(ilm)
0.01956 0.6693-9.411e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1437	0.2454	0.07758		0	0.2739	0.01054 0.2488

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 761.7 0.1411 0.2665 0.6871 0.009885 0.003480 0.7446
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5624 0.4633 0.4059 0.02884 0.1206 0.1876
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3231 0.6851 0.7486 0.02294 0.002622 0.3632
k(pl) x(ilm) Q(ilm)
0.01929 0.6688-9.371e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1418	0.2464	0.07673		0	0.2744	0.01053 0.2502

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 760.2 0.1397 0.2648 0.6902 0.009819 0.003332 0.7441
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5656 0.4633 0.4101 0.02871 0.1202 0.1859
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3223 0.6900 0.7489 0.02299 0.002582 0.3628
k(pl) x(ilm) Q(ilm)
0.01901 0.6684-9.328e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1398	0.2474	0.07588		0	0.2749	0.01052 0.2515

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.50 758.6 0.1384 0.2631 0.6934 0.009751 0.003188 0.7435

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5689 0.4633 0.4143 0.02857 0.1199 0.1842

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.3215 0.6949 0.7491 0.02305 0.002543 0.3623

k(pl) x(ilm) Q(ilm)

0.01872 0.6680-9.282e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1380	0.2483	0.07502		0	0.2753	0.01051 0.2529

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.55 757.0 0.1370 0.2614 0.6966 0.009682 0.003049 0.7430

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5723 0.4634 0.4186 0.02843 0.1195 0.1826

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.3207 0.6998 0.7494 0.02311 0.002503 0.3619

k(pl) x(ilm) Q(ilm)

0.01843 0.6677-9.234e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1361	0.2493	0.07416		0	0.2758	0.01050 0.2542

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.60 755.4 0.1356 0.2596 0.7000 0.009611 0.002914 0.7424

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5756 0.4634 0.4228 0.02828 0.1191 0.1809

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.3198 0.7048 0.7497 0.02317 0.002463 0.3614

k(pl) x(ilm) Q(ilm)

0.01813 0.6673-9.183e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1342	0.2502	0.07329		0	0.2762	0.01049 0.2555

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.65 753.7 0.1342 0.2579 0.7034 0.009539 0.002783 0.7418

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5790 0.4633 0.4270 0.02813 0.1187 0.1793

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.3190 0.7097 0.7500 0.02324 0.002423 0.3610

k(pl) x(ilm) Q(ilm)

0.01783 0.6670-9.129e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1324	0.2512	0.07242		0	0.2766	0.01049 0.2568

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.70	752.0	0.1328	0.2560	0.7068	0.009465	0.002657	0.7412
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5824	0.4633	0.4312	0.02798	0.1182	0.1777	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3181	0.7146	0.7503	0.02331	0.002383	0.3605	
	k(pl)	x(ilm)	Q(ilm)				
	0.01751	0.6667	9.071e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1306	0.2521	0.07155		0	0.2771	0.01048 0.2582

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.75	750.2	0.1314	0.2542	0.7104	0.009390	0.002534	0.7406
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5859	0.4633	0.4354	0.02781	0.1178	0.1761	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3172	0.7195	0.7507	0.02339	0.002343	0.3601	
	k(pl)	x(ilm)	Q(ilm)				
	0.01719	0.6664	9.011e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1288	0.2531	0.07067		0	0.2775	0.01048 0.2595

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.80	748.4	0.1300	0.2523	0.7140	0.009312	0.002415	0.7399
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5894	0.4632	0.4397	0.02765	0.1174	0.1745	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3162	0.7243	0.7510	0.02347	0.002303	0.3597	
	k(pl)	x(ilm)	Q(ilm)				
	0.01687	0.6662	8.947e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1270	0.2540	0.06979		0	0.2780	0.01048 0.2608

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.85	746.5	0.1286	0.2504	0.7177	0.009233	0.002300	0.7392
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5930	0.4632	0.4439	0.02747	0.1169	0.1730	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3152	0.7292	0.7513	0.02355	0.002262	0.3593	
	k(pl)	x(ilm)	Q(ilm)				
	0.01653	0.6660	8.880e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1252	0.2549	0.06890		0	0.2784	0.01048 0.2621

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

6.90 744.5 0.1272 0.2484 0.7215 0.009151 0.002188 0.7385
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5966 0.4631 0.4482 0.02729 0.1164 0.1714
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3142 0.7341 0.7517 0.02364 0.002222 0.3588
k(pl) x(ilm) Q(ilm)
0.01619 0.6658-8.810e-5

mode liq bi cd g pl ilm q
0.1234 0.2559 0.06802 0 0.2788 0.01049 0.2634

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.95 742.5 0.1258 0.2464 0.7253 0.009067 0.002079 0.7377
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6003 0.4630 0.4524 0.02711 0.1159 0.1698
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3132 0.7390 0.7520 0.02374 0.002180 0.3584
k(pl) x(ilm) Q(ilm)
0.01585 0.6656-8.735e-5

mode liq bi cd g pl ilm q
0.1217 0.2568 0.06712 0 0.2792 0.01049 0.2647

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 740.4 0.1243 0.2444 0.7293 0.008981 0.001974 0.7369
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6040 0.4630 0.4567 0.02691 0.1154 0.1683
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3121 0.7439 0.7524 0.02383 0.002139 0.3580
k(pl) x(ilm) Q(ilm)
0.01549 0.6655-8.657e-5

mode liq bi cd g pl ilm q
0.1199 0.2577 0.06622 0 0.2797 0.01050 0.2660

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.05 738.3 0.1228 0.2423 0.7334 0.008893 0.001873 0.7361
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6079 0.4629 0.4611 0.02671 0.1149 0.1668
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3110 0.7488 0.7528 0.02394 0.002097 0.3576
k(pl) x(ilm) Q(ilm)
0.01512 0.6654-8.576e-5

mode liq bi cd g pl ilm q
0.1181 0.2587 0.06530 0 0.2801 0.01051 0.2673

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.10 736.1 0.1213 0.2402 0.7377 0.008801 0.001775 0.7352
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6118 0.4628 0.4655 0.02651 0.1143 0.1652
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3099 0.7537 0.7532 0.02405 0.002055 0.3572
k(pl) x(ilm) Q(ilm)
0.01475 0.6654-8.491e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1163	0.2596	0.06437		0	0.2805	0.01052 0.2686

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.15 733.8 0.1198 0.2380 0.7422 0.008707 0.001680 0.7343
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6158 0.4626 0.4699 0.02629 0.1138 0.1637
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3087 0.7586 0.7536 0.02417 0.002012 0.3568
k(pl) x(ilm) Q(ilm)
0.01436 0.6654-8.402e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1146	0.2605	0.06343		0	0.2809	0.01053 0.2700

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 731.4 0.1182 0.2358 0.7467 0.008610 0.001588 0.7333
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6199 0.4625 0.4744 0.02607 0.1132 0.1622
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3074 0.7636 0.7540 0.02429 0.001969 0.3564
k(pl) x(ilm) Q(ilm)
0.01397 0.6654-8.309e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1128	0.2615	0.06248		0	0.2814	0.01054 0.2713

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.25 728.9 0.1165 0.2335 0.7514 0.008509 0.001498 0.7323
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6241 0.4623 0.4789 0.02583 0.1125 0.1607
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3062 0.7685 0.7545 0.02442 0.001925 0.3560
k(pl) x(ilm) Q(ilm)
0.01357 0.6655-8.211e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1110	0.2624	0.06152		0	0.2818	0.01056 0.2727

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.30 726.2 0.1149 0.2312 0.7563 0.008404 0.001411 0.7312
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6285 0.4622 0.4834 0.02559 0.1119 0.1591
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.3048 0.7735 0.7550 0.02456 0.001880 0.3556
k(pl) x(ilm) Q(ilm)
0.01315 0.6657-8.108e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1092	0.2634	0.06054		0	0.2822	0.01058 0.2741

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.35 723.5 0.1132 0.2288 0.7614 0.008294 0.001326 0.7301
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6329 0.4620 0.4881 0.02534 0.1112 0.1576
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3035 0.7785 0.7555 0.02471 0.001835 0.3552
k(pl) x(ilm) Q(ilm)
0.01273 0.6659-7.999e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1074	0.2643	0.05955		0	0.2827	0.01061 0.2754

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 720.6 0.1114 0.2262 0.7666 0.008179 0.001244 0.7288
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6375 0.4618 0.4928 0.02507 0.1104 0.1561
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3020 0.7836 0.7560 0.02487 0.001788 0.3548
k(pl) x(ilm) Q(ilm)
0.01229 0.6662-7.885e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1055	0.2653	0.05854		0	0.2831	0.01064 0.2768

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.45 717.5 0.1097 0.2236 0.7720 0.008059 0.001164 0.7275
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6423 0.4616 0.4976 0.02479 0.1096 0.1546
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3005 0.7887 0.7566 0.02504 0.001741 0.3543
k(pl) x(ilm) Q(ilm)
0.01184 0.6666-7.765e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1037	0.2663	0.05752		0	0.2836	0.01067 0.2783

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 714.2 0.1079 0.2209 0.7776 0.007933 0.001085 0.7261
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6473 0.4614 0.5024 0.02450 0.1088 0.1531
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2989 0.7939 0.7573 0.02523 0.001692 0.3539
k(pl) x(ilm) Q(ilm)

0.01138 0.6671-7.639e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1018	0.2673	0.05647		0	0.2840	0.01071 0.2797

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.55 710.8 0.1060 0.2181 0.7835 0.007799 0.001009 0.7246
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6524 0.4612 0.5074 0.02419 0.1079 0.1516
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2972 0.7992 0.7580 0.02543 0.001641 0.3534
k(pl) x(ilm) Q(ilm)
0.01090 0.6676-7.506e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.09992	0.2682	0.05540		0	0.2845	0.01075 0.2812

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 707.0 0.1041 0.2151 0.7896 0.0076580.0009339 0.7230
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6578 0.4609 0.5126 0.02386 0.1070 0.1501
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2954 0.8045 0.7587 0.02565 0.001589 0.3530
k(pl) x(ilm) Q(ilm)
0.01041 0.6683-7.364e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.09797	0.2692	0.05431		0	0.2850	0.01080 0.2826

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.65 703.0 0.1021 0.2119 0.7961 0.0075060.0008605 0.7212
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6635 0.4606 0.5178 0.02351 0.1060 0.1487
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2934 0.8100 0.7596 0.02589 0.001535 0.3525
k(pl) x(ilm) Q(ilm)
0.009898 0.6691-7.215e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.09597	0.2703	0.05318		0	0.2856	0.01085 0.2842

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : liq, bi, cd, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 690.4 0.1200 0.2164 0.7915 0.0055550.0009103 0.7114

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6469 0.4476 0.4250 0.02699 0.1026 0.2004
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7480 0.3192 0.01046 0.6770-6.613e-5

mode liq bi cd pl ilm ky q H2O
0 0.2883 0.01429 0.3199 0.01043 0.02297 0.3108 0.03326

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.01 690.4 0.1199 0.2163 0.7926 0.0055610.0009200 0.7114
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6471 0.4475 0.4243 0.02699 0.1025 0.2008
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7485 0.3192 0.01041 0.6772-6.610e-5

mode liq bi cd pl ilm ky q H2O
0 0.2884 0.01408 0.3199 0.01044 0.02311 0.3108 0.03327

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.02 690.5 0.1197 0.2162 0.7936 0.0055680.0009299 0.7115
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6474 0.4474 0.4236 0.02698 0.1024 0.2012
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7490 0.3192 0.01035 0.6773-6.607e-5

mode liq bi cd pl ilm ky q H2O
0 0.2884 0.01387 0.3199 0.01044 0.02325 0.3109 0.03328

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.03 690.6 0.1195 0.2161 0.7947 0.0055740.0009398 0.7116
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6476 0.4473 0.4229 0.02698 0.1023 0.2016
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7495 0.3192 0.01029 0.6775-6.604e-5

mode liq bi cd pl ilm ky q H2O
0 0.2885 0.01366 0.3198 0.01044 0.02339 0.3109 0.03329

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.04 690.7 0.1194 0.2161 0.7958 0.0055810.0009498 0.7116
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6479 0.4472 0.4222 0.02697 0.1023 0.2021
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7500 0.3192 0.01024 0.6777-6.601e-5

mode liq bi cd pl ilm ky q H2O
0 0.2886 0.01344 0.3198 0.01045 0.02353 0.3109 0.03330

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.05 690.8 0.1192 0.2160 0.7969 0.0055870.0009599 0.7117

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6482 0.4471 0.4215 0.02697 0.1022 0.2025
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7504 0.3193 0.01018 0.6778-6.598e-5

mode liq bi cd pl ilm ky q H2O
0 0.2886 0.01323 0.3198 0.01045 0.02366 0.3109 0.03331

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.06 690.9 0.1190 0.2159 0.7979 0.0055940.0009702 0.7117
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6484 0.4470 0.4208 0.02697 0.1021 0.2029
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7509 0.3193 0.01013 0.6780-6.595e-5

mode liq bi cd pl ilm ky q H2O
0 0.2887 0.01302 0.3198 0.01046 0.02380 0.3109 0.03332

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.07 691.0 0.1188 0.2158 0.7990 0.0056000.0009805 0.7118
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6487 0.4470 0.4201 0.02696 0.1020 0.2033
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7514 0.3193 0.01007 0.6782-6.592e-5

mode liq bi cd pl ilm ky q H2O
0 0.2888 0.01281 0.3198 0.01046 0.02394 0.3109 0.03332

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.08 691.1 0.1187 0.2157 0.8001 0.0056070.0009909 0.7118
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6489 0.4469 0.4194 0.02696 0.1020 0.2037
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7518 0.3193 0.01002 0.6783-6.589e-5

mode liq bi cd pl ilm ky q H2O
0 0.2888 0.01260 0.3198 0.01047 0.02408 0.3110 0.03333

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.09 691.1 0.1185 0.2157 0.8011 0.005613 0.001001 0.7119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6492 0.4468 0.4187 0.02695 0.1019 0.2041
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7523 0.3193 0.009966 0.6785-6.585e-5

mode liq bi cd pl ilm ky q H2O
0 0.2889 0.01238 0.3197 0.01047 0.02422 0.3110 0.03334

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.10 691.2 0.1183 0.2156 0.8022 0.005620 0.001012 0.7119

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6494 0.4467 0.4180 0.02695 0.1018 0.2045
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7528 0.3193 0.009912 0.6787-6.582e-5

mode liq bi cd pl ilm ky q H2O
0 0.2889 0.01217 0.3197 0.01048 0.02435 0.3110 0.03335

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.11 691.3 0.1182 0.2155 0.8032 0.005626 0.001023 0.7120
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6497 0.4466 0.4173 0.02694 0.1017 0.2049
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7533 0.3194 0.009859 0.6789-6.579e-5

mode liq bi cd pl ilm ky q H2O
0 0.2890 0.01196 0.3197 0.01048 0.02449 0.3110 0.03336

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.12 691.4 0.1180 0.2154 0.8043 0.005633 0.001034 0.7120
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6500 0.4465 0.4166 0.02694 0.1017 0.2053
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7537 0.3194 0.009805 0.6790-6.576e-5

mode liq bi cd pl ilm ky q H2O
0 0.2891 0.01175 0.3197 0.01049 0.02463 0.3110 0.03337

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.13 691.5 0.1178 0.2153 0.8053 0.005639 0.001045 0.7121
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6502 0.4464 0.4158 0.02693 0.1016 0.2057
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7542 0.3194 0.009752 0.6792-6.573e-5

mode liq bi cd pl ilm ky q H2O
0 0.2891 0.01153 0.3197 0.01050 0.02477 0.3110 0.03338

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.14 691.5 0.1177 0.2153 0.8064 0.005646 0.001056 0.7121
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6505 0.4464 0.4151 0.02692 0.1015 0.2061
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7547 0.3194 0.009699 0.6794-6.570e-5

mode liq bi cd pl ilm ky q H2O
0 0.2892 0.01132 0.3196 0.01050 0.02491 0.3110 0.03339

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.15 691.6 0.1175 0.2152 0.8074 0.005652 0.001067 0.7122

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6507 0.4463 0.4144 0.02692 0.1014 0.2066
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7551 0.3194 0.009646 0.6795-6.566e-5

mode liq bi cd pl ilm ky q H2O
0 0.2893 0.01111 0.3196 0.01051 0.02505 0.3110 0.03340

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.16 691.7 0.1173 0.2151 0.8085 0.005658 0.001078 0.7122
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6510 0.4462 0.4137 0.02691 0.1014 0.2070
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7556 0.3194 0.009594 0.6797-6.563e-5

mode liq bi cd pl ilm ky q H2O
0 0.2893 0.01090 0.3196 0.01051 0.02519 0.3111 0.03341

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.17 691.8 0.1172 0.2150 0.8095 0.005665 0.001090 0.7123
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6512 0.4461 0.4130 0.02691 0.1013 0.2074
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7561 0.3195 0.009541 0.6799-6.560e-5

mode liq bi cd pl ilm ky q H2O
0 0.2894 0.01068 0.3196 0.01052 0.02533 0.3111 0.03342

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.18 691.9 0.1170 0.2149 0.8105 0.005671 0.001101 0.7123
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6515 0.4460 0.4123 0.02690 0.1012 0.2078
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7565 0.3195 0.009489 0.6801-6.557e-5

mode liq bi cd pl ilm ky q H2O
0 0.2894 0.01047 0.3196 0.01052 0.02547 0.3111 0.03342

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.19 691.9 0.1168 0.2149 0.8115 0.005678 0.001113 0.7124
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6517 0.4459 0.4116 0.02690 0.1011 0.2082
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7570 0.3195 0.009437 0.6802-6.553e-5

mode liq bi cd pl ilm ky q H2O
0 0.2895 0.01026 0.3196 0.01053 0.02561 0.3111 0.03343

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 692.0 0.1167 0.2148 0.8126 0.005684 0.001125 0.7124

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6520 0.4458 0.4108 0.02689 0.1011 0.2086
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7575 0.3195 0.009385 0.6804-6.550e-5

mode liq bi cd pl ilm ky q H2O
0 0.2896 0.01005 0.3195 0.01053 0.02575 0.3111 0.03344

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.21 692.1 0.1165 0.2147 0.8136 0.005690 0.001137 0.7125
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6522 0.4458 0.4101 0.02688 0.1010 0.2091
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7579 0.3195 0.009334 0.6806-6.547e-5

mode liq bi cd pl ilm ky q H2O
0 0.2896 0.009833 0.3195 0.01054 0.02589 0.3111 0.03345

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.22 692.2 0.1164 0.2146 0.8146 0.005697 0.001149 0.7125
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6525 0.4457 0.4094 0.02688 0.1009 0.2095
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7584 0.3195 0.009283 0.6807-6.544e-5

mode liq bi cd pl ilm ky q H2O
0 0.2897 0.009620 0.3195 0.01054 0.02602 0.3111 0.03346

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.23 692.3 0.1162 0.2145 0.8156 0.005703 0.001161 0.7126
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6527 0.4456 0.4087 0.02687 0.1008 0.2099
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7589 0.3196 0.009232 0.6809-6.540e-5

mode liq bi cd pl ilm ky q H2O
0 0.2898 0.009407 0.3195 0.01055 0.02616 0.3112 0.03347

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.24 692.3 0.1160 0.2145 0.8166 0.005709 0.001173 0.7126
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6529 0.4455 0.4080 0.02686 0.1007 0.2103
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7593 0.3196 0.009181 0.6811-6.537e-5

mode liq bi cd pl ilm ky q H2O
0 0.2898 0.009194 0.3195 0.01055 0.02630 0.3112 0.03348

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.25 692.4 0.1159 0.2144 0.8176 0.005716 0.001185 0.7127

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6532 0.4454 0.4073 0.02686 0.1007 0.2107
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7598 0.3196 0.009130 0.6813-6.534e-5

mode liq bi cd pl ilm ky q H2O
0 0.2899 0.008981 0.3195 0.01056 0.02644 0.3112 0.03349

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.26 692.5 0.1157 0.2143 0.8186 0.005722 0.001198 0.7127
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6534 0.4453 0.4065 0.02685 0.1006 0.2111
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7602 0.3196 0.009080 0.6814-6.530e-5

mode liq bi cd pl ilm ky q H2O
0 0.2899 0.008768 0.3194 0.01056 0.02658 0.3112 0.03350

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.27 692.6 0.1155 0.2142 0.8196 0.005728 0.001211 0.7128
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6537 0.4452 0.4058 0.02684 0.1005 0.2116
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7607 0.3196 0.009029 0.6816-6.527e-5

mode liq bi cd pl ilm ky q H2O
0 0.2900 0.008554 0.3194 0.01057 0.02672 0.3112 0.03351

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.28 692.6 0.1154 0.2142 0.8206 0.005735 0.001223 0.7128
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6539 0.4452 0.4051 0.02684 0.1004 0.2120
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.7612 0.3196 0.008979 0.6818-6.524e-5

mode liq bi cd pl ilm ky q H2O
0 0.2901 0.008341 0.3194 0.01058 0.02686 0.3112 0.03352

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.29 692.7 0.1152 0.2141 0.8216 0.005741 0.001236 0.7129
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6542 0.4451 0.4044 0.02683 0.1004 0.2124
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7616 0.3197 0.008930 0.6819-6.520e-5

mode liq bi cd pl ilm ky q H2O
0 0.2901 0.008128 0.3194 0.01058 0.02701 0.3112 0.03353

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 692.8 0.1150 0.2140 0.8226 0.005747 0.001249 0.7129

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6544 0.4450 0.4036 0.02682 0.1003 0.2128
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7621 0.3197 0.008880 0.6821-6.517e-5

mode liq bi cd pl ilm ky q H2O
0 0.2902 0.007914 0.3194 0.01059 0.02715 0.3112 0.03354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.31 692.9 0.1149 0.2139 0.8236 0.005754 0.001262 0.7130
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6547 0.4449 0.4029 0.02682 0.1002 0.2133
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7625 0.3197 0.008831 0.6823-6.514e-5

mode liq bi cd pl ilm ky q H2O
0 0.2902 0.007701 0.3194 0.01059 0.02729 0.3113 0.03355

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.32 692.9 0.1147 0.2139 0.8246 0.005760 0.001276 0.7130
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6549 0.4448 0.4022 0.02681 0.1001 0.2137
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7630 0.3197 0.008781 0.6825-6.510e-5

mode liq bi cd pl ilm ky q H2O
0 0.2903 0.007487 0.3194 0.01060 0.02743 0.3113 0.03356

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.33 693.0 0.1146 0.2138 0.8255 0.005766 0.001289 0.7131
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6551 0.4447 0.4015 0.02680 0.1000 0.2141
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7635 0.3197 0.008732 0.6826-6.507e-5

mode liq bi cd pl ilm ky q H2O
0 0.2904 0.007274 0.3193 0.01060 0.02757 0.3113 0.03357

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.34 693.1 0.1144 0.2137 0.8265 0.005772 0.001303 0.7131
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6554 0.4446 0.4008 0.02679 0.09996 0.2145
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7639 0.3197 0.008684 0.6828-6.504e-5

mode liq bi cd pl ilm ky q H2O
0 0.2904 0.007060 0.3193 0.01061 0.02771 0.3113 0.03358

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.35 693.1 0.1142 0.2136 0.8275 0.005779 0.001316 0.7132

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6556 0.4446 0.4000 0.02679 0.09988 0.2150
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7644 0.3198 0.008635 0.6830-6.500e-5

mode liq bi cd pl ilm ky q H2O
0 0.2905 0.006847 0.3193 0.01061 0.02785 0.3113 0.03359

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.36 693.2 0.1141 0.2136 0.8284 0.005785 0.001330 0.7132
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6559 0.4445 0.3993 0.02678 0.09980 0.2154
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7648 0.3198 0.008587 0.6831-6.497e-5

mode liq bi cd pl ilm ky q H2O
0 0.2905 0.006633 0.3193 0.01062 0.02799 0.3113 0.03360

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.37 693.3 0.1139 0.2135 0.8294 0.005791 0.001344 0.7133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6561 0.4444 0.3986 0.02677 0.09972 0.2158
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7653 0.3198 0.008538 0.6833-6.494e-5

mode liq bi cd pl ilm ky q H2O
0 0.2906 0.006419 0.3193 0.01063 0.02813 0.3113 0.03361

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.38 693.3 0.1137 0.2134 0.8304 0.005797 0.001358 0.7133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6563 0.4443 0.3979 0.02676 0.09964 0.2162
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7657 0.3198 0.008490 0.6835-6.490e-5

mode liq bi cd pl ilm ky q H2O
0 0.2907 0.006205 0.3193 0.01063 0.02827 0.3113 0.03362

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.39 693.4 0.1136 0.2134 0.8313 0.005804 0.001372 0.7134
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6566 0.4442 0.3971 0.02675 0.09956 0.2167
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2909 0.7662 0.3198 0.008443 0.6837-6.487e-5

mode liq bi cd pl ilm ky q H2O
0 0.2907 0.005991 0.3192 0.01064 0.02841 0.3114 0.03363

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 693.5 0.1134 0.2133 0.8323 0.005810 0.001387 0.7134

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6568 0.4441 0.3964 0.02674 0.09948 0.2171
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7666 0.3198 0.008395 0.6838-6.483e-5

mode liq bi cd pl ilm ky q H2O
0 0.2908 0.005777 0.3192 0.01064 0.02855 0.3114 0.03364

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.41 693.5 0.1133 0.2132 0.8332 0.005816 0.001401 0.7134
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6570 0.4440 0.3957 0.02674 0.09940 0.2175
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7671 0.3198 0.008348 0.6840-6.480e-5

mode liq bi cd pl ilm ky q H2O
0 0.2908 0.005563 0.3192 0.01065 0.02870 0.3114 0.03365

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.42 693.6 0.1131 0.2131 0.8342 0.005822 0.001416 0.7135
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6573 0.4440 0.3949 0.02673 0.09932 0.2180
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7675 0.3199 0.008301 0.6842-6.477e-5

mode liq bi cd pl ilm ky q H2O
0 0.2909 0.005349 0.3192 0.01065 0.02884 0.3114 0.03366

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.43 693.7 0.1129 0.2131 0.8351 0.005828 0.001431 0.7135
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6575 0.4439 0.3942 0.02672 0.09924 0.2184
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7680 0.3199 0.008254 0.6843-6.473e-5

mode liq bi cd pl ilm ky q H2O
0 0.2910 0.005135 0.3192 0.01066 0.02898 0.3114 0.03367

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.44 693.7 0.1128 0.2130 0.8360 0.005835 0.001446 0.7136
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6577 0.4438 0.3935 0.02671 0.09915 0.2188
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7684 0.3199 0.008207 0.6845-6.470e-5

mode liq bi cd pl ilm ky q H2O
0 0.2910 0.004921 0.3192 0.01067 0.02912 0.3114 0.03368

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 693.8 0.1126 0.2129 0.8370 0.005841 0.001461 0.7136

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6580 0.4437 0.3927 0.02670 0.09907 0.2193
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7689 0.3199 0.008160 0.6847-6.466e-5

mode liq bi cd pl ilm ky q H2O
0 0.2911 0.004707 0.3192 0.01067 0.02926 0.3114 0.03369

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.46 693.9 0.1125 0.2129 0.8379 0.005847 0.001476 0.7137
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6582 0.4436 0.3920 0.02669 0.09899 0.2197
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7693 0.3199 0.008114 0.6849-6.463e-5

mode liq bi cd pl ilm ky q H2O
0 0.2911 0.004492 0.3191 0.01068 0.02940 0.3114 0.03370

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.47 693.9 0.1123 0.2128 0.8388 0.005853 0.001491 0.7137
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6584 0.4435 0.3913 0.02668 0.09891 0.2201
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7698 0.3199 0.008068 0.6850-6.459e-5

mode liq bi cd pl ilm ky q H2O
0 0.2912 0.004278 0.3191 0.01068 0.02955 0.3115 0.03371

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.48 694.0 0.1121 0.2127 0.8398 0.005859 0.001507 0.7137
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6587 0.4434 0.3906 0.02667 0.09883 0.2206
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7702 0.3200 0.008022 0.6852-6.456e-5

mode liq bi cd pl ilm ky q H2O
0 0.2913 0.004064 0.3191 0.01069 0.02969 0.3115 0.03372

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.49 694.1 0.1120 0.2126 0.8407 0.005865 0.001523 0.7138
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6589 0.4433 0.3898 0.02666 0.09875 0.2210
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2908 0.7707 0.3200 0.007976 0.6854-6.452e-5

mode liq bi cd pl ilm ky q H2O
0 0.2913 0.003849 0.3191 0.01070 0.02983 0.3115 0.03373

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 694.1 0.1118 0.2126 0.8416 0.005871 0.001539 0.7138

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6591 0.4433 0.3891 0.02665 0.09866 0.2214
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2907 0.7711 0.3200 0.007931 0.6856-6.449e-5

mode liq bi cd pl ilm ky q H2O
0 0.2914 0.003635 0.3191 0.01070 0.02997 0.3115 0.03374

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.51 694.2 0.1117 0.2125 0.8425 0.005878 0.001555 0.7139
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6594 0.4432 0.3884 0.02665 0.09858 0.2219
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2907 0.7716 0.3200 0.007885 0.6857-6.445e-5

mode liq bi cd pl ilm ky q H2O
0 0.2914 0.003420 0.3191 0.01071 0.03012 0.3115 0.03375

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.52 694.3 0.1115 0.2124 0.8434 0.005884 0.001571 0.7139
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6596 0.4431 0.3876 0.02664 0.09850 0.2223
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2907 0.7720 0.3200 0.007840 0.6859-6.442e-5

mode liq bi cd pl ilm ky q H2O
0 0.2915 0.003206 0.3190 0.01071 0.03026 0.3115 0.03376

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.53 694.3 0.1114 0.2124 0.8443 0.005890 0.001587 0.7140
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6598 0.4430 0.3869 0.02663 0.09842 0.2227
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2907 0.7725 0.3200 0.007795 0.6861-6.438e-5

mode liq bi cd pl ilm ky q H2O
0 0.2916 0.002991 0.3190 0.01072 0.03040 0.3115 0.03377

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.54 694.4 0.1112 0.2123 0.8452 0.005896 0.001604 0.7140
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6601 0.4429 0.3861 0.02662 0.09833 0.2232
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2907 0.7729 0.3200 0.007750 0.6862-6.435e-5

mode liq bi cd pl ilm ky q H2O
0 0.2916 0.002776 0.3190 0.01073 0.03054 0.3115 0.03378

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.55 694.4 0.1110 0.2122 0.8461 0.005902 0.001620 0.7140

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6603 0.4428 0.3854 0.02661 0.09825 0.2236
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2907 0.7734 0.3201 0.007706 0.6864-6.431e-5

mode liq bi cd pl ilm ky q H2O
0 0.2917 0.002562 0.3190 0.01073 0.03069 0.3115 0.03379

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.56 694.5 0.1109 0.2122 0.8470 0.005908 0.001637 0.7141
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6605 0.4427 0.3847 0.02660 0.09817 0.2241
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2907 0.7738 0.3201 0.007661 0.6866-6.428e-5

mode liq bi cd pl ilm ky q H2O
0 0.2917 0.002347 0.3190 0.01074 0.03083 0.3116 0.03380

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.57 694.6 0.1107 0.2121 0.8479 0.005914 0.001654 0.7141
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6607 0.4427 0.3839 0.02659 0.09808 0.2245
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2906 0.7742 0.3201 0.007617 0.6868-6.424e-5

mode liq bi cd pl ilm ky q H2O
0 0.2918 0.002132 0.3190 0.01075 0.03097 0.3116 0.03381

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.58 694.6 0.1106 0.2120 0.8488 0.005920 0.001671 0.7142
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6610 0.4426 0.3832 0.02657 0.09800 0.2249
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2906 0.7747 0.3201 0.007573 0.6869-6.421e-5

mode liq bi cd pl ilm ky q H2O
0 0.2919 0.001917 0.3190 0.01075 0.03111 0.3116 0.03382

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.59 694.7 0.1104 0.2119 0.8497 0.005926 0.001689 0.7142
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6612 0.4425 0.3825 0.02656 0.09792 0.2254
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2906 0.7751 0.3201 0.007529 0.6871-6.417e-5

mode liq bi cd pl ilm ky q H2O
0 0.2919 0.001702 0.3189 0.01076 0.03126 0.3116 0.03383

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 694.7 0.1102 0.2119 0.8506 0.005932 0.001706 0.7142

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6614 0.4424 0.3817 0.02655 0.09783 0.2258
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2906 0.7756 0.3201 0.007485 0.6873-6.414e-5

mode liq bi cd pl ilm ky q H2O
0 0.2920 0.001487 0.3189 0.01076 0.03140 0.3116 0.03384

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.61 694.8 0.1101 0.2118 0.8514 0.005938 0.001724 0.7143
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6616 0.4423 0.3810 0.02654 0.09775 0.2263
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2906 0.7760 0.3201 0.007442 0.6874-6.410e-5

mode liq bi cd pl ilm ky q H2O
0 0.2920 0.001272 0.3189 0.01077 0.03154 0.3116 0.03385

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.62 694.8 0.1099 0.2117 0.8523 0.005944 0.001742 0.7143
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6619 0.4422 0.3802 0.02653 0.09766 0.2267
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2906 0.7764 0.3202 0.007399 0.6876-6.407e-5

mode liq bi cd pl ilm ky q H2O
0 0.2921 0.001057 0.3189 0.01078 0.03169 0.3116 0.03386

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.63 694.9 0.1098 0.2117 0.8532 0.005950 0.001760 0.7144
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6621 0.4421 0.3795 0.02652 0.09758 0.2272
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2906 0.7769 0.3202 0.007356 0.6878-6.403e-5

mode liq bi cd pl ilm ky q H2O
0 0.29210.0008417 0.3189 0.01078 0.03183 0.3116 0.03387

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.64 695.0 0.1096 0.2116 0.8540 0.005956 0.001778 0.7144
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6623 0.4421 0.3788 0.02651 0.09750 0.2276
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2905 0.7773 0.3202 0.007313 0.6880-6.400e-5

mode liq bi cd pl ilm ky q H2O
0 0.29220.0006265 0.3189 0.01079 0.03197 0.3116 0.03389

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.65 695.0 0.1095 0.2115 0.8549 0.005962 0.001797 0.7144

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6625 0.4420 0.3780 0.02650 0.09741 0.2280
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2905 0.7778 0.3202 0.007270 0.6881-6.396e-5

mode liq bi cd pl ilm ky q H2O
0 0.29230.0004112 0.3189 0.01080 0.03212 0.3117 0.03390

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.66 695.1 0.1093 0.2115 0.8558 0.005968 0.001815 0.7145
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6628 0.4419 0.3773 0.02649 0.09733 0.2285
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2905 0.7782 0.3202 0.007228 0.6883-6.392e-5

mode liq bi cd pl ilm ky q H2O
0 0.29230.0001959 0.3189 0.01080 0.03226 0.3117 0.03391
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 693.6 0.1229 0.2141 0.7754 0.0062340.0009508 0.7161
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6451 0.4550 0.4311 0.02622 0.1034 0.1953
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2970 0.7464 0.3552 0.009941 0.6848-6.461e-5

mode liq bi cd pl ilm ky q H2O
0.1063 0.2705 0.04144 0.2838 0.01099 0.01171 0.2753 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.01 693.7 0.1227 0.2140 0.7765 0.0062430.0009607 0.7162
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6453 0.4548 0.4304 0.02623 0.1034 0.1957
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2969 0.7468 0.3553 0.009890 0.6848-6.460e-5

mode liq bi cd pl ilm ky q H2O
0.1063 0.2706 0.04109 0.2837 0.01099 0.01189 0.2754 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.02 693.8 0.1226 0.2139 0.7775 0.0062510.0009706 0.7162
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6456 0.4547 0.4297 0.02623 0.1033 0.1961
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2969 0.7473 0.3553 0.009840 0.6849-6.460e-5

mode liq bi cd pl ilm ky q H2O
0.1062 0.2708 0.04073 0.2837 0.01099 0.01208 0.2755 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.03 693.9 0.1224 0.2138 0.7786 0.0062590.0009807 0.7162
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6459 0.4545 0.4290 0.02624 0.1032 0.1965
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2968 0.7478 0.3554 0.009789 0.6850-6.460e-5

mode liq bi cd pl ilm ky q H2O
0.1062 0.2709 0.04038 0.2836 0.01099 0.01226 0.2756 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.04 694.0 0.1222 0.2137 0.7797 0.0062680.0009909 0.7163
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6461 0.4544 0.4283 0.02624 0.1032 0.1969
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2968 0.7483 0.3554 0.009739 0.6851-6.459e-5

mode liq bi cd pl ilm ky q H2O
0.1061 0.2711 0.04003 0.2836 0.01099 0.01245 0.2757 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.05 694.1 0.1221 0.2136 0.7808 0.006276 0.001001 0.7163
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6464 0.4543 0.4276 0.02624 0.1031 0.1973
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2968 0.7487 0.3555 0.009689 0.6852-6.459e-5

mode liq bi cd pl ilm ky q H2O
0.1060 0.2713 0.03968 0.2836 0.01099 0.01263 0.2758 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.06 694.2 0.1219 0.2135 0.7819 0.006284 0.001012 0.7163
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6466 0.4541 0.4269 0.02625 0.1030 0.1977
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2967 0.7492 0.3555 0.009639 0.6853-6.458e-5

mode liq bi cd pl ilm ky q H2O
0.1060 0.2714 0.03933 0.2835 0.01099 0.01282 0.2759 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.07 694.3 0.1217 0.2135 0.7830 0.006293 0.001022 0.7163
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6469 0.4540 0.4261 0.02625 0.1030 0.1981
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2967 0.7497 0.3556 0.009590 0.6854-6.458e-5

mode liq bi cd pl ilm ky q H2O
0.1059 0.2716 0.03898 0.2835 0.01099 0.01300 0.2761 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.08 694.4 0.1216 0.2134 0.7840 0.006301 0.001033 0.7164
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6472 0.4539 0.4254 0.02625 0.1029 0.1985
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2967 0.7501 0.3556 0.009540 0.6855-6.457e-5

mode liq bi cd pl ilm ky q H2O
0.1059 0.2717 0.03863 0.2834 0.01099 0.01319 0.2762 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.09 694.5 0.1214 0.2133 0.7851 0.006309 0.001043 0.7164
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6474 0.4537 0.4247 0.02626 0.1028 0.1989
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2966 0.7506 0.3557 0.009491 0.6856-6.457e-5

mode liq bi cd pl ilm ky q H2O
0.1058 0.2719 0.03828 0.2834 0.01099 0.01337 0.2763 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.10 694.6 0.1212 0.2132 0.7862 0.006318 0.001054 0.7164
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6477 0.4536 0.4240 0.02626 0.1027 0.1993
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2966 0.7511 0.3557 0.009442 0.6857-6.456e-5

mode liq bi cd pl ilm ky q H2O
0.1058 0.2720 0.03793 0.2833 0.01099 0.01356 0.2764 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.11 694.7 0.1211 0.2131 0.7872 0.006326 0.001065 0.7164
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6479 0.4535 0.4233 0.02626 0.1027 0.1997
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2966 0.7516 0.3558 0.009393 0.6858-6.456e-5

mode liq bi cd pl ilm ky q H2O
0.1057 0.2722 0.03758 0.2833 0.01099 0.01374 0.2765 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.12 694.8 0.1209 0.2130 0.7883 0.006334 0.001076 0.7165
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6482 0.4533 0.4226 0.02626 0.1026 0.2001
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2965 0.7520 0.3558 0.009345 0.6859-6.455e-5

mode liq bi cd pl ilm ky q H2O
0.1057 0.2723 0.03724 0.2833 0.01100 0.01393 0.2766 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.13 694.9 0.1207 0.2129 0.7894 0.006342 0.001087 0.7165
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6484 0.4532 0.4219 0.02627 0.1025 0.2006
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2965 0.7525 0.3559 0.009296 0.6860-6.455e-5

mode liq bi cd pl ilm ky q H2O
0.1056 0.2725 0.03689 0.2832 0.01100 0.01411 0.2767 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.14 695.0 0.1206 0.2129 0.7904 0.006351 0.001098 0.7165
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6487 0.4531 0.4212 0.02627 0.1025 0.2010
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2965 0.7529 0.3559 0.009248 0.6860-6.454e-5

mode liq bi cd pl ilm ky q H2O
0.1055 0.2726 0.03654 0.2832 0.01100 0.01429 0.2768 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.15 695.1 0.1204 0.2128 0.7915 0.006359 0.001110 0.7166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6489 0.4529 0.4205 0.02627 0.1024 0.2014
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2964 0.7534 0.3560 0.009200 0.6861-6.453e-5

mode liq bi cd pl ilm ky q H2O
0.1055 0.2728 0.03619 0.2831 0.01100 0.01448 0.2769 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.16 695.1 0.1203 0.2127 0.7925 0.006367 0.001121 0.7166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6492 0.4528 0.4198 0.02627 0.1023 0.2018
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2964 0.7539 0.3560 0.009152 0.6862-6.453e-5

mode liq bi cd pl ilm ky q H2O
0.1054 0.2729 0.03585 0.2831 0.01100 0.01466 0.2770 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.17 695.2 0.1201 0.2126 0.7936 0.006375 0.001133 0.7166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6494 0.4526 0.4191 0.02627 0.1023 0.2022
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2963 0.7543 0.3561 0.009104 0.6863-6.452e-5

mode liq bi cd pl ilm ky q H2O
0.1054 0.2731 0.03550 0.2830 0.01100 0.01485 0.2771 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.18 695.3 0.1199 0.2125 0.7946 0.006384 0.001144 0.7166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6497 0.4525 0.4184 0.02628 0.1022 0.2026
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2963 0.7548 0.3561 0.009057 0.6864-6.451e-5

mode liq bi cd pl ilm ky q H2O
0.1053 0.2732 0.03516 0.2830 0.01100 0.01503 0.2772 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.19 695.4 0.1198 0.2124 0.7957 0.006392 0.001156 0.7167
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6499 0.4524 0.4177 0.02628 0.1021 0.2030
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2963 0.7553 0.3562 0.009009 0.6865-6.450e-5

mode liq bi cd pl ilm ky q H2O
0.1053 0.2734 0.03481 0.2830 0.01100 0.01522 0.2773 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 695.5 0.1196 0.2124 0.7967 0.006400 0.001168 0.7167
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6502 0.4522 0.4170 0.02628 0.1020 0.2034
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2962 0.7557 0.3562 0.008962 0.6866-6.449e-5

mode liq bi cd pl ilm ky q H2O
0.1052 0.2735 0.03446 0.2829 0.01100 0.01540 0.2774 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.21 695.6 0.1194 0.2123 0.7977 0.006408 0.001180 0.7167
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6504 0.4521 0.4162 0.02628 0.1020 0.2038
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2962 0.7562 0.3563 0.008915 0.6867-6.449e-5

mode liq bi cd pl ilm ky q H2O
0.1052 0.2737 0.03412 0.2829 0.01101 0.01559 0.2776 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.22 695.7 0.1193 0.2122 0.7988 0.006416 0.001192 0.7167
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6507 0.4520 0.4155 0.02628 0.1019 0.2043
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2962 0.7567 0.3563 0.008868 0.6868-6.448e-5

mode liq bi cd pl ilm ky q H2O
0.1051 0.2738 0.03378 0.2828 0.01101 0.01577 0.2777 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.23 695.8 0.1191 0.2121 0.7998 0.006425 0.001204 0.7168
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6509 0.4518 0.4148 0.02628 0.1018 0.2047
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2961 0.7571 0.3564 0.008822 0.6869-6.447e-5

mode liq bi cd pl ilm ky q H2O
0.1051 0.2740 0.03343 0.2828 0.01101 0.01595 0.2778 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.24 695.8 0.1190 0.2120 0.8008 0.006433 0.001217 0.7168
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6512 0.4517 0.4141 0.02628 0.1018 0.2051
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2961 0.7576 0.3564 0.008775 0.6870-6.446e-5

mode liq bi cd pl ilm ky q H2O
0.1050 0.2741 0.03309 0.2827 0.01101 0.01614 0.2779 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.25 695.9 0.1188 0.2119 0.8018 0.006441 0.001229 0.7168
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6514 0.4516 0.4134 0.02629 0.1017 0.2055
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2960 0.7580 0.3565 0.008729 0.6871-6.445e-5

mode liq bi cd pl ilm ky q H2O
0.1050 0.2743 0.03274 0.2827 0.01101 0.01632 0.2780 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.26 696.0 0.1186 0.2119 0.8029 0.006449 0.001242 0.7168
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6517 0.4514 0.4127 0.02629 0.1016 0.2059
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2960 0.7585 0.3565 0.008683 0.6872-6.444e-5

mode liq bi cd pl ilm ky q H2O
0.1049 0.2744 0.03240 0.2827 0.01101 0.01651 0.2781 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.27 696.1 0.1185 0.2118 0.8039 0.006457 0.001255 0.7169
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6519 0.4513 0.4120 0.02629 0.1015 0.2063
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2960 0.7589 0.3566 0.008637 0.6873-6.443e-5

mode liq bi cd pl ilm ky q H2O
0.1049 0.2746 0.03206 0.2826 0.01101 0.01669 0.2782 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.28 696.2 0.1183 0.2117 0.8049 0.006465 0.001268 0.7169
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6522 0.4512 0.4113 0.02629 0.1015 0.2067
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2959 0.7594 0.3566 0.008591 0.6874-6.442e-5

mode liq bi cd pl ilm ky q H2O
0.1048 0.2747 0.03172 0.2826 0.01102 0.01688 0.2783 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.29 696.3 0.1181 0.2116 0.8059 0.006474 0.001281 0.7169
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6524 0.4510 0.4105 0.02629 0.1014 0.2072
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2959 0.7599 0.3567 0.008546 0.6875-6.441e-5

mode liq bi cd pl ilm ky q H2O
0.1048 0.2748 0.03137 0.2825 0.01102 0.01706 0.2784 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 696.3 0.1180 0.2115 0.8069 0.006482 0.001294 0.7169
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6527 0.4509 0.4098 0.02629 0.1013 0.2076
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2959 0.7603 0.3567 0.008500 0.6876-6.440e-5

mode liq bi cd pl ilm ky q H2O
0.1048 0.2750 0.03103 0.2825 0.01102 0.01724 0.2785 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.31 696.4 0.1178 0.2115 0.8079 0.006490 0.001307 0.7170
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6529 0.4508 0.4091 0.02629 0.1013 0.2080
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2958 0.7608 0.3567 0.008455 0.6877-6.439e-5

mode liq bi cd pl ilm ky q H2O
0.1047 0.2751 0.03069 0.2825 0.01102 0.01743 0.2786 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.32 696.5 0.1177 0.2114 0.8089 0.006498 0.001320 0.7170
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6531 0.4506 0.4084 0.02629 0.1012 0.2084
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2958 0.7612 0.3568 0.008410 0.6878-6.438e-5

mode liq bi cd pl ilm ky q H2O
0.1047 0.2753 0.03035 0.2824 0.01102 0.01761 0.2787 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.33 696.6 0.1175 0.2113 0.8099 0.006506 0.001334 0.7170
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6534 0.4505 0.4077 0.02629 0.1011 0.2088
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2957 0.7617 0.3568 0.008365 0.6879-6.437e-5

mode liq bi cd pl ilm ky q H2O
0.1046 0.2754 0.03001 0.2824 0.01102 0.01780 0.2788 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.34 696.7 0.1173 0.2112 0.8109 0.006514 0.001347 0.7170
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6536 0.4504 0.4070 0.02629 0.1010 0.2093
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2957 0.7621 0.3569 0.008321 0.6881-6.436e-5

mode liq bi cd pl ilm ky q H2O
0.1046 0.2756 0.02967 0.2823 0.01103 0.01798 0.2789 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.35 696.8 0.1172 0.2111 0.8119 0.006522 0.001361 0.7171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6539 0.4503 0.4062 0.02629 0.1010 0.2097
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2957 0.7626 0.3569 0.008276 0.6882-6.435e-5

mode liq bi cd pl ilm ky q H2O
0.1045 0.2757 0.02933 0.2823 0.01103 0.01817 0.2790 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.36 696.8 0.1170 0.2111 0.8129 0.006530 0.001375 0.7171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6541 0.4501 0.4055 0.02629 0.1009 0.2101
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2956 0.7630 0.3570 0.008232 0.6883-6.434e-5

mode liq bi cd pl ilm ky q H2O
0.1045 0.2758 0.02899 0.2822 0.01103 0.01835 0.2791 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.37 696.9 0.1169 0.2110 0.8139 0.006538 0.001389 0.7171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6543 0.4500 0.4048 0.02628 0.1008 0.2105
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2956 0.7635 0.3570 0.008188 0.6884-6.433e-5

mode liq bi cd pl ilm ky q H2O
0.1044 0.2760 0.02865 0.2822 0.01103 0.01853 0.2792 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.38 697.0 0.1167 0.2109 0.8149 0.006546 0.001403 0.7171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6546 0.4499 0.4041 0.02628 0.1007 0.2109
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2955 0.7639 0.3571 0.008144 0.6885-6.431e-5

mode liq bi cd pl ilm ky q H2O
0.1044 0.2761 0.02831 0.2822 0.01103 0.01872 0.2793 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.39 697.1 0.1165 0.2108 0.8158 0.006554 0.001418 0.7171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6548 0.4497 0.4034 0.02628 0.1007 0.2114
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2955 0.7644 0.3571 0.008100 0.6886-6.430e-5

mode liq bi cd pl ilm ky q H2O
0.1044 0.2763 0.02797 0.2821 0.01103 0.01890 0.2794 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 697.2 0.1164 0.2107 0.8168 0.006562 0.001432 0.7172
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6551 0.4496 0.4026 0.02628 0.1006 0.2118
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2955 0.7648 0.3572 0.008057 0.6887-6.429e-5

mode liq bi cd pl ilm ky q H2O
0.1043 0.2764 0.02763 0.2821 0.01104 0.01909 0.2795 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.41 697.2 0.1162 0.2107 0.8178 0.006571 0.001447 0.7172
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6553 0.4495 0.4019 0.02628 0.1005 0.2122
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2954 0.7653 0.3572 0.008013 0.6888-6.428e-5

mode liq bi cd pl ilm ky q H2O
0.1043 0.2765 0.02729 0.2820 0.01104 0.01927 0.2796 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.42 697.3 0.1161 0.2106 0.8187 0.006579 0.001461 0.7172
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6555 0.4493 0.4012 0.02628 0.1004 0.2126
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2954 0.7657 0.3573 0.007970 0.6889-6.426e-5

mode liq bi cd pl ilm ky q H2O
0.1042 0.2767 0.02695 0.2820 0.01104 0.01946 0.2796 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.43 697.4 0.1159 0.2105 0.8197 0.006587 0.001476 0.7172
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6558 0.4492 0.4005 0.02628 0.1004 0.2131
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2953 0.7662 0.3573 0.007927 0.6890-6.425e-5

mode liq bi cd pl ilm ky q H2O
0.1042 0.2768 0.02662 0.2820 0.01104 0.01964 0.2797 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.44 697.5 0.1158 0.2104 0.8207 0.006595 0.001491 0.7172
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6560 0.4491 0.3998 0.02628 0.1003 0.2135
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2953 0.7666 0.3573 0.007884 0.6891-6.424e-5

mode liq bi cd pl ilm ky q H2O
0.1041 0.2769 0.02628 0.2819 0.01105 0.01982 0.2798 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 697.5 0.1156 0.2104 0.8216 0.006603 0.001507 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6562 0.4489 0.3990 0.02627 0.1002 0.2139
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2953 0.7671 0.3574 0.007841 0.6892-6.422e-5

mode liq bi cd pl ilm ky q H2O
0.1041 0.2771 0.02594 0.2819 0.01105 0.02001 0.2799 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.46 697.6 0.1154 0.2103 0.8226 0.006611 0.001522 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6565 0.4488 0.3983 0.02627 0.1001 0.2143
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2952 0.7675 0.3574 0.007799 0.6893-6.421e-5

mode liq bi cd pl ilm ky q H2O
0.1041 0.2772 0.02560 0.2818 0.01105 0.02019 0.2800 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.47 697.7 0.1153 0.2102 0.8235 0.006619 0.001537 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6567 0.4487 0.3976 0.02627 0.1001 0.2148
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2952 0.7680 0.3575 0.007756 0.6894-6.420e-5

mode liq bi cd pl ilm ky q H2O
0.1040 0.2774 0.02527 0.2818 0.01105 0.02038 0.2801 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.48 697.8 0.1151 0.2101 0.8245 0.006627 0.001553 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6569 0.4485 0.3969 0.02627 0.09999 0.2152
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2951 0.7684 0.3575 0.007714 0.6896-6.418e-5

mode liq bi cd pl ilm ky q H2O
0.1040 0.2775 0.02493 0.2818 0.01105 0.02056 0.2802 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.49 697.8 0.1150 0.2101 0.8254 0.006635 0.001569 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6572 0.4484 0.3961 0.02627 0.09992 0.2156
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2951 0.7689 0.3576 0.007672 0.6897-6.417e-5

mode liq bi cd pl ilm ky q H2O
0.1039 0.2776 0.02460 0.2817 0.01106 0.02075 0.2803 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 697.9 0.1148 0.2100 0.8264 0.006642 0.001585 0.7174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6574 0.4483 0.3954 0.02626 0.09984 0.2161
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2950 0.7693 0.3576 0.007630 0.6898-6.415e-5

mode liq bi cd pl ilm ky q H2O
0.1039 0.2778 0.02426 0.2817 0.01106 0.02093 0.2804 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.51 698.0 0.1146 0.2099 0.8273 0.006650 0.001601 0.7174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6576 0.4481 0.3947 0.02626 0.09977 0.2165
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2950 0.7697 0.3577 0.007589 0.6899-6.414e-5

mode liq bi cd pl ilm ky q H2O
0.1039 0.2779 0.02392 0.2816 0.01106 0.02111 0.2805 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.52 698.0 0.1145 0.2098 0.8283 0.006658 0.001617 0.7174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6579 0.4480 0.3940 0.02626 0.09969 0.2169
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2950 0.7702 0.3577 0.007547 0.6900-6.412e-5

mode liq bi cd pl ilm ky q H2O
0.1038 0.2780 0.02359 0.2816 0.01106 0.02130 0.2806 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.53 698.1 0.1143 0.2098 0.8292 0.006666 0.001633 0.7174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6581 0.4479 0.3932 0.02625 0.09961 0.2173
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2949 0.7706 0.3577 0.007506 0.6901-6.411e-5

mode liq bi cd pl ilm ky q H2O
0.1038 0.2782 0.02325 0.2816 0.01107 0.02148 0.2807 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.54 698.2 0.1142 0.2097 0.8301 0.006674 0.001650 0.7174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6583 0.4478 0.3925 0.02625 0.09954 0.2178
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2949 0.7711 0.3578 0.007464 0.6902-6.409e-5

mode liq bi cd pl ilm ky q H2O
0.1038 0.2783 0.02292 0.2815 0.01107 0.02167 0.2808 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.55 698.3 0.1140 0.2096 0.8310 0.006682 0.001666 0.7175
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6585 0.4476 0.3918 0.02625 0.09946 0.2182
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2948 0.7715 0.3578 0.007423 0.6903-6.408e-5

mode liq bi cd pl ilm ky q H2O
0.1037 0.2784 0.02258 0.2815 0.01107 0.02185 0.2809 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.56 698.3 0.1139 0.2095 0.8320 0.006690 0.001683 0.7175
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6588 0.4475 0.3910 0.02625 0.09938 0.2186
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2948 0.7719 0.3579 0.007383 0.6904-6.406e-5

mode liq bi cd pl ilm ky q H2O
0.1037 0.2786 0.02225 0.2814 0.01107 0.02204 0.2810 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.57 698.4 0.1137 0.2095 0.8329 0.006698 0.001700 0.7175
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6590 0.4474 0.3903 0.02624 0.09931 0.2191
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2947 0.7724 0.3579 0.007342 0.6906-6.405e-5

mode liq bi cd pl ilm ky q H2O
0.1036 0.2787 0.02192 0.2814 0.01108 0.02222 0.2810 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.58 698.5 0.1136 0.2094 0.8338 0.006706 0.001718 0.7175
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6592 0.4472 0.3896 0.02624 0.09923 0.2195
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2947 0.7728 0.3580 0.007301 0.6907-6.403e-5

mode liq bi cd pl ilm ky q H2O
0.1036 0.2788 0.02158 0.2814 0.01108 0.02241 0.2811 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.59 698.5 0.1134 0.2093 0.8347 0.006714 0.001735 0.7175
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6595 0.4471 0.3889 0.02623 0.09915 0.2199
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2947 0.7733 0.3580 0.007261 0.6908-6.401e-5

mode liq bi cd pl ilm ky q H2O
0.1036 0.2789 0.02125 0.2813 0.01108 0.02259 0.2812 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 698.6 0.1132 0.2093 0.8356 0.006722 0.001752 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6597 0.4470 0.3881 0.02623 0.09908 0.2204
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2946 0.7737 0.3581 0.007221 0.6909-6.400e-5

mode liq bi cd pl ilm ky q H2O
0.1035 0.2791 0.02092 0.2813 0.01108 0.02277 0.2813 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.61 698.7 0.1131 0.2092 0.8365 0.006729 0.001770 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6599 0.4468 0.3874 0.02623 0.09900 0.2208
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2946 0.7741 0.3581 0.007181 0.6910-6.398e-5

mode liq bi cd pl ilm ky q H2O
0.1035 0.2792 0.02058 0.2813 0.01109 0.02296 0.2814 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.62 698.7 0.1129 0.2091 0.8374 0.006737 0.001788 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6601 0.4467 0.3867 0.02622 0.09892 0.2212
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2945 0.7746 0.3581 0.007141 0.6911-6.396e-5

mode liq bi cd pl ilm ky q H2O
0.1035 0.2793 0.02025 0.2812 0.01109 0.02314 0.2815 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.63 698.8 0.1128 0.2090 0.8383 0.006745 0.001806 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6604 0.4466 0.3859 0.02622 0.09884 0.2217
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2945 0.7750 0.3582 0.007101 0.6912-6.395e-5

mode liq bi cd pl ilm ky q H2O
0.1034 0.2795 0.01992 0.2812 0.01109 0.02333 0.2816 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.64 698.9 0.1126 0.2090 0.8392 0.006753 0.001824 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6606 0.4464 0.3852 0.02621 0.09877 0.2221
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2944 0.7754 0.3582 0.007062 0.6914-6.393e-5

mode liq bi cd pl ilm ky q H2O
0.1034 0.2796 0.01958 0.2811 0.01110 0.02351 0.2817 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.65 698.9 0.1125 0.2089 0.8401 0.006761 0.001843 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6608 0.4463 0.3845 0.02621 0.09869 0.2226
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2944 0.7759 0.3583 0.007022 0.6915-6.391e-5

mode liq bi cd pl ilm ky q H2O
0.1034 0.2797 0.01925 0.2811 0.01110 0.02370 0.2818 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.66 699.0 0.1123 0.2088 0.8410 0.006769 0.001861 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6610 0.4462 0.3837 0.02621 0.09861 0.2230
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2943 0.7763 0.3583 0.006983 0.6916-6.389e-5

mode liq bi cd pl ilm ky q H2O
0.1033 0.2799 0.01892 0.2811 0.01110 0.02388 0.2818 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.67 699.1 0.1122 0.2088 0.8419 0.006776 0.001880 0.7177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6613 0.4461 0.3830 0.02620 0.09853 0.2234
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2943 0.7767 0.3584 0.006944 0.6917-6.388e-5

mode liq bi cd pl ilm ky q H2O
0.1033 0.2800 0.01859 0.2810 0.01111 0.02407 0.2819 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.68 699.1 0.1120 0.2087 0.8428 0.006784 0.001899 0.7177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6615 0.4459 0.3823 0.02620 0.09846 0.2239
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2943 0.7772 0.3584 0.006905 0.6918-6.386e-5

mode liq bi cd pl ilm ky q H2O
0.1033 0.2801 0.01826 0.2810 0.01111 0.02425 0.2820 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.69 699.2 0.1118 0.2086 0.8437 0.006792 0.001918 0.7177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6617 0.4458 0.3815 0.02619 0.09838 0.2243
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2942 0.7776 0.3584 0.006867 0.6919-6.384e-5

mode liq bi cd pl ilm ky q H2O
0.1032 0.2802 0.01793 0.2809 0.01111 0.02443 0.2821 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 699.3 0.1117 0.2085 0.8445 0.006800 0.001937 0.7177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6619 0.4457 0.3808 0.02619 0.09830 0.2248
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2942 0.7780 0.3585 0.006828 0.6921-6.382e-5

mode liq bi cd pl ilm ky q H2O
0.1032 0.2804 0.01759 0.2809 0.01111 0.02462 0.2822 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.71 699.3 0.1115 0.2085 0.8454 0.006807 0.001957 0.7177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6621 0.4455 0.3801 0.02618 0.09822 0.2252
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2941 0.7785 0.3585 0.006790 0.6922-6.380e-5

mode liq bi cd pl ilm ky q H2O
0.1032 0.2805 0.01726 0.2809 0.01112 0.02480 0.2823 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.72 699.4 0.1114 0.2084 0.8463 0.006815 0.001976 0.7177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6624 0.4454 0.3793 0.02617 0.09814 0.2256
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2941 0.7789 0.3586 0.006751 0.6923-6.378e-5

mode liq bi cd pl ilm ky q H2O
0.1031 0.2806 0.01693 0.2808 0.01112 0.02499 0.2824 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.73 699.4 0.1112 0.2083 0.8472 0.006823 0.001996 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6626 0.4453 0.3786 0.02617 0.09806 0.2261
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2940 0.7793 0.3586 0.006713 0.6924-6.377e-5

mode liq bi cd pl ilm ky q H2O
0.1031 0.2807 0.01660 0.2808 0.01112 0.02517 0.2825 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.74 699.5 0.1111 0.2083 0.8480 0.006831 0.002016 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6628 0.4451 0.3779 0.02616 0.09798 0.2265
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2940 0.7798 0.3587 0.006675 0.6925-6.375e-5

mode liq bi cd pl ilm ky q H2O
0.1031 0.2809 0.01627 0.2808 0.01113 0.02536 0.2825 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.75 699.6 0.1109 0.2082 0.8489 0.006838 0.002036 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6630 0.4450 0.3771 0.02616 0.09790 0.2270
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2939 0.7802 0.3587 0.006638 0.6927-6.373e-5

mode liq bi cd pl ilm ky q H2O
0.1031 0.2810 0.01594 0.2807 0.01113 0.02554 0.2826 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.76 699.6 0.1108 0.2081 0.8497 0.006846 0.002057 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6632 0.4449 0.3764 0.02615 0.09782 0.2274
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2939 0.7806 0.3587 0.006600 0.6928-6.371e-5

mode liq bi cd pl ilm ky q H2O
0.1030 0.2811 0.01561 0.2807 0.01113 0.02573 0.2827 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.77 699.7 0.1106 0.2080 0.8506 0.006854 0.002077 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6635 0.4448 0.3756 0.02615 0.09775 0.2279
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2938 0.7810 0.3588 0.006563 0.6929-6.369e-5

mode liq bi cd pl ilm ky q H2O
0.1030 0.2812 0.01528 0.2806 0.01114 0.02591 0.2828 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.78 699.7 0.1105 0.2080 0.8514 0.006861 0.002098 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6637 0.4446 0.3749 0.02614 0.09767 0.2283
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2938 0.7815 0.3588 0.006525 0.6930-6.367e-5

mode liq bi cd pl ilm ky q H2O
0.1030 0.2814 0.01495 0.2806 0.01114 0.02610 0.2829 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.79 699.8 0.1103 0.2079 0.8523 0.006869 0.002119 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6639 0.4445 0.3742 0.02613 0.09759 0.2287
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2937 0.7819 0.3589 0.006488 0.6931-6.365e-5

mode liq bi cd pl ilm ky q H2O
0.1029 0.2815 0.01462 0.2806 0.01114 0.02628 0.2830 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 699.9 0.1102 0.2078 0.8531 0.006877 0.002140 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6641 0.4444 0.3734 0.02613 0.09751 0.2292
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2937 0.7823 0.3589 0.006451 0.6933-6.363e-5

mode liq bi cd pl ilm ky q H2O
0.1029 0.2816 0.01430 0.2805 0.01115 0.02646 0.2830 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.81 699.9 0.1100 0.2078 0.8540 0.006884 0.002162 0.7179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6643 0.4442 0.3727 0.02612 0.09743 0.2296
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2936 0.7827 0.3589 0.006414 0.6934-6.361e-5

mode liq bi cd pl ilm ky q H2O
0.1029 0.2817 0.01397 0.2805 0.01115 0.02665 0.2831 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.82 700.0 0.1099 0.2077 0.8548 0.006892 0.002183 0.7179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6645 0.4441 0.3720 0.02611 0.09735 0.2301
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)

0.2936 0.7832 0.3590 0.006378 0.6935-6.359e-5

mode liq bi cd pl ilm ky q H2O
0.1029 0.2818 0.01364 0.2805 0.01115 0.02683 0.2832 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.00 571.7 0.4597 0.2480 0.09971 0.06043 0.3168 0.4081
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3679 0.8415 0.06879 0.007730 0.4002 0.9998
na(mu) ca(pl) k(pl)
0.9680 0.4239 0.001286

mode bi ep g mu pl ru q H2O
0.29770 0.007909 0 0.1194 0.2390 0.004658 0.3258 0.01266

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.04 572.3 0.4597 0.2484 0.09859 0.06062 0.3168 0.4065
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3669 0.8414 0.06954 0.007737 0.4003 0.9998
na(mu) ca(pl) k(pl)
0.9677 0.4232 0.001302

mode bi ep g mu pl ru q H2O
0.2976 0.001219 0 0.1198 0.2383 0.004651 0.3258 0.01259

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.08 572.9 0.4597 0.2487 0.09747 0.06081 0.3168 0.4048

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3658 0.8413 0.07031 0.007743 0.4003 0.9998
na(mu) ca(pl) k(pl)
0.9674 0.4225 0.001319

mode bi ep g mu pl ru q H2O
0.2975 0.001649 0 0.1202 0.2377 0.004644 0.3258 0.01252

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.12 573.5 0.4597 0.2491 0.09636 0.06101 0.3169 0.4032
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3648 0.8412 0.07109 0.007750 0.4004 0.9998
na(mu) ca(pl) k(pl)
0.9671 0.4218 0.001336

mode bi ep g mu pl ru q H2O
0.2975 0.002080 0 0.1205 0.2370 0.004637 0.3258 0.01245

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.16 574.1 0.4597 0.2494 0.09525 0.06120 0.3169 0.4015
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3637 0.8411 0.07187 0.007757 0.4004 0.9998
na(mu) ca(pl) k(pl)
0.9668 0.4210 0.001353

mode bi ep g mu pl ru q H2O
0.2974 0.002513 0 0.1209 0.2364 0.004631 0.3259 0.01237

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.20 574.6 0.4597 0.2497 0.09414 0.06139 0.3170 0.3999
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3627 0.8410 0.07267 0.007764 0.4005 0.9997
na(mu) ca(pl) k(pl)
0.9665 0.4203 0.001371

mode bi ep g mu pl ru q H2O
0.2973 0.002947 0 0.1213 0.2357 0.004624 0.3259 0.01230

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.24 575.2 0.4597 0.2500 0.09304 0.06158 0.3170 0.3982
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3616 0.8410 0.07348 0.007772 0.4005 0.9997
na(mu) ca(pl) k(pl)
0.9662 0.4196 0.001388

mode bi ep g mu pl ru q H2O
0.2972 0.003383 0 0.1216 0.2351 0.004617 0.3259 0.01222

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.28 575.8 0.4597 0.2503 0.09195 0.06177 0.3171 0.3965

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3605 0.8409 0.07431 0.007780 0.4006 0.9997
na(mu) ca(pl) k(pl)
0.9659 0.4189 0.001406

mode bi ep g mu pl ru q H2O
0.2971 0.003820 0 0.1220 0.2344 0.004610 0.3259 0.01215

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.32 576.4 0.4597 0.2506 0.09086 0.06196 0.3172 0.3948
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3593 0.8408 0.07514 0.007788 0.4007 0.9997
na(mu) ca(pl) k(pl)
0.9656 0.4181 0.001424

mode bi ep g mu pl ru q H2O
0.2970 0.004259 0 0.1224 0.2337 0.004603 0.3259 0.01208

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.36 576.9 0.4597 0.2509 0.08977 0.06215 0.3172 0.3931
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3582 0.8408 0.07599 0.007797 0.4007 0.9997
na(mu) ca(pl) k(pl)
0.9653 0.4174 0.001442

mode bi ep g mu pl ru q H2O
0.2969 0.004700 0 0.1228 0.2331 0.004596 0.3260 0.01200

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.40 577.5 0.4597 0.2512 0.08869 0.06234 0.3173 0.3913
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3570 0.8407 0.07685 0.007806 0.4008 0.9997
na(mu) ca(pl) k(pl)
0.9650 0.4166 0.001460

mode bi ep g mu pl ru q H2O
0.2968 0.005142 0 0.1231 0.2324 0.004590 0.3260 0.01192

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.44 578.1 0.4597 0.2514 0.08761 0.06253 0.3174 0.3896
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3558 0.8407 0.07772 0.007815 0.4009 0.9997
na(mu) ca(pl) k(pl)
0.9647 0.4158 0.001479

mode bi ep g mu pl ru q H2O
0.2967 0.005586 0 0.1235 0.2317 0.004583 0.3260 0.01185

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.48 578.6 0.4597 0.2517 0.08654 0.06272 0.3175 0.3878

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3546 0.8406 0.07860 0.007825 0.4009 0.9997
na(mu) ca(pl) k(pl)
0.9644 0.4151 0.001497

mode bi ep g mu pl ru q H2O
0.2966 0.006031 0 0.1239 0.2310 0.004576 0.3260 0.01177

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.52 579.2 0.4597 0.2519 0.08548 0.06291 0.3176 0.3861
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3534 0.8406 0.07950 0.007835 0.4010 0.9997
na(mu) ca(pl) k(pl)
0.9640 0.4143 0.001516

mode bi ep g mu pl ru q H2O
0.2966 0.006479 0 0.1243 0.2303 0.004570 0.3261 0.01169

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.56 579.7 0.4597 0.2521 0.08442 0.06310 0.3177 0.3843
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3522 0.8406 0.08041 0.007846 0.4011 0.9997
na(mu) ca(pl) k(pl)
0.9637 0.4135 0.001535

mode bi ep g mu pl ru q H2O
0.2965 0.006928 0 0.1247 0.2297 0.004563 0.3261 0.01162

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.60 580.3 0.4597 0.2523 0.08336 0.06328 0.3178 0.3825
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3509 0.8405 0.08133 0.007856 0.4011 0.9997
na(mu) ca(pl) k(pl)
0.9634 0.4127 0.001554

mode bi ep g mu pl ru q H2O
0.2964 0.007379 0 0.1251 0.2290 0.004556 0.3261 0.01154

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.64 580.8 0.4597 0.2525 0.08231 0.06347 0.3179 0.3807
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3496 0.8405 0.08227 0.007868 0.4012 0.9997
na(mu) ca(pl) k(pl)
0.9631 0.4119 0.001574

mode bi ep g mu pl ru q H2O
0.2963 0.007832 0 0.1255 0.2283 0.004550 0.3261 0.01146

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.68 581.4 0.4597 0.2527 0.08126 0.06366 0.3180 0.3788

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3483 0.8405 0.08322 0.007879 0.4013 0.9997
na(mu) ca(pl) k(pl)
0.9628 0.4111 0.001594

mode bi ep g mu pl ru q H2O
0.2962 0.008287 0 0.1259 0.2276 0.004543 0.3261 0.01138

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.72 581.9 0.4597 0.2529 0.08022 0.06384 0.3182 0.3770
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3470 0.8405 0.08418 0.007891 0.4014 0.9997
na(mu) ca(pl) k(pl)
0.9624 0.4103 0.001613

mode bi ep g mu pl ru q H2O
0.2961 0.008744 0 0.1263 0.2269 0.004537 0.3262 0.01130

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.76 582.5 0.4597 0.2530 0.07919 0.06403 0.3183 0.3751
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3457 0.8405 0.08516 0.007904 0.4014 0.9997
na(mu) ca(pl) k(pl)
0.9621 0.4094 0.001634

mode bi ep g mu pl ru q H2O
0.2960 0.009203 0 0.1267 0.2262 0.004530 0.3262 0.01122

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.80 583.0 0.4597 0.2532 0.07816 0.06421 0.3184 0.3733
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3443 0.8405 0.08616 0.007917 0.4015 0.9997
na(mu) ca(pl) k(pl)
0.9618 0.4086 0.001654

mode bi ep g mu pl ru q H2O
0.2959 0.009665 0 0.1271 0.2255 0.004524 0.3262 0.01114

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.84 583.5 0.4597 0.2533 0.07714 0.06440 0.3186 0.3714
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3430 0.8405 0.08716 0.007930 0.4016 0.9997
na(mu) ca(pl) k(pl)
0.9614 0.4077 0.001675

mode bi ep g mu pl ru q H2O
0.2958 0.01013 0 0.1275 0.2247 0.004517 0.3262 0.01106

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.88 584.1 0.4597 0.2534 0.07612 0.06458 0.3187 0.3695

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3416 0.8405 0.08819 0.007944 0.4017 0.9997
na(mu) ca(pl) k(pl)
0.9611 0.4069 0.001695

mode bi ep g mu pl ru q H2O
0.2957 0.01059 0 0.1279 0.2240 0.004511 0.3263 0.01097

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.92 584.6 0.4597 0.2535 0.07511 0.06476 0.3189 0.3676
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3402 0.8405 0.08922 0.007958 0.4017 0.9997
na(mu) ca(pl) k(pl)
0.9608 0.4060 0.001716

mode bi ep g mu pl ru q H2O
0.2956 0.01106 0 0.1283 0.2233 0.004505 0.3263 0.01089

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.96 585.1 0.4597 0.2536 0.07411 0.06495 0.3190 0.3657
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3387 0.8405 0.09028 0.007973 0.4018 0.9997
na(mu) ca(pl) k(pl)
0.9604 0.4051 0.001738

mode bi ep g mu pl ru q H2O
0.2955 0.01153 0 0.1287 0.2226 0.004498 0.3263 0.01081

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.00 585.7 0.4597 0.2537 0.07311 0.06513 0.3192 0.3637
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3373 0.8405 0.09134 0.007988 0.4019 0.9997
na(mu) ca(pl) k(pl)
0.9601 0.4042 0.001759

mode bi ep g mu pl ru q H2O
0.2955 0.01200 0 0.1292 0.2218 0.004492 0.3263 0.01073

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.04 586.2 0.4597 0.2537 0.07211 0.06531 0.3194 0.3618
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3358 0.8405 0.09243 0.008003 0.4020 0.9996
na(mu) ca(pl) k(pl)
0.9598 0.4033 0.001781

mode bi ep g mu pl ru q H2O
0.2954 0.01248 0 0.1296 0.2211 0.004486 0.3263 0.01064

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.08 586.7 0.4597 0.2538 0.07113 0.06549 0.3196 0.3598

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3343 0.8405 0.09353 0.008019 0.4021 0.9996
na(mu) ca(pl) k(pl)
0.9594 0.4024 0.001803

mode bi ep g mu pl ru q H2O
0.2953 0.01296 0 0.1300 0.2204 0.004480 0.3264 0.01056

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.12 587.2 0.4597 0.2538 0.07015 0.06567 0.3197 0.3578
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3328 0.8406 0.09464 0.008036 0.4022 0.9996
na(mu) ca(pl) k(pl)
0.9591 0.4015 0.001825

mode bi ep g mu pl ru q H2O
0.2952 0.01344 0 0.1304 0.2196 0.004473 0.3264 0.01047

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.16 587.7 0.4597 0.2539 0.06917 0.06585 0.3199 0.3558
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3313 0.8406 0.09577 0.008053 0.4023 0.9996
na(mu) ca(pl) k(pl)
0.9587 0.4005 0.001848

mode bi ep g mu pl ru q H2O
0.2951 0.01392 0 0.1309 0.2189 0.004467 0.3264 0.01038

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.20 588.2 0.4597 0.2539 0.06821 0.06603 0.3201 0.3538
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3297 0.8407 0.09692 0.008070 0.4023 0.9996
na(mu) ca(pl) k(pl)
0.9584 0.3996 0.001870

mode bi ep g mu pl ru q H2O
0.2950 0.01440 0 0.1313 0.2181 0.004461 0.3264 0.01030

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.24 588.7 0.4597 0.2539 0.06725 0.06621 0.3203 0.3518
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3282 0.8407 0.09808 0.008088 0.4024 0.9996
na(mu) ca(pl) k(pl)
0.9580 0.3986 0.001893

mode bi ep g mu pl ru q H2O
0.2949 0.01489 0 0.1317 0.2174 0.004455 0.3265 0.01021

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.28 589.2 0.4597 0.2539 0.06629 0.06639 0.3206 0.3498

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3266 0.8408 0.09926 0.008107 0.4025 0.9996
na(mu) ca(pl) k(pl)
0.9577 0.3976 0.001917

mode bi ep g mu pl ru q H2O
0.2948 0.01538 0 0.1322 0.2166 0.004449 0.3265 0.01012

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.32 589.7 0.4597 0.2538 0.06534 0.06656 0.3208 0.3477
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3250 0.8408 0.1005 0.008126 0.4026 0.9996
na(mu) ca(pl) k(pl)
0.9573 0.3966 0.001940

mode bi ep g mu pl ru q H2O
0.2947 0.01587 0 0.1326 0.2158 0.004443 0.3265 0.01003

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.36 590.2 0.4597 0.2538 0.06440 0.06674 0.3210 0.3457
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3234 0.8409 0.1017 0.008145 0.4027 0.9996
na(mu) ca(pl) k(pl)
0.9570 0.3956 0.001964

mode bi ep g mu pl ru q H2O
0.2946 0.01637 0 0.1331 0.2150 0.004437 0.3265 0.009943

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.40 590.7 0.4597 0.2537 0.06347 0.06692 0.3212 0.3436
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3217 0.8410 0.1029 0.008165 0.4028 0.9996
na(mu) ca(pl) k(pl)
0.9566 0.3946 0.001988

mode bi ep g mu pl ru q H2O
0.2945 0.01687 0 0.1335 0.2143 0.004431 0.3266 0.009853

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.44 591.2 0.4597 0.2536 0.06255 0.06709 0.3215 0.3415
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3201 0.8410 0.1041 0.008186 0.4029 0.9996
na(mu) ca(pl) k(pl)
0.9563 0.3935 0.002013

mode bi ep g mu pl ru q H2O
0.2944 0.01737 0 0.1340 0.2135 0.004425 0.3266 0.009762

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.48 591.7 0.4597 0.2535 0.06163 0.06727 0.3217 0.3394

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3184 0.8411 0.1054 0.008207 0.4030 0.9996
na(mu) ca(pl) k(pl)
0.9559 0.3925 0.002037

mode bi ep g mu pl ru q H2O
0.2943 0.01788 0 0.1344 0.2127 0.004419 0.3266 0.009671

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.52 592.2 0.4597 0.2534 0.06072 0.06744 0.3220 0.3373
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3167 0.8412 0.1067 0.008228 0.4031 0.9996
na(mu) ca(pl) k(pl)
0.9555 0.3914 0.002062

mode bi ep g mu pl ru q H2O
0.2942 0.01838 0 0.1349 0.2119 0.004413 0.3266 0.009578

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.56 592.7 0.4597 0.2533 0.05981 0.06761 0.3222 0.3352
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3150 0.8413 0.1080 0.008251 0.4032 0.9996
na(mu) ca(pl) k(pl)
0.9552 0.3903 0.002088

mode bi ep g mu pl ru q H2O
0.2941 0.01889 0 0.1354 0.2111 0.004408 0.3267 0.009485

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.60 593.2 0.4597 0.2532 0.05892 0.06779 0.3225 0.3330
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3133 0.8414 0.1093 0.008273 0.4033 0.9996
na(mu) ca(pl) k(pl)
0.9548 0.3892 0.002113

mode bi ep g mu pl ru q H2O
0.2940 0.01941 0 0.1358 0.2103 0.004402 0.3267 0.009392

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.64 593.6 0.4597 0.2530 0.05803 0.06796 0.3228 0.3309
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3115 0.8415 0.1106 0.008297 0.4034 0.9995
na(mu) ca(pl) k(pl)
0.9544 0.3881 0.002139

mode bi ep g mu pl ru q H2O
0.2939 0.01992 0 0.1363 0.2095 0.004396 0.3267 0.009297

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.68 594.1 0.4597 0.2529 0.05715 0.06813 0.3231 0.3287

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3097 0.8416 0.1120 0.008320 0.4036 0.9995
na(mu) ca(pl) k(pl)
0.9541 0.3870 0.002166

mode bi ep g mu pl ru q H2O
0.2938 0.02045 0 0.1368 0.2086 0.004390 0.3267 0.009202

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.72 594.6 0.4597 0.2527 0.05628 0.06830 0.3233 0.3266
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3080 0.8417 0.1134 0.008345 0.4037 0.9995
na(mu) ca(pl) k(pl)
0.9537 0.3858 0.002192

mode bi ep g mu pl ru q H2O
0.2937 0.02097 0 0.1373 0.2078 0.004385 0.3268 0.009106

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.76 595.0 0.4597 0.2525 0.05541 0.06847 0.3236 0.3244
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3062 0.8418 0.1147 0.008370 0.4038 0.9995
na(mu) ca(pl) k(pl)
0.9533 0.3846 0.002219

mode bi ep g mu pl ru q H2O
0.2936 0.02150 0 0.1377 0.2070 0.004379 0.3268 0.009010

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.80 595.5 0.4597 0.2523 0.05456 0.06864 0.3239 0.3222
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3044 0.8419 0.1162 0.008395 0.4039 0.9995
na(mu) ca(pl) k(pl)
0.9530 0.3835 0.002246

mode bi ep g mu pl ru q H2O
0.2935 0.02203 0 0.1382 0.2062 0.004374 0.3268 0.008912

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.84 596.0 0.4597 0.2520 0.05371 0.06881 0.3243 0.3200
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3025 0.8420 0.1176 0.008421 0.4040 0.9995
na(mu) ca(pl) k(pl)
0.9526 0.3822 0.002274

mode bi ep g mu pl ru q H2O
0.2934 0.02256 0 0.1387 0.2053 0.004368 0.3268 0.008814

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.88 596.4 0.4597 0.2518 0.05287 0.06898 0.3246 0.3178

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3007 0.8422 0.1190 0.008448 0.4041 0.9995
na(mu) ca(pl) k(pl)
0.9522 0.3810 0.002302

mode bi ep g mu pl ru q H2O
0.2933 0.02310 0 0.1392 0.2045 0.004363 0.3269 0.008715

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.92 596.9 0.4597 0.2515 0.05204 0.06914 0.3249 0.3156
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2988 0.8423 0.1205 0.008475 0.4042 0.9995
na(mu) ca(pl) k(pl)
0.9519 0.3798 0.002330

mode bi ep g mu pl ru q H2O
0.2932 0.02364 0 0.1397 0.2036 0.004357 0.3269 0.008616

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.96 597.3 0.4597 0.2512 0.05122 0.06931 0.3252 0.3134
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2970 0.8424 0.1219 0.008503 0.4044 0.9995
na(mu) ca(pl) k(pl)
0.9515 0.3785 0.002359

mode bi ep g mu pl ru q H2O
0.2931 0.02418 0 0.1402 0.2027 0.004352 0.3269 0.008515

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.00 597.8 0.4597 0.2509 0.05041 0.06947 0.3256 0.3111
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2951 0.8426 0.1234 0.008532 0.4045 0.9995
na(mu) ca(pl) k(pl)
0.9511 0.3772 0.002388

mode bi ep g mu pl ru q H2O
0.2930 0.02473 0 0.1407 0.2019 0.004346 0.3269 0.008414

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.04 598.2 0.4597 0.2506 0.04961 0.06964 0.3259 0.3089
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2932 0.8427 0.1249 0.008561 0.4046 0.9995
na(mu) ca(pl) k(pl)
0.9507 0.3759 0.002418

mode bi ep g mu pl ru q H2O
0.2929 0.02528 0 0.1412 0.2010 0.004341 0.3270 0.008312

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.08 598.7 0.4597 0.2503 0.04882 0.06980 0.3263 0.3067

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2913 0.8429 0.1265 0.008590 0.4048 0.9995
na(mu) ca(pl) k(pl)
0.9504 0.3746 0.002448

mode bi ep g mu pl ru q H2O
0.2928 0.02583 0 0.1417 0.2001 0.004336 0.3270 0.008209

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.12 599.1 0.4597 0.2499 0.04803 0.06997 0.3266 0.3044
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2894 0.8430 0.1280 0.008621 0.4049 0.9995
na(mu) ca(pl) k(pl)
0.9500 0.3732 0.002478

mode bi ep g mu pl ru q H2O
0.2927 0.02639 0 0.1422 0.1992 0.004331 0.3270 0.008106

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.16 599.6 0.4597 0.2496 0.04726 0.07013 0.3270 0.3022
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2874 0.8432 0.1296 0.008652 0.4050 0.9994
na(mu) ca(pl) k(pl)
0.9496 0.3718 0.002509

mode bi ep g mu pl ru q H2O
0.2926 0.02695 0 0.1427 0.1983 0.004325 0.3270 0.008002

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.20 600.0 0.4597 0.2492 0.04649 0.07029 0.3274 0.2999
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2855 0.8433 0.1311 0.008683 0.4052 0.9994
na(mu) ca(pl) k(pl)
0.9492 0.3704 0.002540

mode bi ep g mu pl ru q H2O
0.2925 0.02751 0 0.1432 0.1974 0.004320 0.3271 0.007897

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.24 600.4 0.4597 0.2488 0.04574 0.07045 0.3277 0.2977
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2835 0.8435 0.1327 0.008715 0.4053 0.9994
na(mu) ca(pl) k(pl)
0.9489 0.3690 0.002572

mode bi ep g mu pl ru q H2O
0.2924 0.02808 0 0.1438 0.1965 0.004315 0.3271 0.007791

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.28 600.9 0.4597 0.2484 0.04499 0.07061 0.3281 0.2954

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2816 0.8437 0.1343 0.008748 0.4054 0.9994
na(mu) ca(pl) k(pl)
0.9485 0.3676 0.002604

mode bi ep g mu pl ru q H2O
0.2923 0.02865 0 0.1443 0.1956 0.004310 0.3271 0.007685

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.32 601.3 0.4597 0.2480 0.04426 0.07077 0.3285 0.2932
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2796 0.8438 0.1359 0.008781 0.4056 0.9994
na(mu) ca(pl) k(pl)
0.9481 0.3661 0.002636

mode bi ep g mu pl ru q H2O
0.2922 0.02922 0 0.1448 0.1947 0.004305 0.3272 0.007578

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.36 601.7 0.4597 0.2475 0.04353 0.07093 0.3289 0.2909
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2777 0.8440 0.1376 0.008815 0.4057 0.9994
na(mu) ca(pl) k(pl)
0.9477 0.3646 0.002669

mode bi ep g mu pl ru q H2O
0.2921 0.02980 0 0.1454 0.1938 0.004300 0.3272 0.007470

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.40 602.1 0.4597 0.2471 0.04282 0.07108 0.3293 0.2887
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2757 0.8442 0.1392 0.008849 0.4059 0.9994
na(mu) ca(pl) k(pl)
0.9473 0.3631 0.002703

mode bi ep g mu pl ru q H2O
0.2920 0.03038 0 0.1459 0.1929 0.004295 0.3272 0.007361

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.44 602.6 0.4597 0.2466 0.04211 0.07124 0.3297 0.2864
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2737 0.8444 0.1409 0.008884 0.4060 0.9994
na(mu) ca(pl) k(pl)
0.9470 0.3615 0.002737

mode bi ep g mu pl ru q H2O
0.2919 0.03096 0 0.1464 0.1919 0.004290 0.3273 0.007252

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.48 603.0 0.4597 0.2461 0.04142 0.07140 0.3302 0.2842

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2717 0.8446 0.1426 0.008920 0.4062 0.9994
na(mu) ca(pl) k(pl)
0.9466 0.3600 0.002771

mode bi ep g mu pl ru q H2O
0.2918 0.03155 0 0.1470 0.1910 0.004286 0.3273 0.007142

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.52 603.4 0.4597 0.2456 0.04073 0.07155 0.3306 0.2819
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2698 0.8448 0.1443 0.008957 0.4063 0.9994
na(mu) ca(pl) k(pl)
0.9462 0.3584 0.002806

mode bi ep g mu pl ru q H2O
0.2917 0.03213 0 0.1475 0.1901 0.004281 0.3273 0.007032

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.56 603.8 0.4597 0.2450 0.04006 0.07170 0.3310 0.2797
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2678 0.8449 0.1460 0.008994 0.4065 0.9993
na(mu) ca(pl) k(pl)
0.9458 0.3568 0.002842

mode bi ep g mu pl ru q H2O
0.2916 0.03273 0 0.1480 0.1891 0.004276 0.3273 0.006921

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.60 604.2 0.4597 0.2445 0.03940 0.07186 0.3315 0.2775
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2658 0.8451 0.1477 0.009031 0.4066 0.9993
na(mu) ca(pl) k(pl)
0.9455 0.3551 0.002878

mode bi ep g mu pl ru q H2O
0.2915 0.03332 0 0.1486 0.1882 0.004271 0.3274 0.006809

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.64 604.6 0.4597 0.2439 0.03875 0.07201 0.3319 0.2753
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2638 0.8453 0.1494 0.009069 0.4068 0.9993
na(mu) ca(pl) k(pl)
0.9451 0.3534 0.002914

mode bi ep g mu pl ru q H2O
0.2914 0.03392 0 0.1491 0.1872 0.004267 0.3274 0.006697

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.68 605.0 0.4597 0.2433 0.03811 0.07216 0.3324 0.2730

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2619 0.8455 0.1511 0.009108 0.4069 0.9993
na(mu) ca(pl) k(pl)
0.9447 0.3517 0.002951

mode bi ep g mu pl ru q H2O
0.2913 0.03451 0 0.1497 0.1862 0.004262 0.3274 0.006584

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.72 605.4 0.4597 0.2428 0.03748 0.07231 0.3328 0.2708
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2599 0.8457 0.1529 0.009148 0.4071 0.9993
na(mu) ca(pl) k(pl)
0.9443 0.3500 0.002989

mode bi ep g mu pl ru q H2O
0.2912 0.03511 0 0.1502 0.1853 0.004257 0.3275 0.006471

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.76 605.8 0.4597 0.2421 0.03686 0.07246 0.3333 0.2687
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2579 0.8459 0.1547 0.009188 0.4073 0.9993
na(mu) ca(pl) k(pl)
0.9440 0.3483 0.003027

mode bi ep g mu pl ru q H2O
0.2911 0.03572 0 0.1508 0.1843 0.004253 0.3275 0.006357

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.80 606.2 0.4597 0.2415 0.03625 0.07261 0.3338 0.2665
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2560 0.8462 0.1564 0.009229 0.4074 0.9993
na(mu) ca(pl) k(pl)
0.9436 0.3465 0.003066

mode bi ep g mu pl ru q H2O
0.2910 0.03632 0 0.1514 0.1833 0.004248 0.3275 0.006243

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.84 606.6 0.4597 0.2409 0.03565 0.07276 0.3342 0.2643
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2540 0.8464 0.1582 0.009271 0.4076 0.9993
na(mu) ca(pl) k(pl)
0.9432 0.3447 0.003105

mode bi ep g mu pl ru q H2O
0.2909 0.03693 0 0.1519 0.1824 0.004244 0.3276 0.006128

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.88 607.0 0.4597 0.2402 0.03506 0.07290 0.3347 0.2622

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2521 0.8466 0.1600 0.009313 0.4078 0.9993
na(mu) ca(pl) k(pl)
0.9428 0.3429 0.003145

mode bi ep g mu pl ru q H2O
0.2908 0.03754 0 0.1525 0.1814 0.004240 0.3276 0.006013

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.92 607.4 0.4597 0.2396 0.03449 0.07305 0.3352 0.2600
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2502 0.8468 0.1618 0.009356 0.4080 0.9992
na(mu) ca(pl) k(pl)
0.9425 0.3410 0.003185

mode bi ep g mu pl ru q H2O
0.2907 0.03815 0 0.1530 0.1804 0.004235 0.3276 0.005898

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.96 607.8 0.4597 0.2389 0.03393 0.07319 0.3357 0.2579
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2482 0.8470 0.1636 0.009400 0.4081 0.9992
na(mu) ca(pl) k(pl)
0.9421 0.3392 0.003226

mode bi ep g mu pl ru q H2O
0.2906 0.03876 0 0.1536 0.1794 0.004231 0.3277 0.005782

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.00 608.2 0.4597 0.2382 0.03337 0.07334 0.3362 0.2558
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2463 0.8472 0.1654 0.009444 0.4083 0.9992
na(mu) ca(pl) k(pl)
0.9417 0.3373 0.003268

mode bi ep g mu pl ru q H2O
0.2905 0.03937 0 0.1542 0.1784 0.004227 0.3277 0.005666

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.04 608.5 0.4597 0.2375 0.03283 0.07348 0.3367 0.2537
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2444 0.8474 0.1672 0.009489 0.4085 0.9992
na(mu) ca(pl) k(pl)
0.9414 0.3353 0.003310

mode bi ep g mu pl ru q H2O
0.2904 0.03998 0 0.1547 0.1774 0.004222 0.3277 0.005549

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.08 608.9 0.4597 0.2367 0.03230 0.07362 0.3372 0.2517

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2426 0.8476 0.1690 0.009535 0.4087 0.9992
na(mu) ca(pl) k(pl)
0.9410 0.3334 0.003353

mode bi ep g mu pl ru q H2O
0.2903 0.04059 0 0.1553 0.1764 0.004218 0.3278 0.005433

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.12 609.3 0.4597 0.2360 0.03178 0.07377 0.3377 0.2496
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2407 0.8479 0.1709 0.009581 0.4089 0.9992
na(mu) ca(pl) k(pl)
0.9407 0.3314 0.003396

mode bi ep g mu pl ru q H2O
0.2902 0.04120 0 0.1559 0.1755 0.004214 0.3278 0.005316

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.16 609.7 0.4597 0.2352 0.03127 0.07391 0.3382 0.2476
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2389 0.8481 0.1727 0.009629 0.4090 0.9992
na(mu) ca(pl) k(pl)
0.9403 0.3294 0.003440

mode bi ep g mu pl ru q H2O
0.2901 0.04182 0 0.1564 0.1745 0.004210 0.3278 0.005199

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.20 610.0 0.4597 0.2345 0.03077 0.07405 0.3387 0.2456
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2370 0.8483 0.1745 0.009677 0.4092 0.9992
na(mu) ca(pl) k(pl)
0.9399 0.3274 0.003485

mode bi ep g mu pl ru q H2O
0.2900 0.04243 0 0.1570 0.1735 0.004206 0.3279 0.005082

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.24 610.4 0.4597 0.2337 0.03028 0.07418 0.3392 0.2436
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2352 0.8485 0.1764 0.009726 0.4094 0.9991
na(mu) ca(pl) k(pl)
0.9396 0.3253 0.003530

mode bi ep g mu pl ru q H2O
0.2899 0.04304 0 0.1576 0.1725 0.004202 0.3279 0.004966

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.28 610.8 0.4597 0.2329 0.02981 0.07432 0.3398 0.2417

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2334 0.8488 0.1782 0.009775 0.4096 0.9991
na(mu) ca(pl) k(pl)
0.9392 0.3233 0.003576

mode bi ep g mu pl ru q H2O
0.2898 0.04365 0 0.1582 0.1715 0.004198 0.3279 0.004849

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.32 611.1 0.4597 0.2321 0.02934 0.07446 0.3403 0.2398
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2316 0.8490 0.1800 0.009826 0.4098 0.9991
na(mu) ca(pl) k(pl)
0.9389 0.3212 0.003623

mode bi ep g mu pl ru q H2O
0.2897 0.04426 0 0.1587 0.1705 0.004194 0.3279 0.004732

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.36 611.5 0.4597 0.2313 0.02888 0.07460 0.3408 0.2379
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2299 0.8492 0.1819 0.009877 0.4100 0.9991
na(mu) ca(pl) k(pl)
0.9385 0.3191 0.003670

mode bi ep g mu pl ru q H2O
0.2896 0.04487 0 0.1593 0.1695 0.004190 0.3280 0.004615

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.40 611.9 0.4597 0.2305 0.02844 0.07473 0.3414 0.2360
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2282 0.8494 0.1837 0.009929 0.4102 0.9991
na(mu) ca(pl) k(pl)
0.9382 0.3169 0.003718

mode bi ep g mu pl ru q H2O
0.2895 0.04548 0 0.1599 0.1685 0.004186 0.3280 0.004498

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.44 612.2 0.4597 0.2296 0.02800 0.07486 0.3419 0.2341
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2265 0.8496 0.1856 0.009982 0.4104 0.9991
na(mu) ca(pl) k(pl)
0.9378 0.3148 0.003766

mode bi ep g mu pl ru q H2O
0.2894 0.04608 0 0.1604 0.1675 0.004182 0.3280 0.004382

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.48 612.6 0.4597 0.2288 0.02757 0.07500 0.3424 0.2323

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2248 0.8499 0.1874 0.01004 0.4106 0.9991
na(mu) ca(pl) k(pl)
0.9375 0.3126 0.003816

mode bi ep g mu pl ru q H2O
0.2893 0.04668 0 0.1610 0.1665 0.004178 0.3281 0.004266

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.52 612.9 0.4597 0.2279 0.02716 0.07513 0.3430 0.2305
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2231 0.8501 0.1893 0.01009 0.4108 0.9990
na(mu) ca(pl) k(pl)
0.9371 0.3104 0.003865

mode bi ep g mu pl ru q H2O
0.2892 0.04728 0 0.1616 0.1656 0.004175 0.3281 0.004150

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.56 613.3 0.4597 0.2271 0.02675 0.07526 0.3435 0.2287
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2215 0.8503 0.1911 0.01015 0.4110 0.9990
na(mu) ca(pl) k(pl)
0.9368 0.3082 0.003916

mode bi ep g mu pl ru q H2O
0.2891 0.04788 0 0.1621 0.1646 0.004171 0.3281 0.004034

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 613.6 0.4597 0.2262 0.02635 0.07539 0.3441 0.2270
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2199 0.8505 0.1930 0.01020 0.4112 0.9990
na(mu) ca(pl) k(pl)
0.9365 0.3060 0.003967

mode bi ep g mu pl ru q H2O
0.2890 0.04848 0 0.1627 0.1636 0.004167 0.3282 0.003919

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.64 614.0 0.4597 0.2253 0.02597 0.07552 0.3446 0.2253
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2183 0.8508 0.1948 0.01026 0.4114 0.9990
na(mu) ca(pl) k(pl)
0.9361 0.3038 0.004019

mode bi ep g mu pl ru q H2O
0.2889 0.04907 0 0.1632 0.1626 0.004164 0.3282 0.003804

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.68 614.3 0.4597 0.2244 0.02559 0.07565 0.3452 0.2236

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2167 0.8510 0.1967 0.01032 0.4116 0.9990
na(mu) ca(pl) k(pl)
0.9358 0.3015 0.004071

mode bi ep g mu pl ru q H2O
0.2888 0.04966 0 0.1638 0.1617 0.004160 0.3282 0.003689

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.72 614.7 0.4597 0.2235 0.02522 0.07578 0.3458 0.2220
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2152 0.8512 0.1985 0.01038 0.4118 0.9990
na(mu) ca(pl) k(pl)
0.9355 0.2993 0.004124

mode bi ep g mu pl ru q H2O
0.2887 0.05025 0 0.1644 0.1607 0.004156 0.3283 0.003575

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.76 615.0 0.4597 0.2226 0.02486 0.07590 0.3463 0.2203
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2136 0.8514 0.2003 0.01044 0.4120 0.9989
na(mu) ca(pl) k(pl)
0.9351 0.2970 0.004177

mode bi ep g mu pl ru q H2O
0.2886 0.05083 0 0.1649 0.1598 0.004153 0.3283 0.003461

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 615.3 0.4597 0.2217 0.02451 0.07603 0.3469 0.2188
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2121 0.8517 0.2022 0.01050 0.4122 0.9989
na(mu) ca(pl) k(pl)
0.9348 0.2947 0.004232

mode bi ep g mu pl ru q H2O
0.2885 0.05141 0 0.1655 0.1588 0.004149 0.3283 0.003348

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.84 615.7 0.4597 0.2208 0.02417 0.07616 0.3474 0.2172
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2107 0.8519 0.2040 0.01056 0.4125 0.9989
na(mu) ca(pl) k(pl)
0.9345 0.2924 0.004286

mode bi ep g mu pl ru q H2O
0.2884 0.05198 0 0.1660 0.1579 0.004146 0.3283 0.003236

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.88 616.0 0.4597 0.2198 0.02383 0.07628 0.3480 0.2157

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2092 0.8521 0.2058 0.01062 0.4127 0.9989
na(mu) ca(pl) k(pl)
0.9342 0.2901 0.004342

mode bi ep g mu pl ru q H2O
0.2883 0.05255 0 0.1666 0.1569 0.004143 0.3284 0.003124

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.92 616.3 0.4597 0.2189 0.02351 0.07640 0.3486 0.2141
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2078 0.8523 0.2077 0.01069 0.4129 0.9989
na(mu) ca(pl) k(pl)
0.9338 0.2878 0.004398

mode bi ep g mu pl ru q H2O
0.2882 0.05312 0 0.1671 0.1560 0.004139 0.3284 0.003013

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.96 616.7 0.4597 0.2180 0.02319 0.07652 0.3491 0.2127
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2064 0.8525 0.2095 0.01075 0.4131 0.9989
na(mu) ca(pl) k(pl)
0.9335 0.2854 0.004455

mode bi ep g mu pl ru q H2O
0.2881 0.05368 0 0.1677 0.1551 0.004136 0.3284 0.002902

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 617.0 0.4597 0.2170 0.02288 0.07665 0.3497 0.2112
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2051 0.8528 0.2113 0.01082 0.4133 0.9988
na(mu) ca(pl) k(pl)
0.9332 0.2831 0.004512

mode bi ep g mu pl ru q H2O
0.2880 0.05424 0 0.1682 0.1541 0.004133 0.3285 0.002792

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.27 610.7 0.4597 0.2331 0.02990 0.07429 0.3397 0.2421
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2338 0.8487 0.1778 0.009765 0.4096 0.9991
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi

0.9393 0.3237 0.003567 0.5521-0.0001052 0.2898

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2898	0.04352	0	0.1580	0.1717		0	0.004199	0.3279 0.004873

calcs use:

composition

FeO	TiO2	O
64.286	7.143	28.571

reduced system needed for handling equilibrium involving: ilm

bulk NOT in reduced system

this equation must apply

- FeO + TiO2 + 2O = 0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.00	530.1	0.4597	0.1899	0.03424	0.05718	0.4028	0.2670
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.2601	0.3809	0.9996	0.9129	0.3515	0.002767
		x(ilm)	Q(ilm)				
		0.41340	0.004214				

mode	bi	ep	mu	pl	ilm	ru	q	H2O
	0.2861	0.03779	0.1654	0.1763		0	0.004887	0.3255 0.004132

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.04	531.2	0.4597	0.1906	0.03421	0.05740	0.4018	0.2667
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.2597	0.3813	0.9996	0.9133	0.3512	0.002779
		x(ilm)	Q(ilm)				
		0.41510	0.004596				

mode	bi	ep	mu	pl	ilm	ru	q	H2O
	0.2861	0.03784	0.1652	0.1763		0	0.004878	0.3255 0.004149

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.08 532.2 0.4597 0.1913 0.03418 0.05762 0.4008 0.2664
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2594 0.3817 0.9996 0.9137 0.3509 0.002790
x(ilm) Q(ilm)
0.41680.0005051

mode bi ep mu pl ilm ru q H2O
0.2862 0.03789 0.1651 0.1763 0 0.004870 0.3256 0.004166

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.12 533.2 0.4597 0.1920 0.03414 0.05783 0.3998 0.2661
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2591 0.3820 0.9996 0.9141 0.3506 0.002801
x(ilm) Q(ilm)
0.41850.0005600

mode bi ep mu pl ilm ru q H2O
0.2863 0.03795 0.1649 0.1762 0 0.004861 0.3256 0.004183

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.16 534.2 0.4597 0.1927 0.03411 0.05805 0.3989 0.2658
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2588 0.3824 0.9996 0.9144 0.3503 0.002812
x(ilm) Q(ilm)
0.42020.0006278

mode bi ep mu pl ilm ru q H2O
0.2863 0.03800 0.1648 0.1762 0 0.004852 0.3256 0.004199

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.20 535.3 0.4597 0.1934 0.03407 0.05826 0.3979 0.2655
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2585 0.3828 0.9996 0.9148 0.3500 0.002823
x(ilm) Q(ilm)
0.42190.0007134

mode bi ep mu pl ilm ru q H2O
0.2864 0.03805 0.1646 0.1762 0 0.004844 0.3257 0.004216

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.24 536.3 0.4597 0.1941 0.03403 0.05848 0.3970 0.2652
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2582 0.3832 0.9996 0.9152 0.3497 0.002834
x(ilm) Q(ilm)
0.42360.0008251

mode bi ep mu pl ilm ru q H2O
0.2864 0.03810 0.1645 0.1762 0 0.004835 0.3257 0.004232

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.28 537.3 0.4597 0.1948 0.03400 0.05869 0.3960 0.2649
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2578 0.3835 0.9996 0.9156 0.3494 0.002845
x(ilm) Q(ilm)
0.42540.0009768

mode bi ep mu pl ilm ru q H2O
0.2865 0.03816 0.1644 0.1762 0 0.004826 0.3257 0.004248

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.32 538.3 0.4597 0.1955 0.03396 0.05891 0.3951 0.2646
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2575 0.3839 0.9996 0.9159 0.3491 0.002856
x(ilm) Q(ilm)
0.4271 0.001195

mode bi ep mu pl ilm ru q H2O
0.2865 0.03821 0.1642 0.1762 0 0.004818 0.3258 0.004263

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.36 539.3 0.4597 0.1962 0.03392 0.05913 0.3941 0.2643
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2572 0.3843 0.9996 0.9163 0.3488 0.002867
x(ilm) Q(ilm)
0.4288 0.001535

mode bi ep mu pl ilm ru q H2O
0.2866 0.03827 0.1641 0.1762 0 0.004809 0.3258 0.004279

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.40 540.3 0.4597 0.1968 0.03388 0.05934 0.3932 0.2640
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2569 0.3846 0.9996 0.9167 0.3485 0.002878
x(ilm) Q(ilm)
0.4305 0.002138

mode bi ep mu pl ilm ru q H2O
0.2867 0.03832 0.1640 0.1761 0 0.004801 0.3258 0.004294

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.44 541.4 0.4597 0.1975 0.03384 0.05956 0.3923 0.2637
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2566 0.3850 0.9996 0.9171 0.3481 0.002889
x(ilm) Q(ilm)
0.4322 0.003511

mode bi ep mu pl ilm ru q H2O
0.2867 0.03838 0.1638 0.1761 0 0.004792 0.3259 0.004309

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.48 542.4 0.4597 0.1982 0.03380 0.05977 0.3914 0.2634
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2563 0.3854 0.9996 0.9174 0.3478 0.002900
x(ilm) Q(ilm)
0.4340 0.01005

mode bi ep mu pl ilm ru q H2O
0.2868 0.03843 0.1637 0.1761 0 0.004783 0.3259 0.004324

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.52 543.4 0.4597 0.1988 0.03376 0.05998 0.3905 0.2631
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2559 0.3857 0.9996 0.9178 0.3475 0.002911
x(ilm) Q(ilm)
0.4358 -0.01217

mode bi ep mu pl ilm ru q H2O
0.2868 0.03849 0.1636 0.1761 0 0.004775 0.3259 0.004339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.60 545.4 0.4597 0.2001 0.03368 0.06041 0.3886 0.2625
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2553 0.3865 0.9996 0.9185 0.3469 0.002932
x(ilm) Q(ilm)
0.4390-0.002325

mode bi ep mu pl ilm ru q H2O
0.2869 0.03860 0.1633 0.1760 0 0.004757 0.3260 0.004368

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.64 546.4 0.4597 0.2008 0.03363 0.06063 0.3877 0.2622
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2550 0.3868 0.9996 0.9189 0.3466 0.002943
x(ilm) Q(ilm)
0.4407-0.001651

mode bi ep mu pl ilm ru q H2O
0.2870 0.03866 0.1632 0.1760 0 0.004749 0.3260 0.004382

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.68 547.4 0.4597 0.2014 0.03359 0.06084 0.3869 0.2619
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2547 0.3872 0.9996 0.9193 0.3462 0.002953
x(ilm) Q(ilm)
0.4425-0.001283

mode bi ep mu pl ilm ru q H2O
0.2870 0.03872 0.1631 0.1760 0 0.004740 0.3261 0.004396

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.72 548.4 0.4597 0.2021 0.03355 0.06105 0.3860 0.2616
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2543 0.3876 0.9996 0.9196 0.3459 0.002964
x(ilm) Q(ilm)
0.4442-0.001050

mode bi ep mu pl ilm ru q H2O
0.2871 0.03878 0.1630 0.1759 0 0.004732 0.3261 0.004410

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.76 549.5 0.4597 0.2027 0.03350 0.06127 0.3851 0.2613
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2540 0.3879 0.9996 0.9200 0.3456 0.002974
x(ilm) Q(ilm)
0.4459-0.0008902

mode bi ep mu pl ilm ru q H2O
0.2871 0.03884 0.1628 0.1759 0 0.004723 0.3261 0.004424

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.80 550.5 0.4597 0.2033 0.03346 0.06148 0.3842 0.2610
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2537 0.3883 0.9996 0.9203 0.3453 0.002985
x(ilm) Q(ilm)
0.4476-0.0007732

mode bi ep mu pl ilm ru q H2O
0.2872 0.03890 0.1627 0.1759 0 0.004714 0.3262 0.004437

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.84 551.5 0.4597 0.2039 0.03341 0.06170 0.3833 0.2607
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2534 0.3886 0.9996 0.9207 0.3450 0.002995
x(ilm) Q(ilm)
0.4493-0.0006840

mode bi ep mu pl ilm ru q H2O
0.2873 0.03896 0.1626 0.1758 0 0.004706 0.3262 0.004450

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.88 552.5 0.4597 0.2046 0.03337 0.06191 0.3825 0.2604
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2531 0.3890 0.9995 0.9210 0.3446 0.003006
x(ilm) Q(ilm)
0.4510-0.0006138

mode bi ep mu pl ilm ru q H2O
0.2873 0.03902 0.1625 0.1758 0 0.004697 0.3262 0.004463

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.92 553.5 0.4597 0.2052 0.03332 0.06212 0.3816 0.2601
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2528 0.3894 0.9995 0.9214 0.3443 0.003016
x(ilm) Q(ilm)
0.4527-0.0005571

mode bi ep mu pl ilm ru q H2O
0.2874 0.03908 0.1624 0.1758 0 0.004689 0.3263 0.004476

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.96 554.5 0.4597 0.2058 0.03327 0.06233 0.3808 0.2598
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2524 0.3897 0.9995 0.9218 0.3440 0.003027
x(ilm) Q(ilm)
0.4544-0.0005103

mode bi ep mu pl ilm ru q H2O
0.2874 0.03915 0.1623 0.1757 0 0.004680 0.3263 0.004488

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.00 555.5 0.4597 0.2064 0.03323 0.06255 0.3799 0.2595
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2521 0.3901 0.9995 0.9221 0.3437 0.003037
x(ilm) Q(ilm)
0.4562-0.0004710

mode bi ep mu pl ilm ru q H2O
0.2875 0.03921 0.1621 0.1757 0 0.004672 0.3263 0.004501

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.04 556.5 0.4597 0.2070 0.03318 0.06276 0.3791 0.2592
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2518 0.3904 0.9995 0.9225 0.3433 0.003047
x(ilm) Q(ilm)
0.4579-0.0004376

mode bi ep mu pl ilm ru q H2O
0.2875 0.03927 0.1620 0.1757 0 0.004663 0.3264 0.004513

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.08 557.5 0.4597 0.2076 0.03313 0.06297 0.3782 0.2589
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2515 0.3908 0.9995 0.9228 0.3430 0.003057
x(ilm) Q(ilm)
0.4596-0.0004088

mode bi ep mu pl ilm ru q H2O
0.2876 0.03934 0.1619 0.1756 0 0.004654 0.3264 0.004525

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.12    558.5  0.4597  0.2082  0.03308  0.06318  0.3774  0.2586
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2512  0.3912  0.9995  0.9232  0.3427  0.003068
      x(ilm)  Q(ilm)
      0.4613-0.0003838

mode    bi    ep    mu    pl    ilm    ru    q    H2O
      0.2876  0.03940  0.1618  0.1756    0 0.004646  0.3264 0.004536
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.16    559.5  0.4597  0.2087  0.03303  0.06339  0.3766  0.2583
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2508  0.3915  0.9995  0.9235  0.3424  0.003078
      x(ilm)  Q(ilm)
      0.4630-0.0003618

mode    bi    ep    mu    pl    ilm    ru    q    H2O
      0.2877  0.03946  0.1617  0.1755    0 0.004637  0.3264 0.004548
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.20    560.5  0.4597  0.2093  0.03298  0.06361  0.3757  0.2580
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2505  0.3919  0.9995  0.9238  0.3420  0.003088
      x(ilm)  Q(ilm)
      0.4647-0.0003424

mode    bi    ep    mu    pl    ilm    ru    q    H2O
      0.2877  0.03953  0.1616  0.1755    0 0.004629  0.3265 0.004559
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.24    561.5  0.4597  0.2099  0.03293  0.06382  0.3749  0.2577
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2502  0.3922  0.9995  0.9242  0.3417  0.003098
      x(ilm)  Q(ilm)
      0.4664-0.0003251

mode    bi    ep    mu    pl    ilm    ru    q    H2O
      0.2878  0.03960  0.1615  0.1754    0 0.004620  0.3265 0.004570
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.28    562.5  0.4597  0.2105  0.03288  0.06403  0.3741  0.2574
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2499  0.3926  0.9995  0.9245  0.3414  0.003108
      x(ilm)  Q(ilm)
      0.4682-0.0003095

mode    bi    ep    mu    pl    ilm    ru    q    H2O
      0.2878  0.03966  0.1614  0.1754    0 0.004612  0.3265 0.004581
-----

```

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.32 563.4 0.4597 0.2110 0.03283 0.06424 0.3733 0.2571
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2496 0.3929 0.9995 0.9249 0.3410 0.003118
x(ilm) Q(ilm)
0.4699-0.0002955

mode bi ep mu pl ilm ru q H2O
0.2879 0.03973 0.1613 0.1754 0 0.004603 0.3266 0.004592

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.36 564.4 0.4597 0.2116 0.03278 0.06445 0.3725 0.2568
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2492 0.3933 0.9995 0.9252 0.3407 0.003128
x(ilm) Q(ilm)
0.4716-0.0002828

mode bi ep mu pl ilm ru q H2O
0.2879 0.03979 0.1612 0.1753 0 0.004595 0.3266 0.004602

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.40 565.4 0.4597 0.2122 0.03273 0.06466 0.3717 0.2565
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2489 0.3936 0.9995 0.9255 0.3404 0.003138
x(ilm) Q(ilm)
0.4733-0.0002712

mode bi ep mu pl ilm ru q H2O
0.2880 0.03986 0.1611 0.1753 0 0.004586 0.3266 0.004613

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.44 566.4 0.4597 0.2127 0.03267 0.06487 0.3709 0.2562
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2486 0.3940 0.9995 0.9259 0.3400 0.003148
x(ilm) Q(ilm)
0.4750-0.0002606

mode bi ep mu pl ilm ru q H2O
0.2880 0.03993 0.1610 0.1752 0 0.004578 0.3267 0.004623

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.48 567.4 0.4597 0.2132 0.03262 0.06508 0.3701 0.2559
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2483 0.3943 0.9995 0.9262 0.3397 0.003158
x(ilm) Q(ilm)
0.4767-0.0002509

mode bi ep mu pl ilm ru q H2O
0.2880 0.04000 0.1609 0.1752 0 0.004569 0.3267 0.004633

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.52 568.4 0.4597 0.2138 0.03257 0.06529 0.3693 0.2556
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2480 0.3947 0.9995 0.9265 0.3394 0.003167
x(ilm) Q(ilm)
0.4784-0.0002420

mode bi ep mu pl ilm ru q H2O
0.2881 0.04007 0.1608 0.1751 0 0.004561 0.3267 0.004642

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.56 569.4 0.4597 0.2143 0.03251 0.06550 0.3686 0.2553
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2476 0.3950 0.9995 0.9269 0.3390 0.003177
x(ilm) Q(ilm)
0.4801-0.0002337

mode bi ep mu pl ilm ru q H2O
0.2881 0.04014 0.1607 0.1750 0 0.004552 0.3268 0.004652

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.60 570.4 0.4597 0.2149 0.03246 0.06571 0.3678 0.2550
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2473 0.3954 0.9994 0.9272 0.3387 0.003187
x(ilm) Q(ilm)
0.4819-0.0002261

mode bi ep mu pl ilm ru q H2O
0.2882 0.04021 0.1606 0.1750 0 0.004544 0.3268 0.004661

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.64 571.4 0.4597 0.2154 0.03240 0.06592 0.3670 0.2547
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2470 0.3957 0.9994 0.9275 0.3384 0.003197
x(ilm) Q(ilm)
0.4836-0.0002190

mode bi ep mu pl ilm ru q H2O
0.2882 0.04028 0.1605 0.1749 0 0.004536 0.3268 0.004670

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.68 572.3 0.4597 0.2159 0.03235 0.06613 0.3662 0.2544
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2467 0.3961 0.9994 0.9278 0.3380 0.003206
x(ilm) Q(ilm)
0.4853-0.0002123

mode bi ep mu pl ilm ru q H2O
0.2883 0.04035 0.1605 0.1749 0 0.004527 0.3268 0.004679

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.72 573.3 0.4597 0.2164 0.03229 0.06634 0.3655 0.2541
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2464 0.3964 0.9994 0.9282 0.3377 0.003216
x(ilm) Q(ilm)
0.4870-0.0002062

mode bi ep mu pl ilm ru q H2O
0.2883 0.04042 0.1604 0.1748 0 0.004519 0.3269 0.004688

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.76 574.3 0.4597 0.2169 0.03224 0.06655 0.3647 0.2538
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2460 0.3968 0.9994 0.9285 0.3373 0.003225
x(ilm) Q(ilm)
0.4887-0.0002004

mode bi ep mu pl ilm ru q H2O
0.2884 0.04049 0.1603 0.1748 0 0.004510 0.3269 0.004696

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.80 575.3 0.4597 0.2175 0.03218 0.06676 0.3640 0.2535
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2457 0.3971 0.9994 0.9288 0.3370 0.003235
x(ilm) Q(ilm)
0.4904-0.0001949

mode bi ep mu pl ilm ru q H2O
0.2884 0.04056 0.1602 0.1747 0 0.004502 0.3269 0.004704

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.84 576.3 0.4597 0.2180 0.03212 0.06696 0.3632 0.2532
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2454 0.3975 0.9994 0.9291 0.3366 0.003245
x(ilm) Q(ilm)
0.4921-0.0001898

mode bi ep mu pl ilm ru q H2O
0.2884 0.04063 0.1601 0.1746 0 0.004493 0.3270 0.004712

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.88 577.3 0.4597 0.2185 0.03207 0.06717 0.3625 0.2529
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2451 0.3978 0.9994 0.9294 0.3363 0.003254
x(ilm) Q(ilm)
0.4938-0.0001850

mode bi ep mu pl ilm ru q H2O
0.2885 0.04071 0.1600 0.1746 0 0.004485 0.3270 0.004720

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.92    578.2  0.4597  0.2190  0.03201  0.06738  0.3618  0.2526
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2447  0.3982  0.9994  0.9298  0.3360  0.003264
      x(ilm)  Q(ilm)
      0.4955-0.0001805

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2885  0.04078  0.1600  0.1745    0 0.004477  0.3270 0.004728
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.96    579.2  0.4597  0.2194  0.03195  0.06759  0.3610  0.2523
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2444  0.3985  0.9994  0.9301  0.3356  0.003273
      x(ilm)  Q(ilm)
      0.4972-0.0001762

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2886  0.04086  0.1599  0.1744    0 0.004468  0.3270 0.004735
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.00    580.2  0.4597  0.2199  0.03189  0.06780  0.3603  0.2519
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2441  0.3989  0.9994  0.9304  0.3353  0.003282
      x(ilm)  Q(ilm)
      0.4989-0.0001722

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2886  0.04093  0.1598  0.1744    0 0.004460  0.3271 0.004743
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.04    581.2  0.4597  0.2204  0.03184  0.06800  0.3596  0.2516
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2438  0.3992  0.9994  0.9307  0.3349  0.003292
      x(ilm)  Q(ilm)
      0.5006-0.0001683

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2887  0.04100  0.1597  0.1743    0 0.004452  0.3271 0.004750
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.08    582.1  0.4597  0.2209  0.03178  0.06821  0.3589  0.2513
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2435  0.3996  0.9994  0.9310  0.3346  0.003301
      x(ilm)  Q(ilm)
      0.5023-0.0001647

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2887  0.04108  0.1596  0.1742    0 0.004443  0.3271 0.004757
-----

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P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.12 583.1 0.4597 0.2214 0.03172 0.06842 0.3582 0.2510
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2431 0.3999 0.9994 0.9313 0.3342 0.003310
x(ilm) Q(ilm)
0.5040-0.0001612

mode bi ep mu pl ilm ru q H2O
0.2887 0.04116 0.1596 0.1742 0 0.004435 0.3272 0.004763

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.16 584.1 0.4597 0.2218 0.03166 0.06863 0.3575 0.2507
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2428 0.4002 0.9994 0.9316 0.3339 0.003320
x(ilm) Q(ilm)
0.5057-0.0001580

mode bi ep mu pl ilm ru q H2O
0.2888 0.04123 0.1595 0.1741 0 0.004427 0.3272 0.004770

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.20 585.1 0.4597 0.2223 0.03160 0.06883 0.3568 0.2504
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2425 0.4006 0.9994 0.9319 0.3335 0.003329
x(ilm) Q(ilm)
0.5074-0.0001548

mode bi ep mu pl ilm ru q H2O
0.2888 0.04131 0.1594 0.1740 0 0.004418 0.3272 0.004776

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.24 586.0 0.4597 0.2228 0.03154 0.06904 0.3561 0.2501
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2422 0.4009 0.9993 0.9322 0.3332 0.003338
x(ilm) Q(ilm)
0.5091-0.0001518

mode bi ep mu pl ilm ru q H2O
0.2889 0.04139 0.1594 0.1740 0 0.004410 0.3272 0.004782

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.28 587.0 0.4597 0.2232 0.03148 0.06924 0.3554 0.2498
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2418 0.4013 0.9993 0.9325 0.3328 0.003347
x(ilm) Q(ilm)
0.5108-0.0001490

mode bi ep mu pl ilm ru q H2O
0.2889 0.04146 0.1593 0.1739 0 0.004402 0.3273 0.004788

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.32  588.0  0.4597  0.2237  0.03142  0.06945  0.3547  0.2495
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2415  0.4016  0.9993  0.9328  0.3325  0.003356
      x(ilm)  Q(ilm)
      0.5125-0.0001463

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2889  0.04154  0.1592  0.1738  0 0.004393  0.3273  0.004794
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.36  588.9  0.4597  0.2241  0.03136  0.06966  0.3540  0.2492
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2412  0.4020  0.9993  0.9331  0.3321  0.003365
      x(ilm)  Q(ilm)
      0.5142-0.0001437

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2890  0.04162  0.1592  0.1737  0 0.004385  0.3273  0.004799
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.40  589.9  0.4597  0.2245  0.03130  0.06986  0.3533  0.2489
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2409  0.4023  0.9993  0.9334  0.3317  0.003374
      x(ilm)  Q(ilm)
      0.5158-0.0001412

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2890  0.04170  0.1591  0.1737  0 0.004377  0.3273  0.004804
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.44  590.9  0.4597  0.2250  0.03124  0.07007  0.3527  0.2486
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2406  0.4026  0.9993  0.9337  0.3314  0.003384
      x(ilm)  Q(ilm)
      0.5175-0.0001388

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2891  0.04178  0.1590  0.1736  0 0.004368  0.3274  0.004810
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.48  591.8  0.4597  0.2254  0.03117  0.07027  0.3520  0.2483
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2402  0.4030  0.9993  0.9340  0.3310  0.003393
      x(ilm)  Q(ilm)
      0.5192-0.0001365

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2891  0.04186  0.1590  0.1735  0 0.004360  0.3274  0.004814
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P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
8.52	592.8	0.4597	0.2258	0.03111	0.07048	0.3513	0.2479	
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
		0.2399	0.4033	0.9993	0.9342	0.3307	0.003402	
		x(ilm)	Q(ilm)					
		0.5209-0.0001343						

mode	bi	ep	mu	pl	ilm	ru	q	H2O
	0.2891	0.04194	0.1589	0.1734		0	0.004352	0.3274 0.004819

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
8.56	593.7	0.4597	0.2263	0.03105	0.07068	0.3507	0.2476	
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
		0.2396	0.4036	0.9993	0.9345	0.3303	0.003411	
		x(ilm)	Q(ilm)					
		0.5226-0.0001322						

mode	bi	ep	mu	pl	ilm	ru	q	H2O
	0.2892	0.04202	0.1589	0.1733		0	0.004344	0.3275 0.004824

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
8.60	594.7	0.4597	0.2267	0.03099	0.07089	0.3500	0.2473	
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
		0.2393	0.4040	0.9993	0.9348	0.3299	0.003420	
		x(ilm)	Q(ilm)					
		0.5242-0.0001302						

mode	bi	ep	mu	pl	ilm	ru	q	H2O
	0.2892	0.04210	0.1588	0.1732		0	0.004335	0.3275 0.004828

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
8.64	595.7	0.4597	0.2271	0.03092	0.07109	0.3494	0.2470	
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
		0.2389	0.4043	0.9993	0.9351	0.3296	0.003428	
		x(ilm)	Q(ilm)					
		0.5259-0.0001283						

mode	bi	ep	mu	pl	ilm	ru	q	H2O
	0.2892	0.04218	0.1587	0.1732		0	0.004327	0.3275 0.004832

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
8.68	596.6	0.4597	0.2275	0.03086	0.07130	0.3487	0.2467	
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
		0.2386	0.4047	0.9993	0.9354	0.3292	0.003437	
		x(ilm)	Q(ilm)					
		0.5276-0.0001264						

mode	bi	ep	mu	pl	ilm	ru	q	H2O
	0.2893	0.04226	0.1587	0.1731		0	0.004319	0.3275 0.004836

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.72  597.6  0.4597  0.2279  0.03080  0.07150  0.3481  0.2464
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2383  0.4050  0.9993  0.9357  0.3288  0.003446
      x(ilm)  Q(ilm)
      0.5293-0.0001246

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2893  0.04235  0.1586  0.1730  0 0.004311  0.3276  0.004840
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.76  598.5  0.4597  0.2283  0.03073  0.07170  0.3474  0.2461
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2380  0.4053  0.9992  0.9359  0.3285  0.003455
      x(ilm)  Q(ilm)
      0.5309-0.0001229

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2894  0.04243  0.1586  0.1729  0 0.004303  0.3276  0.004843
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.80  599.5  0.4597  0.2287  0.03067  0.07191  0.3468  0.2458
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2376  0.4057  0.9992  0.9362  0.3281  0.003464
      x(ilm)  Q(ilm)
      0.5326-0.0001212

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2894  0.04251  0.1585  0.1728  0 0.004294  0.3276  0.004847
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.84  600.5  0.4597  0.2291  0.03061  0.07211  0.3462  0.2455
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2373  0.4060  0.9992  0.9365  0.3277  0.003473
      x(ilm)  Q(ilm)
      0.5343-0.0001196

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2894  0.04259  0.1585  0.1727  0 0.004286  0.3276  0.004850
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.88  601.4  0.4597  0.2295  0.03054  0.07231  0.3456  0.2451
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2370  0.4063  0.9992  0.9368  0.3274  0.003482
      x(ilm)  Q(ilm)
      0.5359-0.0001180

mode  bi  ep  mu  pl  ilm  ru  q  H2O
0.2895  0.04268  0.1584  0.1726  0 0.004278  0.3277  0.004853
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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.92    602.4  0.4597  0.2299  0.03048  0.07252  0.3449  0.2448
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2367  0.4067  0.9992  0.9370  0.3270  0.003490
      x(ilm)  Q(ilm)
      0.5376-0.0001165

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2895  0.04276  0.1584  0.1725    0 0.004270  0.3277  0.004856
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
8.96    603.3  0.4597  0.2303  0.03041  0.07272  0.3443  0.2445
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2363  0.4070  0.9992  0.9373  0.3266  0.003499
      x(ilm)  Q(ilm)
      0.5392-0.0001150

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2895  0.04285  0.1583  0.1724    0 0.004262  0.3277  0.004859
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.00    604.3  0.4597  0.2306  0.03035  0.07292  0.3437  0.2442
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2360  0.4073  0.9992  0.9376  0.3263  0.003508
      x(ilm)  Q(ilm)
      0.5409-0.0001136

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2896  0.04293  0.1583  0.1724    0 0.004254  0.3277  0.004861
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.04    605.2  0.4597  0.2310  0.03028  0.07313  0.3431  0.2439
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2357  0.4077  0.9992  0.9378  0.3259  0.003517
      x(ilm)  Q(ilm)
      0.5425-0.0001123

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2896  0.04302  0.1583  0.1723    0 0.004246  0.3278  0.004863
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.08    606.2  0.4597  0.2314  0.03022  0.07333  0.3425  0.2436
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2354  0.4080  0.9992  0.9381  0.3255  0.003525
      x(ilm)  Q(ilm)
      0.5442-0.0001110

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2896  0.04311  0.1582  0.1722    0 0.004237  0.3278  0.004865
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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.12    607.1  0.4597  0.2317  0.03015  0.07353  0.3419  0.2433
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2350  0.4083  0.9992  0.9383  0.3251  0.003534
      x(ilm)  Q(ilm)
      0.5458-0.0001097

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2897  0.04319  0.1582  0.1721    0 0.004229  0.3278 0.004867
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.16    608.1  0.4597  0.2321  0.03009  0.07373  0.3413  0.2430
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2347  0.4087  0.9992  0.9386  0.3248  0.003543
      x(ilm)  Q(ilm)
      0.5475-0.0001085

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2897  0.04328  0.1581  0.1720    0 0.004221  0.3278 0.004869
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.20    609.0  0.4597  0.2324  0.03002  0.07393  0.3407  0.2426
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2344  0.4090  0.9991  0.9388  0.3244  0.003551
      x(ilm)  Q(ilm)
      0.5491-0.0001073

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2897  0.04337  0.1581  0.1719    0 0.004213  0.3279 0.004871
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.24    610.0  0.4597  0.2328  0.02996  0.07413  0.3401  0.2423
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2340  0.4093  0.9991  0.9391  0.3240  0.003560
      x(ilm)  Q(ilm)
      0.5508-0.0001061

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2897  0.04345  0.1581  0.1718    0 0.004205  0.3279 0.004872
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.28    610.9  0.4597  0.2331  0.02989  0.07434  0.3395  0.2420
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2337  0.4096  0.9991  0.9394  0.3236  0.003568
      x(ilm)  Q(ilm)
      0.5524-0.0001050

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2898  0.04354  0.1580  0.1717    0 0.004197  0.3279 0.004873
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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.32    611.8  0.4597  0.2335  0.02982  0.07454  0.3390  0.2417
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2334  0.4100  0.9991  0.9396  0.3232  0.003577
      x(ilm)  Q(ilm)
      0.5540-0.0001039

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2898  0.04363  0.1580  0.1716    0 0.004189  0.3279 0.004874
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.36    612.8  0.4597  0.2338  0.02976  0.07474  0.3384  0.2414
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2331  0.4103  0.9991  0.9399  0.3229  0.003586
      x(ilm)  Q(ilm)
      0.5557-0.0001028

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2898  0.04372  0.1580  0.1715    0 0.004181  0.3280 0.004875
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.40    613.7  0.4597  0.2342  0.02969  0.07494  0.3378  0.2411
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2327  0.4106  0.9991  0.9401  0.3225  0.003594
      x(ilm)  Q(ilm)
      0.5573-0.0001018

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2899  0.04381  0.1579  0.1714    0 0.004173  0.3280 0.004876
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.44    614.7  0.4597  0.2345  0.02962  0.07514  0.3372  0.2408
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2324  0.4110  0.9991  0.9403  0.3221  0.003603
      x(ilm)  Q(ilm)
      0.5589-0.0001008

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2899  0.04390  0.1579  0.1713    0 0.004165  0.3280 0.004876
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.48    615.6  0.4597  0.2348  0.02956  0.07534  0.3367  0.2404
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2321  0.4113  0.9991  0.9406  0.3217  0.003611
      x(ilm)  Q(ilm)
      0.5605-9.983e-5

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2899  0.04399  0.1579  0.1711    0 0.004157  0.3280 0.004876
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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.52    616.5  0.4597  0.2351  0.02949  0.07554  0.3361  0.2401
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2318  0.4116  0.9991  0.9408  0.3213  0.003620
      x(ilm)  Q(ilm)
      0.5621-9.888e-5

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2900  0.04408  0.1578  0.1710    0  0.004149  0.3281  0.004876
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.56    617.5  0.4597  0.2355  0.02942  0.07574  0.3356  0.2398
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2314  0.4119  0.9991  0.9411  0.3209  0.003629
      x(ilm)  Q(ilm)
      0.5638-9.797e-5

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2900  0.04417  0.1578  0.1709    0  0.004141  0.3281  0.004876
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.60    618.4  0.4597  0.2358  0.02935  0.07594  0.3350  0.2395
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2311  0.4123  0.9990  0.9413  0.3205  0.003637
      x(ilm)  Q(ilm)
      0.5654-9.708e-5

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2900  0.04426  0.1578  0.1708    0  0.004133  0.3281  0.004876
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.64    619.3  0.4597  0.2361  0.02929  0.07614  0.3345  0.2392
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2308  0.4126  0.9990  0.9415  0.3201  0.003646
      x(ilm)  Q(ilm)
      0.5670-9.621e-5

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2900  0.04435  0.1578  0.1707    0  0.004125  0.3281  0.004876
-----

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.68    620.3  0.4597  0.2364  0.02922  0.07634  0.3339  0.2389
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.2305  0.4129  0.9990  0.9418  0.3197  0.003654
      x(ilm)  Q(ilm)
      0.5686-9.537e-5

mode    bi    ep    mu    pl    ilm    ru    q    H2O
0.2901  0.04445  0.1577  0.1706    0  0.004117  0.3282  0.004875
-----

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P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.72 621.2 0.4597 0.2367 0.02915 0.07654 0.3334 0.2385
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2301 0.4132 0.9990 0.9420 0.3194 0.003663
x(ilm) Q(ilm)
0.5702-9.455e-5

mode bi ep mu pl ilm ru q H2O
0.2901 0.04454 0.1577 0.1705 0 0.004109 0.3282 0.004875

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.76 622.1 0.4597 0.2370 0.02908 0.07674 0.3328 0.2382
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2298 0.4135 0.9990 0.9422 0.3190 0.003671
x(ilm) Q(ilm)
0.5718-9.375e-5

mode bi ep mu pl ilm ru q H2O
0.2901 0.04463 0.1577 0.1704 0 0.004101 0.3282 0.004874

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 623.1 0.4597 0.2373 0.02902 0.07693 0.3323 0.2379
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2295 0.4139 0.9990 0.9425 0.3186 0.003680
x(ilm) Q(ilm)
0.5734-9.297e-5

mode bi ep mu pl ilm ru q H2O
0.2902 0.04472 0.1577 0.1703 0 0.004093 0.3282 0.004873

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.84 624.0 0.4597 0.2376 0.02895 0.07713 0.3318 0.2376
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2291 0.4142 0.9990 0.9427 0.3182 0.003688
x(ilm) Q(ilm)
0.5750-9.221e-5

mode bi ep mu pl ilm ru q H2O
0.2902 0.04482 0.1577 0.1701 0 0.004085 0.3282 0.004871

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.88 624.9 0.4597 0.2379 0.02888 0.07733 0.3312 0.2373
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2288 0.4145 0.9990 0.9429 0.3178 0.003697
x(ilm) Q(ilm)
0.5765-9.147e-5

mode bi ep mu pl ilm ru q H2O
0.2902 0.04491 0.1576 0.1700 0 0.004077 0.3283 0.004870

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.92 625.9 0.4597 0.2382 0.02881 0.07753 0.3307 0.2370
 Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
 0.2285 0.4148 0.9990 0.9431 0.3174 0.003705
 x(ilm) Q(ilm)
 0.5781-9.075e-5

mode bi ep mu pl ilm ru q H2O
 0.2902 0.04501 0.1576 0.1699 0 0.004069 0.3283 0.004868

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.96 626.8 0.4597 0.2384 0.02874 0.07773 0.3302 0.2366
 Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
 0.2282 0.4152 0.9990 0.9434 0.3170 0.003714
 x(ilm) Q(ilm)
 0.5797-9.005e-5

mode bi ep mu pl ilm ru q H2O
 0.2903 0.04510 0.1576 0.1698 0 0.004061 0.3283 0.004867

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.00 627.7 0.4597 0.2387 0.02867 0.07792 0.3297 0.2363
 Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
 0.2278 0.4155 0.9989 0.9436 0.3166 0.003722
 x(ilm) Q(ilm)
 0.5813-8.936e-5

mode bi ep mu pl ilm ru q H2O
 0.2903 0.04520 0.1576 0.1697 0 0.004053 0.3283 0.004865

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, mt, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 8.84 606.6 0.4597 0.2408 0.03561 0.07277 0.3343 0.2642
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2539 0.8464 0.1583 0.009274 0.4076 0.9993
 na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)

0.9432 0.3446 0.003108 0.9842 0.02253 0.08627

mode	bi	ep	g	mu	pl	mt	ru	q	H2O
	0.2909	0.03697	0	0.1520	0.1823		0	0.004244	0.3276 0.006120

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, mt, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, mt, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.88	607.6	0.4592	0.2420	0.03580	0.07309	0.3331	0.2645
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2542	0.8458	0.1585	0.009355	0.4075	0.9993
		na(mu)	ca(pl)	k(pl)	x(mt)	y(mt)	z(mt)
		0.9421	0.3440	0.003160	0.9841	0.02261	0.08569

mode	bi	ep	g	mu	pl	mt	ru	q	H2O
	0.2906	0.036820	0.003635	0.1515	0.1828		0	0.004233	0.3275 0.006248

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.92	608.7	0.4587	0.2433	0.03600	0.07344	0.3319	0.2649
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2545	0.8452	0.1588	0.009444	0.4073	0.9992
		na(mu)	ca(pl)	k(pl)	x(mt)	y(mt)	z(mt)
		0.9409	0.3434	0.003217	0.9840	0.02270	0.08507

mode	bi	ep	g	mu	pl	mt	ru	q	H2O
	0.2903	0.036660	0.007579	0.1509	0.1833		0	0.004222	0.3274 0.006386

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.96	609.7	0.4581	0.2445	0.03621	0.07379	0.3307	0.2653
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2548	0.8446	0.1590	0.009533	0.4071	0.9992
		na(mu)	ca(pl)	k(pl)	x(mt)	y(mt)	z(mt)
		0.9397	0.3428	0.003275	0.9839	0.02278	0.08446

mode	bi	ep	g	mu	pl	mt	ru	q	H2O
	0.2901	0.03650	0.001156	0.1504	0.1838		0	0.004211	0.3273 0.006523

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.00    610.8  0.4576  0.2458  0.03641  0.07415  0.3296  0.2657
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2550  0.8440  0.1592  0.009624  0.4069  0.9992
      na(mu) ca(pl)  k(pl)  x(mt)  y(mt)  z(mt)
      0.9385  0.3421  0.003333  0.9839  0.02287  0.08386

mode    bi    ep    g    mu    pl    mt    ru    q    H2O
      0.2898  0.03634  0.001558  0.1499  0.1844    0 0.004200  0.3272 0.006661

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.04    611.9  0.4570  0.2470  0.03662  0.07450  0.3284  0.2661
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2553  0.8433  0.1594  0.009715  0.4067  0.9992
      na(mu) ca(pl)  k(pl)  x(mt)  y(mt)  z(mt)
      0.9372  0.3415  0.003392  0.9838  0.02295  0.08326

mode    bi    ep    g    mu    pl    mt    ru    q    H2O
      0.2895  0.03618  0.001964  0.1494  0.1849    0 0.004189  0.3271 0.006798

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.08    612.9  0.4565  0.2482  0.03682  0.07485  0.3272  0.2665
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2556  0.8427  0.1597  0.009807  0.4066  0.9992
      na(mu) ca(pl)  k(pl)  x(mt)  y(mt)  z(mt)
      0.9359  0.3409  0.003452  0.9837  0.02304  0.08267

mode    bi    ep    g    mu    pl    mt    ru    q    H2O
      0.2892  0.03602  0.002374  0.1489  0.1854    0 0.004178  0.3270 0.006936

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.12    614.0  0.4559  0.2494  0.03703  0.07520  0.3261  0.2669
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2559  0.8421  0.1599  0.009901  0.4064  0.9992
      na(mu) ca(pl)  k(pl)  x(mt)  y(mt)  z(mt)
      0.9345  0.3402  0.003513  0.9836  0.02312  0.08208

mode    bi    ep    g    mu    pl    mt    ru    q    H2O
      0.2889  0.03586  0.002789  0.1484  0.1859    0 0.004167  0.3269 0.007074

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.16    615.0  0.4553  0.2505  0.03723  0.07555  0.3250  0.2673
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2562  0.8415  0.1602  0.009995  0.4062  0.9991
      na(mu) ca(pl)  k(pl)  x(mt)  y(mt)  z(mt)
      0.9331  0.3396  0.003575  0.9835  0.02320  0.08150

mode    bi    ep    g    mu    pl    mt    ru    q    H2O
      0.2886  0.03570  0.003208  0.1479  0.1865    0 0.004156  0.3268 0.007211

```

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.20 616.1 0.4547 0.2517 0.03744 0.07590 0.3238 0.2677
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2565 0.8408 0.1604 0.01009 0.4059 0.9991
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9316 0.3389 0.003637 0.9834 0.02328 0.08093

mode bi ep g mu pl mt ru q H2O
0.2883 0.03554 0.003632 0.1474 0.1870 0 0.004145 0.3267 0.007349

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.24 617.1 0.4541 0.2529 0.03764 0.07625 0.3227 0.2681
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2568 0.8402 0.1606 0.01019 0.4057 0.9991
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9302 0.3383 0.003700 0.9833 0.02336 0.08036

mode bi ep g mu pl mt ru q H2O
0.2879 0.03538 0.004062 0.1469 0.1875 0 0.004135 0.3266 0.007487

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.28 618.2 0.4535 0.2540 0.03785 0.07660 0.3216 0.2685
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2571 0.8396 0.1609 0.01028 0.4055 0.9991
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9286 0.3376 0.003764 0.9832 0.02344 0.07980

mode bi ep g mu pl mt ru q H2O
0.2876 0.03523 0.004497 0.1464 0.1880 0 0.004124 0.3265 0.007625

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.32 619.2 0.4529 0.2551 0.03805 0.07695 0.3205 0.2689
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2574 0.8389 0.1611 0.01038 0.4053 0.9991
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9270 0.3369 0.003829 0.9831 0.02352 0.07924

mode bi ep g mu pl mt ru q H2O
0.2873 0.03507 0.004938 0.1459 0.1885 0 0.004114 0.3264 0.007763

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.36 620.3 0.4523 0.2562 0.03826 0.07730 0.3195 0.2693
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2577 0.8383 0.1614 0.01048 0.4051 0.9990
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9254 0.3362 0.003895 0.9830 0.02360 0.07869

mode bi ep g mu pl mt ru q H2O
0.2869 0.03491 0.005385 0.1454 0.1890 0 0.004104 0.3263 0.007901

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.40 621.3 0.4517 0.2572 0.03846 0.07765 0.3184 0.2697
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2580 0.8377 0.1616 0.01058 0.4048 0.9990
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9237 0.3356 0.003961 0.9828 0.02368 0.07814

mode bi ep g mu pl mt ru q H2O
0.2866 0.03476 0.005838 0.1450 0.1896 0 0.004094 0.3262 0.008040

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.44 622.4 0.4511 0.2583 0.03867 0.07800 0.3174 0.2701
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2583 0.8370 0.1619 0.01068 0.4046 0.9990
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9219 0.3349 0.004028 0.9827 0.02375 0.07760

mode bi ep g mu pl mt ru q H2O
0.2862 0.03460 0.006299 0.1445 0.1901 0 0.004084 0.3260 0.008179

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.48 623.4 0.4504 0.2593 0.03887 0.07835 0.3164 0.2705
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2586 0.8364 0.1621 0.01079 0.4043 0.9990
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9201 0.3342 0.004096 0.9826 0.02383 0.07707

mode bi ep g mu pl mt ru q H2O
0.2859 0.03444 0.006767 0.1440 0.1906 0 0.004074 0.3259 0.008318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.52 624.4 0.4498 0.2603 0.03908 0.07870 0.3154 0.2709
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2589 0.8357 0.1624 0.01089 0.4041 0.9989
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9183 0.3334 0.004164 0.9825 0.02390 0.07654

mode bi ep g mu pl mt ru q H2O
0.2855 0.03429 0.007243 0.1436 0.1911 0 0.004064 0.3258 0.008457

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.56 625.5 0.4491 0.2613 0.03929 0.07905 0.3144 0.2713
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2592 0.8350 0.1627 0.01099 0.4038 0.9989
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9163 0.3327 0.004233 0.9824 0.02397 0.07601

mode bi ep g mu pl mt ru q H2O
0.2851 0.03413 0.007727 0.1431 0.1916 0 0.004055 0.3257 0.008596

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 626.5 0.4484 0.2622 0.03949 0.07940 0.3134 0.2717
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2595 0.8344 0.1629 0.01110 0.4035 0.9989
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9143 0.3320 0.004303 0.9823 0.02404 0.07549

mode bi ep g mu pl mt ru q H2O
0.2847 0.03398 0.008220 0.1427 0.1921 0 0.004045 0.3255 0.008736

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.64 627.5 0.4477 0.2632 0.03970 0.07975 0.3125 0.2721
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2598 0.8337 0.1632 0.01121 0.4032 0.9988
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9122 0.3312 0.004374 0.9822 0.02411 0.07498

mode bi ep g mu pl mt ru q H2O
0.2843 0.03382 0.008723 0.1422 0.1926 0 0.004036 0.3254 0.008877

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.68 628.6 0.4470 0.2641 0.03991 0.08010 0.3116 0.2726
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2601 0.8330 0.1635 0.01132 0.4029 0.9988
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9100 0.3305 0.004445 0.9821 0.02417 0.07447

mode bi ep g mu pl mt ru q H2O
0.2839 0.03367 0.009236 0.1418 0.1931 0 0.004027 0.3253 0.009018

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.72 629.6 0.4463 0.2649 0.04012 0.08045 0.3107 0.2730
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2604 0.8323 0.1638 0.01143 0.4026 0.9988
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9077 0.3297 0.004517 0.9820 0.02424 0.07396

mode bi ep g mu pl mt ru q H2O
0.2834 0.03351 0.009760 0.1414 0.1936 0 0.004018 0.3251 0.009159

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.76 630.6 0.4456 0.2658 0.04033 0.08080 0.3098 0.2734
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2607 0.8316 0.1640 0.01154 0.4023 0.9987
na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
0.9054 0.3289 0.004589 0.9819 0.02430 0.07346

mode bi ep g mu pl mt ru q H2O
0.2830 0.03336 0.01030 0.1410 0.1941 0 0.004010 0.3250 0.009301

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.80 631.6 0.4448 0.2666 0.04054 0.08114 0.3090 0.2738
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2610 0.8309 0.1643 0.01165 0.4019 0.9987
 na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
 0.9029 0.3281 0.004662 0.9818 0.02436 0.07297

mode bi ep g mu pl mt ru q H2O
 0.2825 0.03320 0.01084 0.1405 0.1946 0 0.004001 0.3248 0.009444

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.84 632.6 0.4441 0.2673 0.04075 0.08149 0.3081 0.2743
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2613 0.8302 0.1646 0.01176 0.4016 0.9987
 na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
 0.9003 0.3273 0.004736 0.9816 0.02442 0.07248

mode bi ep g mu pl mt ru q H2O
 0.2820 0.03305 0.01141 0.1401 0.1951 0 0.003993 0.3246 0.009587

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.88 633.7 0.4433 0.2681 0.04096 0.08183 0.3074 0.2747
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2617 0.8295 0.1649 0.01188 0.4012 0.9986
 na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
 0.8976 0.3264 0.004810 0.9815 0.02448 0.07199

mode bi ep g mu pl mt ru q H2O
 0.2815 0.03290 0.01198 0.1398 0.1956 0 0.003986 0.3245 0.009732

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.92 634.7 0.4425 0.2687 0.04118 0.08218 0.3066 0.2751
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2620 0.8288 0.1652 0.01200 0.4008 0.9986
 na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
 0.8948 0.3256 0.004884 0.9814 0.02453 0.07151

mode bi ep g mu pl mt ru q H2O
 0.2810 0.03274 0.01258 0.1394 0.1961 0 0.003978 0.3243 0.009877

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.96 635.7 0.4416 0.2694 0.04139 0.08252 0.3059 0.2756
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2623 0.8281 0.1655 0.01211 0.4004 0.9985
 na(mu) ca(pl) k(pl) x(mt) y(mt) z(mt)
 0.8918 0.3247 0.004959 0.9813 0.02458 0.07103

mode bi ep g mu pl mt ru q H2O
 0.2805 0.03259 0.01319 0.1390 0.1967 0 0.003971 0.3241 0.01002

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.00    636.7  0.4408  0.2700  0.04161  0.08286  0.3052  0.2760
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2626  0.8273  0.1658  0.01223  0.3999  0.9985
          na(mu) ca(pl)  k(pl)  x(mt)  y(mt)  z(mt)
          0.8887  0.3237  0.005034  0.9812  0.02463  0.07056

mode     bi    ep    g    mu    pl    mt    ru    q    H2O
0.2799  0.03243  0.01382  0.1386  0.1972    0 0.003964  0.3239  0.01017
calcs use:

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composition (from script)
H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197
<=====>
phases : bi, ep, st, g, mu, pl, ru, q, H2O

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.56     593.0  0.4595  0.2541  0.06038  0.06770  0.3214  0.3363
          Q(ep)  x(st)  x(g)   z(g)   f(g)  fe(mu)
          0.3159  0.8337  0.8409  0.1074  0.008278  0.4031
          y(mu)  na(mu)  ca(pl)  k(pl)   bi   ep
          0.9996  0.9549  0.3905  0.002095  0.2941  0.01858

mode     bi    ep    st    g    mu    pl    ru    q    H2O
0.2941  0.01858    0.0001551  0.1349  0.2117  0.004405  0.3266  0.009597

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.60     593.8  0.4592  0.2549  0.06019  0.06797  0.3207  0.3357
          Q(ep)  x(st)  x(g)   z(g)   f(g)  fe(mu)
          0.3153  0.8332  0.8406  0.1081  0.008334  0.4031
          y(mu)  na(mu)  ca(pl)  k(pl)   bi   ep
          0.9996  0.9543  0.3897  0.002130  0.2939  0.01871

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mode     bi    ep    st    g    mu    pl    ru    q    H2O
0.2939  0.01871    0.0003501  0.1347  0.2118  0.004395  0.3266  0.009643

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.64     594.7  0.4589  0.2557  0.06000  0.06825  0.3200  0.3350
          Q(ep)  x(st)  x(g)   z(g)   f(g)  fe(mu)
          0.3147  0.8327  0.8403  0.1087  0.008391  0.4031
          y(mu)  na(mu)  ca(pl)  k(pl)   bi   ep
          0.9995  0.9536  0.3889  0.002165  0.2937  0.01883

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```

mode     bi    ep    st    g    mu    pl    ru    q    H2O
0.2937  0.01883    0.0005473  0.1345  0.2118  0.004386  0.3266  0.009689

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.68     595.6  0.4586  0.2565  0.05981  0.06853  0.3193  0.3344
          Q(ep)  x(st)  x(g)   z(g)   f(g)  fe(mu)

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0.3141 0.8322 0.8399 0.1093 0.008449 0.4031
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9529 0.3881 0.002201 0.2936 0.01895

mode bi ep st g mu pl ru q H2O
0.2936 0.01895 00.0007467 0.1343 0.2118 0.004376 0.3265 0.009736

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.72 596.4 0.4584 0.2573 0.05963 0.06880 0.3186 0.3337
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3135 0.8317 0.8396 0.1099 0.008508 0.4031
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9522 0.3873 0.002237 0.2934 0.01907

mode bi ep st g mu pl ru q H2O
0.2934 0.01907 00.0009484 0.1341 0.2118 0.004367 0.3265 0.009783

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.76 597.3 0.4581 0.2581 0.05945 0.06908 0.3178 0.3331
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3129 0.8312 0.8392 0.1106 0.008567 0.4031
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9515 0.3865 0.002274 0.2932 0.01919

mode bi ep st g mu pl ru q H2O
0.2932 0.01919 0 0.001152 0.1340 0.2118 0.004357 0.3265 0.009830

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.80 598.1 0.4578 0.2589 0.05927 0.06936 0.3171 0.3325
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3123 0.8307 0.8389 0.1112 0.008626 0.4031
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9508 0.3857 0.002311 0.2931 0.01930

mode bi ep st g mu pl ru q H2O
0.2931 0.01930 0 0.001359 0.1338 0.2118 0.004348 0.3264 0.009879

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.84 599.0 0.4575 0.2597 0.05910 0.06964 0.3164 0.3318
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3118 0.8302 0.8386 0.1118 0.008686 0.4030
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9500 0.3848 0.002349 0.2929 0.01942

mode bi ep st g mu pl ru q H2O
0.2929 0.01942 0 0.001568 0.1336 0.2119 0.004338 0.3264 0.009927

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.88 599.9 0.4572 0.2605 0.05892 0.06992 0.3157 0.3312
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.3112 0.8297 0.8382 0.1124 0.008747 0.4030
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9493 0.3840 0.002388 0.2927 0.01953

mode bi ep st g mu pl ru q H2O
0.2927 0.01953 0 0.001779 0.1334 0.2119 0.004329 0.3263 0.009976

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.92 600.7 0.4569 0.2613 0.05876 0.07020 0.3150 0.3306
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3106 0.8292 0.8379 0.1131 0.008809 0.4030
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9485 0.3832 0.002427 0.2925 0.01965

mode bi ep st g mu pl ru q H2O
0.2925 0.01965 0 0.001993 0.1333 0.2119 0.004319 0.3263 0.01003

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.96 601.6 0.4566 0.2620 0.05859 0.07048 0.3143 0.3300
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3101 0.8286 0.8375 0.1137 0.008871 0.4030
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9477 0.3824 0.002466 0.2924 0.01976

mode bi ep st g mu pl ru q H2O
0.2924 0.01976 0 0.002209 0.1331 0.2119 0.004310 0.3263 0.01008

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.00 602.5 0.4562 0.2628 0.05843 0.07076 0.3136 0.3294
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3095 0.8281 0.8372 0.1143 0.008934 0.4029
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9469 0.3815 0.002507 0.2922 0.01987

mode bi ep st g mu pl ru q H2O
0.2922 0.01987 0 0.002429 0.1329 0.2120 0.004300 0.3262 0.01013

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.04 603.3 0.4559 0.2636 0.05827 0.07105 0.3129 0.3288
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3090 0.8276 0.8368 0.1149 0.008997 0.4029
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9995 0.9461 0.3807 0.002547 0.2920 0.01998

mode bi ep st g mu pl ru q H2O
0.2920 0.01998 0 0.002651 0.1327 0.2120 0.004291 0.3262 0.01018

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.08 604.2 0.4556 0.2644 0.05812 0.07133 0.3122 0.3282
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.3085 0.8271 0.8365 0.1156 0.009061 0.4029
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9994 0.9452 0.3799 0.002589 0.2918 0.02008

mode bi ep st g mu pl ru q H2O
0.2918 0.02008 0 0.002876 0.1325 0.2120 0.004281 0.3262 0.01023

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.12 605.1 0.4553 0.2651 0.05797 0.07161 0.3115 0.3277
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3079 0.8266 0.8361 0.1162 0.009126 0.4028
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9994 0.9444 0.3791 0.002631 0.2916 0.02019

mode bi ep st g mu pl ru q H2O
0.2916 0.02019 0 0.003104 0.1324 0.2121 0.004272 0.3261 0.01028

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.16 605.9 0.4550 0.2659 0.05782 0.07190 0.3108 0.3271
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3074 0.8261 0.8357 0.1168 0.009192 0.4028
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9994 0.9435 0.3782 0.002674 0.2914 0.02029

mode bi ep st g mu pl ru q H2O
0.2914 0.02029 0 0.003335 0.1322 0.2121 0.004263 0.3261 0.01033

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.20 606.8 0.4546 0.2667 0.05767 0.07218 0.3101 0.3266
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3069 0.8255 0.8354 0.1174 0.009258 0.4028
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9994 0.9426 0.3774 0.002717 0.2912 0.02039

mode bi ep st g mu pl ru q H2O
0.2912 0.02039 0 0.003569 0.1320 0.2122 0.004253 0.3260 0.01039

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.24 607.7 0.4543 0.2674 0.05753 0.07247 0.3094 0.3260
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3064 0.8250 0.8350 0.1181 0.009325 0.4027
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9994 0.9416 0.3766 0.002761 0.2910 0.02049

mode bi ep st g mu pl ru q H2O
0.2910 0.02049 0 0.003807 0.1318 0.2122 0.004244 0.3260 0.01044

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.28 608.5 0.4539 0.2682 0.05740 0.07276 0.3087 0.3255
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.3059 0.8245 0.8347 0.1187 0.009393 0.4027
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9994 0.9407 0.3757 0.002805 0.2908 0.02059

mode bi ep st g mu pl ru q H2O
0.2908 0.02059 0 0.004048 0.1316 0.2122 0.004235 0.3259 0.01050

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.32 609.4 0.4536 0.2689 0.05726 0.07304 0.3080 0.3249
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3054 0.8239 0.8343 0.1193 0.009461 0.4026
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9994 0.9397 0.3749 0.002850 0.2906 0.02069

mode bi ep st g mu pl ru q H2O
0.2906 0.02069 0 0.004292 0.1314 0.2123 0.004225 0.3259 0.01055

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.36 610.3 0.4533 0.2696 0.05713 0.07333 0.3073 0.3244
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3049 0.8234 0.8339 0.1199 0.009531 0.4026
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9994 0.9387 0.3740 0.002896 0.2904 0.02078

mode bi ep st g mu pl ru q H2O
0.2904 0.02078 0 0.004541 0.1313 0.2124 0.004216 0.3258 0.01061

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.40 611.1 0.4529 0.2704 0.05701 0.07362 0.3066 0.3239
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3044 0.8229 0.8335 0.1206 0.009601 0.4025
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9994 0.9377 0.3732 0.002943 0.2902 0.02088

mode bi ep st g mu pl ru q H2O
0.2902 0.02088 0 0.004792 0.1311 0.2124 0.004207 0.3258 0.01066

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.44 612.0 0.4525 0.2711 0.05688 0.07391 0.3060 0.3234
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3039 0.8223 0.8332 0.1212 0.009672 0.4024
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9993 0.9366 0.3724 0.002990 0.2900 0.02097

mode bi ep st g mu pl ru q H2O
0.2900 0.02097 0 0.005048 0.1309 0.2125 0.004198 0.3257 0.01072

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.48 612.9 0.4522 0.2718 0.05677 0.07420 0.3053 0.3229
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.3034 0.8218 0.8328 0.1218 0.009743 0.4024
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9993 0.9356 0.3715 0.003038 0.2897 0.02105

mode bi ep st g mu pl ru q H2O
0.2897 0.02105 0 0.005308 0.1307 0.2125 0.004188 0.3257 0.01078

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.52 613.8 0.4518 0.2726 0.05665 0.07449 0.3046 0.3224
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3030 0.8212 0.8324 0.1224 0.009816 0.4023
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9993 0.9345 0.3707 0.003086 0.2895 0.02114

mode bi ep st g mu pl ru q H2O
0.2895 0.02114 0 0.005572 0.1305 0.2126 0.004179 0.3256 0.01084

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.56 614.6 0.4514 0.2733 0.05654 0.07478 0.3039 0.3220
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3025 0.8207 0.8320 0.1230 0.009889 0.4022
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9993 0.9333 0.3698 0.003135 0.2893 0.02123

mode bi ep st g mu pl ru q H2O
0.2893 0.02123 0 0.005841 0.1303 0.2127 0.004170 0.3256 0.01090

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.60 615.5 0.4510 0.2740 0.05643 0.07507 0.3033 0.3215
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3021 0.8201 0.8316 0.1237 0.009963 0.4022
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9993 0.9322 0.3690 0.003185 0.2891 0.02131

mode bi ep st g mu pl ru q H2O
0.2891 0.02131 0 0.006114 0.1302 0.2128 0.004161 0.3255 0.01096

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.64 616.4 0.4507 0.2747 0.05633 0.07536 0.3026 0.3210
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3016 0.8196 0.8312 0.1243 0.01004 0.4021
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9993 0.9310 0.3681 0.003236 0.2888 0.02139

mode bi ep st g mu pl ru q H2O
0.2888 0.02139 0 0.006392 0.1300 0.2128 0.004152 0.3254 0.01102

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.68 617.3 0.4503 0.2754 0.05624 0.07566 0.3019 0.3206
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.3012 0.8190 0.8308 0.1249 0.01011 0.4020
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9993 0.9297 0.3673 0.003287 0.2886 0.02147

mode bi ep st g mu pl ru q H2O
0.2886 0.02147 0 0.006675 0.1298 0.2129 0.004143 0.3254 0.01108

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.72 618.2 0.4499 0.2761 0.05614 0.07595 0.3013 0.3202
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3008 0.8185 0.8304 0.1255 0.01019 0.4019
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9992 0.9285 0.3664 0.003339 0.2883 0.02154

mode bi ep st g mu pl ru q H2O
0.2883 0.02154 0 0.006963 0.1296 0.2130 0.004134 0.3253 0.01115

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.76 619.0 0.4495 0.2767 0.05605 0.07625 0.3006 0.3198
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3004 0.8179 0.8300 0.1261 0.01027 0.4018
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9992 0.9271 0.3656 0.003391 0.2881 0.02161

mode bi ep st g mu pl ru q H2O
0.2881 0.02161 0 0.007257 0.1294 0.2131 0.004125 0.3252 0.01121

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.80 619.9 0.4490 0.2774 0.05597 0.07654 0.3000 0.3194
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.3000 0.8173 0.8296 0.1267 0.01035 0.4017
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9992 0.9258 0.3647 0.003445 0.2878 0.02168

mode bi ep st g mu pl ru q H2O
0.2878 0.02168 0 0.007557 0.1292 0.2132 0.004116 0.3252 0.01128

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.84 620.8 0.4486 0.2781 0.05589 0.07684 0.2993 0.3190
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2996 0.8168 0.8292 0.1273 0.01043 0.4016
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9992 0.9244 0.3638 0.003499 0.2875 0.02175

mode bi ep st g mu pl ru q H2O
0.2875 0.02175 0 0.007862 0.1290 0.2133 0.004107 0.3251 0.01134

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.88 621.7 0.4482 0.2787 0.05582 0.07714 0.2987 0.3186
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.2992 0.8162 0.8287 0.1279 0.01051 0.4015
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9992 0.9230 0.3630 0.003554 0.2872 0.02182

mode bi ep st g mu pl ru q H2O
0.2872 0.02182 0 0.008174 0.1288 0.2134 0.004099 0.3250 0.01141

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.92 622.6 0.4477 0.2794 0.05575 0.07743 0.2980 0.3182
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2988 0.8156 0.8283 0.1285 0.01059 0.4014
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9991 0.9215 0.3621 0.003609 0.2870 0.02188

mode bi ep st g mu pl ru q H2O
0.2870 0.02188 0 0.008492 0.1286 0.2135 0.004090 0.3249 0.01148

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.96 623.5 0.4473 0.2800 0.05569 0.07773 0.2974 0.3179
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2985 0.8150 0.8279 0.1291 0.01067 0.4012
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9991 0.9200 0.3612 0.003665 0.2867 0.02193

mode bi ep st g mu pl ru q H2O
0.2867 0.02193 0 0.008818 0.1284 0.2136 0.004081 0.3249 0.01155

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.00 624.4 0.4468 0.2807 0.05563 0.07803 0.2968 0.3175
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2981 0.8144 0.8274 0.1297 0.01076 0.4011
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9991 0.9184 0.3603 0.003722 0.2864 0.02199

mode bi ep st g mu pl ru q H2O
0.2864 0.02199 0 0.009151 0.1282 0.2138 0.004073 0.3248 0.01162

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.04 625.2 0.4464 0.2813 0.05558 0.07833 0.2962 0.3172
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2978 0.8138 0.8270 0.1303 0.01084 0.4010
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9991 0.9167 0.3595 0.003780 0.2861 0.02204

mode bi ep st g mu pl ru q H2O
0.2861 0.02204 0 0.009491 0.1280 0.2139 0.004064 0.3247 0.01170

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.08 626.1 0.4459 0.2819 0.05554 0.07863 0.2955 0.3169
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.2975 0.8132 0.8265 0.1309 0.01093 0.4008
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9991 0.9150 0.3586 0.003839 0.2858 0.02209

mode bi ep st g mu pl ru q H2O
0.2858 0.02209 0 0.009840 0.1278 0.2140 0.004056 0.3246 0.01177

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.12 627.0 0.4454 0.2825 0.05550 0.07894 0.2949 0.3166
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2972 0.8126 0.8261 0.1315 0.01102 0.4006
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9990 0.9133 0.3577 0.003898 0.2854 0.02213

mode bi ep st g mu pl ru q H2O
0.2854 0.02213 0 0.01020 0.1276 0.2142 0.004048 0.3245 0.01185

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.16 627.9 0.4449 0.2831 0.05547 0.07924 0.2943 0.3163
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2969 0.8120 0.8256 0.1321 0.01111 0.4005
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9990 0.9114 0.3568 0.003958 0.2851 0.02218

mode bi ep st g mu pl ru q H2O
0.2851 0.02218 0 0.01057 0.1274 0.2143 0.004039 0.3244 0.01193

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.20 628.8 0.4443 0.2837 0.05544 0.07954 0.2937 0.3161
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2966 0.8113 0.8251 0.1326 0.01120 0.4003
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9990 0.9095 0.3559 0.004019 0.2847 0.02221

mode bi ep st g mu pl ru q H2O
0.2847 0.02221 0 0.01094 0.1272 0.2145 0.004031 0.3243 0.01201

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.24 629.7 0.4438 0.2842 0.05543 0.07985 0.2931 0.3158
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2963 0.8107 0.8246 0.1332 0.01129 0.4001
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9990 0.9075 0.3550 0.004080 0.2844 0.02225

mode bi ep st g mu pl ru q H2O
0.2844 0.02225 0 0.01133 0.1270 0.2147 0.004023 0.3242 0.01209

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.28 630.6 0.4433 0.2848 0.05542 0.08016 0.2925 0.3156
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.2961 0.8101 0.8241 0.1338 0.01138 0.3999
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9989 0.9055 0.3540 0.004142 0.2840 0.02227

mode bi ep st g mu pl ru q H2O
0.2840 0.02227 0 0.01173 0.1268 0.2149 0.004015 0.3241 0.01217

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.32 631.5 0.4427 0.2853 0.05542 0.08046 0.2920 0.3154
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2958 0.8094 0.8236 0.1343 0.01148 0.3997
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9989 0.9033 0.3531 0.004205 0.2836 0.02230

mode bi ep st g mu pl ru q H2O
0.2836 0.02230 0 0.01214 0.1266 0.2150 0.004008 0.3240 0.01226

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.36 632.4 0.4421 0.2858 0.05543 0.08077 0.2914 0.3153
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2956 0.8087 0.8231 0.1349 0.01157 0.3995
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9989 0.9010 0.3522 0.004269 0.2832 0.02232

mode bi ep st g mu pl ru q H2O
0.2832 0.02232 0 0.01257 0.1264 0.2152 0.004000 0.3239 0.01235

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.40 633.3 0.4415 0.2864 0.05545 0.08108 0.2908 0.3151
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2954 0.8081 0.8225 0.1354 0.01167 0.3992
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9988 0.8987 0.3513 0.004333 0.2828 0.02233

mode bi ep st g mu pl ru q H2O
0.2828 0.02233 0 0.01301 0.1262 0.2155 0.003993 0.3237 0.01244

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.44 634.3 0.4409 0.2868 0.05548 0.08139 0.2903 0.3150
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2953 0.8074 0.8220 0.1359 0.01177 0.3989
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9988 0.8962 0.3503 0.004398 0.2824 0.02234

mode bi ep st g mu pl ru q H2O
0.2824 0.02234 0 0.01346 0.1260 0.2157 0.003985 0.3236 0.01253

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.48 635.2 0.4402 0.2873 0.05552 0.08170 0.2897 0.3149
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.2951 0.8067 0.8214 0.1365 0.01187 0.3987
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9988 0.8936 0.3493 0.004464 0.2820 0.02234

mode bi ep st g mu pl ru q H2O
0.2820 0.02234 0 0.01394 0.1258 0.2159 0.003978 0.3235 0.01263

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.52 636.1 0.4395 0.2877 0.05557 0.08201 0.2892 0.3148
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2950 0.8059 0.8208 0.1370 0.01197 0.3984
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9987 0.8908 0.3484 0.004530 0.2815 0.02233

mode bi ep st g mu pl ru q H2O
0.2815 0.02233 0 0.01443 0.1256 0.2162 0.003972 0.3233 0.01273

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.56 637.0 0.4388 0.2882 0.05563 0.08233 0.2887 0.3148
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2949 0.8052 0.8202 0.1375 0.01208 0.3980
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9987 0.8879 0.3474 0.004597 0.2810 0.02232

mode bi ep st g mu pl ru q H2O
0.2810 0.02232 0 0.01494 0.1254 0.2164 0.003965 0.3231 0.01284

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 637.9 0.4381 0.2886 0.05571 0.08264 0.2882 0.3148
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2948 0.8045 0.8196 0.1379 0.01218 0.3977
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9986 0.8848 0.3464 0.004664 0.2805 0.02230

mode bi ep st g mu pl ru q H2O
0.2805 0.02230 0 0.01547 0.1251 0.2167 0.003959 0.3230 0.01295

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.64 638.9 0.4373 0.2889 0.05580 0.08296 0.2877 0.3148
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2947 0.8037 0.8189 0.1384 0.01229 0.3973
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9986 0.8815 0.3453 0.004732 0.2799 0.02227

mode bi ep st g mu pl ru q H2O
0.2799 0.02227 0 0.01603 0.1249 0.2170 0.003953 0.3228 0.01306

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.68 639.8 0.4365 0.2893 0.05591 0.08328 0.2873 0.3149
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.2947 0.8029 0.8183 0.1389 0.01240 0.3969
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9985 0.8780 0.3443 0.004801 0.2793 0.02224

mode bi ep st g mu pl ru q H2O
0.2793 0.02224 0 0.01662 0.1247 0.2174 0.003947 0.3226 0.01318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.72 640.7 0.4356 0.2895 0.05604 0.08360 0.2868 0.3150
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2947 0.8021 0.8175 0.1393 0.01252 0.3965
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9985 0.8742 0.3432 0.004870 0.2787 0.02219

mode bi ep st g mu pl ru q H2O
0.2787 0.02219 0 0.01724 0.1245 0.2177 0.003942 0.3224 0.01330

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.76 641.6 0.4347 0.2898 0.05620 0.08392 0.2864 0.3151
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2948 0.8012 0.8168 0.1397 0.01263 0.3960
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9984 0.8702 0.3421 0.004939 0.2781 0.02214

mode bi ep st g mu pl ru q H2O
0.2781 0.02214 0 0.01790 0.1242 0.2181 0.003937 0.3222 0.01343

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 642.6 0.4337 0.2900 0.05637 0.08424 0.2860 0.3154
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2948 0.8004 0.8160 0.1401 0.01275 0.3954
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9983 0.8658 0.3410 0.005008 0.2774 0.02207

mode bi ep st g mu pl ru q H2O
0.2774 0.02207 0 0.01860 0.1240 0.2185 0.003933 0.3219 0.01357

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.84 643.5 0.4327 0.2901 0.05657 0.08456 0.2857 0.3156
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2950 0.7994 0.8152 0.1404 0.01287 0.3948
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9982 0.8610 0.3398 0.005077 0.2766 0.02199

mode bi ep st g mu pl ru q H2O
0.2766 0.02199 0 0.01935 0.1237 0.2190 0.003929 0.3217 0.01372

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.88 644.5 0.4315 0.2902 0.05681 0.08489 0.2854 0.3160
Q(ep) x(st) x(g) z(g) f(g) fe(mu)

0.2952 0.7985 0.8143 0.1407 0.01300 0.3942
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9981 0.8558 0.3386 0.005146 0.2758 0.02189

mode bi ep st g mu pl ru q H2O
0.2758 0.02189 0 0.02016 0.1235 0.2195 0.003927 0.3214 0.01388

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.92 645.4 0.4303 0.2902 0.05708 0.08521 0.2851 0.3164
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2954 0.7974 0.8133 0.1410 0.01313 0.3934
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9980 0.8500 0.3373 0.005214 0.2749 0.02178

mode bi ep st g mu pl ru q H2O
0.2749 0.02178 0 0.02103 0.1232 0.2200 0.003925 0.3211 0.01405

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.96 646.3 0.4289 0.2901 0.05739 0.08554 0.2849 0.3169
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2958 0.7964 0.8123 0.1412 0.01326 0.3926
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9979 0.8436 0.3359 0.005281 0.2739 0.02165

mode bi ep st g mu pl ru q H2O
0.2739 0.02165 0 0.02199 0.1229 0.2206 0.003924 0.3208 0.01423

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 647.3 0.4274 0.2899 0.05775 0.08587 0.2847 0.3176
Q(ep) x(st) x(g) z(g) f(g) fe(mu)
0.2962 0.7952 0.8112 0.1414 0.01339 0.3916
y(mu) na(mu) ca(pl) k(pl) bi ep
0.9978 0.8364 0.3345 0.005347 0.2728 0.02149

mode bi ep st g mu pl ru q H2O
0.2728 0.02149 0 0.02305 0.1227 0.2213 0.003925 0.3204 0.01443

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, mt, ilm, ru, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, mt, ilm, ru, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, st, g, mu, pl, mt, ilm, ru, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, st, g, mu, pl, mt, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.49	607.0	0.4519	0.2792	0.03651	0.07343	0.3119	0.2553
	Q(ep)	x(st)	x(g)	z(g)	f(g)	fe(mu)	
	0.2460	0.8216	0.8372	0.1443	0.007544	0.3962	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(mt)	y(mt)	
	0.9993	0.9303	0.4174	0.002605	0.9833	0.02668	
	z(mt)						
	0.0836						

mode	bi	ep	st	g	mu	pl	mt	ru	q	H2O
	0.2895	0.001890	0	0	0.1215	0.2398	0.005278	0.004103	0.3244	0.01354

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, st, g, mu, pl, mt, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.13	622.6	0.4443	0.2892	0.03927	0.07848	0.2996	0.2628
	Q(ep)	x(st)	x(g)	z(g)	f(g)	fe(mu)	
	0.2518	0.8117	0.8291	0.1501	0.009032	0.3951	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(mt)	y(mt)	
	0.9990	0.9049	0.3936	0.003476	0.9819	0.02726	
	z(mt)						
	0.07595						

mode	bi	ep	st	g	mu	pl	mt	ru	ky	q	H2O
	0.2848	0.007324	0	0.006577	0.1203	0.2353	0.004204	0.003987	0	0.3235	0.01407

ccalcs use:

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

phases : bi, ep, g, mu, pl, ilm, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.52	625.3	0.4360	0.2922	0.02446	0.09063	0.3003	0.1963
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1909	0.8291	0.1794	0.007467	0.3882	0.9987	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8862	0.4109	0.003492	0.7063	4.826e-5	0.2815	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2815	0.002357	0.1184	0.2467	0.011850	0.0004589	0.3230	0.01565	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.56	626.2	0.4357	0.2922	0.02452	0.09095	0.3000	0.1967
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1912	0.8289	0.1801	0.007561	0.3883	0.9987	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8835	0.4087	0.003554	0.7059	-4.842e-5	0.2813	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2813	0.002611	0.1168	0.2479	0.011820	0.0009914	0.3227	0.01595	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.60	627.0	0.4354	0.2921	0.02459	0.09128	0.2997	0.1970
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1915	0.8286	0.1808	0.007656	0.3884	0.9986	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8807	0.4065	0.003616	0.7056	-4.859e-5	0.2811	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2811	0.002881	0.1151	0.2490	0.01180	0.001519	0.3223	0.01626	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.64	627.8	0.4350	0.2921	0.02465	0.09160	0.2994	0.1973
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1918	0.8283	0.1816	0.007751	0.3884	0.9986	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8777	0.4044	0.003679	0.7052	4.876e-5	0.2809	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2809	0.0003168	0.1135	0.2501	0.01178	0.002040	0.3220	0.01657	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.68	628.6	0.4346	0.2920	0.02471	0.09193	0.2991	0.1977
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1921	0.8280	0.1823	0.007848	0.3884	0.9985	

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8744 0.4022 0.003742 0.7048-4.892e-5 0.2806

mode bi ep g mu pl ilm ky q H2O
0.2806 0 0.003476 0.1120 0.2512 0.01176 0.002554 0.3216 0.01687

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.72 629.5 0.4342 0.2919 0.02478 0.09226 0.2988 0.1980
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1924 0.8276 0.1830 0.007945 0.3884 0.9985
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8709 0.4001 0.003806 0.7045-4.909e-5 0.2803

mode bi ep g mu pl ilm ky q H2O
0.2803 0 0.003809 0.1104 0.2522 0.01173 0.003057 0.3213 0.01718

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.76 630.3 0.4337 0.2918 0.02485 0.09260 0.2986 0.1983
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1926 0.8273 0.1837 0.008042 0.3883 0.9984
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8671 0.3980 0.003870 0.7042-4.925e-5 0.2800

mode bi ep g mu pl ilm ky q H2O
0.2800 0 0.004171 0.1089 0.2533 0.01171 0.003547 0.3209 0.01748

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 631.1 0.4332 0.2916 0.02491 0.09293 0.2984 0.1986
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1929 0.8269 0.1844 0.008140 0.3882 0.9983
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8630 0.3958 0.003933 0.7039-4.941e-5 0.2796

mode bi ep g mu pl ilm ky q H2O
0.2796 0 0.004569 0.1075 0.2543 0.01169 0.004022 0.3206 0.01777

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.84 631.9 0.4327 0.2914 0.02498 0.09327 0.2982 0.1989
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1931 0.8264 0.1851 0.008238 0.3881 0.9983
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8585 0.3937 0.003996 0.7036-4.957e-5 0.2792

mode bi ep g mu pl ilm ky q H2O
0.2792 0 0.005012 0.1061 0.2553 0.01168 0.004477 0.3202 0.01806

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.88 632.7 0.4320 0.2911 0.02505 0.09362 0.2981 0.1992
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1934 0.8260 0.1858 0.008336 0.3878 0.9982

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8535 0.3916 0.004059 0.7033-4.972e-5 0.2787

mode bi ep g mu pl ilm ky q H2O
0.2787 0 0.005509 0.1048 0.2562 0.01166 0.004907 0.3198 0.01835

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.92 633.5 0.4312 0.2908 0.02512 0.09397 0.2980 0.1995
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1936 0.8255 0.1865 0.008434 0.3875 0.9981
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8479 0.3896 0.004120 0.7031-4.986e-5 0.2782

mode bi ep g mu pl ilm ky q H2O
0.2782 0 0.006075 0.1036 0.2571 0.01164 0.005305 0.3194 0.01863

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.96 634.3 0.4303 0.2904 0.02519 0.09433 0.2980 0.1997
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1938 0.8249 0.1872 0.008530 0.3871 0.9980
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8416 0.3875 0.004180 0.7030-5.000e-5 0.2775

mode bi ep g mu pl ilm ky q H2O
0.2775 0 0.006729 0.1026 0.2579 0.01163 0.005662 0.3190 0.01889

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 635.1 0.4293 0.2899 0.02527 0.09470 0.2981 0.2000
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1940 0.8242 0.1879 0.008626 0.3865 0.9978
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8344 0.3854 0.004237 0.7029-5.012e-5 0.2768

mode bi ep g mu pl ilm ky q H2O
0.2768 0 0.007496 0.1017 0.2587 0.01162 0.005966 0.3186 0.01914

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, mu, pl, ilm, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.00 530.7 0.4356 0.2148 0.02300 0.07551 0.3909 0.1987
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1955 0.3570 0.9994 0.8476 0.4286 0.002327
x(ilm) Q(ilm)
0.7337-3.585e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2755	0	0.1396	0.2382	0.01328	0.3207	0.01268

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.04	531.8	0.4356	0.2159	0.02302	0.07570	0.3896	0.1987
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1954	0.3574	0.9994	0.8482	0.4284	0.002340
		x(ilm)	Q(ilm)				
		0.7334	-3.596e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2756	0	0.1393	0.2383	0.01326	0.3207	0.01271

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.08	532.9	0.4356	0.2170	0.02304	0.07589	0.3883	0.1986
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1953	0.3578	0.9994	0.8489	0.4283	0.002353
		x(ilm)	Q(ilm)				
		0.7331	-3.607e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2757	0	0.1391	0.2384	0.01324	0.3208	0.01275

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.12	534.0	0.4357	0.2181	0.02306	0.07607	0.3871	0.1985
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1952	0.3582	0.9994	0.8495	0.4281	0.002365
		x(ilm)	Q(ilm)				
		0.7328	-3.617e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2759	0	0.1388	0.2385	0.01322	0.3208	0.01278

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.16	535.1	0.4357	0.2192	0.02309	0.07626	0.3858	0.1984
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1951	0.3587	0.9994	0.8501	0.4279	0.002378
		x(ilm)	Q(ilm)				
		0.7325	-3.628e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2760	0	0.1386	0.2386	0.01320	0.3209	0.01281

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.20	536.2	0.4358	0.2202	0.02311	0.07645	0.3845	0.1984
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1951	0.3591	0.9994	0.8507	0.4278	0.002391
		x(ilm)	Q(ilm)				
		0.7322	-3.639e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2761	0	0.1383	0.2387	0.01319	0.3209	0.01284

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.24	537.3	0.4358	0.2213	0.02313	0.07663	0.3832	0.1983
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1950	0.3595	0.9994	0.8514	0.4276	0.002404
		x(ilm)	Q(ilm)				
		0.7319	-3.650e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2762	0	0.1380	0.2388	0.01317	0.3210	0.01287

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.28	538.4	0.4359	0.2224	0.02315	0.07681	0.3820	0.1982
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1949	0.3599	0.9994	0.8520	0.4274	0.002416
		x(ilm)	Q(ilm)				
		0.7316	-3.661e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2763	0	0.1378	0.2389	0.01315	0.3210	0.01290

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.32	539.5	0.4359	0.2234	0.02317	0.07700	0.3807	0.1981
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1948	0.3603	0.9994	0.8526	0.4273	0.002429
		x(ilm)	Q(ilm)				
		0.7313	-3.673e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2764	0	0.1375	0.2390	0.01313	0.3210	0.01293

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.36	540.6	0.4360	0.2245	0.02319	0.07718	0.3794	0.1981
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1947	0.3607	0.9994	0.8532	0.4271	0.002442
		x(ilm)	Q(ilm)				
		0.7310	-3.684e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2765	0	0.1373	0.2391	0.01311	0.3211	0.01297

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.40	541.7	0.4360	0.2255	0.02321	0.07736	0.3782	0.1980
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1946	0.3612	0.9994	0.8539	0.4269	0.002454
		x(ilm)	Q(ilm)				
		0.7307	-3.695e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2766	0	0.1370	0.2391	0.01310	0.3211	0.01300

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.44	542.8	0.4361	0.2266	0.02323	0.07754	0.3770	0.1979
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1945	0.3616	0.9993	0.8545	0.4268	0.002467
		x(ilm)	Q(ilm)				
		0.7304	-3.706e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2767	0	0.1368	0.2392	0.01308	0.3212	0.01303

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.48	543.9	0.4361	0.2276	0.02325	0.07772	0.3757	0.1979
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1944	0.3620	0.9993	0.8551	0.4266	0.002479
		x(ilm)	Q(ilm)				
		0.7301	-3.718e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2768	0	0.1365	0.2393	0.01306	0.3212	0.01306

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.52	545.0	0.4362	0.2287	0.02326	0.07790	0.3745	0.1978
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1943	0.3624	0.9993	0.8558	0.4264	0.002492
		x(ilm)	Q(ilm)				
		0.7298	-3.729e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2769	0	0.1362	0.2394	0.01304	0.3213	0.01309

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.56	546.1	0.4362	0.2297	0.02328	0.07808	0.3733	0.1977
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1943	0.3628	0.9993	0.8564	0.4263	0.002505
		x(ilm)	Q(ilm)				
		0.7295	-3.741e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2770	0	0.1360	0.2395	0.01302	0.3213	0.01312

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.60	547.2	0.4363	0.2307	0.02330	0.07826	0.3721	0.1977
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1942	0.3632	0.9993	0.8570	0.4261	0.002517
		x(ilm)	Q(ilm)				
		0.7292	-3.752e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2772	0	0.1357	0.2396	0.01301	0.3213	0.01315

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.64	548.3	0.4363	0.2318	0.02332	0.07844	0.3708	0.1976
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1941	0.3636	0.9993	0.8577	0.4260	0.002530
		x(ilm)	Q(ilm)				
			0.7289-3.764e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2773	0	0.1355	0.2397	0.01299	0.3214	0.01318

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.68	549.4	0.4364	0.2328	0.02334	0.07862	0.3696	0.1976
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1940	0.3640	0.9993	0.8583	0.4258	0.002542
		x(ilm)	Q(ilm)				
			0.7286-3.776e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2774	0	0.1352	0.2398	0.01297	0.3214	0.01321

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.72	550.5	0.4364	0.2338	0.02336	0.07879	0.3684	0.1975
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1939	0.3644	0.9993	0.8589	0.4256	0.002554
		x(ilm)	Q(ilm)				
			0.7283-3.788e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2775	0	0.1350	0.2399	0.01295	0.3215	0.01324

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.76	551.6	0.4365	0.2348	0.02337	0.07897	0.3672	0.1974
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1938	0.3648	0.9993	0.8596	0.4255	0.002567
		x(ilm)	Q(ilm)				
			0.7280-3.800e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2776	0	0.1347	0.2400	0.01294	0.3215	0.01327

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.80	552.7	0.4365	0.2358	0.02339	0.07915	0.3661	0.1974
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1938	0.3652	0.9993	0.8602	0.4253	0.002579
		x(ilm)	Q(ilm)				
			0.7277-3.812e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2777	0	0.1345	0.2401	0.01292	0.3216	0.01330

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.84	553.7	0.4365	0.2368	0.02341	0.07932	0.3649	0.1973
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1937	0.3656	0.9993	0.8608	0.4252	0.002592
		x(ilm)	Q(ilm)				
			0.7274-3.824e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2778	0	0.1342	0.2401	0.01290	0.3216	0.01333

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.88	554.8	0.4366	0.2378	0.02342	0.07950	0.3637	0.1973
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1936	0.3661	0.9993	0.8615	0.4250	0.002604
		x(ilm)	Q(ilm)				
			0.7270-3.836e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2779	0	0.1340	0.2402	0.01289	0.3216	0.01336

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.92	555.9	0.4366	0.2388	0.02344	0.07967	0.3625	0.1972
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1935	0.3665	0.9993	0.8621	0.4249	0.002616
		x(ilm)	Q(ilm)				
			0.7267-3.848e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2780	0	0.1337	0.2403	0.01287	0.3217	0.01339

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.96	557.0	0.4367	0.2398	0.02346	0.07984	0.3614	0.1972
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1935	0.3669	0.9993	0.8627	0.4247	0.002628
		x(ilm)	Q(ilm)				
			0.7264-3.860e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2781	0	0.1335	0.2404	0.01285	0.3217	0.01342

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.00	558.1	0.4367	0.2408	0.02347	0.08001	0.3602	0.1971
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1934	0.3673	0.9993	0.8634	0.4245	0.002640
		x(ilm)	Q(ilm)				
			0.7261-3.872e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2782	0	0.1333	0.2405	0.01283	0.3218	0.01345

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.04	559.2	0.4368	0.2418	0.02349	0.08019	0.3591	0.1971
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1933	0.3677	0.9993	0.8640	0.4244	0.002653	
	x(ilm)	Q(ilm)					
	0.7258-3.885e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2783	0	0.1330	0.2406	0.01282	0.3218	0.01348

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.08	560.3	0.4368	0.2428	0.02350	0.08036	0.3579	0.1970
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1932	0.3681	0.9993	0.8647	0.4242	0.002665	
	x(ilm)	Q(ilm)					
	0.7255-3.897e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2784	0	0.1328	0.2407	0.01280	0.3219	0.01351

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.12	561.4	0.4369	0.2438	0.02352	0.08053	0.3568	0.1970
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1932	0.3685	0.9993	0.8653	0.4241	0.002677	
	x(ilm)	Q(ilm)					
	0.7252-3.910e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2785	0	0.1325	0.2408	0.01278	0.3219	0.01354

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.16	562.5	0.4369	0.2447	0.02353	0.08070	0.3557	0.1969
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1931	0.3689	0.9993	0.8659	0.4239	0.002689	
	x(ilm)	Q(ilm)					
	0.7249-3.923e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2786	0	0.1323	0.2408	0.01277	0.3219	0.01357

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.20	563.5	0.4370	0.2457	0.02355	0.08087	0.3545	0.1969
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1930	0.3692	0.9993	0.8666	0.4238	0.002701	
	x(ilm)	Q(ilm)					
	0.7246-3.935e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2787	0	0.1320	0.2409	0.01275	0.3220	0.01360

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.24	564.6	0.4370	0.2467	0.02356	0.08103	0.3534	0.1968
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1929	0.3696	0.9992	0.8672	0.4236	0.002712	
	x(ilm)	Q(ilm)					
	0.7243-3.948e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2788	0	0.1318	0.2410	0.01273	0.3220	0.01363

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.28	565.7	0.4370	0.2476	0.02358	0.08120	0.3523	0.1968
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1929	0.3700	0.9992	0.8678	0.4235	0.002724	
	x(ilm)	Q(ilm)					
	0.7239-3.961e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2789	0	0.1316	0.2411	0.01272	0.3221	0.01366

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.32	566.8	0.4371	0.2486	0.02359	0.08137	0.3512	0.1967
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1928	0.3704	0.9992	0.8685	0.4233	0.002736	
	x(ilm)	Q(ilm)					
	0.7236-3.974e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2790	0	0.1313	0.2412	0.01270	0.3221	0.01368

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.36	567.9	0.4371	0.2495	0.02361	0.08153	0.3501	0.1967
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1927	0.3708	0.9992	0.8691	0.4232	0.002748	
	x(ilm)	Q(ilm)					
	0.7233-3.987e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2791	0	0.1311	0.2413	0.01268	0.3221	0.01371

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.40	569.0	0.4372	0.2505	0.02362	0.08170	0.3490	0.1966
	Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	
	0.1927	0.3712	0.9992	0.8697	0.4230	0.002759	
	x(ilm)	Q(ilm)					
	0.7230-4.000e-5						

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2792	0	0.1309	0.2413	0.01267	0.3222	0.01374

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.44	570.1	0.4372	0.2514	0.02363	0.08186	0.3479	0.1966
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1926	0.3716	0.9992	0.8704	0.4229	0.002771
		x(ilm)	Q(ilm)				
		0.7227	-4.013e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2793	0	0.1306	0.2414	0.01265	0.3222	0.01377

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.48	571.1	0.4373	0.2523	0.02365	0.08203	0.3468	0.1966
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1925	0.3720	0.9992	0.8710	0.4227	0.002783
		x(ilm)	Q(ilm)				
		0.7224	-4.026e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2794	0	0.1304	0.2415	0.01263	0.3223	0.01380

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.52	572.2	0.4373	0.2533	0.02366	0.08219	0.3458	0.1965
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1925	0.3724	0.9992	0.8717	0.4226	0.002794
		x(ilm)	Q(ilm)				
		0.7221	-4.040e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2795	0	0.1302	0.2416	0.01262	0.3223	0.01383

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.56	573.3	0.4373	0.2542	0.02367	0.08235	0.3447	0.1965
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1924	0.3728	0.9992	0.8723	0.4225	0.002806
		x(ilm)	Q(ilm)				
		0.7218	-4.053e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2796	0	0.1299	0.2417	0.01260	0.3223	0.01385

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.60	574.4	0.4374	0.2551	0.02369	0.08251	0.3436	0.1964
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1924	0.3732	0.9992	0.8729	0.4223	0.002817
		x(ilm)	Q(ilm)				
		0.7214	-4.067e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2797	0	0.1297	0.2418	0.01259	0.3224	0.01388

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.64	575.5	0.4374	0.2560	0.02370	0.08267	0.3426	0.1964
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1923	0.3736	0.9992	0.8736	0.4222	0.002828
		x(ilm)	Q(ilm)				
			0.7211-4.080e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2798	0	0.1295	0.2418	0.01257	0.3224	0.01391

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.68	576.5	0.4375	0.2569	0.02371	0.08283	0.3415	0.1964
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1922	0.3740	0.9992	0.8742	0.4220	0.002840
		x(ilm)	Q(ilm)				
			0.7208-4.094e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2799	0	0.1292	0.2419	0.01255	0.3224	0.01394

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.72	577.6	0.4375	0.2578	0.02372	0.08299	0.3405	0.1963
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1922	0.3743	0.9992	0.8748	0.4219	0.002851
		x(ilm)	Q(ilm)				
			0.7205-4.108e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2800	0	0.1290	0.2420	0.01254	0.3225	0.01396

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.76	578.7	0.4376	0.2587	0.02374	0.08315	0.3394	0.1963
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1921	0.3747	0.9992	0.8755	0.4217	0.002862
		x(ilm)	Q(ilm)				
			0.7202-4.122e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2801	0	0.1288	0.2421	0.01252	0.3225	0.01399

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.80	579.8	0.4376	0.2596	0.02375	0.08331	0.3384	0.1962
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1920	0.3751	0.9992	0.8761	0.4216	0.002873
		x(ilm)	Q(ilm)				
			0.7199-4.136e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2802	0	0.1286	0.2422	0.01251	0.3226	0.01402

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.84	580.9	0.4376	0.2605	0.02376	0.08347	0.3374	0.1962
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1920	0.3755	0.9992	0.8767	0.4215	0.002884
		x(ilm)	Q(ilm)				
		0.7196	-4.150e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2803	0	0.1283	0.2422	0.01249	0.3226	0.01405

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.88	582.0	0.4377	0.2614	0.02377	0.08362	0.3364	0.1962
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1919	0.3759	0.9992	0.8773	0.4213	0.002895
		x(ilm)	Q(ilm)				
		0.7193	-4.164e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2804	0	0.1281	0.2423	0.01248	0.3226	0.01407

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.92	583.0	0.4377	0.2622	0.02378	0.08378	0.3353	0.1961
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1919	0.3763	0.9992	0.8780	0.4212	0.002906
		x(ilm)	Q(ilm)				
		0.7189	-4.178e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2805	0	0.1279	0.2424	0.01246	0.3227	0.01410

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.96	584.1	0.4378	0.2631	0.02380	0.08393	0.3343	0.1961
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1918	0.3766	0.9991	0.8786	0.4211	0.002916
		x(ilm)	Q(ilm)				
		0.7186	-4.192e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2806	0	0.1277	0.2425	0.01244	0.3227	0.01413

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.00	585.2	0.4378	0.2640	0.02381	0.08409	0.3333	0.1961
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1917	0.3770	0.9991	0.8792	0.4209	0.002927
		x(ilm)	Q(ilm)				
		0.7183	-4.207e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2807	0	0.1275	0.2426	0.01243	0.3227	0.01415

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.04	586.3	0.4378	0.2648	0.02382	0.08424	0.3323	0.1960
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1917	0.3774	0.9991	0.8798	0.4208	0.002938
		x(ilm)	Q(ilm)				
			0.7180-4.221e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2807	0	0.1272	0.2426	0.01241	0.3228	0.01418

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.08	587.3	0.4379	0.2657	0.02383	0.08439	0.3313	0.1960
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1916	0.3778	0.9991	0.8805	0.4207	0.002948
		x(ilm)	Q(ilm)				
			0.7177-4.236e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2808	0	0.1270	0.2427	0.01240	0.3228	0.01421

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.12	588.4	0.4379	0.2665	0.02384	0.08454	0.3304	0.1960
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1916	0.3782	0.9991	0.8811	0.4205	0.002959
		x(ilm)	Q(ilm)				
			0.7174-4.250e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2809	0	0.1268	0.2428	0.01238	0.3229	0.01423

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.16	589.5	0.4380	0.2674	0.02385	0.08470	0.3294	0.1960
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1915	0.3786	0.9991	0.8817	0.4204	0.002969
		x(ilm)	Q(ilm)				
			0.7171-4.265e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2810	0	0.1266	0.2429	0.01237	0.3229	0.01426

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.20	590.6	0.4380	0.2682	0.02386	0.08485	0.3284	0.1959
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1915	0.3789	0.9991	0.8823	0.4203	0.002980
		x(ilm)	Q(ilm)				
			0.7168-4.280e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2811	0	0.1264	0.2429	0.01235	0.3229	0.01428

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.24	591.6	0.4381	0.2691	0.02387	0.08500	0.3274	0.1959
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1914	0.3793	0.9991	0.8830	0.4201	0.002990
		x(ilm)	Q(ilm)				
		0.7165	-4.295e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2812	0	0.1262	0.2430	0.01234	0.3230	0.01431

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.28	592.7	0.4381	0.2699	0.02388	0.08514	0.3265	0.1959
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1914	0.3797	0.9991	0.8836	0.4200	0.003000
		x(ilm)	Q(ilm)				
		0.7161	-4.310e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2813	0	0.1259	0.2431	0.01232	0.3230	0.01434

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.32	593.8	0.4381	0.2707	0.02389	0.08529	0.3255	0.1958
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1913	0.3801	0.9991	0.8842	0.4199	0.003010
		x(ilm)	Q(ilm)				
		0.7158	-4.325e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2814	0	0.1257	0.2432	0.01231	0.3230	0.01436

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.36	594.9	0.4382	0.2715	0.02390	0.08544	0.3246	0.1958
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1913	0.3804	0.9991	0.8848	0.4197	0.003020
		x(ilm)	Q(ilm)				
		0.7155	-4.340e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2815	0	0.1255	0.2432	0.01229	0.3231	0.01439

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.40	595.9	0.4382	0.2723	0.02391	0.08558	0.3236	0.1958
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1912	0.3808	0.9991	0.8854	0.4196	0.003030
		x(ilm)	Q(ilm)				
		0.7152	-4.355e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2816	0	0.1253	0.2433	0.01228	0.3231	0.01441

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.44	597.0	0.4383	0.2731	0.02392	0.08573	0.3227	0.1958
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1911	0.3812	0.9991	0.8860	0.4195	0.003040
		x(ilm)	Q(ilm)				
			0.7149-4.371e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2816	0	0.1251	0.2434	0.01227	0.3231	0.01444

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.48	598.1	0.4383	0.2739	0.02393	0.08587	0.3218	0.1957
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1911	0.3816	0.9991	0.8866	0.4194	0.003049
		x(ilm)	Q(ilm)				
			0.7146-4.386e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2817	0	0.1249	0.2435	0.01225	0.3232	0.01446

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.52	599.2	0.4383	0.2747	0.02394	0.08602	0.3209	0.1957
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1910	0.3819	0.9991	0.8873	0.4192	0.003059
		x(ilm)	Q(ilm)				
			0.7143-4.402e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2818	0	0.1247	0.2435	0.01224	0.3232	0.01449

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.56	600.2	0.4384	0.2755	0.02394	0.08616	0.3199	0.1957
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1910	0.3823	0.9991	0.8879	0.4191	0.003069
		x(ilm)	Q(ilm)				
			0.7140-4.418e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2819	0	0.1245	0.2436	0.01222	0.3232	0.01451

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.60	601.3	0.4384	0.2763	0.02395	0.08630	0.3190	0.1957
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1909	0.3827	0.9990	0.8885	0.4190	0.003078
		x(ilm)	Q(ilm)				
			0.7137-4.434e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2820	0	0.1243	0.2437	0.01221	0.3233	0.01454

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.64	602.4	0.4384	0.2771	0.02396	0.08645	0.3181	0.1956
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1909	0.3831	0.9990	0.8891	0.4189	0.003088
		x(ilm)	Q(ilm)				
		0.7134	-4.449e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2821	0	0.1241	0.2438	0.01219	0.3233	0.01456

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.68	603.4	0.4385	0.2779	0.02397	0.08659	0.3172	0.1956
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1908	0.3834	0.9990	0.8897	0.4187	0.003097
		x(ilm)	Q(ilm)				
		0.7131	-4.465e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2822	0	0.1239	0.2438	0.01218	0.3233	0.01458

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.72	604.5	0.4385	0.2786	0.02398	0.08673	0.3163	0.1956
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1908	0.3838	0.9990	0.8903	0.4186	0.003106
		x(ilm)	Q(ilm)				
		0.7127	-4.482e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2822	0	0.1237	0.2439	0.01217	0.3234	0.01461

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.76	605.6	0.4386	0.2794	0.02399	0.08687	0.3155	0.1956
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1908	0.3842	0.9990	0.8909	0.4185	0.003115
		x(ilm)	Q(ilm)				
		0.7124	-4.498e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2823	0	0.1235	0.2440	0.01215	0.3234	0.01463

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.80	606.7	0.4386	0.2802	0.02399	0.08700	0.3146	0.1956
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1907	0.3845	0.9990	0.8915	0.4184	0.003124
		x(ilm)	Q(ilm)				
		0.7121	-4.514e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2824	0	0.1233	0.2440	0.01214	0.3234	0.01466

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.84	607.7	0.4386	0.2809	0.02400	0.08714	0.3137	0.1955
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1907	0.3849	0.9990	0.8921	0.4183	0.003133
		x(ilm)	Q(ilm)				
		0.7118-4.530e-5					

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2825	0	0.1231	0.2441	0.01212	0.3235	0.01468

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.56	626.9	0.4393	0.2935	0.02412	0.08949	0.2989	0.1953
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1899	0.3914	0.9989	0.9025	0.4163	0.003277
		x(ilm)	Q(ilm)				
		0.7065-4.845e-5					

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2839	0	0.1199	0.2453	0.01189	0.3240	0.01508

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.60	628.0	0.4393	0.2942	0.02412	0.08961	0.2981	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1898	0.3918	0.9989	0.9030	0.4162	0.003284
		x(ilm)	Q(ilm)				
		0.7062-4.864e-5					

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2840	0	0.1197	0.2453	0.01188	0.3241	0.01510

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.64	629.0	0.4393	0.2948	0.02413	0.08973	0.2974	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1898	0.3921	0.9989	0.9036	0.4161	0.003291
		x(ilm)	Q(ilm)				
		0.7059-4.882e-5					

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2840	0	0.1195	0.2454	0.01186	0.3241	0.01512

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.68	630.1	0.4394	0.2954	0.02413	0.08985	0.2966	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1897	0.3925	0.9989	0.9041	0.4160	0.003298
		x(ilm)	Q(ilm)				
		0.7056-4.901e-5					

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2841	0	0.1194	0.2454	0.01185	0.3241	0.01514

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.72	631.2	0.4394	0.2961	0.02414	0.08997	0.2959	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1897	0.3929	0.9988	0.9047	0.4159	0.003304
		x(ilm)	Q(ilm)				
		0.7053	-4.920e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2842	0	0.1192	0.2455	0.01184	0.3241	0.01516

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.76	632.2	0.4394	0.2967	0.02414	0.09009	0.2951	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1897	0.3932	0.9988	0.9052	0.4158	0.003311
		x(ilm)	Q(ilm)				
		0.7050	-4.939e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2843	0	0.1190	0.2455	0.01183	0.3242	0.01518

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.80	633.3	0.4395	0.2973	0.02415	0.09021	0.2944	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1896	0.3936	0.9988	0.9058	0.4157	0.003317
		x(ilm)	Q(ilm)				
		0.7047	-4.958e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2843	0	0.1189	0.2456	0.01182	0.3242	0.01520

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.84	634.3	0.4395	0.2979	0.02415	0.09033	0.2936	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1896	0.3939	0.9988	0.9063	0.4156	0.003324
		x(ilm)	Q(ilm)				
		0.7044	-4.978e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2844	0	0.1187	0.2457	0.01180	0.3242	0.01522

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.88	635.4	0.4395	0.2986	0.02416	0.09045	0.2929	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1895	0.3943	0.9988	0.9068	0.4155	0.003330
		x(ilm)	Q(ilm)				
		0.7041	-4.997e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2845	0	0.1185	0.2457	0.01179	0.3242	0.01524

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.92	636.5	0.4396	0.2992	0.02416	0.09056	0.2922	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1895	0.3946	0.9988	0.9074	0.4154	0.003336
		x(ilm)	Q(ilm)				
			0.7039-5.017e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2845	0	0.1184	0.2458	0.01178	0.3243	0.01526

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.96	637.5	0.4396	0.2998	0.02417	0.09068	0.2915	0.1952
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1895	0.3950	0.9988	0.9079	0.4153	0.003342
		x(ilm)	Q(ilm)				
			0.7036-5.037e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2846	0	0.1182	0.2458	0.01177	0.3243	0.01528

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.00	638.6	0.4396	0.3004	0.02417	0.09080	0.2907	0.1951
		Q(ep)	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)
		0.1894	0.3953	0.9988	0.9084	0.4152	0.003348
		x(ilm)	Q(ilm)				
			0.7033-5.056e-5				

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2847	0	0.1181	0.2459	0.01176	0.3243	0.01530

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.50	624.9	0.4361	0.2922	0.02443	0.09046	0.3005	0.1962
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.1908	0.8293	0.1790	0.007420	0.3882	0.9988
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8875	0.4119	0.003461	0.7065-4.817e-5	0.2816	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2816	0	0.002234	0.1192	0.2462	0.011860	0.0001914	0.3232	0.01549

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.52  625.3  0.4360  0.2922  0.02446  0.09063  0.3003  0.1963
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1909  0.8291  0.1794  0.007467  0.3882  0.9987
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8862  0.4109  0.003492  0.7063-4.826e-5  0.2815

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
0.2815  0 0.002357  0.1184  0.2467  0.011850.0004591  0.3230 0.01565

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.54  625.7  0.4358  0.2922  0.02449  0.09079  0.3001  0.1965
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1911  0.8290  0.1798  0.007514  0.3883  0.9987
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8849  0.4098  0.003523  0.7061-4.834e-5  0.2814

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
0.2814  0 0.002482  0.1176  0.2473  0.011830.0007259  0.3228 0.01580

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.56  626.2  0.4357  0.2922  0.02452  0.09095  0.3000  0.1967
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1912  0.8289  0.1801  0.007561  0.3883  0.9987
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8835  0.4087  0.003554  0.7059-4.842e-5  0.2813

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
0.2813  0 0.002611  0.1168  0.2479  0.011820.0009916  0.3227 0.01595

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.58  626.6  0.4355  0.2922  0.02455  0.09111  0.2998  0.1968
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1914  0.8287  0.1805  0.007608  0.3883  0.9987
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8821  0.4076  0.003585  0.7058-4.851e-5  0.2812

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
0.2812  0 0.002744  0.1160  0.2484  0.01181 0.001256  0.3225 0.01611

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.60  627.0  0.4354  0.2921  0.02459  0.09128  0.2997  0.1970
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1915  0.8286  0.1808  0.007656  0.3884  0.9986
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8807  0.4065  0.003616  0.7056-4.859e-5  0.2811

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
0.2811  0 0.002881  0.1151  0.2490  0.01180 0.001519  0.3223 0.01626

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.62    627.4  0.4352  0.2921  0.02462  0.09144  0.2995  0.1972
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1917  0.8284  0.1812  0.007704  0.3884  0.9986
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8792  0.4054  0.003648  0.7054-4.867e-5  0.2810

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2810    0 0.003022  0.1143  0.2495  0.01179 0.001781  0.3222  0.01642

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.64    627.8  0.4350  0.2921  0.02465  0.09160  0.2994  0.1973
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1918  0.8283  0.1816  0.007752  0.3884  0.9986
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8777  0.4044  0.003679  0.7052-4.876e-5  0.2809

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2809    0 0.003168  0.1135  0.2501  0.01178 0.002041  0.3220  0.01657

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.66    628.2  0.4348  0.2920  0.02468  0.09177  0.2992  0.1975
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1919  0.8281  0.1819  0.007800  0.3884  0.9986
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8761  0.4033  0.003711  0.7050-4.884e-5  0.2807

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2807    0 0.003320  0.1127  0.2506  0.01177 0.002298  0.3218  0.01672

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.68    628.6  0.4346  0.2920  0.02471  0.09193  0.2991  0.1977
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1921  0.8280  0.1823  0.007848  0.3884  0.9985
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8744  0.4022  0.003742  0.7048-4.892e-5  0.2806

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2806    0 0.003476  0.1120  0.2512  0.01176 0.002554  0.3216  0.01687

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.70    629.0  0.4344  0.2919  0.02475  0.09210  0.2989  0.1978
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1922  0.8278  0.1826  0.007896  0.3884  0.9985
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8727  0.4011  0.003774  0.7047-4.901e-5  0.2805

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2805    0 0.003639  0.1112  0.2517  0.01175 0.002807  0.3215  0.01703

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.72  629.5  0.4342  0.2919  0.02478  0.09226  0.2988  0.1980
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1924  0.8276  0.1830  0.007945  0.3884  0.9985
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8709  0.4001  0.003806  0.7045-4.909e-5  0.2803

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
      0.2803  0 0.003809  0.1104  0.2522  0.01173  0.003057  0.3213  0.01718

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.74  629.9  0.4340  0.2918  0.02481  0.09243  0.2987  0.1981
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1925  0.8274  0.1833  0.007994  0.3884  0.9985
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8691  0.3990  0.003838  0.7043-4.917e-5  0.2801

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
      0.2801  0 0.003986  0.1097  0.2527  0.01172  0.003304  0.3211  0.01733

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.76  630.3  0.4337  0.2918  0.02485  0.09260  0.2986  0.1983
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1926  0.8273  0.1837  0.008042  0.3883  0.9984
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8671  0.3980  0.003870  0.7042-4.925e-5  0.2800

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
      0.2800  0 0.004171  0.1089  0.2533  0.01171  0.003548  0.3209  0.01748

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.78  630.7  0.4335  0.2917  0.02488  0.09277  0.2985  0.1985
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1928  0.8271  0.1841  0.008091  0.3883  0.9984
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8651  0.3969  0.003901  0.7040-4.933e-5  0.2798

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
      0.2798  0 0.004366  0.1082  0.2538  0.01170  0.003787  0.3207  0.01763

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.80  631.1  0.4332  0.2916  0.02491  0.09293  0.2984  0.1986
      Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
      0.1929  0.8269  0.1844  0.008140  0.3882  0.9983
      na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.8630  0.3958  0.003933  0.7039-4.941e-5  0.2796

mode  bi  ep  g  mu  pl  ilm  ky  q  H2O
      0.2796  0 0.004570  0.1075  0.2543  0.01169  0.004022  0.3206  0.01777

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.82    631.5  0.4330  0.2915  0.02495  0.09310  0.2983  0.1988
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1930  0.8267  0.1848  0.008189  0.3882  0.9983
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8608  0.3948  0.003965  0.7037-4.949e-5  0.2794

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2794    0 0.004785  0.1068  0.2548  0.01169  0.004253  0.3204  0.01792

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.84    631.9  0.4327  0.2914  0.02498  0.09328  0.2982  0.1989
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1931  0.8264  0.1851  0.008238  0.3881  0.9983
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8585  0.3937  0.003996  0.7036-4.957e-5  0.2792

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2792    0 0.005012  0.1061  0.2553  0.01168  0.004477  0.3202  0.01806

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.86    632.3  0.4323  0.2913  0.02502  0.09345  0.2982  0.1991
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1933  0.8262  0.1855  0.008287  0.3880  0.9982
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8560  0.3927  0.004028  0.7035-4.964e-5  0.2790

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2790    0 0.005253  0.1054  0.2558  0.01167  0.004696  0.3200  0.01821

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.88    632.7  0.4320  0.2911  0.02505  0.09362  0.2981  0.1992
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1934  0.8260  0.1858  0.008336  0.3878  0.9982
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8535  0.3916  0.004059  0.7033-4.972e-5  0.2787

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2787    0 0.005509  0.1048  0.2562  0.01166  0.004907  0.3198  0.01835

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.90    633.1  0.4316  0.2910  0.02509  0.09380  0.2981  0.1993
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1935  0.8257  0.1862  0.008385  0.3877  0.9981
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8508  0.3906  0.004090  0.7032-4.979e-5  0.2785

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2785    0 0.005782  0.1042  0.2567  0.01165  0.005110  0.3196  0.01849

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.92    633.5  0.4312  0.2908  0.02512  0.09397  0.2980  0.1995
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1936  0.8255  0.1865  0.008434  0.3875  0.9981
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8479  0.3896  0.004120  0.7031-4.986e-5  0.2782

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2782    0 0.006075  0.1036  0.2571  0.01164  0.005305  0.3194  0.01863

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.94    633.9  0.4308  0.2906  0.02516  0.09415  0.2980  0.1996
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1937  0.8252  0.1869  0.008482  0.3873  0.9980
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8448  0.3885  0.004150  0.7031-4.993e-5  0.2779

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2779    0 0.006390  0.1031  0.2575  0.01164  0.005489  0.3192  0.01876

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.96    634.3  0.4303  0.2904  0.02519  0.09433  0.2980  0.1997
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1938  0.8249  0.1872  0.008530  0.3871  0.9980
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8416  0.3875  0.004180  0.7030-5.000e-5  0.2775

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2775    0 0.006729  0.1026  0.2579  0.01163  0.005662  0.3190  0.01889

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.98    634.7  0.4298  0.2902  0.02523  0.09451  0.2981  0.1999
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1939  0.8245  0.1875  0.008578  0.3868  0.9979
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8381  0.3864  0.004209  0.7030-5.006e-5  0.2772

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2772    0 0.007097  0.1021  0.2583  0.01162  0.005822  0.3188  0.01902

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.00   635.1  0.4293  0.2899  0.02527  0.09470  0.2981  0.2000
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.1940  0.8242  0.1879  0.008626  0.3865  0.9978
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.8344  0.3854  0.004237  0.7029-5.012e-5  0.2768

mode    bi    ep    g    mu    pl    ilm    ky    q    H2O
      0.2768    0 0.007497  0.1017  0.2587  0.01162  0.005966  0.3186  0.01914

```

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.02	635.5	0.4287	0.2896	0.02531	0.09488	0.2982	0.2001			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.1941	0.8238	0.1882	0.008672	0.3861	0.9977			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.8305	0.3843	0.004264	0.7029-5.018e-5	0.2763				

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2763	0	0.007934	0.1013	0.2590	0.01162	0.006094	0.3184	0.01927

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.04	635.9	0.4280	0.2893	0.02535	0.09508	0.2984	0.2002			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.1942	0.8233	0.1885	0.008718	0.3856	0.9976			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.8262	0.3833	0.004290	0.7030-5.023e-5	0.2758				

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2758	0	0.008413	0.1010	0.2593	0.01161	0.006203	0.3182	0.01938

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.06	636.3	0.4272	0.2889	0.02539	0.09527	0.2986	0.2003			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.1943	0.8229	0.1888	0.008763	0.3851	0.9975			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.8216	0.3822	0.004314	0.7030-5.027e-5	0.2753				

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2753	0	0.008941	0.1008	0.2596	0.01161	0.006290	0.3180	0.01949

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.08	636.6	0.4264	0.2884	0.02543	0.09547	0.2988	0.2003			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.1943	0.8224	0.1891	0.008807	0.3846	0.9974			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.8166	0.3811	0.004337	0.7031-5.031e-5	0.2747				

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2747	0	0.009525	0.1007	0.2598	0.01161	0.006352	0.3178	0.01960

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.10	637.0	0.4255	0.2879	0.02547	0.09567	0.2990	0.2004			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.1944	0.8218	0.1894	0.008849	0.3839	0.9973			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.8111	0.3800	0.004358	0.7033-5.034e-5	0.2740				

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2740	0	0.01017	0.1006	0.2600	0.01161	0.006387	0.3175	0.01969

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.12    637.4  0.4244  0.2873  0.02551  0.09588  0.2994  0.2004
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1944  0.8212  0.1896  0.008889  0.3831  0.9972
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.8052  0.3789  0.004377  0.7035-5.036e-5  0.2732

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2732   0     0.01089  0.1007  0.2601  0.01162  0.006391  0.3173  0.01978

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.14    637.7  0.4232  0.2867  0.02555  0.09609  0.2998  0.2005
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1944  0.8205  0.1899  0.008927  0.3823  0.9970
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.7988  0.3778  0.004393  0.7037-5.037e-5  0.2724

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2724   0     0.01169  0.1008  0.2602  0.01162  0.006362  0.3170  0.01987

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.16    638.0  0.4219  0.2859  0.02560  0.09631  0.3003  0.2005
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1944  0.8197  0.1901  0.008963  0.3813  0.9968
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.7918  0.3766  0.004406  0.7041-5.036e-5  0.2714

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2714   0     0.01258  0.1011  0.2602  0.01163  0.006297  0.3168  0.01994

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.18    638.4  0.4205  0.2851  0.02565  0.09653  0.3008  0.2005
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1944  0.8188  0.1903  0.008996  0.3801  0.9967
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.7844  0.3754  0.004416  0.7044-5.035e-5  0.2703

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2703   0     0.01356  0.1015  0.2602  0.01164  0.006197  0.3165  0.02001

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.20    638.7  0.4189  0.2841  0.02569  0.09676  0.3015  0.2004
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1943  0.8179  0.1905  0.009026  0.3788  0.9964
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.7763  0.3742  0.004423  0.7049-5.032e-5  0.2692

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2692   0     0.01462  0.1021  0.2601  0.01165  0.006064  0.3162  0.02007

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P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.22 638.9 0.4172 0.2831 0.02574 0.09699 0.3022 0.2004
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.1943 0.8169 0.1907 0.009053 0.3774 0.9962
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7679 0.3729 0.004426 0.7054-5.029e-5 0.2679

mode bi ep g mu pl ilm ky q H2O
 0.2679 0 0.01578 0.1027 0.2600 0.01167 0.005902 0.3159 0.02013

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.24 639.2 0.4153 0.2820 0.02579 0.09723 0.3029 0.2003
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.1942 0.8158 0.1908 0.009076 0.3759 0.9959
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7590 0.3715 0.004426 0.7059-5.024e-5 0.2666

mode bi ep g mu pl ilm ky q H2O
 0.2666 0 0.01700 0.1034 0.2599 0.01169 0.005717 0.3156 0.02018

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.26 639.5 0.4134 0.2808 0.02584 0.09747 0.3038 0.2002
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.1941 0.8146 0.1909 0.009097 0.3743 0.9956
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7498 0.3702 0.004424 0.7065-5.018e-5 0.2652

mode bi ep g mu pl ilm ky q H2O
 0.2652 0 0.01828 0.1041 0.2597 0.01171 0.005519 0.3152 0.02024

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.28 639.7 0.4114 0.2796 0.02588 0.09770 0.3046 0.2001
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.1940 0.8134 0.1910 0.009116 0.3727 0.9953
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7405 0.3687 0.004420 0.7071-5.012e-5 0.2637

mode bi ep g mu pl ilm ky q H2O
 0.2637 0 0.01960 0.1049 0.2595 0.01173 0.005316 0.3149 0.02029

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.30 639.9 0.4093 0.2784 0.02593 0.09794 0.3055 0.2000
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.1939 0.8121 0.1911 0.009133 0.3709 0.9950
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7312 0.3673 0.004415 0.7078-5.005e-5 0.2623

mode bi ep g mu pl ilm ky q H2O
 0.2623 0 0.02093 0.1057 0.2594 0.01175 0.005117 0.3145 0.02035

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.32    640.1  0.4073  0.2771  0.02597  0.09818  0.3064  0.1999
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1938  0.8109  0.1912  0.009149  0.3692  0.9946
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.7219  0.3658  0.004409  0.7084-4.998e-5  0.2608

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2608   0    0.02227  0.1064  0.2592  0.01177  0.004927  0.3141  0.02041

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.34    640.3  0.4052  0.2758  0.02602  0.09841  0.3072  0.1997
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1937  0.8096  0.1912  0.009164  0.3675  0.9942
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.7126  0.3642  0.004402  0.7091-4.991e-5  0.2593

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2593   0    0.02360  0.1071  0.2591  0.01179  0.004753  0.3138  0.02048

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.36    640.5  0.4032  0.2746  0.02606  0.09863  0.3081  0.1996
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1936  0.8084  0.1913  0.009178  0.3658  0.9939
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.7035  0.3627  0.004396  0.7097-4.984e-5  0.2579

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2579   0    0.02490  0.1078  0.2590  0.01182  0.004598  0.3134  0.02056

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.38    640.7  0.4012  0.2734  0.02610  0.09886  0.3089  0.1995
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1934  0.8071  0.1914  0.009192  0.3641  0.9935
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6946  0.3611  0.004389  0.7103-4.977e-5  0.2565

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2565   0    0.02618  0.1084  0.2590  0.01184  0.004463  0.3130  0.02064

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.40    640.9  0.3993  0.2722  0.02614  0.09908  0.3097  0.1994
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1933  0.8059  0.1914  0.009206  0.3624  0.9930
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6858  0.3596  0.004383  0.7109-4.970e-5  0.2551

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2551   0    0.02743  0.1089  0.2590  0.01186  0.004348  0.3127  0.02073

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.42    641.1  0.3974  0.2710  0.02618  0.09930  0.3105  0.1993
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1932  0.8047  0.1915  0.009219  0.3608  0.9926
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6771  0.3580  0.004378  0.7115-4.964e-5  0.2538

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2538   0     0.02864  0.1093  0.2590  0.01188  0.004255  0.3123  0.02083

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.44    641.3  0.3955  0.2698  0.02622  0.09951  0.3112  0.1992
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1931  0.8035  0.1915  0.009233  0.3592  0.9922
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6687  0.3564  0.004373  0.7121-4.958e-5  0.2525

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2525   0     0.02982  0.1097  0.2591  0.01190  0.004182  0.3119  0.02093

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.46    641.4  0.3937  0.2687  0.02626  0.09972  0.3119  0.1991
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1930  0.8024  0.1916  0.009248  0.3577  0.9917
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6603  0.3548  0.004369  0.7126-4.952e-5  0.2512

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2512   0     0.03097  0.1100  0.2592  0.01192  0.004130  0.3115  0.02104

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.48    641.6  0.3920  0.2676  0.02629  0.09993  0.3126  0.1990
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1930  0.8012  0.1916  0.009262  0.3562  0.9912
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6521  0.3532  0.004366  0.7131-4.947e-5  0.2500

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2500   0     0.03208  0.1103  0.2593  0.01194  0.004097  0.3112  0.02115

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.50    641.8  0.3903  0.2665  0.02633  0.1001  0.3132  0.1989
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1929  0.8001  0.1917  0.009277  0.3547  0.9908
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6440  0.3516  0.004363  0.7136-4.941e-5  0.2488

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2488   0     0.03316  0.1105  0.2594  0.01196  0.004082  0.3108  0.02127

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.52    642.0  0.3886  0.2655  0.02636  0.1003  0.3138  0.1989
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1928  0.7990  0.1918  0.009293  0.3533  0.9902
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6360  0.3501  0.004361  0.7141-4.937e-5  0.2476

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2476   0     0.03421  0.1107  0.2596  0.01198  0.004085  0.3104  0.02139

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.54    642.1  0.3870  0.2645  0.02639  0.1005  0.3144  0.1988
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1927  0.7979  0.1918  0.009308  0.3519  0.9897
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6281  0.3485  0.004359  0.7146-4.932e-5  0.2465

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2465   0     0.03523  0.1107  0.2598  0.01200  0.004105  0.3101  0.02152

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.56    642.3  0.3855  0.2635  0.02643  0.1007  0.3150  0.1987
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1927  0.7969  0.1919  0.009325  0.3506  0.9892
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6202  0.3469  0.004358  0.7151-4.928e-5  0.2454

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2454   0     0.03622  0.1108  0.2601  0.01201  0.004140  0.3097  0.02165

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.58    642.5  0.3839  0.2626  0.02646  0.1009  0.3155  0.1987
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1926  0.7959  0.1920  0.009341  0.3493  0.9886
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6125  0.3453  0.004358  0.7155-4.924e-5  0.2443

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2443   0     0.03718  0.1108  0.2603  0.01203  0.004190  0.3094  0.02179

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.60    642.7  0.3824  0.2617  0.02649  0.1011  0.3160  0.1986
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1925  0.7949  0.1921  0.009359  0.3480  0.9881
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.6048  0.3438  0.004359  0.7159-4.920e-5  0.2433

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2433   0     0.03812  0.1108  0.2606  0.01205  0.004255  0.3090  0.02193

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.62    642.9  0.3810  0.2608  0.02651  0.1013  0.3165  0.1986
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1925  0.7939  0.1921  0.009376  0.3468  0.9875
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5972  0.3422  0.004360  0.7163-4.916e-5  0.2423

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2423   0     0.03902  0.1107  0.2609  0.01206  0.004332  0.3087  0.02207

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.64    643.0  0.3796  0.2599  0.02654  0.1015  0.3169  0.1985
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1924  0.7929  0.1922  0.009395  0.3456  0.9869
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5897  0.3407  0.004362  0.7167-4.913e-5  0.2413

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2413   0     0.03990  0.1106  0.2612  0.01208  0.004422  0.3083  0.02221

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.66    643.2  0.3783  0.2590  0.02657  0.1017  0.3173  0.1985
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1924  0.7920  0.1923  0.009414  0.3444  0.9863
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5822  0.3391  0.004364  0.7171-4.910e-5  0.2404

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2404   0     0.04076  0.1104  0.2615  0.01209  0.004523  0.3080  0.02236

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.68    643.4  0.3769  0.2582  0.02660  0.1019  0.3177  0.1984
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1923  0.7910  0.1924  0.009434  0.3433  0.9856
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5747  0.3376  0.004368  0.7174-4.907e-5  0.2394

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2394   0     0.04159  0.1102  0.2619  0.01210  0.004634  0.3076  0.02251

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.70    643.6  0.3757  0.2574  0.02662  0.1021  0.3181  0.1984
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1923  0.7901  0.1925  0.009454  0.3422  0.9850
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5673  0.3361  0.004372  0.7178-4.905e-5  0.2385

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2385   0     0.04239  0.1100  0.2622  0.01212  0.004755  0.3073  0.02266

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.72    643.8  0.3744  0.2567  0.02665  0.1022  0.3185  0.1984
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1923  0.7893  0.1926  0.009476  0.3411  0.9843
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5600  0.3347  0.004376  0.7181-4.903e-5  0.2377

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2377   0     0.04318  0.1098  0.2626  0.01213  0.004885  0.3070  0.02281

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.74    644.0  0.3732  0.2559  0.02667  0.1024  0.3188  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7884  0.1928  0.009498  0.3401  0.9836
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5528  0.3332  0.004382  0.7184-4.901e-5  0.2368

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2368   0     0.04394  0.1095  0.2630  0.01214  0.005022  0.3066  0.02297

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.76    644.2  0.3720  0.2552  0.02670  0.1026  0.3191  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7876  0.1929  0.009521  0.3391  0.9829
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5456  0.3317  0.004388  0.7187-4.899e-5  0.2360

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2360   0     0.04467  0.1092  0.2634  0.01215  0.005166  0.3063  0.02312

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.78    644.4  0.3709  0.2545  0.02672  0.1028  0.3194  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7867  0.1930  0.009545  0.3382  0.9822
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5385  0.3303  0.004395  0.7190-4.898e-5  0.2352

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2352   0     0.04539  0.1089  0.2637  0.01216  0.005316  0.3060  0.02327

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.80    644.6  0.3698  0.2539  0.02675  0.1030  0.3197  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7859  0.1931  0.009570  0.3373  0.9815
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5314  0.3289  0.004402  0.7193-4.896e-5  0.2345

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2345   0     0.04609  0.1086  0.2641  0.01217  0.005471  0.3057  0.02343

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.82    644.8  0.3687  0.2532  0.02677  0.1031  0.3199  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7852  0.1933  0.009596  0.3364  0.9807
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5244  0.3275  0.004411  0.7196-4.895e-5  0.2337

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2337   0     0.04676  0.1083  0.2645  0.01218  0.005629  0.3054  0.02358

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.84    645.0  0.3677  0.2526  0.02679  0.1033  0.3201  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7844  0.1935  0.009623  0.3355  0.9799
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5176  0.3262  0.004420  0.7198-4.895e-5  0.2330

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2330   0     0.04742  0.1079  0.2649  0.01219  0.005790  0.3050  0.02373

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.86    645.3  0.3667  0.2520  0.02682  0.1035  0.3203  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7837  0.1936  0.009652  0.3347  0.9792
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5108  0.3249  0.004430  0.7201-4.894e-5  0.2323

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2323   0     0.04805  0.1076  0.2653  0.01220  0.005952  0.3048  0.02388

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.88    645.5  0.3657  0.2515  0.02684  0.1037  0.3205  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7829  0.1938  0.009681  0.3339  0.9784
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.5041  0.3236  0.004440  0.7203-4.894e-5  0.2316

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2316   0     0.04867  0.1072  0.2657  0.01220  0.006115  0.3045  0.02402

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.90    645.8  0.3648  0.2509  0.02686  0.1039  0.3206  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7822  0.1940  0.009712  0.3331  0.9776
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.4976  0.3223  0.004452  0.7205-4.895e-5  0.2309

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2309   0     0.04927  0.1069  0.2661  0.01221  0.006278  0.3042  0.02417

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.92    646.0  0.3639  0.2504  0.02689  0.1041  0.3208  0.1983
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7815  0.1942  0.009744  0.3324  0.9768
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.4911  0.3211  0.004464  0.7207-4.895e-5  0.2303

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2303   0     0.04986  0.1065  0.2664  0.01222  0.006439  0.3039  0.02431

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.94    646.3  0.3630  0.2499  0.02691  0.1042  0.3209  0.1984
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7808  0.1944  0.009778  0.3317  0.9760
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.4848  0.3199  0.004477  0.7209-4.896e-5  0.2297

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2297   0     0.05043  0.1062  0.2668  0.01222  0.006598  0.3036  0.02445

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.96    646.5  0.3621  0.2494  0.02693  0.1044  0.3210  0.1984
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7802  0.1946  0.009812  0.3310  0.9752
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.4786  0.3187  0.004490  0.7211-4.897e-5  0.2291

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2291   0     0.05098  0.1059  0.2671  0.01223  0.006754  0.3034  0.02458

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.98    646.8  0.3613  0.2490  0.02696  0.1046  0.3211  0.1984
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1922  0.7795  0.1948  0.009848  0.3303  0.9743
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.4726  0.3176  0.004505  0.7213-4.898e-5  0.2285

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2285   0     0.05153  0.1055  0.2675  0.01223  0.006906  0.3031  0.02472

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.00    647.1  0.3605  0.2486  0.02698  0.1048  0.3211  0.1985
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.1923  0.7789  0.1950  0.009886  0.3297  0.9735
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.4667  0.3164  0.004520  0.7214-4.899e-5  0.2279

mode     bi     ep     g     mu     pl     ilm     ky     q     H2O
0.2279   0     0.05205  0.1052  0.2678  0.01223  0.007055  0.3029  0.02484

```

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.20 621.9 0.4429 0.2918 0.03236 0.07869 0.3016 0.2340
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2260 0.8300 0.1610 0.008183 0.3923 0.9989
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8968 0.4073 0.003387 0.5339-0.0001455 0.2838

mode bi ep g mu pl ilm ru ky q H2O
0.28380.0006039 0.006016 0.1172 0.2450 0.007107 0.002531 0 0.3226 0.01515

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.24 622.7 0.4424 0.2916 0.03245 0.07896 0.3013 0.2344
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2263 0.8297 0.1617 0.008284 0.3923 0.9989
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8950 0.4050 0.003447 0.5334-0.0001479 0.2835

mode bi ep g mu pl ilm ru ky q H2O
0.2835 0.001407 0.006460 0.1176 0.2439 0.006959 0.002559 0 0.3225 0.01508

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.28 623.5 0.4420 0.2915 0.03254 0.07923 0.3011 0.2347
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2266 0.8293 0.1623 0.008386 0.3922 0.9989
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8931 0.4028 0.003506 0.5329-0.0001504 0.2831

mode bi ep g mu pl ilm ru ky q H2O
0.2831 0.002188 0.006912 0.1180 0.2429 0.006814 0.002585 0 0.3225 0.01501

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.32 624.3 0.4415 0.2913 0.03264 0.07951 0.3009 0.2351
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2268 0.8289 0.1629 0.008489 0.3922 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8912 0.4005 0.003567 0.5323-0.0001530 0.2827

mode bi ep g mu pl ilm ru ky q H2O
0.2827 0.002948 0.007371 0.1184 0.2419 0.006673 0.002611 0 0.3225 0.01495

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.36 625.2 0.4411 0.2912 0.03273 0.07978 0.3007 0.2354
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2271 0.8286 0.1635 0.008593 0.3921 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8892 0.3983 0.003628 0.5318-0.0001557 0.2823

mode bi ep g mu pl ilm ru ky q H2O
0.2823 0.003687 0.007840 0.1187 0.2409 0.006535 0.002637 0 0.3224 0.01490

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.40 626.0 0.4406 0.2910 0.03282 0.08005 0.3006 0.2358
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2274 0.8282 0.1642 0.008698 0.3920 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8871 0.3961 0.003690 0.5312-0.0001585 0.2820

mode bi ep g mu pl ilm ru ky q H2O
0.2820 0.004404 0.008319 0.1191 0.2400 0.006400 0.002661 0 0.3224 0.01485

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.44 626.8 0.4401 0.2908 0.03292 0.08033 0.3004 0.2362
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2277 0.8278 0.1648 0.008803 0.3919 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8849 0.3939 0.003752 0.5307-0.0001615 0.2816

mode bi ep g mu pl ilm ru ky q H2O
0.2816 0.005100 0.008809 0.1195 0.2390 0.006268 0.002685 0 0.3223 0.01480

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.48 627.6 0.4395 0.2906 0.03302 0.08060 0.3003 0.2365
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2280 0.8274 0.1654 0.008910 0.3918 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8827 0.3917 0.003814 0.5301-0.0001646 0.2811

mode bi ep g mu pl ilm ru ky q H2O
0.2811 0.005773 0.009311 0.1198 0.2382 0.006140 0.002709 0 0.3222 0.01476

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.52 628.4 0.4390 0.2904 0.03311 0.08087 0.3001 0.2369
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2283 0.8269 0.1660 0.009018 0.3917 0.9986
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8803 0.3895 0.003877 0.5296-0.0001678 0.2807

mode bi ep g mu pl ilm ru ky q H2O
0.2807 0.006423 0.009826 0.1201 0.2373 0.006016 0.002732 0 0.3221 0.01472

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.56 629.3 0.4384 0.2901 0.03321 0.08115 0.3000 0.2372
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2286 0.8265 0.1667 0.009126 0.3915 0.9986
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8778 0.3873 0.003941 0.5290-0.0001712 0.2802

mode bi ep g mu pl ilm ru ky q H2O
0.2802 0.007051 0.01036 0.1205 0.2365 0.005895 0.002754 0 0.3221 0.01469

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 630.1 0.4378 0.2899 0.03332 0.08142 0.2999 0.2376
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2289 0.8261 0.1673 0.009236 0.3913 0.9985
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8752 0.3851 0.004005 0.5284-0.0001747 0.2798

mode bi ep g mu pl ilm ru ky q H2O
0.2798 0.007655 0.01090 0.1208 0.2357 0.005778 0.002776 0 0.3220 0.01466

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.64 630.9 0.4372 0.2896 0.03342 0.08169 0.2998 0.2380
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2292 0.8256 0.1679 0.009346 0.3911 0.9985
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8724 0.3830 0.004069 0.5278-0.0001785 0.2793

mode bi ep g mu pl ilm ru ky q H2O
0.2793 0.008235 0.01146 0.1211 0.2350 0.005665 0.002797 0 0.3219 0.01464

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.68 631.7 0.4365 0.2893 0.03353 0.08197 0.2997 0.2383
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2295 0.8251 0.1685 0.009458 0.3909 0.9984
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8695 0.3808 0.004133 0.5272-0.0001824 0.2787

mode bi ep g mu pl ilm ru ky q H2O
0.2787 0.008790 0.01205 0.1214 0.2343 0.005555 0.002818 0 0.3217 0.01463

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.72 632.5 0.4358 0.2890 0.03364 0.08224 0.2997 0.2387
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2298 0.8246 0.1691 0.009570 0.3906 0.9984
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8664 0.3786 0.004198 0.5266-0.0001865 0.2782

mode bi ep g mu pl ilm ru ky q H2O
0.2782 0.009318 0.01265 0.1217 0.2337 0.005450 0.002838 0 0.3216 0.01462

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.76 633.3 0.4351 0.2886 0.03375 0.08252 0.2996 0.2391
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2301 0.8241 0.1697 0.009683 0.3903 0.9983
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8631 0.3765 0.004262 0.5260-0.0001909 0.2776

mode bi ep g mu pl ilm ru ky q H2O
0.2776 0.009819 0.01328 0.1219 0.2330 0.005349 0.002857 0 0.3215 0.01463

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 634.1 0.4343 0.2883 0.03386 0.08279 0.2996 0.2395
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2304 0.8235 0.1703 0.009797 0.3899 0.9983
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8596 0.3744 0.004327 0.5254-0.0001956 0.2770

mode bi ep g mu pl ilm ru ky q H2O
0.2770 0.01029 0.01394 0.1222 0.2325 0.005252 0.002876 0 0.3213 0.01463

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.84 634.9 0.4334 0.2879 0.03398 0.08307 0.2996 0.2398
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2307 0.8229 0.1709 0.009911 0.3895 0.9982
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8559 0.3722 0.004391 0.5247-0.0002005 0.2764

mode bi ep g mu pl ilm ru ky q H2O
0.2764 0.01073 0.01463 0.1224 0.2320 0.005160 0.002894 0 0.3212 0.01465

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.88 635.7 0.4325 0.2874 0.03410 0.08334 0.2997 0.2402
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2310 0.8223 0.1715 0.01003 0.3891 0.9981
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8518 0.3701 0.004455 0.5241-0.0002059 0.2757

mode bi ep g mu pl ilm ru ky q H2O
0.2757 0.01114 0.01536 0.1227 0.2315 0.005074 0.002912 0 0.3210 0.01468

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.92 636.5 0.4316 0.2869 0.03422 0.08362 0.2998 0.2406
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2313 0.8217 0.1720 0.01014 0.3885 0.9980
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8474 0.3679 0.004518 0.5234-0.0002116 0.2749

mode bi ep g mu pl ilm ru ky q H2O
0.2749 0.01151 0.01614 0.1229 0.2311 0.004993 0.002929 0 0.3208 0.01472

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.96 637.3 0.4305 0.2864 0.03435 0.08390 0.2999 0.2410
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2316 0.8210 0.1726 0.01026 0.3880 0.9979
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8427 0.3658 0.004581 0.5227-0.0002177 0.2741

mode bi ep g mu pl ilm ru ky q H2O
0.2741 0.01184 0.01696 0.1231 0.2308 0.004918 0.002945 0 0.3205 0.01477

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 638.1 0.4294 0.2858 0.03449 0.08417 0.3001 0.2414
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2319 0.8202 0.1731 0.01037 0.3873 0.9978
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8374 0.3637 0.004642 0.5219-0.0002244 0.2733

mode bi ep g mu pl ilm ru ky q H2O
0.2733 0.01213 0.01784 0.1233 0.2306 0.004850 0.002961 0 0.3203 0.01484

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.04 638.8 0.4281 0.2851 0.03464 0.08445 0.3003 0.2418
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2323 0.8194 0.1737 0.01049 0.3865 0.9977
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8316 0.3615 0.004701 0.5211-0.0002318 0.2723

mode bi ep g mu pl ilm ru ky q H2O
0.2723 0.01237 0.01880 0.1234 0.2304 0.004790 0.002976 0 0.3200 0.01492

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.08 639.6 0.4267 0.2844 0.03479 0.08473 0.3007 0.2422
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2326 0.8185 0.1742 0.01061 0.3856 0.9975
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8251 0.3593 0.004757 0.5203-0.0002399 0.2712

mode bi ep g mu pl ilm ru ky q H2O
0.2712 0.01255 0.01984 0.1236 0.2304 0.004739 0.002991 0 0.3197 0.01503

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.12 640.4 0.4252 0.2835 0.03495 0.08500 0.3011 0.2426
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2329 0.8174 0.1746 0.01072 0.3845 0.9974
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8177 0.3571 0.004811 0.5194-0.0002490 0.2700

mode bi ep g mu pl ilm ru ky q H2O
0.2700 0.01266 0.02100 0.1237 0.2305 0.004698 0.003005 0 0.3193 0.01515

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.16 641.1 0.4234 0.2825 0.03513 0.08528 0.3016 0.2430
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2333 0.8163 0.1750 0.01083 0.3832 0.9972
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8091 0.3549 0.004860 0.5185-0.0002593 0.2687

mode bi ep g mu pl ilm ru ky q H2O
0.2687 0.01270 0.02230 0.1238 0.2307 0.004670 0.003019 0 0.3188 0.01531

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.20 641.8 0.4213 0.2813 0.03533 0.08555 0.3023 0.2434
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2336 0.8149 0.1754 0.01094 0.3817 0.9969
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7992 0.3525 0.004902 0.5174-0.0002712 0.2671

mode bi ep g mu pl ilm ru ky q H2O
0.2671 0.01263 0.02379 0.1238 0.2311 0.004656 0.003033 0 0.3183 0.01551

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.24 642.5 0.4188 0.2798 0.03555 0.08582 0.3032 0.2439
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2340 0.8134 0.1756 0.01105 0.3798 0.9966
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7872 0.3501 0.004936 0.5163-0.0002855 0.2653

mode bi ep g mu pl ilm ru ky q H2O
0.2653 0.01245 0.02552 0.1238 0.2318 0.004662 0.003046 0 0.3177 0.01576

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.28 643.1 0.4158 0.2780 0.03580 0.08608 0.3044 0.2443
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2344 0.8115 0.1758 0.01115 0.3774 0.9962
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7727 0.3475 0.004958 0.5149-0.0003031 0.2630

mode bi ep g mu pl ilm ru ky q H2O
0.2630 0.01212 0.02758 0.1238 0.2327 0.004688 0.003061 0 0.3169 0.01608

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.32 643.7 0.4122 0.2758 0.03610 0.08633 0.3059 0.2448
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2348 0.8092 0.1758 0.01123 0.3744 0.9956
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7551 0.3446 0.004964 0.5133-0.0003255 0.2603

mode bi ep g mu pl ilm ru ky q H2O
0.2603 0.01164 0.03003 0.1237 0.2340 0.004738 0.003077 0 0.3160 0.01647

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.36 644.2 0.4080 0.2731 0.03642 0.08655 0.3077 0.2454
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2352 0.8065 0.1756 0.01130 0.3709 0.9949
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7344 0.3414 0.004953 0.5114-0.0003547 0.2572

mode bi ep g mu pl ilm ru ky q H2O
0.2572 0.01106 0.03286 0.1236 0.2356 0.004802 0.003097 0 0.3149 0.01692

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.40 644.5 0.4034 0.2702 0.03677 0.08675 0.3097 0.2459
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2357 0.8035 0.1752 0.01136 0.3670 0.9940
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7123 0.3379 0.004933 0.5094-0.0003920 0.2539

mode bi ep g mu pl ilm ru ky q H2O
0.2539 0.01049 0.03588 0.1235 0.2372 0.004864 0.003121 0 0.3137 0.01740

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.44 644.9 0.3990 0.2674 0.03710 0.08694 0.3116 0.2464
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2362 0.8006 0.1749 0.01141 0.3632 0.9930
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6910 0.3344 0.004912 0.5074-0.0004382 0.2506

mode bi ep g mu pl ilm ru ky q H2O
0.2506 0.01004 0.03880 0.1234 0.2386 0.004906 0.003149 0 0.3126 0.01784

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.48 645.2 0.3950 0.2648 0.03741 0.08712 0.3133 0.2469
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2366 0.7979 0.1746 0.01147 0.3597 0.9921
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6717 0.3308 0.004897 0.5054-0.0004946 0.2477

mode bi ep g mu pl ilm ru ky q H2O
0.2477 0.009755 0.04149 0.1235 0.2397 0.004923 0.003179 0 0.3116 0.01823

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.52 645.6 0.3914 0.2624 0.03769 0.08730 0.3147 0.2474
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2370 0.7955 0.1744 0.01153 0.3566 0.9911
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6546 0.3274 0.004890 0.5036-0.0005640 0.2450

mode bi ep g mu pl ilm ru ky q H2O
0.2450 0.009601 0.04391 0.1236 0.2406 0.004921 0.003209 0 0.3107 0.01856

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.56 646.0 0.3881 0.2603 0.03796 0.08748 0.3159 0.2479
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2374 0.7932 0.1742 0.01159 0.3538 0.9901
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6392 0.3242 0.004890 0.5019-0.0006516 0.2426

mode bi ep g mu pl ilm ru ky q H2O
0.2426 0.009548 0.04611 0.1237 0.2412 0.004902 0.003239 0 0.3099 0.01884

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.60 646.4 0.3851 0.2584 0.03820 0.08766 0.3170 0.2484
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2378 0.7910 0.1741 0.01166 0.3512 0.9892
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6254 0.3210 0.004895 0.5002-0.0007663 0.2404

mode bi ep g mu pl ilm ru ky q H2O
0.2404 0.009566 0.04814 0.1239 0.2417 0.004874 0.003269 0 0.3092 0.01909

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.64 646.8 0.3823 0.2567 0.03843 0.08784 0.3179 0.2488
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2382 0.7890 0.1740 0.01173 0.3488 0.9882
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6127 0.3179 0.004905 0.4987-0.0009243 0.2383

mode bi ep g mu pl ilm ru ky q H2O
0.2383 0.009637 0.05001 0.1241 0.2420 0.004837 0.003298 0 0.3085 0.01931

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.68 647.2 0.3798 0.2551 0.03865 0.08803 0.3187 0.2493
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2386 0.7871 0.1740 0.01181 0.3467 0.9873
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6011 0.3150 0.004918 0.4972-0.001157 0.2364

mode bi ep g mu pl ilm ru ky q H2O
0.2364 0.009745 0.05177 0.1243 0.2423 0.004796 0.003326 0 0.3079 0.01951

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.72 647.7 0.3773 0.2535 0.03885 0.08822 0.3194 0.2497
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2389 0.7853 0.1741 0.01189 0.3446 0.9864
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5902 0.3121 0.004934 0.4958-0.001534 0.2346

mode bi ep g mu pl ilm ru ky q H2O
0.2346 0.009879 0.05343 0.1245 0.2424 0.004750 0.003354 0 0.3073 0.01969

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.76 648.2 0.3750 0.2521 0.03905 0.08841 0.3200 0.2501
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2393 0.7836 0.1741 0.01197 0.3427 0.9855
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5800 0.3093 0.004953 0.4944-0.002259 0.2329

mode bi ep g mu pl ilm ru ky q H2O
0.2329 0.01003 0.05501 0.1247 0.2426 0.004702 0.003381 0 0.3068 0.01986

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.80 648.7 0.3728 0.2508 0.03925 0.08861 0.3205 0.2506
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2397 0.7819 0.1742 0.01206 0.3408 0.9846
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5704 0.3066 0.004974 0.4931-0.004222 0.2313

mode bi ep g mu pl ilm ru ky q H2O
0.2313 0.01020 0.05653 0.1249 0.2427 0.004652 0.003407 0 0.3063 0.02002

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.88 649.6 0.3687 0.2483 0.03962 0.08900 0.3214 0.2514
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2404 0.7787 0.1744 0.01224 0.3374 0.9827
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5526 0.3013 0.005022 0.4905 0.005977 0.2283

mode bi ep g mu pl ilm ru ky q H2O
0.2283 0.01056 0.05938 0.1254 0.2427 0.004549 0.003457 0 0.3053 0.02030

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.92 650.2 0.3667 0.2471 0.03979 0.08920 0.3218 0.2518
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2407 0.7771 0.1746 0.01233 0.3358 0.9818
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5442 0.2988 0.005048 0.4892 0.002724 0.2268

mode bi ep g mu pl ilm ru ky q H2O
0.2268 0.01075 0.06074 0.1257 0.2427 0.004496 0.003481 0 0.3049 0.02043

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.96 650.7 0.3648 0.2460 0.03997 0.08941 0.3221 0.2523
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2410 0.7756 0.1748 0.01243 0.3342 0.9809
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5363 0.2963 0.005075 0.4880 0.001771 0.2254

mode bi ep g mu pl ilm ru ky q H2O
0.2254 0.01094 0.06205 0.1259 0.2427 0.004444 0.003504 0 0.3044 0.02056

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.00 651.2 0.3630 0.2450 0.04014 0.08961 0.3224 0.2527
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2414 0.7741 0.1749 0.01252 0.3327 0.9799
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5286 0.2938 0.005103 0.4868 0.001314 0.2241

mode bi ep g mu pl ilm ru ky q H2O
0.2241 0.01113 0.06334 0.1262 0.2427 0.004392 0.003527 0 0.3040 0.02068

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.04 651.7 0.3612 0.2439 0.04031 0.08982 0.3226 0.2531
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2417 0.7727 0.1751 0.01262 0.3313 0.9790
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5211 0.2914 0.005133 0.4856 0.001046 0.2227

mode bi ep g mu pl ilm ru ky q H2O
0.2227 0.01131 0.06459 0.1264 0.2426 0.004340 0.003549 0 0.3036 0.02079

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.08 652.3 0.3595 0.2429 0.04047 0.09002 0.3228 0.2535
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2420 0.7712 0.1753 0.01272 0.3299 0.9781
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5139 0.2891 0.005163 0.48440.0008696 0.2215

mode bi ep g mu pl ilm ru ky q H2O
0.2215 0.01150 0.06581 0.1267 0.2426 0.004289 0.003571 0 0.3032 0.02090

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.12 652.8 0.3578 0.2420 0.04063 0.09023 0.3230 0.2539
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2424 0.7698 0.1756 0.01282 0.3285 0.9771
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5069 0.2868 0.005195 0.48320.0007446 0.2202

mode bi ep g mu pl ilm ru ky q H2O
0.2202 0.01168 0.06700 0.1269 0.2425 0.004238 0.003592 0 0.3028 0.02101

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.16 653.4 0.3561 0.2410 0.04079 0.09045 0.3231 0.2543
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2427 0.7684 0.1758 0.01293 0.3271 0.9762
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5001 0.2845 0.005227 0.48210.0006513 0.2190

mode bi ep g mu pl ilm ru ky q H2O
0.2190 0.01186 0.06817 0.1272 0.2425 0.004188 0.003613 0 0.3025 0.02112

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.20 653.9 0.3545 0.2401 0.04095 0.09066 0.3233 0.2547
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2430 0.7670 0.1760 0.01304 0.3258 0.9752
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4935 0.2823 0.005260 0.48100.0005791 0.2177

mode bi ep g mu pl ilm ru ky q H2O
0.2177 0.01203 0.06932 0.1274 0.2424 0.004140 0.003633 0 0.3021 0.02122

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.24 654.5 0.3529 0.2393 0.04111 0.09087 0.3233 0.2551
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2434 0.7656 0.1763 0.01315 0.3245 0.9742
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4871 0.2801 0.005294 0.47980.0005214 0.2166

mode bi ep g mu pl ilm ru ky q H2O
0.2166 0.01220 0.07046 0.1277 0.2423 0.004092 0.003652 0 0.3017 0.02132

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.28 655.1 0.3514 0.2384 0.04126 0.09109 0.3234 0.2555
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2437 0.7643 0.1766 0.01326 0.3233 0.9732
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4808 0.2780 0.005328 0.47870.0004743 0.2154

mode bi ep g mu pl ilm ru ky q H2O
0.2154 0.01236 0.07157 0.1279 0.2423 0.004045 0.003671 0 0.3014 0.02142

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.32 655.6 0.3498 0.2376 0.04142 0.09131 0.3234 0.2559
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2440 0.7629 0.1768 0.01337 0.3221 0.9722
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4747 0.2759 0.005363 0.47760.0004351 0.2142

mode bi ep g mu pl ilm ru ky q H2O
0.2142 0.01252 0.07266 0.1281 0.2422 0.003999 0.003690 0 0.3010 0.02152

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.36 656.2 0.3483 0.2368 0.04157 0.09153 0.3234 0.2563
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2443 0.7616 0.1771 0.01348 0.3209 0.9712
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4686 0.2738 0.005399 0.47660.0004020 0.2131

mode bi ep g mu pl ilm ru ky q H2O
0.2131 0.01266 0.07374 0.1284 0.2421 0.003954 0.003708 0 0.3007 0.02161

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.40 656.8 0.3468 0.2360 0.04172 0.09175 0.3234 0.2567
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2446 0.7603 0.1774 0.01360 0.3197 0.9702
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4627 0.2718 0.005436 0.47550.0003735 0.2120

mode bi ep g mu pl ilm ru ky q H2O
0.2120 0.01280 0.07481 0.1286 0.2421 0.003910 0.003726 0 0.3003 0.02171

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.44 657.4 0.3454 0.2353 0.04186 0.09197 0.3234 0.2571
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2450 0.7590 0.1777 0.01372 0.3185 0.9692
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4570 0.2698 0.005473 0.47440.0003489 0.2109

mode bi ep g mu pl ilm ru ky q H2O
0.2109 0.01294 0.07586 0.1289 0.2420 0.003868 0.003743 0 0.3000 0.02180

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.48 658.0 0.3439 0.2345 0.04201 0.09220 0.3233 0.2575
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2453 0.7577 0.1781 0.01384 0.3174 0.9682
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4513 0.2679 0.005511 0.47340.0003274 0.2098

mode bi ep g mu pl ilm ru ky q H2O
0.2098 0.01306 0.07690 0.1291 0.2420 0.003827 0.003759 0 0.2997 0.02189

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.52 658.6 0.3425 0.2338 0.04216 0.09242 0.3232 0.2579
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2456 0.7564 0.1784 0.01396 0.3163 0.9672
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4457 0.2659 0.005549 0.47240.0003084 0.2087

mode bi ep g mu pl ilm ru ky q H2O
0.2087 0.01318 0.07793 0.1293 0.2419 0.003787 0.003776 0 0.2994 0.02198

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.56 659.2 0.3411 0.2331 0.04230 0.09265 0.3231 0.2583
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2459 0.7551 0.1787 0.01409 0.3151 0.9661
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4402 0.2641 0.005588 0.47130.0002914 0.2077

mode bi ep g mu pl ilm ru ky q H2O
0.2077 0.01329 0.07895 0.1296 0.2418 0.003748 0.003791 0 0.2990 0.02207

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.60 659.8 0.3397 0.2324 0.04245 0.09288 0.3230 0.2587
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2462 0.7538 0.1791 0.01421 0.3141 0.9650
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4348 0.2622 0.005627 0.47030.0002763 0.2066

mode bi ep g mu pl ilm ru ky q H2O
0.2066 0.01340 0.07996 0.1298 0.2418 0.003710 0.003807 0 0.2987 0.02216

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.64 660.4 0.3384 0.2317 0.04259 0.09311 0.3229 0.2591
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2465 0.7525 0.1794 0.01434 0.3130 0.9640
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4295 0.2604 0.005668 0.46930.0002626 0.2056

mode bi ep g mu pl ilm ru ky q H2O
0.2056 0.01349 0.08095 0.1301 0.2418 0.003674 0.003822 0 0.2984 0.02225

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.68 661.1 0.3370 0.2311 0.04273 0.09335 0.3227 0.2595
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2468 0.7513 0.1798 0.01447 0.3119 0.9629
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4242 0.2586 0.005708 0.46830.0002503 0.2046

mode bi ep g mu pl ilm ru ky q H2O
0.2046 0.01357 0.08194 0.1303 0.2417 0.003640 0.003836 0 0.2981 0.02234

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.72 661.7 0.3357 0.2305 0.04288 0.09359 0.3226 0.2599
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2472 0.7500 0.1802 0.01461 0.3109 0.9618
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4191 0.2569 0.005750 0.46730.0002391 0.2035

mode bi ep g mu pl ilm ru ky q H2O
0.2035 0.01365 0.08292 0.1305 0.2417 0.003606 0.003850 0 0.2978 0.02243

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.76 662.3 0.3344 0.2299 0.04302 0.09382 0.3224 0.2603
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2475 0.7488 0.1805 0.01474 0.3099 0.9607
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4140 0.2551 0.005792 0.46630.0002288 0.2025

mode bi ep g mu pl ilm ru ky q H2O
0.2025 0.01371 0.08390 0.1307 0.2417 0.003574 0.003864 0 0.2975 0.02252

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.80 663.0 0.3331 0.2293 0.04316 0.09407 0.3221 0.2607
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2478 0.7475 0.1809 0.01488 0.3089 0.9596
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4089 0.2535 0.005835 0.46530.0002194 0.2015

mode bi ep g mu pl ilm ru ky q H2O
0.2015 0.01377 0.08486 0.1310 0.2416 0.003544 0.003877 0 0.2972 0.02260

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.84 663.6 0.3318 0.2287 0.04330 0.09431 0.3219 0.2611
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2481 0.7462 0.1813 0.01502 0.3079 0.9585
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4040 0.2518 0.005878 0.46440.0002107 0.2005

mode bi ep g mu pl ilm ru ky q H2O
0.2005 0.01382 0.08582 0.1312 0.2416 0.003515 0.003890 0 0.2969 0.02269

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.88 664.3 0.3305 0.2281 0.04344 0.09455 0.3217 0.2615
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2484 0.7450 0.1817 0.01517 0.3069 0.9574
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3991 0.2502 0.005922 0.46340.0002027 0.1996

mode bi ep g mu pl ilm ru ky q H2O
0.1996 0.01385 0.08677 0.1314 0.2416 0.003487 0.003902 0 0.2966 0.02278

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.92 665.0 0.3293 0.2276 0.04358 0.09480 0.3214 0.2619
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2487 0.7437 0.1822 0.01531 0.3059 0.9562
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3942 0.2486 0.005967 0.46250.0001953 0.1986

mode bi ep g mu pl ilm ru ky q H2O
0.1986 0.01388 0.08772 0.1316 0.2416 0.003461 0.003914 0 0.2963 0.02287

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.96 665.6 0.3280 0.2270 0.04372 0.09505 0.3211 0.2623
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2490 0.7425 0.1826 0.01546 0.3049 0.9551
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3894 0.2471 0.006012 0.46150.0001883 0.1976

mode bi ep g mu pl ilm ru ky q H2O
0.1976 0.01390 0.08866 0.1319 0.2416 0.003437 0.003926 0 0.2960 0.02296

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.00 666.3 0.3268 0.2265 0.04386 0.09531 0.3208 0.2627
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2493 0.7413 0.1830 0.01561 0.3040 0.9539
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3846 0.2455 0.006058 0.46060.0001819 0.1966

mode bi ep g mu pl ilm ru ky q H2O
0.1966 0.01390 0.08960 0.1321 0.2416 0.003414 0.003937 0 0.2957 0.02305

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.04 667.0 0.3255 0.2260 0.04400 0.09556 0.3205 0.2631
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2496 0.7400 0.1835 0.01577 0.3031 0.9528
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3799 0.2441 0.006105 0.45970.0001759 0.1957

mode bi ep g mu pl ilm ru ky q H2O
0.1957 0.01390 0.09053 0.1323 0.2417 0.003392 0.003948 0 0.2955 0.02314

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.08 667.7 0.3243 0.2255 0.04413 0.09582 0.3201 0.2635
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2499 0.7388 0.1840 0.01593 0.3021 0.9516
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3752 0.2426 0.006153 0.45870.0001703 0.1947

mode bi ep g mu pl ilm ru ky q H2O
0.1947 0.01388 0.09145 0.1325 0.2417 0.003373 0.003958 0 0.2952 0.02322

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.12 668.4 0.3231 0.2250 0.04427 0.09609 0.3198 0.2639
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2502 0.7376 0.1844 0.01609 0.3012 0.9504
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3706 0.2412 0.006201 0.45780.0001650 0.1938

mode bi ep g mu pl ilm ru ky q H2O
0.1938 0.01385 0.09238 0.1327 0.2417 0.003354 0.003968 0 0.2949 0.02331

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.16 669.1 0.3219 0.2246 0.04441 0.09635 0.3194 0.2643
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2505 0.7363 0.1849 0.01625 0.3003 0.9492
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3660 0.2398 0.006250 0.45690.0001600 0.1929

mode bi ep g mu pl ilm ru ky q H2O
0.1929 0.01381 0.09330 0.1329 0.2418 0.003338 0.003978 0 0.2946 0.02340

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.20 669.9 0.3207 0.2241 0.04455 0.09662 0.3190 0.2647
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2508 0.7351 0.1854 0.01642 0.2994 0.9480
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3615 0.2385 0.006301 0.45600.0001554 0.1919

mode bi ep g mu pl ilm ru ky q H2O
0.1919 0.01376 0.09421 0.1331 0.2418 0.003323 0.003987 0 0.2943 0.02350

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.24 670.6 0.3195 0.2237 0.04469 0.09689 0.3186 0.2651
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2511 0.7339 0.1859 0.01659 0.2985 0.9468
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3570 0.2372 0.006352 0.45510.0001509 0.1910

mode bi ep g mu pl ilm ru ky q H2O
0.1910 0.01370 0.09513 0.1333 0.2419 0.003310 0.003995 0 0.2940 0.02359

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.28 671.4 0.3184 0.2233 0.04483 0.09717 0.3182 0.2655
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2514 0.7326 0.1865 0.01677 0.2977 0.9455
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3525 0.2359 0.006404 0.45430.0001468 0.1901

mode bi ep g mu pl ilm ru ky q H2O
0.1901 0.01362 0.09604 0.1335 0.2420 0.003299 0.004004 0 0.2938 0.02368

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.32 672.1 0.3172 0.2229 0.04497 0.09745 0.3178 0.2659
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2517 0.7314 0.1870 0.01694 0.2968 0.9443
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3480 0.2346 0.006457 0.45340.0001428 0.1892

mode bi ep g mu pl ilm ru ky q H2O
0.1892 0.01353 0.09694 0.1337 0.2421 0.003289 0.004011 0 0.2935 0.02377

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.36 672.9 0.3161 0.2225 0.04510 0.09773 0.3173 0.2663
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2520 0.7302 0.1875 0.01713 0.2959 0.9430
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3436 0.2334 0.006511 0.45250.0001391 0.1882

mode bi ep g mu pl ilm ru ky q H2O
0.1882 0.01343 0.09785 0.1339 0.2422 0.003281 0.004019 0 0.2932 0.02387

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.40 673.7 0.3149 0.2221 0.04524 0.09802 0.3168 0.2667
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2523 0.7289 0.1881 0.01731 0.2951 0.9418
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3392 0.2323 0.006566 0.45170.0001355 0.1873

mode bi ep g mu pl ilm ru ky q H2O
0.1873 0.01331 0.09875 0.1341 0.2423 0.003275 0.004026 0 0.2929 0.02396

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.44 674.4 0.3138 0.2218 0.04538 0.09831 0.3163 0.2671
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2526 0.7277 0.1887 0.01751 0.2943 0.9405
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3348 0.2311 0.006622 0.45080.0001321 0.1864

mode bi ep g mu pl ilm ru ky q H2O
0.1864 0.01318 0.09965 0.1343 0.2424 0.003272 0.004032 0 0.2927 0.02406

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.48 675.2 0.3127 0.2214 0.04552 0.09861 0.3158 0.2675
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2529 0.7264 0.1893 0.01770 0.2934 0.9392
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3305 0.2300 0.006679 0.45000.0001289 0.1855

mode bi ep g mu pl ilm ru ky q H2O
0.1855 0.01304 0.1006 0.1345 0.2425 0.003270 0.004038 0 0.2924 0.02415

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.52 676.1 0.3115 0.2211 0.04566 0.09891 0.3153 0.2679
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2532 0.7252 0.1899 0.01790 0.2926 0.9379
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3261 0.2290 0.006738 0.44910.0001258 0.1846

mode bi ep g mu pl ilm ru ky q H2O
0.1846 0.01288 0.1015 0.1347 0.2427 0.003270 0.004044 0 0.2921 0.02425

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.56 676.9 0.3104 0.2208 0.04581 0.09921 0.3147 0.2684
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2535 0.7240 0.1905 0.01811 0.2918 0.9366
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3218 0.2280 0.006797 0.44830.0001229 0.1837

mode bi ep g mu pl ilm ru ky q H2O
0.1837 0.01270 0.1024 0.1349 0.2428 0.003272 0.004049 0 0.2919 0.02435

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.60 677.7 0.3093 0.2205 0.04595 0.09952 0.3142 0.2688
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2538 0.7227 0.1912 0.01832 0.2910 0.9353
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3176 0.2270 0.006859 0.44750.0001201 0.1828

mode bi ep g mu pl ilm ru ky q H2O
0.1828 0.01251 0.1033 0.1351 0.2430 0.003277 0.004054 0 0.2916 0.02445

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.64 678.6 0.3082 0.2202 0.04609 0.09984 0.3136 0.2692
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2541 0.7215 0.1918 0.01854 0.2902 0.9339
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3133 0.2261 0.006921 0.44670.0001174 0.1819

mode bi ep g mu pl ilm ru ky q H2O
0.1819 0.01230 0.1042 0.1352 0.2432 0.003283 0.004058 0 0.2913 0.02455

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.68 679.5 0.3071 0.2200 0.04623 0.1002 0.3130 0.2696
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2544 0.7202 0.1925 0.01876 0.2895 0.9326
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3090 0.2252 0.006985 0.44590.0001149 0.1810

mode bi ep g mu pl ilm ru ky q H2O
0.1810 0.01207 0.1051 0.1354 0.2434 0.003293 0.004061 0 0.2910 0.02465

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.72 680.4 0.3060 0.2198 0.04638 0.1005 0.3123 0.2700
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2547 0.7190 0.1932 0.01899 0.2887 0.9312
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3048 0.2243 0.007051 0.44510.0001124 0.1802

mode bi ep g mu pl ilm ru ky q H2O
0.1802 0.01183 0.1060 0.1356 0.2436 0.003304 0.004064 0 0.2908 0.02476

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.76 681.3 0.3049 0.2195 0.04652 0.1008 0.3117 0.2704
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2550 0.7177 0.1939 0.01922 0.2879 0.9299
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3005 0.2235 0.007119 0.44440.0001101 0.1793

mode bi ep g mu pl ilm ru ky q H2O
0.1793 0.01157 0.1069 0.1358 0.2438 0.003318 0.004067 0 0.2905 0.02486

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.80 682.2 0.3039 0.2194 0.04667 0.1012 0.3110 0.2709
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2553 0.7165 0.1947 0.01946 0.2872 0.9285
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2963 0.2228 0.007188 0.44360.0001078 0.1784

mode bi ep g mu pl ilm ru ky q H2O
0.1784 0.01128 0.1078 0.1359 0.2440 0.003335 0.004069 0 0.2902 0.02497

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.84 683.2 0.3028 0.2192 0.04681 0.1015 0.3103 0.2713
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2556 0.7152 0.1954 0.01971 0.2865 0.9271
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2921 0.2221 0.007259 0.44280.0001056 0.1775

mode bi ep g mu pl ilm ru ky q H2O
0.1775 0.01098 0.1087 0.1361 0.2443 0.003354 0.004070 0 0.2900 0.02508

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.88 684.1 0.3017 0.2190 0.04696 0.1019 0.3096 0.2717
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2559 0.7139 0.1962 0.01997 0.2857 0.9257
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2878 0.2214 0.007332 0.44210.0001036 0.1766

mode bi ep g mu pl ilm ru ky q H2O
0.1766 0.01065 0.1096 0.1362 0.2446 0.003377 0.004070 0 0.2897 0.02520

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.92 685.1 0.3006 0.2189 0.04711 0.1022 0.3088 0.2722
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2562 0.7127 0.1971 0.02023 0.2850 0.9243
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2836 0.2208 0.007407 0.44140.0001016 0.1758

mode bi ep g mu pl ilm ru ky q H2O
0.1758 0.01030 0.1105 0.1364 0.2449 0.003402 0.004070 0 0.2894 0.02531

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.96 686.1 0.2996 0.2188 0.04726 0.1026 0.3081 0.2726
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2565 0.7114 0.1979 0.02051 0.2843 0.9228
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2794 0.2203 0.007485 0.4406 9.962e-5 0.1749

mode bi ep g mu pl ilm ru ky q H2O
0.1749 0.009925 0.1114 0.1365 0.2452 0.003431 0.004070 0 0.2892 0.02543

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.00 687.2 0.2985 0.2187 0.04742 0.1030 0.3073 0.2730
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2568 0.7101 0.1988 0.02079 0.2836 0.9214
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2752 0.2198 0.007565 0.4399 9.776e-5 0.1740

mode bi ep g mu pl ilm ru ky q H2O
0.1740 0.009525 0.1123 0.1367 0.2455 0.003463 0.004068 0 0.2889 0.02555
calcs use:

composition (from script)

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197
<=====>
phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.14 639.8 0.4213 0.2828 0.03202 0.08510 0.3036 0.2290
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2207 0.8160 0.1794 0.01016 0.3803 0.9976
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8314 0.3632 0.004685 0.8138 0.7395 0.2711

mode bi ep g mu pl ilm ru ky q H2O
0.2711 0.01552 0.01125 0.1295 0.2258 0.01068 0 0 0.3223 0.01388
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197
<=====>
phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.86 628.9 0.4372 0.2687 0.02768 0.08127 0.3158 0.2162
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2093 0.8305 0.1860 0.009378 0.3918 0.9986
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8947 0.3571 0.004258 0.8577 0.7978 0.2809

mode bi ep g mu pl ilm ru q H2O
0.2809 0.02740 0 0.1419 0.2033 0.01002 0 0.3267 0.009772
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197
<=====>
phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O
<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.15	639.9	0.4211	0.2827	0.03207	0.08515	0.3036	0.2292
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2208	0.8159	0.1795	0.01019	0.3802	0.9976	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8298	0.3627	0.004697	0.8132	0.7387	0.2709	

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.2709	0.01537	0.01139	0.1288	0.2264	0.01069			00.0001843	0.3222 0.01401

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.17	640.3	0.4205	0.2823	0.03222	0.08529	0.3036	0.2297
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2213	0.8155	0.1796	0.01026	0.3799	0.9975	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8249	0.3615	0.004730	0.8115	0.7363	0.2705	

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.2705	0.01492	0.01180	0.1271	0.2282	0.01072			00.0006970	0.3217 0.01440

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.18	640.5	0.4202	0.2822	0.03229	0.08536	0.3037	0.2300
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2216	0.8152	0.1797	0.01030	0.3797	0.9974	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8223	0.3608	0.004745	0.8106	0.7351	0.2703	

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.2703	0.01469	0.01203	0.1262	0.2291	0.01073			00.0009526	0.3215 0.01459

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.19	640.7	0.4198	0.2819	0.03237	0.08543	0.3038	0.2303
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2218	0.8150	0.1798	0.01033	0.3794	0.9973	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8194	0.3602	0.004760	0.8097	0.7339	0.2700	

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.2700	0.01445	0.01227	0.1253	0.2300	0.01075			0 0.001208	0.3212 0.01479

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.20	640.9	0.4194	0.2817	0.03245	0.08550	0.3038	0.2306

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2221 0.8147 0.1798 0.01037 0.3792 0.9973
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8164 0.3595 0.004775 0.8088 0.7326 0.2698

mode bi ep g mu pl ilm ru ky q H2O
0.2698 0.01421 0.01254 0.1244 0.2309 0.01077 0 0.001462 0.3210 0.01499

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.21 641.1 0.4190 0.2815 0.03253 0.08557 0.3039 0.2309
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2223 0.8144 0.1798 0.01040 0.3789 0.9972
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8132 0.3589 0.004789 0.8078 0.7314 0.2694

mode bi ep g mu pl ilm ru ky q H2O
0.2694 0.01395 0.01282 0.1235 0.2318 0.01079 0 0.001716 0.3207 0.01520

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.22 641.3 0.4185 0.2812 0.03262 0.08564 0.3041 0.2312
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2226 0.8141 0.1799 0.01044 0.3786 0.9971
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8098 0.3582 0.004802 0.8068 0.7300 0.2691

mode bi ep g mu pl ilm ru ky q H2O
0.2691 0.01369 0.01313 0.1226 0.2328 0.01081 0 0.001969 0.3205 0.01541

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.24 641.7 0.4175 0.2805 0.03280 0.08578 0.3044 0.2318
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2231 0.8134 0.1799 0.01051 0.3778 0.9969
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8021 0.3568 0.004825 0.8048 0.7272 0.2684

mode bi ep g mu pl ilm ru ky q H2O
0.2684 0.01313 0.01384 0.1208 0.2348 0.01086 0 0.002474 0.3199 0.01584

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.26 642.1 0.4162 0.2797 0.03300 0.08591 0.3048 0.2324
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2237 0.8125 0.1799 0.01058 0.3768 0.9967
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7928 0.3553 0.004842 0.8025 0.7242 0.2674

mode bi ep g mu pl ilm ru ky q H2O
0.2674 0.01251 0.01471 0.1190 0.2369 0.01092 0 0.002978 0.3193 0.01630

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.27 642.2 0.4154 0.2792 0.03312 0.08598 0.3051 0.2328

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2240 0.8120 0.1798 0.01061 0.3762 0.9966
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7874 0.3545 0.004849 0.8013 0.7225 0.2668

mode bi ep g mu pl ilm ru ky q H2O
0.2668 0.01217 0.01522 0.1181 0.2380 0.01095 0 0.003230 0.3189 0.01655

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.28 642.4 0.4145 0.2786 0.03324 0.08605 0.3055 0.2331
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2243 0.8114 0.1797 0.01064 0.3755 0.9964
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7814 0.3537 0.004852 0.8000 0.7208 0.2662

mode bi ep g mu pl ilm ru ky q H2O
0.2662 0.01180 0.01581 0.1172 0.2392 0.01099 0 0.003484 0.3185 0.01681

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.29 642.6 0.4135 0.2779 0.03337 0.08611 0.3059 0.2335
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2246 0.8108 0.1796 0.01067 0.3747 0.9962
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7745 0.3528 0.004853 0.7986 0.7189 0.2654

mode bi ep g mu pl ilm ru ky q H2O
0.2654 0.01140 0.01647 0.1162 0.2405 0.01104 0 0.003742 0.3181 0.01709

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.30 642.7 0.4123 0.2772 0.03352 0.08617 0.3065 0.2339
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2250 0.8100 0.1795 0.01070 0.3737 0.9960
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7666 0.3518 0.004850 0.7971 0.7169 0.2646

mode bi ep g mu pl ilm ru ky q H2O
0.2646 0.01095 0.01725 0.1153 0.2418 0.01109 0 0.004006 0.3176 0.01739

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.31 642.8 0.4108 0.2762 0.03368 0.08622 0.3071 0.2343
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2254 0.8091 0.1792 0.01072 0.3724 0.9957
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7572 0.3507 0.004841 0.7954 0.7147 0.2635

mode bi ep g mu pl ilm ru ky q H2O
0.2635 0.01045 0.01817 0.1142 0.2433 0.01115 0 0.004281 0.3171 0.01773

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.32 642.9 0.4091 0.2750 0.03388 0.08627 0.3080 0.2348

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2258 0.8080 0.1789 0.01075 0.3709 0.9953
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7458 0.3495 0.004826 0.7935 0.7121 0.2623

mode bi ep g mu pl ilm ru ky q H2O
0.2623 0.009861 0.01928 0.1131 0.2451 0.01122 0 0.004578 0.3165 0.01811

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.33 642.9 0.4069 0.2735 0.03411 0.08631 0.3091 0.2354
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2263 0.8066 0.1784 0.01076 0.3690 0.9948
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7315 0.3480 0.004800 0.7913 0.7092 0.2607

mode bi ep g mu pl ilm ru ky q H2O
0.2607 0.009162 0.02066 0.1119 0.2471 0.01131 0 0.004917 0.3157 0.01857

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.34 642.8 0.4041 0.2716 0.03439 0.08632 0.3105 0.2360
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2269 0.8048 0.1778 0.01076 0.3665 0.9941
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7127 0.3461 0.004759 0.7886 0.7057 0.2587

mode bi ep g mu pl ilm ru ky q H2O
0.2587 0.008295 0.02243 0.1103 0.2497 0.01143 0 0.005337 0.3147 0.01914

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.35 642.6 0.4004 0.2689 0.03474 0.08629 0.3125 0.2368
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2276 0.8024 0.1768 0.01074 0.3631 0.9930
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6868 0.3435 0.004695 0.7852 0.7012 0.2560

mode bi ep g mu pl ilm ru ky q H2O
0.2560 0.007183 0.02473 0.1082 0.2531 0.01159 0 0.005930 0.3134 0.01991

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.36 642.1 0.3956 0.2654 0.03518 0.08619 0.3151 0.2377
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2285 0.7993 0.1753 0.01069 0.3587 0.9912
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6506 0.3399 0.004606 0.7809 0.6958 0.2526

mode bi ep g mu pl ilm ru ky q H2O
0.2526 0.005778 0.02762 0.1050 0.2578 0.01180 0 0.006854 0.3117 0.02096

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.37 641.4 0.3908 0.2617 0.03561 0.08604 0.3179 0.2386

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2293 0.7962 0.1737 0.01061 0.3541 0.9886
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6074 0.3358 0.004509 0.7765 0.6901 0.2491

mode bi ep g mu pl ilm ru ky q H2O
0.2491 0.004307 0.03051 0.1007 0.2634 0.01202 0 0.008151 0.3097 0.02220

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.38 640.8 0.3873 0.2589 0.03592 0.08589 0.3200 0.2393
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2299 0.7939 0.1725 0.01055 0.3508 0.9858
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5683 0.3321 0.004440 0.7730 0.6857 0.2465

mode bi ep g mu pl ilm ru ky q H2O
0.2465 0.003158 0.03259 0.09643 0.2683 0.01219 0 0.009477 0.3080 0.02331

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.39 640.5 0.3851 0.2571 0.03614 0.08581 0.3213 0.2398
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2304 0.7924 0.1717 0.01052 0.3487 0.9832
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5377 0.3295 0.004403 0.7704 0.6824 0.2449

mode bi ep g mu pl ilm ru ky q H2O
0.2449 0.002346 0.03389 0.09292 0.2721 0.01231 0 0.01059 0.3068 0.02415

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.40 640.3 0.3836 0.2560 0.03628 0.08577 0.3221 0.2402
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2307 0.7914 0.1713 0.01050 0.3474 0.9810
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5134 0.3275 0.004385 0.7685 0.6798 0.2438

mode bi ep g mu pl ilm ru ky q H2O
0.2438 0.001741 0.03473 0.09008 0.2750 0.01239 0 0.01150 0.3060 0.02480

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.41 640.3 0.3826 0.2552 0.03640 0.08577 0.3226 0.2405
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2310 0.7908 0.1710 0.01051 0.3465 0.9789
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4934 0.3261 0.004378 0.7668 0.6775 0.2431

mode bi ep g mu pl ilm ru ky q H2O
0.2431 0.001254 0.03532 0.08772 0.2773 0.01245 0 0.01226 0.3053 0.02532

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.43 640.5 0.3814 0.2543 0.03658 0.08583 0.3231 0.2410

Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
0.2315	0.7899	0.1708	0.01055	0.3454	0.9754
na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
0.4618	0.3241	0.004386	0.7640	0.6737	0.2421

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.24210	0.0004716	0.03607	0.08401	0.2810	0.01254		0	0.01344	0.3043 0.02612

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.44	640.6	0.3810	0.2540	0.03665	0.08589	0.3232	0.2412
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2317	0.7895	0.1708	0.01058	0.3451	0.9738
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.4488	0.3234	0.004396	0.7627	0.6719	0.2418

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.24180	0.0001334	0.03633	0.08249	0.2825	0.01257		0	0.01392	0.3039 0.02643

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.86	628.9	0.4372	0.2688	0.02769	0.08128	0.3157	0.2162
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2093	0.8304	0.1859	0.009381	0.3918	0.9986
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8946	0.3571	0.004259	0.8576	0.7976	0.2808

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2808	0.02736	2.975e-5	0.1418	0.2034	0.01003		0	0.3267 0.009785

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.88	629.7	0.4363	0.2702	0.02802	0.08157	0.3145	0.2173
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2103	0.8295	0.1854	0.009437	0.3912	0.9986
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8916	0.3578	0.004295	0.8546	0.7938	0.2804

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2804	0.026520	0.0006805	0.1409	0.2050	0.01006		0	0.3265 0.01006

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.90	630.6	0.4354	0.2716	0.02834	0.08186	0.3134	0.2183
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2112	0.8286	0.1849	0.009493	0.3906	0.9985
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi

0.8886 0.3585 0.004330 0.8517 0.7900 0.2799

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2799	0.02569	0.001338	0.1399	0.2065	0.01009	0	0.3262	0.01034

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.92 631.4 0.4345 0.2729 0.02865 0.08214 0.3122 0.2193
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2121 0.8277 0.1843 0.009549 0.3899 0.9985
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8853 0.3591 0.004364 0.8488 0.7861 0.2793

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2793	0.02487	0.002006	0.1390	0.2081	0.01013	0	0.3260	0.01062

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.94 632.2 0.4335 0.2742 0.02896 0.08242 0.3112 0.2202
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2129 0.8267 0.1839 0.009604 0.3893 0.9984
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8820 0.3597 0.004398 0.8458 0.7823 0.2788

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2788	0.02405	0.002686	0.1381	0.2096	0.01016	0	0.3257	0.01089

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.96 633.0 0.4326 0.2754 0.02926 0.08269 0.3102 0.2211
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2137 0.8258 0.1834 0.009660 0.3886 0.9984
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8784 0.3603 0.004432 0.8429 0.7783 0.2782

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2782	0.02324	0.003380	0.1372	0.2111	0.01020	0	0.3255	0.01117

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.98 633.8 0.4316 0.2765 0.02956 0.08297 0.3092 0.2221
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2145 0.8249 0.1829 0.009715 0.3879 0.9983
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8747 0.3608 0.004464 0.8399 0.7744 0.2776

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2776	0.02243	0.004093	0.1363	0.2127	0.01024	0	0.3252	0.01145

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 634.5 0.4305 0.2776 0.02986 0.08324 0.3083 0.2229
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2153 0.8239 0.1825 0.009771 0.3872 0.9983
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi

0.8707 0.3612 0.004496 0.8369 0.7704 0.2770

mode bi ep g mu pl ilm ru q H2O
0.2770 0.02162 0.004828 0.1354 0.2142 0.01028 0 0.3249 0.01172

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.02 635.3 0.4295 0.2786 0.03016 0.08351 0.3074 0.2238
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2161 0.8229 0.1821 0.009826 0.3864 0.9982
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8665 0.3616 0.004528 0.8338 0.7663 0.2764

mode bi ep g mu pl ilm ru q H2O
0.2764 0.02080 0.005589 0.1346 0.2157 0.01033 0 0.3246 0.01201

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.04 636.1 0.4283 0.2795 0.03046 0.08377 0.3066 0.2247
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2169 0.8219 0.1816 0.009881 0.3856 0.9981
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8620 0.3620 0.004558 0.8307 0.7622 0.2757

mode bi ep g mu pl ilm ru q H2O
0.2757 0.01998 0.006381 0.1337 0.2173 0.01038 0 0.3243 0.01229

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.06 636.8 0.4272 0.2803 0.03076 0.08403 0.3059 0.2255
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2176 0.8209 0.1812 0.009936 0.3848 0.9981
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8571 0.3624 0.004586 0.8276 0.7580 0.2749

mode bi ep g mu pl ilm ru q H2O
0.2749 0.01915 0.007210 0.1329 0.2188 0.01043 0 0.3240 0.01258

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.08 637.5 0.4259 0.2811 0.03105 0.08430 0.3052 0.2264
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2184 0.8198 0.1808 0.009991 0.3838 0.9980
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8518 0.3627 0.004614 0.8244 0.7537 0.2741

mode bi ep g mu pl ilm ru q H2O
0.2741 0.01831 0.008085 0.1321 0.2204 0.01048 0 0.3236 0.01288

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.10 638.3 0.4246 0.2818 0.03136 0.08455 0.3046 0.2272
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2191 0.8187 0.1804 0.01005 0.3828 0.9979
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi

0.8460 0.3629 0.004639 0.8211 0.7494 0.2733

mode bi ep g mu pl ilm ru q H2O
0.2733 0.01745 0.009014 0.1312 0.2221 0.01054 0 0.3233 0.01318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.12 639.0 0.4231 0.2823 0.03166 0.08481 0.3040 0.2280
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2198 0.8175 0.1799 0.01010 0.3817 0.9978
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8396 0.3631 0.004662 0.8178 0.7448 0.2723

mode bi ep g mu pl ilm ru q H2O
0.2723 0.01657 0.01001 0.1304 0.2238 0.01060 0 0.3228 0.01350

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.14 639.7 0.4215 0.2828 0.03198 0.08506 0.3036 0.2289
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2205 0.8162 0.1795 0.01015 0.3805 0.9976
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8325 0.3632 0.004683 0.8143 0.7402 0.2712

mode bi ep g mu pl ilm ru q H2O
0.2712 0.01565 0.01109 0.1296 0.2255 0.01067 0 0.3224 0.01383

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.16 640.4 0.4198 0.2830 0.03231 0.08532 0.3033 0.2297
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2213 0.8149 0.1790 0.01021 0.3791 0.9975
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8244 0.3632 0.004699 0.8107 0.7353 0.2701

mode bi ep g mu pl ilm ru q H2O
0.2701 0.01470 0.01228 0.1288 0.2274 0.01074 0 0.3219 0.01418

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.18 641.0 0.4178 0.2831 0.03265 0.08557 0.3031 0.2306
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2220 0.8133 0.1785 0.01026 0.3776 0.9973
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8152 0.3631 0.004711 0.8069 0.7302 0.2687

mode bi ep g mu pl ilm ru q H2O
0.2687 0.01368 0.01362 0.1279 0.2293 0.01083 0 0.3214 0.01456

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.20 641.7 0.4155 0.2830 0.03302 0.08581 0.3031 0.2315
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2228 0.8116 0.1779 0.01030 0.3757 0.9970
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi

0.8043 0.3630 0.004716 0.8028 0.7247 0.2671

mode bi ep g mu pl ilm ru q H2O
0.2671 0.01258 0.01515 0.1271 0.2315 0.01093 0 0.3207 0.01498

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.22 642.3 0.4127 0.2826 0.03342 0.08605 0.3033 0.2324
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2237 0.8096 0.1772 0.01035 0.3734 0.9967
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7910 0.3626 0.004712 0.7983 0.7187 0.2652

mode bi ep g mu pl ilm ru q H2O
0.2652 0.01134 0.01696 0.1262 0.2339 0.01105 0 0.3200 0.01545

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.24 642.8 0.4092 0.2817 0.03389 0.08629 0.3039 0.2335
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2246 0.8071 0.1763 0.01038 0.3704 0.9963
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7739 0.3620 0.004692 0.7932 0.7117 0.2628

mode bi ep g mu pl ilm ru q H2O
0.2628 0.009888 0.01923 0.1251 0.2367 0.01120 0 0.3190 0.01602

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.26 643.3 0.4043 0.2801 0.03450 0.08653 0.3050 0.2347
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2257 0.8037 0.1749 0.01040 0.3662 0.9956
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7496 0.3611 0.004644 0.7865 0.7028 0.2593

mode bi ep g mu pl ilm ru q H2O
0.2593 0.007980 0.02235 0.1239 0.2406 0.01142 0 0.3177 0.01678

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.28 643.7 0.3951 0.2767 0.03554 0.08677 0.3075 0.2366
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2274 0.7971 0.1720 0.01033 0.3579 0.9939
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7028 0.3595 0.004510 0.7749 0.6871 0.2529

mode bi ep g mu pl ilm ru q H2O
0.2529 0.004522 0.02807 0.1217 0.2476 0.01184 0 0.3152 0.01817

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.20 543.8 0.4327 0.2315 0.03667 0.06193 0.3749 0.2536
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2471 0.3571 0.9993 0.8445 0.4226 0.002530
x(ilm) Q(ilm)
0.7849 0.7325

mode bi ep mu pl ilm ru q H2O
0.27570.0001357 0.1346 0.2413 0.01349 0 0.3218 0.01298

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.24 544.8 0.4328 0.2321 0.03658 0.06215 0.3740 0.2532
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2467 0.3575 0.9993 0.8452 0.4219 0.002548
x(ilm) Q(ilm)
0.7860 0.7335

mode bi ep mu pl ilm ru q H2O
0.27580.0005006 0.1347 0.2408 0.01344 0 0.3219 0.01294

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.28 545.8 0.4328 0.2328 0.03649 0.06237 0.3732 0.2528
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2463 0.3579 0.9993 0.8459 0.4211 0.002566
x(ilm) Q(ilm)
0.7871 0.7346

mode bi ep mu pl ilm ru q H2O
0.27590.0008624 0.1347 0.2403 0.01339 0 0.3220 0.01290

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.32 546.8 0.4329 0.2334 0.03640 0.06259 0.3723 0.2524
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2459 0.3583 0.9993 0.8466 0.4204 0.002584
x(ilm) Q(ilm)
0.7882 0.7356

mode bi ep mu pl ilm ru q H2O
0.2760 0.001221 0.1348 0.2398 0.01334 0 0.3220 0.01286

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.36 547.7 0.4329 0.2340 0.03630 0.06281 0.3715 0.2520
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2455 0.3587 0.9993 0.8473 0.4196 0.002603
x(ilm) Q(ilm)
0.7892 0.7367

mode bi ep mu pl ilm ru q H2O

0.2760 0.001577 0.1349 0.2393 0.01330 0 0.3221 0.01282

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.40 548.7 0.4330 0.2346 0.03621 0.06303 0.3706 0.2516
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2451 0.3591 0.9993 0.8480 0.4189 0.002621
x(ilm) Q(ilm)
0.7903 0.7377

mode bi ep mu pl ilm ru q H2O
0.2761 0.001931 0.1350 0.2388 0.01325 0 0.3222 0.01278

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.44 549.7 0.4330 0.2352 0.03612 0.06324 0.3698 0.2512
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2447 0.3595 0.9993 0.8487 0.4182 0.002639
x(ilm) Q(ilm)
0.7913 0.7387

mode bi ep mu pl ilm ru q H2O
0.2762 0.002281 0.1350 0.2383 0.01320 0 0.3222 0.01274

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.48 550.7 0.4331 0.2358 0.03602 0.06346 0.3689 0.2508
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2443 0.3599 0.9993 0.8494 0.4174 0.002657
x(ilm) Q(ilm)
0.7924 0.7397

mode bi ep mu pl ilm ru q H2O
0.2762 0.002629 0.1351 0.2379 0.01315 0 0.3223 0.01270

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.52 551.6 0.4331 0.2363 0.03593 0.06368 0.3681 0.2504
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2439 0.3603 0.9993 0.8501 0.4167 0.002675
x(ilm) Q(ilm)
0.7934 0.7407

mode bi ep mu pl ilm ru q H2O
0.2763 0.002975 0.1352 0.2374 0.01311 0 0.3224 0.01266

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.56 552.6 0.4332 0.2369 0.03583 0.06390 0.3673 0.2500
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2435 0.3607 0.9993 0.8508 0.4160 0.002694
x(ilm) Q(ilm)
0.7944 0.7416

mode bi ep mu pl ilm ru q H2O

0.2764 0.003318 0.1353 0.2369 0.01306 0 0.3224 0.01262

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.60 553.6 0.4332 0.2375 0.03574 0.06412 0.3665 0.2496
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2431 0.3611 0.9993 0.8514 0.4152 0.002712
x(ilm) Q(ilm)
0.7954 0.7426

mode bi ep mu pl ilm ru q H2O
0.2764 0.003660 0.1353 0.2365 0.01301 0 0.3225 0.01258

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.64 554.5 0.4333 0.2381 0.03564 0.06434 0.3656 0.2492
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2427 0.3615 0.9993 0.8521 0.4145 0.002730
x(ilm) Q(ilm)
0.7964 0.7435

mode bi ep mu pl ilm ru q H2O
0.2765 0.003998 0.1354 0.2360 0.01297 0 0.3226 0.01255

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.68 555.5 0.4333 0.2387 0.03555 0.06456 0.3648 0.2488
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2423 0.3619 0.9993 0.8528 0.4138 0.002748
x(ilm) Q(ilm)
0.7974 0.7445

mode bi ep mu pl ilm ru q H2O
0.2766 0.004335 0.1355 0.2356 0.01292 0 0.3226 0.01251

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.72 556.5 0.4334 0.2392 0.03545 0.06477 0.3640 0.2485
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2419 0.3623 0.9993 0.8534 0.4131 0.002767
x(ilm) Q(ilm)
0.7984 0.7454

mode bi ep mu pl ilm ru q H2O
0.2767 0.004669 0.1355 0.2351 0.01287 0 0.3227 0.01247

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.76 557.4 0.4334 0.2398 0.03536 0.06499 0.3632 0.2480
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2415 0.3627 0.9993 0.8541 0.4123 0.002785
x(ilm) Q(ilm)
0.7993 0.7463

mode bi ep mu pl ilm ru q H2O

0.2767 0.005002 0.1356 0.2347 0.01283 0 0.3228 0.01243

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.80 558.4 0.4335 0.2403 0.03526 0.06521 0.3624 0.2476
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2410 0.3631 0.9992 0.8547 0.4116 0.002803
x(ilm) Q(ilm)
0.8003 0.7472

mode bi ep mu pl ilm ru q H2O
0.2768 0.005333 0.1357 0.2342 0.01278 0 0.3228 0.01240

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.84 559.4 0.4335 0.2409 0.03516 0.06543 0.3616 0.2472
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2406 0.3635 0.9992 0.8554 0.4109 0.002822
x(ilm) Q(ilm)
0.8013 0.7481

mode bi ep mu pl ilm ru q H2O
0.2769 0.005661 0.1357 0.2338 0.01274 0 0.3229 0.01236

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.88 560.3 0.4336 0.2414 0.03507 0.06565 0.3609 0.2468
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2402 0.3639 0.9992 0.8560 0.4102 0.002840
x(ilm) Q(ilm)
0.8022 0.7490

mode bi ep mu pl ilm ru q H2O
0.2769 0.005988 0.1358 0.2333 0.01270 0 0.3229 0.01232

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.92 561.3 0.4336 0.2420 0.03497 0.06586 0.3601 0.2464
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2398 0.3643 0.9992 0.8567 0.4095 0.002858
x(ilm) Q(ilm)
0.8031 0.7499

mode bi ep mu pl ilm ru q H2O
0.2770 0.006313 0.1359 0.2329 0.01265 0 0.3230 0.01228

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.96 562.2 0.4337 0.2425 0.03487 0.06608 0.3593 0.2460
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2394 0.3647 0.9992 0.8573 0.4088 0.002877
x(ilm) Q(ilm)
0.8041 0.7508

mode bi ep mu pl ilm ru q H2O

0.2771 0.006637 0.1359 0.2324 0.01261 0 0.3231 0.01225

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.00 563.2 0.4337 0.2431 0.03477 0.06630 0.3585 0.2456
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2390 0.3651 0.9992 0.8579 0.4080 0.002895
x(ilm) Q(ilm)
0.8050 0.7516

mode bi ep mu pl ilm ru q H2O
0.2771 0.006958 0.1360 0.2320 0.01257 0 0.3231 0.01221

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.04 564.2 0.4338 0.2436 0.03468 0.06651 0.3578 0.2452
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2386 0.3655 0.9992 0.8586 0.4073 0.002914
x(ilm) Q(ilm)
0.8059 0.7525

mode bi ep mu pl ilm ru q H2O
0.2772 0.007278 0.1361 0.2316 0.01252 0 0.3232 0.01218

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.08 565.1 0.4338 0.2441 0.03458 0.06673 0.3570 0.2448
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2382 0.3658 0.9992 0.8592 0.4066 0.002932
x(ilm) Q(ilm)
0.8068 0.7533

mode bi ep mu pl ilm ru q H2O
0.2772 0.007597 0.1361 0.2311 0.01248 0 0.3233 0.01214

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.12 566.1 0.4339 0.2446 0.03448 0.06695 0.3562 0.2444
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2378 0.3662 0.9992 0.8598 0.4059 0.002950
x(ilm) Q(ilm)
0.8077 0.7542

mode bi ep mu pl ilm ru q H2O
0.2773 0.007914 0.1362 0.2307 0.01244 0 0.3233 0.01210

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.16 567.0 0.4339 0.2451 0.03438 0.06716 0.3555 0.2440
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2373 0.3666 0.9992 0.8605 0.4052 0.002969
x(ilm) Q(ilm)
0.8086 0.7550

mode bi ep mu pl ilm ru q H2O

0.2774 0.008229 0.1363 0.2303 0.01240 0 0.3234 0.01207

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.20 568.0 0.4340 0.2456 0.03428 0.06738 0.3548 0.2436
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2369 0.3670 0.9992 0.8611 0.4045 0.002987
x(ilm) Q(ilm)
0.8095 0.7558

mode bi ep mu pl ilm ru q H2O
0.2774 0.008543 0.1363 0.2298 0.01235 0 0.3234 0.01203

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.24 568.9 0.4340 0.2462 0.03418 0.06759 0.3540 0.2432
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2365 0.3674 0.9992 0.8617 0.4038 0.003006
x(ilm) Q(ilm)
0.8104 0.7566

mode bi ep mu pl ilm ru q H2O
0.2775 0.008856 0.1364 0.2294 0.01231 0 0.3235 0.01200

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.28 569.9 0.4341 0.2467 0.03409 0.06781 0.3533 0.2428
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2361 0.3678 0.9992 0.8623 0.4031 0.003024
x(ilm) Q(ilm)
0.8113 0.7574

mode bi ep mu pl ilm ru q H2O
0.2776 0.009167 0.1365 0.2290 0.01227 0 0.3236 0.01196

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.32 570.8 0.4341 0.2471 0.03399 0.06803 0.3525 0.2424
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2357 0.3682 0.9992 0.8629 0.4024 0.003043
x(ilm) Q(ilm)
0.8121 0.7582

mode bi ep mu pl ilm ru q H2O
0.2776 0.009477 0.1366 0.2286 0.01223 0 0.3236 0.01193

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.36 571.8 0.4342 0.2476 0.03389 0.06824 0.3518 0.2420
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2353 0.3686 0.9992 0.8635 0.4017 0.003062
x(ilm) Q(ilm)
0.8130 0.7590

mode bi ep mu pl ilm ru q H2O

0.2777 0.009786 0.1366 0.2281 0.01219 0 0.3237 0.01189

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.40 572.7 0.4342 0.2481 0.03379 0.06846 0.3511 0.2416
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2349 0.3690 0.9992 0.8641 0.4010 0.003080
x(ilm) Q(ilm)
0.8138 0.7598

mode bi ep mu pl ilm ru q H2O
0.2778 0.01009 0.1367 0.2277 0.01215 0 0.3237 0.01186

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.44 573.7 0.4343 0.2486 0.03369 0.06867 0.3504 0.2412
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2344 0.3694 0.9992 0.8647 0.4003 0.003099
x(ilm) Q(ilm)
0.8147 0.7606

mode bi ep mu pl ilm ru q H2O
0.2778 0.01040 0.1368 0.2273 0.01211 0 0.3238 0.01182

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.48 574.6 0.4343 0.2491 0.03359 0.06889 0.3497 0.2408
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2340 0.3697 0.9991 0.8653 0.3995 0.003117
x(ilm) Q(ilm)
0.8155 0.7613

mode bi ep mu pl ilm ru q H2O
0.2779 0.01070 0.1368 0.2269 0.01207 0 0.3238 0.01179

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.52 575.6 0.4344 0.2496 0.03349 0.06910 0.3490 0.2403
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2336 0.3701 0.9991 0.8659 0.3988 0.003136
x(ilm) Q(ilm)
0.8164 0.7621

mode bi ep mu pl ilm ru q H2O
0.2779 0.01101 0.1369 0.2265 0.01203 0 0.3239 0.01175

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.56 576.5 0.4344 0.2500 0.03339 0.06932 0.3483 0.2399
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2332 0.3705 0.9991 0.8665 0.3981 0.003155
x(ilm) Q(ilm)
0.8172 0.7629

mode bi ep mu pl ilm ru q H2O

0.2780 0.01131 0.1370 0.2261 0.01199 0 0.3240 0.01172

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.60 577.5 0.4345 0.2505 0.03329 0.06953 0.3476 0.2395
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2328 0.3709 0.9991 0.8671 0.3974 0.003173
x(ilm) Q(ilm)
0.8180 0.7636

mode bi ep mu pl ilm ru q H2O
0.2781 0.01161 0.1370 0.2256 0.01195 0 0.3240 0.01169

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.64 578.4 0.4345 0.2509 0.03319 0.06974 0.3469 0.2391
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2324 0.3713 0.9991 0.8676 0.3967 0.003192
x(ilm) Q(ilm)
0.8189 0.7644

mode bi ep mu pl ilm ru q H2O
0.2781 0.01191 0.1371 0.2252 0.01191 0 0.3241 0.01165

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.68 579.3 0.4346 0.2514 0.03309 0.06996 0.3462 0.2387
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2320 0.3717 0.9991 0.8682 0.3960 0.003211
x(ilm) Q(ilm)
0.8197 0.7651

mode bi ep mu pl ilm ru q H2O
0.2782 0.01221 0.1372 0.2248 0.01187 0 0.3241 0.01162

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.72 580.3 0.4346 0.2518 0.03299 0.07017 0.3455 0.2383
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2315 0.3721 0.9991 0.8688 0.3953 0.003229
x(ilm) Q(ilm)
0.8205 0.7658

mode bi ep mu pl ilm ru q H2O
0.2782 0.01251 0.1372 0.2244 0.01183 0 0.3242 0.01158

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.76 581.2 0.4347 0.2523 0.03289 0.07038 0.3448 0.2379
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2311 0.3724 0.9991 0.8694 0.3946 0.003248
x(ilm) Q(ilm)
0.8213 0.7666

mode bi ep mu pl ilm ru q H2O

0.2783 0.01281 0.1373 0.2240 0.01179 0 0.3242 0.01155

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.80 582.2 0.4347 0.2527 0.03279 0.07060 0.3442 0.2375
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2307 0.3728 0.9991 0.8699 0.3939 0.003267
x(ilm) Q(ilm)
0.8221 0.7673

mode bi ep mu pl ilm ru q H2O
0.2784 0.01310 0.1374 0.2236 0.01176 0 0.3243 0.01151

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.84 583.1 0.4348 0.2531 0.03269 0.07081 0.3435 0.2371
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2303 0.3732 0.9991 0.8705 0.3932 0.003285
x(ilm) Q(ilm)
0.8229 0.7680

mode bi ep mu pl ilm ru q H2O
0.2784 0.01340 0.1375 0.2232 0.01172 0 0.3243 0.01148

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.88 584.0 0.4348 0.2536 0.03259 0.07102 0.3428 0.2366
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2299 0.3736 0.9991 0.8710 0.3925 0.003304
x(ilm) Q(ilm)
0.8237 0.7687

mode bi ep mu pl ilm ru q H2O
0.2785 0.01369 0.1375 0.2228 0.01168 0 0.3244 0.01145

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.92 585.0 0.4349 0.2540 0.03249 0.07124 0.3422 0.2362
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2295 0.3740 0.9991 0.8716 0.3918 0.003323
x(ilm) Q(ilm)
0.8245 0.7694

mode bi ep mu pl ilm ru q H2O
0.2785 0.01399 0.1376 0.2224 0.01164 0 0.3245 0.01141

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.96 585.9 0.4349 0.2544 0.03239 0.07145 0.3415 0.2358
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2290 0.3743 0.9991 0.8722 0.3911 0.003342
x(ilm) Q(ilm)
0.8253 0.7701

mode bi ep mu pl ilm ru q H2O

0.2786 0.01428 0.1377 0.2220 0.01160 0 0.3245 0.01138

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.00 586.8 0.4350 0.2548 0.03229 0.07166 0.3409 0.2354
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2286 0.3747 0.9991 0.8727 0.3904 0.003361
x(ilm) Q(ilm)
0.8260 0.7708

mode bi ep mu pl ilm ru q H2O
0.2786 0.01457 0.1378 0.2216 0.01157 0 0.3246 0.01134

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.04 587.8 0.4350 0.2552 0.03219 0.07187 0.3402 0.2350
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2282 0.3751 0.9990 0.8732 0.3897 0.003380
x(ilm) Q(ilm)
0.8268 0.7715

mode bi ep mu pl ilm ru q H2O
0.2787 0.01486 0.1378 0.2211 0.01153 0 0.3246 0.01131

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.08 588.7 0.4351 0.2556 0.03209 0.07208 0.3396 0.2346
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2278 0.3755 0.9990 0.8738 0.3890 0.003398
x(ilm) Q(ilm)
0.8276 0.7722

mode bi ep mu pl ilm ru q H2O
0.2788 0.01515 0.1379 0.2207 0.01149 0 0.3247 0.01128

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.12 589.6 0.4351 0.2560 0.03199 0.07230 0.3390 0.2342
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2274 0.3759 0.9990 0.8743 0.3883 0.003417
x(ilm) Q(ilm)
0.8283 0.7728

mode bi ep mu pl ilm ru q H2O
0.2788 0.01544 0.1380 0.2203 0.01146 0 0.3247 0.01124

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.16 590.5 0.4352 0.2564 0.03189 0.07251 0.3383 0.2338
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2270 0.3762 0.9990 0.8749 0.3876 0.003436
x(ilm) Q(ilm)
0.8291 0.7735

mode bi ep mu pl ilm ru q H2O

0.2789 0.01573 0.1381 0.2199 0.01142 0 0.3248 0.01121

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.20 591.5 0.4352 0.2568 0.03179 0.07272 0.3377 0.2333
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2265 0.3766 0.9990 0.8754 0.3869 0.003455
x(ilm) Q(ilm)
0.8299 0.7742

mode bi ep mu pl ilm ru q H2O
0.2789 0.01602 0.1381 0.2195 0.01138 0 0.3248 0.01118

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.24 592.4 0.4353 0.2572 0.03169 0.07293 0.3371 0.2329
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2261 0.3770 0.9990 0.8759 0.3862 0.003474
x(ilm) Q(ilm)
0.8306 0.7748

mode bi ep mu pl ilm ru q H2O
0.2790 0.01631 0.1382 0.2191 0.01135 0 0.3249 0.01114

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.28 593.3 0.4353 0.2576 0.03159 0.07314 0.3365 0.2325
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2257 0.3774 0.9990 0.8765 0.3855 0.003493
x(ilm) Q(ilm)
0.8314 0.7755

mode bi ep mu pl ilm ru q H2O
0.2790 0.01659 0.1383 0.2187 0.01131 0 0.3249 0.01111

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.32 594.2 0.4354 0.2580 0.03149 0.07335 0.3359 0.2321
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2253 0.3777 0.9990 0.8770 0.3848 0.003512
x(ilm) Q(ilm)
0.8321 0.7761

mode bi ep mu pl ilm ru q H2O
0.2791 0.01688 0.1384 0.2183 0.01128 0 0.3250 0.01107

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.36 595.2 0.4354 0.2583 0.03139 0.07356 0.3353 0.2317
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2249 0.3781 0.9990 0.8775 0.3841 0.003531
x(ilm) Q(ilm)
0.8328 0.7768

mode bi ep mu pl ilm ru q H2O

0.2791 0.01716 0.1384 0.2179 0.01124 0 0.3250 0.01104

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.40 596.1 0.4355 0.2587 0.03129 0.07377 0.3347 0.2313
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2244 0.3785 0.9990 0.8780 0.3834 0.003550
x(ilm) Q(ilm)
0.8336 0.7774

mode bi ep mu pl ilm ru q H2O
0.2792 0.01745 0.1385 0.2175 0.01120 0 0.3251 0.01101

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.44 597.0 0.4355 0.2590 0.03119 0.07398 0.3341 0.2309
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2240 0.3789 0.9990 0.8785 0.3826 0.003569
x(ilm) Q(ilm)
0.8343 0.7781

mode bi ep mu pl ilm ru q H2O
0.2792 0.01773 0.1386 0.2171 0.01117 0 0.3251 0.01097

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.48 597.9 0.4356 0.2594 0.03108 0.07419 0.3335 0.2304
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2236 0.3792 0.9990 0.8790 0.3819 0.003588
x(ilm) Q(ilm)
0.8350 0.7787

mode bi ep mu pl ilm ru q H2O
0.2793 0.01801 0.1387 0.2168 0.01113 0 0.3252 0.01094

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.52 598.8 0.4356 0.2597 0.03098 0.07440 0.3329 0.2300
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2232 0.3796 0.9990 0.8795 0.3812 0.003607
x(ilm) Q(ilm)
0.8357 0.7793

mode bi ep mu pl ilm ru q H2O
0.2793 0.01829 0.1388 0.2164 0.01110 0 0.3252 0.01091

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.56 599.8 0.4357 0.2601 0.03088 0.07461 0.3323 0.2296
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2228 0.3800 0.9989 0.8800 0.3805 0.003626
x(ilm) Q(ilm)
0.8365 0.7799

mode bi ep mu pl ilm ru q H2O

0.2794 0.01858 0.1389 0.2160 0.01106 0 0.3253 0.01087

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.60 600.7 0.4357 0.2604 0.03078 0.07482 0.3317 0.2292
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2224 0.3804 0.9989 0.8806 0.3798 0.003645
x(ilm) Q(ilm)
0.8372 0.7806

mode bi ep mu pl ilm ru q H2O
0.2794 0.01886 0.1389 0.2156 0.01103 0 0.3253 0.01084

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.64 601.6 0.4358 0.2608 0.03068 0.07502 0.3312 0.2288
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2219 0.3807 0.9989 0.8810 0.3791 0.003664
x(ilm) Q(ilm)
0.8379 0.7812

mode bi ep mu pl ilm ru q H2O
0.2795 0.01914 0.1390 0.2152 0.01100 0 0.3254 0.01081

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.68 602.5 0.4358 0.2611 0.03058 0.07523 0.3306 0.2284
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2215 0.3811 0.9989 0.8815 0.3784 0.003683
x(ilm) Q(ilm)
0.8386 0.7818

mode bi ep mu pl ilm ru q H2O
0.2795 0.01942 0.1391 0.2148 0.01096 0 0.3254 0.01077

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.72 603.4 0.4359 0.2614 0.03048 0.07544 0.3300 0.2279
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2211 0.3815 0.9989 0.8820 0.3777 0.003703
x(ilm) Q(ilm)
0.8393 0.7824

mode bi ep mu pl ilm ru q H2O
0.2796 0.01969 0.1392 0.2144 0.01093 0 0.3255 0.01074

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.76 604.3 0.4359 0.2617 0.03038 0.07565 0.3295 0.2275
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2207 0.3818 0.9989 0.8825 0.3770 0.003722
x(ilm) Q(ilm)
0.8400 0.7830

mode bi ep mu pl ilm ru q H2O

0.2796 0.01997 0.1393 0.2140 0.01089 0 0.3255 0.01070

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.80 605.2 0.4360 0.2620 0.03028 0.07586 0.3289 0.2271
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2203 0.3822 0.9989 0.8830 0.3763 0.003741
x(ilm) Q(ilm)
0.8407 0.7836

mode bi ep mu pl ilm ru q H2O
0.2797 0.02025 0.1394 0.2136 0.01086 0 0.3256 0.01067

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.84 606.1 0.4360 0.2624 0.03018 0.07606 0.3284 0.2267
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2199 0.3826 0.9989 0.8835 0.3755 0.003760
x(ilm) Q(ilm)
0.8414 0.7842

mode bi ep mu pl ilm ru q H2O
0.2797 0.02053 0.1394 0.2132 0.01083 0 0.3256 0.01064

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.88 607.0 0.4361 0.2627 0.03008 0.07627 0.3278 0.2263
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2194 0.3830 0.9989 0.8840 0.3748 0.003779
x(ilm) Q(ilm)
0.8421 0.7848

mode bi ep mu pl ilm ru q H2O
0.2798 0.02080 0.1395 0.2128 0.01079 0 0.3257 0.01060

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.92 607.9 0.4361 0.2630 0.02998 0.07648 0.3273 0.2259
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2190 0.3833 0.9989 0.8844 0.3741 0.003799
x(ilm) Q(ilm)
0.8427 0.7853

mode bi ep mu pl ilm ru q H2O
0.2798 0.02108 0.1396 0.2124 0.01076 0 0.3257 0.01057

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.96 608.8 0.4362 0.2633 0.02988 0.07668 0.3268 0.2255
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2186 0.3837 0.9989 0.8849 0.3734 0.003818
x(ilm) Q(ilm)
0.8434 0.7859

mode bi ep mu pl ilm ru q H2O

0.2799 0.02135 0.1397 0.2120 0.01073 0 0.3258 0.01054

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.00 609.7 0.4362 0.2636 0.02978 0.07689 0.3262 0.2250
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2182 0.3841 0.9988 0.8854 0.3727 0.003837
x(ilm) Q(ilm)
0.8441 0.7865

mode bi ep mu pl ilm ru q H2O
0.2799 0.02163 0.1398 0.2116 0.01069 0 0.3258 0.01050

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.04 610.7 0.4363 0.2638 0.02969 0.07710 0.3257 0.2246
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2178 0.3844 0.9988 0.8858 0.3720 0.003857
x(ilm) Q(ilm)
0.8448 0.7871

mode bi ep mu pl ilm ru q H2O
0.2800 0.02190 0.1399 0.2112 0.01066 0 0.3259 0.01047

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.08 611.6 0.4363 0.2641 0.02959 0.07730 0.3252 0.2242
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2174 0.3848 0.9988 0.8863 0.3713 0.003876
x(ilm) Q(ilm)
0.8454 0.7876

mode bi ep mu pl ilm ru q H2O
0.2800 0.02218 0.1400 0.2109 0.01063 0 0.3259 0.01043

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.12 612.4 0.4364 0.2644 0.02949 0.07751 0.3247 0.2238
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2169 0.3851 0.9988 0.8868 0.3705 0.003895
x(ilm) Q(ilm)
0.8461 0.7882

mode bi ep mu pl ilm ru q H2O
0.2801 0.02245 0.1401 0.2105 0.01060 0 0.3259 0.01040

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.16 613.3 0.4364 0.2647 0.02939 0.07772 0.3241 0.2234
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2165 0.3855 0.9988 0.8872 0.3698 0.003915
x(ilm) Q(ilm)
0.8467 0.7888

mode bi ep mu pl ilm ru q H2O

0.2801 0.02272 0.1402 0.2101 0.01056 0 0.3260 0.01037

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.20 614.2 0.4364 0.2649 0.02929 0.07792 0.3236 0.2230
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2161 0.3859 0.9988 0.8877 0.3691 0.003934
x(ilm) Q(ilm)
0.8474 0.7893

mode bi ep mu pl ilm ru q H2O
0.2802 0.02299 0.1403 0.2097 0.01053 0 0.3260 0.01033

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.24 615.1 0.4365 0.2652 0.02919 0.07813 0.3231 0.2226
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2157 0.3862 0.9988 0.8881 0.3684 0.003954
x(ilm) Q(ilm)
0.8481 0.7899

mode bi ep mu pl ilm ru q H2O
0.2802 0.02327 0.1403 0.2093 0.01050 0 0.3261 0.01030

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.28 616.0 0.4365 0.2655 0.02909 0.07833 0.3226 0.2221
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2153 0.3866 0.9988 0.8886 0.3677 0.003973
x(ilm) Q(ilm)
0.8487 0.7904

mode bi ep mu pl ilm ru q H2O
0.2803 0.02354 0.1404 0.2089 0.01047 0 0.3261 0.01027

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.32 616.9 0.4366 0.2657 0.02899 0.07854 0.3221 0.2217
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2149 0.3870 0.9988 0.8890 0.3669 0.003993
x(ilm) Q(ilm)
0.8493 0.7909

mode bi ep mu pl ilm ru q H2O
0.2803 0.02381 0.1405 0.2085 0.01044 0 0.3262 0.01023

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.36 617.8 0.4366 0.2660 0.02889 0.07874 0.3216 0.2213
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2144 0.3873 0.9988 0.8895 0.3662 0.004012
x(ilm) Q(ilm)
0.8500 0.7915

mode bi ep mu pl ilm ru q H2O

0.2803 0.02408 0.1406 0.2081 0.01041 0 0.3262 0.01020

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.40 618.7 0.4367 0.2662 0.02880 0.07894 0.3211 0.2209
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2140 0.3877 0.9987 0.8899 0.3655 0.004032
x(ilm) Q(ilm)
0.8506 0.7920

mode bi ep mu pl ilm ru q H2O
0.2804 0.02435 0.1407 0.2077 0.01037 0 0.3263 0.01016

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.44 619.6 0.4367 0.2665 0.02870 0.07915 0.3206 0.2205
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2136 0.3880 0.9987 0.8903 0.3648 0.004051
x(ilm) Q(ilm)
0.8513 0.7925

mode bi ep mu pl ilm ru q H2O
0.2804 0.02462 0.1408 0.2074 0.01034 0 0.3263 0.01013

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.48 620.5 0.4368 0.2667 0.02860 0.07935 0.3202 0.2201
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2132 0.3884 0.9987 0.8908 0.3640 0.004071
x(ilm) Q(ilm)
0.8519 0.7931

mode bi ep mu pl ilm ru q H2O
0.2805 0.02488 0.1409 0.2070 0.01031 0 0.3263 0.01010

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.52 621.4 0.4368 0.2669 0.02850 0.07956 0.3197 0.2197
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2128 0.3888 0.9987 0.8912 0.3633 0.004090
x(ilm) Q(ilm)
0.8525 0.7936

mode bi ep mu pl ilm ru q H2O
0.2805 0.02515 0.1410 0.2066 0.01028 0 0.3264 0.01006

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.56 622.3 0.4369 0.2671 0.02840 0.07976 0.3192 0.2192
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2124 0.3891 0.9987 0.8916 0.3626 0.004110
x(ilm) Q(ilm)
0.8531 0.7941

mode bi ep mu pl ilm ru q H2O

0.2806 0.02542 0.1411 0.2062 0.01025 0 0.3264 0.01003

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 623.1 0.4369 0.2674 0.02831 0.07996 0.3187 0.2188
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2120 0.3895 0.9987 0.8920 0.3618 0.004130
x(ilm) Q(ilm)
0.8538 0.7946

mode bi ep mu pl ilm ru q H2O
0.2806 0.02569 0.1412 0.2058 0.01022 0 0.3265 0.009994

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.64 624.0 0.4370 0.2676 0.02821 0.08016 0.3183 0.2184
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2116 0.3898 0.9987 0.8925 0.3611 0.004149
x(ilm) Q(ilm)
0.8544 0.7951

mode bi ep mu pl ilm ru q H2O
0.2806 0.02595 0.1413 0.2054 0.01019 0 0.3265 0.009960

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.68 624.9 0.4370 0.2678 0.02811 0.08037 0.3178 0.2180
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2111 0.3902 0.9987 0.8929 0.3604 0.004169
x(ilm) Q(ilm)
0.8550 0.7956

mode bi ep mu pl ilm ru q H2O
0.2807 0.02622 0.1414 0.2050 0.01016 0 0.3266 0.009925

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.72 625.8 0.4371 0.2680 0.02801 0.08057 0.3173 0.2176
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2107 0.3906 0.9987 0.8933 0.3597 0.004189
x(ilm) Q(ilm)
0.8556 0.7961

mode bi ep mu pl ilm ru q H2O
0.2807 0.02648 0.1415 0.2047 0.01013 0 0.3266 0.009891

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.76 626.7 0.4371 0.2682 0.02792 0.08077 0.3169 0.2172
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2103 0.3909 0.9986 0.8937 0.3589 0.004209
x(ilm) Q(ilm)
0.8562 0.7966

mode bi ep mu pl ilm ru q H2O

0.2808 0.02675 0.1416 0.2043 0.01010 0 0.3266 0.009857

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 627.6 0.4372 0.2684 0.02782 0.08097 0.3164 0.2168
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2099 0.3913 0.9986 0.8941 0.3582 0.004228
x(ilm) Q(ilm)
0.8568 0.7971

mode bi ep mu pl ilm ru q H2O
0.2808 0.02701 0.1417 0.2039 0.01007 0 0.3267 0.009823

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.84 628.4 0.4372 0.2686 0.02773 0.08117 0.3160 0.2164
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2095 0.3916 0.9986 0.8945 0.3574 0.004248
x(ilm) Q(ilm)
0.8574 0.7976

mode bi ep mu pl ilm ru q H2O
0.2809 0.02728 0.1418 0.2035 0.01004 0 0.3267 0.009789

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.88 629.3 0.4373 0.2688 0.02763 0.08138 0.3155 0.2160
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2091 0.3920 0.9986 0.8949 0.3567 0.004268
x(ilm) Q(ilm)
0.8580 0.7981

mode bi ep mu pl ilm ru q H2O
0.2809 0.02754 0.1419 0.2031 0.01001 0 0.3268 0.009755

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.92 630.2 0.4373 0.2690 0.02753 0.08158 0.3151 0.2156
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2087 0.3923 0.9986 0.8953 0.3560 0.004288
x(ilm) Q(ilm)
0.8586 0.7986

mode bi ep mu pl ilm ru q H2O
0.2809 0.02780 0.1420 0.2027 0.009979 0 0.3268 0.009720

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.96 631.1 0.4373 0.2692 0.02744 0.08178 0.3147 0.2151
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2083 0.3927 0.9986 0.8957 0.3552 0.004308
x(ilm) Q(ilm)
0.8592 0.7990

mode bi ep mu pl ilm ru q H2O

0.2810 0.02806 0.1421 0.2024 0.009950 0 0.3268 0.009686

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 631.9 0.4374 0.2694 0.02734 0.08198 0.3142 0.2147
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2079 0.3930 0.9986 0.8961 0.3545 0.004328
x(ilm) Q(ilm)
0.8598 0.7995

mode bi ep mu pl ilm ru q H2O
0.2810 0.02833 0.1422 0.2020 0.009921 0 0.3269 0.009652

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.86 628.8 0.4373 0.2685 0.02766 0.08126 0.3159 0.2161
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2093 0.8306 0.1861 0.009384 0.3919 0.9986
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8949 0.3568 0.004260 0.8579 0.7980 0.2809

mode bi ep g mu pl ilm ru q H2O
0.2809 0.02754 0 0.1420 0.2031 0.009980 1.671e-5 0.3268 0.009739

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.00 571.7 0.4597 0.2480 0.09971 0.06043 0.3168 0.4081
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3679 0.8415 0.06879 0.007730 0.4002 0.9998
na(mu) ca(pl) k(pl)
0.9680 0.4239 0.001286

mode bi ep g mu pl ru q H2O
0.29770 0.0007909 0 0.1194 0.2390 0.004658 0.3258 0.01266

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.15 573.9 0.4597 0.2493 0.09553 0.06115 0.3169 0.4019
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3640 0.8411 0.07168 0.007755 0.4004 0.9998
na(mu) ca(pl) k(pl)
0.9669 0.4212 0.001349

mode bi ep g mu pl ru q H2O
0.2974 0.002405 0 0.1208 0.2365 0.004632 0.3259 0.01239

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.30 576.1 0.4597 0.2505 0.09140 0.06187 0.3171 0.3956
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3599 0.8409 0.07472 0.007784 0.4006 0.9997
na(mu) ca(pl) k(pl)
0.9658 0.4185 0.001415

mode bi ep g mu pl ru q H2O
0.2971 0.004039 0 0.1222 0.2341 0.004607 0.3259 0.01211

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.45 578.2 0.4597 0.2515 0.08735 0.06258 0.3174 0.3892
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3555 0.8407 0.07794 0.007818 0.4009 0.9997
na(mu) ca(pl) k(pl)
0.9646 0.4156 0.001483

mode bi ep g mu pl ru q H2O
0.2967 0.005697 0 0.1236 0.2315 0.004581 0.3260 0.01183

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.60 580.3 0.4597 0.2523 0.08336 0.06328 0.3178 0.3825
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3509 0.8405 0.08133 0.007856 0.4011 0.9997
na(mu) ca(pl) k(pl)
0.9634 0.4127 0.001554

mode bi ep g mu pl ru q H2O
0.2964 0.007379 0 0.1251 0.2290 0.004556 0.3261 0.01154

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.75 582.3 0.4597 0.2530 0.07945 0.06398 0.3183 0.3756
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3460 0.8405 0.08492 0.007901 0.4014 0.9997
na(mu) ca(pl) k(pl)
0.9622 0.4096 0.001629

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2960	0.009088	0	0.1266	0.2263	0.004532	0.3262	0.01124

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.90	584.3	0.4597	0.2535	0.07562	0.06467	0.3188	0.3685
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3409	0.8405	0.08870	0.007951	0.4017	0.9997	
	na(mu)	ca(pl)	k(pl)				
	0.9609	0.4064	0.001706				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2957	0.01083	0	0.1281	0.2237	0.004508	0.3263	0.01093

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.05	586.3	0.4597	0.2538	0.07187	0.06536	0.3194	0.3613
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3354	0.8405	0.09270	0.008007	0.4020	0.9996	
	na(mu)	ca(pl)	k(pl)				
	0.9597	0.4031	0.001786				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2953	0.01260	0	0.1297	0.2209	0.004484	0.3264	0.01062

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.20	588.2	0.4597	0.2539	0.06821	0.06603	0.3201	0.3538
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3297	0.8407	0.09692	0.008070	0.4023	0.9996	
	na(mu)	ca(pl)	k(pl)				
	0.9584	0.3996	0.001870				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2950	0.01440	0	0.1313	0.2181	0.004461	0.3264	0.01030

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.35	590.1	0.4597	0.2538	0.06464	0.06670	0.3209	0.3462
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3238	0.8409	0.1014	0.008140	0.4027	0.9996	
	na(mu)	ca(pl)	k(pl)				
	0.9571	0.3959	0.001958				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2946	0.01625	0	0.1330	0.2152	0.004438	0.3265	0.009966

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.50	592.0	0.4597	0.2535	0.06117	0.06735	0.3218	0.3384
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3176	0.8412	0.1061	0.008217	0.4031	0.9996	
	na(mu)	ca(pl)	k(pl)				
	0.9557	0.3919	0.002050				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2942	0.01813	0	0.1347	0.2123	0.004416	0.3266	0.009625

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.65	593.7	0.4597	0.2530	0.05781	0.06800	0.3228	0.3304
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3111	0.8415	0.1110	0.008302	0.4035	0.9995	
	na(mu)	ca(pl)	k(pl)				
	0.9544	0.3878	0.002146				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2939	0.02005	0	0.1364	0.2093	0.004395	0.3267	0.009274

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.80	595.5	0.4597	0.2523	0.05456	0.06864	0.3239	0.3222
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3044	0.8419	0.1162	0.008395	0.4039	0.9995	
	na(mu)	ca(pl)	k(pl)				
	0.9530	0.3834	0.002246				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2935	0.02203	0	0.1382	0.2062	0.004374	0.3268	0.008912

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.95	597.2	0.4597	0.2513	0.05143	0.06927	0.3251	0.3139
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2974	0.8424	0.1216	0.008496	0.4043	0.9995	
	na(mu)	ca(pl)	k(pl)				
	0.9516	0.3788	0.002352				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2931	0.02404	0	0.1401	0.2030	0.004353	0.3269	0.008540

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.10	598.9	0.4597	0.2501	0.04842	0.06988	0.3264	0.3056
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2903	0.8429	0.1272	0.008605	0.4048	0.9995	
	na(mu)	ca(pl)	k(pl)				
	0.9502	0.3739	0.002463				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2928	0.02611	0	0.1420	0.1997	0.004333	0.3270	0.008158

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.25	600.5	0.4597	0.2487	0.04555	0.07049	0.3278	0.2971
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2831	0.8435	0.1331	0.008723	0.4053	0.9994	
	na(mu)	ca(pl)	k(pl)				
	0.9488	0.3686	0.002580				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2924	0.02822	0	0.1439	0.1963	0.004314	0.3271	0.007765

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.40	602.1	0.4597	0.2471	0.04282	0.07108	0.3293	0.2887
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2757	0.8442	0.1392	0.008849	0.4059	0.9994	
	na(mu)	ca(pl)	k(pl)				
	0.9473	0.3631	0.002703				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2920	0.03038	0	0.1459	0.1929	0.004295	0.3272	0.007361

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.55	603.7	0.4597	0.2452	0.04023	0.07167	0.3309	0.2803
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2683	0.8449	0.1455	0.008984	0.4064	0.9993	
	na(mu)	ca(pl)	k(pl)				
	0.9459	0.3572	0.002833				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2916	0.03258	0	0.1479	0.1893	0.004277	0.3273	0.006949

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.70	605.2	0.4597	0.2431	0.03779	0.07224	0.3326	0.2719
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2609	0.8456	0.1520	0.009128	0.4070	0.9993	
	na(mu)	ca(pl)	k(pl)				
	0.9445	0.3509	0.002970				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2912	0.03481	0	0.1500	0.1858	0.004260	0.3275	0.006528

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
8.85	606.7	0.4597	0.2407	0.03550	0.07279	0.3343	0.2638
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2536	0.8464	0.1586	0.009281	0.4077	0.9993	
	na(mu)	ca(pl)	k(pl)				
	0.9431	0.3443	0.003115				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2908	0.03708	0	0.1521	0.1821	0.004243	0.3276	0.006099

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.00	608.2	0.4597	0.2382	0.03337	0.07334	0.3362	0.2558
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2463	0.8472	0.1654	0.009444	0.4083	0.9992	
	na(mu)	ca(pl)	k(pl)				
	0.9417	0.3373	0.003268				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2905	0.03937	0	0.1542	0.1784	0.004227	0.3277	0.005666

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.15	609.6	0.4597	0.2354	0.03140	0.07387	0.3381	0.2481
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2393	0.8480	0.1722	0.009617	0.4090	0.9992	
	na(mu)	ca(pl)	k(pl)				
	0.9404	0.3299	0.003429				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2901	0.04166	0	0.1563	0.1747	0.004211	0.3278	0.005229

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.30	611.0	0.4597	0.2325	0.02957	0.07439	0.3400	0.2407
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2325	0.8489	0.1791	0.009801	0.4097	0.9991	
	na(mu)	ca(pl)	k(pl)				
	0.9391	0.3222	0.003599				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2897	0.04396	0	0.1584	0.1710	0.004196	0.3279	0.004790

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.45	612.3	0.4597	0.2294	0.02789	0.07490	0.3420	0.2337
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2260	0.8497	0.1860	0.009996	0.4104	0.9991	
	na(mu)	ca(pl)	k(pl)				
	0.9377	0.3143	0.003779				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2893	0.04623	0	0.1606	0.1673	0.004181	0.3281	0.004353

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.60	613.6	0.4597	0.2262	0.02635	0.07539	0.3441	0.2270
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2199	0.8505	0.1930	0.01020	0.4112	0.9990	
	na(mu)	ca(pl)	k(pl)				
	0.9365	0.3060	0.003967				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2890	0.04848	0	0.1627	0.1636	0.004167	0.3282	0.003919

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.75	614.9	0.4597	0.2228	0.02495	0.07587	0.3462	0.2207
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2140	0.8514	0.1999	0.01042	0.4120	0.9989	
	na(mu)	ca(pl)	k(pl)				
	0.9352	0.2976	0.004164				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2886	0.05068	0	0.1648	0.1600	0.004154	0.3283	0.003490

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.90	616.2	0.4597	0.2194	0.02367	0.07634	0.3483	0.2149
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2085	0.8522	0.2067	0.01066	0.4128	0.9989	
	na(mu)	ca(pl)	k(pl)				
	0.9340	0.2889	0.004370				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2883	0.05284	0	0.1669	0.1565	0.004141	0.3284	0.003068

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.05	617.4	0.4597	0.2158	0.02250	0.07680	0.3504	0.2095
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2034	0.8530	0.2136	0.01090	0.4136	0.9988	
	na(mu)	ca(pl)	k(pl)				
	0.9328	0.2802	0.004584				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2879	0.05493	0	0.1689	0.1530	0.004128	0.3285	0.002655

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.20	618.6	0.4597	0.2122	0.02144	0.07724	0.3526	0.2044
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1987	0.8538	0.2203	0.01117	0.4144	0.9988	
	na(mu)	ca(pl)	k(pl)				
	0.9317	0.2713	0.004807				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2876	0.05695	0	0.1709	0.1497	0.004117	0.3286	0.002253

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.35	619.7	0.4597	0.2085	0.02046	0.07766	0.3547	0.1998
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1943	0.8546	0.2270	0.01144	0.4152	0.9987	
	na(mu)	ca(pl)	k(pl)				
	0.9305	0.2624	0.005037				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2872	0.05890	0	0.1728	0.1464	0.004105	0.3287	0.001861

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.50	620.8	0.4597	0.2048	0.01958	0.07808	0.3569	0.1955
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1902	0.8554	0.2336	0.01174	0.4160	0.9986	
	na(mu)	ca(pl)	k(pl)				
	0.9294	0.2536	0.005274				

```
mode   bi   ep   g   mu   pl   ru   q   H2O
0.2869 0.06076   0 0.1748 0.1433 0.004094 0.3287 0.001482
```

```
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.65   621.9 0.4597 0.2011 0.01877 0.07848 0.3590 0.1916
        Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
        0.1865 0.8562 0.2402 0.01204 0.4168 0.9985
        na(mu) ca(pl) k(pl)
        0.9283 0.2447 0.005517
```

```
mode   bi   ep   g   mu   pl   ru   q   H2O
0.2866 0.06254   0 0.1766 0.1403 0.004084 0.3288 0.001115
```

```
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.80   622.9 0.4597 0.1973 0.01803 0.07887 0.3612 0.1879
        Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
        0.1831 0.8570 0.2467 0.01237 0.4176 0.9984
        na(mu) ca(pl) k(pl)
        0.9273 0.2360 0.005767
```

```
mode   bi   ep   g   mu   pl   ru   q   H2O
0.2862 0.06424   0 0.1784 0.1374 0.004074 0.32890.0007609
```

```
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.95   623.9 0.4597 0.1935 0.01734 0.07924 0.3634 0.1846
        Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
        0.1799 0.8578 0.2532 0.01271 0.4184 0.9983
        na(mu) ca(pl) k(pl)
        0.9262 0.2273 0.006021
```

```
mode   bi   ep   g   mu   pl   ru   q   H2O
0.2859 0.06586   0 0.1802 0.1346 0.004065 0.32890.0004193
```

```
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.10   624.8 0.4597 0.1897 0.01671 0.07960 0.3656 0.1816
        Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
        0.1770 0.8585 0.2595 0.01307 0.4192 0.9983
        na(mu) ca(pl) k(pl)
        0.9252 0.2188 0.006280
```

```
mode   bi   ep   g   mu   pl   ru   q   H2O
0.2856 0.06739   0 0.1819 0.1320 0.004056 0.3289 9.038e-5
```

calcs use:

composition (from script)

```
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197
```

<=====>

phases : liq, bi, ep, g, mu, pl, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
11.14	625.1	0.4597	0.1886	0.01655	0.07969	0.3662	0.1808
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.1763	0.8587	0.2613	0.01317	0.4194	0.9982	
	na(mu)	ca(pl)	k(pl)				
	0.9249	0.2164	0.006354				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2855	0.06781	0	0.1824	0.1312	0.004054	0.3289	0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.12	687.5	0.02325	0.2043	0.9528	0.0038480	0.0007907	0.5877
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7677	0.2306	0.09971	0.04439	0.1067	0.3247	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3225	0.2957	0.6546	0.3029	0.06342	0.2181	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.8331	0.2987	0.04562	0.007070	0.3400	3.156e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04721	0.1138	0	0.1851	0.2134	0.1599	0	0.005438	0.2752

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.899	64.236	10.338	2.552	5.420	5.006	1.971	2.681	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	677.9	0.02575	0.2000	0.9467	0.0040880	0.0007152	0.6021
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7693	0.2512	0.1077	0.04412	0.1029	0.3422	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	

0.6870 0.3248 0.06674 0.2359 0.8813 0.3736
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.05926 0.007193 0.3569 3.786e-5 0.04222 0.1365

mode liq bi g mu pl ilm ru q
0.04222 0.1365 0.1693 0.2085 0.1549 0 0.005194 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.05 678.2 0.02562 0.2002 0.9471 0.0040720.0007183 0.6014
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7693 0.2502 0.1073 0.04412 0.1030 0.3415
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6856 0.3238 0.06658 0.2350 0.8793 0.3703
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.05851 0.007178 0.3561 3.753e-5 0.04243 0.1356

mode liq bi g mu pl ilm ru q
0.04243 0.1356 0.1700 0.2087 0.1551 0 0.005205 0.2829

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 678.6 0.02549 0.2003 0.9474 0.0040570.0007214 0.6007
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7693 0.2493 0.1069 0.04413 0.1031 0.3409
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6842 0.3228 0.06642 0.2341 0.8774 0.3670
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.05778 0.007164 0.3553 3.721e-5 0.04263 0.1346

mode liq bi g mu pl ilm ru q
0.04263 0.1346 0.1707 0.2089 0.1553 0 0.005215 0.2826

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.15 678.9 0.02537 0.2005 0.9477 0.0040420.0007245 0.6001
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7693 0.2483 0.1064 0.04413 0.1033 0.3402
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6828 0.3218 0.06626 0.2333 0.8754 0.3638
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.05706 0.007150 0.3545 3.688e-5 0.04283 0.1336

mode liq bi g mu pl ilm ru q
0.04283 0.1336 0.1714 0.2092 0.1555 0 0.005226 0.2822

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 679.3 0.02524 0.2006 0.9481 0.0040270.0007276 0.5994
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7693 0.2474 0.1060 0.04414 0.1034 0.3395
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6814 0.3209 0.06611 0.2325 0.8733 0.3605
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.05635 0.007136 0.3537 3.657e-5 0.04304 0.1326

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04304	0.1326	0.1721	0.2094	0.1557		0	0.005237 0.2819

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.25 679.6 0.02511 0.2008 0.9484 0.0040130.0007307 0.5987
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7692 0.2464 0.1056 0.04414 0.1036 0.3388
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6800 0.3199 0.06595 0.2316 0.8713 0.3572
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.05566 0.007124 0.3529 3.626e-5 0.04324 0.1316

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04324	0.1316	0.1728	0.2096	0.1559		0	0.005247 0.2815

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.45 681.1 0.02463 0.2014 0.9496 0.0039600.0007434 0.5960
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7691 0.2427 0.1040 0.04417 0.1042 0.3359
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6744 0.3160 0.06535 0.2284 0.8630 0.3441
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.05301 0.007080 0.3498 3.506e-5 0.04408 0.1277

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04408	0.1277	0.1756	0.2105	0.1567		0	0.005290 0.2801

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.55 681.9 0.02440 0.2018 0.9502 0.0039360.0007499 0.5947
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7690 0.2409 0.1032 0.04419 0.1045 0.3343
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6715 0.3141 0.06505 0.2268 0.8587 0.3376
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.05176 0.007064 0.3482 3.450e-5 0.04451 0.1257

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04451	0.1257	0.1770	0.2109	0.1572		0	0.005312 0.2794

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 682.4 0.02429 0.2020 0.9504 0.0039250.0007532 0.5940
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7689 0.2400 0.1029 0.04420 0.1047 0.3336
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6701 0.3131 0.06491 0.2260 0.8566 0.3343
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.05116 0.007057 0.3475 3.422e-5 0.04472 0.1247

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04472	0.1247	0.1777	0.2111	0.1574		0	0.005323 0.2791

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.80	684.1	0.02386	0.2028	0.9515	0.003886	0.0007668	0.5915
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7686	0.2364	0.1015	0.04425	0.1054	0.3304	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6643	0.3092	0.06433	0.2229	0.8478	0.3209	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04886	0.007042	0.3445	3.315e-5	0.04562	0.1206	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04562	0.1206	0.1805	0.2120	0.1583		0	0.005367 0.2776

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.85	684.6	0.02376	0.2030	0.9517	0.003878	0.0007703	0.5909
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7685	0.2355	0.1012	0.04426	0.1056	0.3295	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6628	0.3082	0.06419	0.2221	0.8456	0.3175	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04832	0.007042	0.3438	3.289e-5	0.04586	0.1195	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04586	0.1195	0.1812	0.2122	0.1585		0	0.005378 0.2773

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.25	689.1	0.02304	0.2051	0.9532	0.003843	0.0008012	0.5862
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7671	0.2283	0.09915	0.04448	0.1074	0.3223	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6505	0.3002	0.06305	0.2163	0.8270	0.2895	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04449	0.007107	0.3383	3.097e-5	0.04791	0.1110	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04791	0.1110	0.1870	0.2139	0.1606		0	0.005468 0.2742

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.30	689.7	0.02296	0.2054	0.9534	0.003844	0.0008055	0.5857
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7669	0.2275	0.09897	0.04453	0.1076	0.3213	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6489	0.2992	0.06291	0.2156	0.8246	0.2858	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04408	0.007126	0.3377	3.075e-5	0.04820	0.1099	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04820	0.1099	0.1877	0.2141	0.1609		0	0.005479 0.2738

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.70	696.5	0.02254	0.2089	0.9540	0.0039130	0.0008469	0.5819
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7637	0.2203	0.09848	0.04508	0.1104	0.3121	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6351	0.2903	0.06170	0.2105	0.8042	0.2537	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04148	0.007445	0.3333	2.910e-5	0.05099	0.1006	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.05099	0.1006	0.1940	0.2152	0.1634		0	0.005573 0.2702

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.75	697.6	0.02252	0.2095	0.9539	0.0039330	0.0008534	0.5816
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7631	0.2194	0.09859	0.04519	0.1108	0.3107	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6332	0.2890	0.06153	0.2099	0.8015	0.2491	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04126	0.007517	0.3329	2.892e-5	0.05143	0.09929	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.05143	0.09929	0.1948	0.2153	0.1638		0	0.005585 0.2698

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.80	698.8	0.02251	0.2101	0.9539	0.0039580	0.0008604	0.5812
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7625	0.2185	0.09876	0.04531	0.1113	0.3093	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6312	0.2877	0.06137	0.2093	0.7988	0.2444	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04109	0.007599	0.3325	2.873e-5	0.05190	0.09799	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.05190	0.09799	0.1957	0.2153	0.1642		0	0.005597 0.2693

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.90	701.6	0.02253	0.2116	0.9536	0.0040230	0.0008760	0.5807
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7608	0.2166	0.09932	0.04561	0.1124	0.3062	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6270	0.2850	0.06101	0.2082	0.7931	0.2344	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04086	0.007807	0.3318	2.839e-5	0.05295	0.09529	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.05295	0.09529	0.1975	0.2153	0.1651		0	0.005622 0.2682

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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19.05 707.1 0.02272 0.2147 0.9527 0.0041830.0009065 0.5803
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7574 0.2137 0.1010 0.04624 0.1147 0.3006
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6199 0.2804 0.06042 0.2069 0.7841 0.2168
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.04098 0.008289 0.3314 2.792e-5 0.05498 0.09086

mode liq bi g mu pl ilm ru q
 0.05498 0.09086 0.2005 0.2149 0.1667 0 0.005659 0.2664

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.75 844.8 0.04389 0.2919 0.8390 0.01614 0.002258 0.6250
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6450 0.2075 0.1798 0.05949 0.1773 0.2158
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5492 0.2226 0.05561 0.2357 0.7574 0.05750
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.08307 0.06477 0.3844 3.091e-5 0.1118 0.05982

mode liq bi g mu pl ilm ru q
 0.1118 0.05982 0.2223 0.1729 0.1821 0 0.005610 0.2455

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.80 848.9 0.04483 0.2936 0.8312 0.01680 0.002319 0.6255
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6416 0.2068 0.1817 0.05978 0.1794 0.2133
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5465 0.2206 0.05545 0.2359 0.7575 0.05572
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.08319 0.06978 0.3850 3.078e-5 0.1144 0.05826

mode liq bi g mu pl ilm ru q
 0.1144 0.05826 0.2235 0.1711 0.1825 0 0.005629 0.2445

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.85 852.7 0.04572 0.2951 0.8235 0.01743 0.002375 0.6257
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6385 0.2060 0.1835 0.06005 0.1813 0.2110
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5438 0.2187 0.05529 0.2360 0.7576 0.05416
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.08309 0.07490 0.3854 3.063e-5 0.1171 0.05664

mode liq bi g mu pl ilm ru q
 0.1171 0.05664 0.2248 0.1693 0.1830 0 0.005652 0.2435

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.90 856.2 0.04656 0.2964 0.8159 0.01803 0.002426 0.6258
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6356 0.2052 0.1850 0.06031 0.1831 0.2088
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5410 0.2169 0.05513 0.2359 0.7576 0.05278
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.08279 0.08014 0.3856 3.045e-5 0.1196 0.05495

mode liq bi g mu pl ilm ru q
 0.1196 0.05495 0.2262 0.1676 0.1835 0 0.005679 0.2424

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.95 859.5 0.04735 0.2976 0.8085 0.01861 0.002473 0.6257
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6330 0.2043 0.1865 0.06056 0.1848 0.2067
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5383 0.2151 0.05496 0.2356 0.7576 0.05156
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.08231 0.08555 0.3857 3.026e-5 0.1221 0.05320

mode liq bi g mu pl ilm ru q
 0.1221 0.05320 0.2277 0.1659 0.1840 0 0.005709 0.2414

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 20.00 862.6 0.04810 0.2986 0.8012 0.01917 0.002516 0.6254
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6306 0.2033 0.1877 0.06080 0.1864 0.2047
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5355 0.2133 0.05479 0.2352 0.7577 0.05047
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.08166 0.09113 0.3855 3.004e-5 0.1246 0.05137

mode liq bi g mu pl ilm ru q
 0.1246 0.05137 0.2292 0.1642 0.1846 0 0.005742 0.2403

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.899 64.236 10.338 2.552 5.420 5.006 1.971 2.681 0.700 0.197

<=====>

phases : liq, bi, ep, g, mu, pl, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.70 699.9 0.02604 0.2120 0.9468 0.004751 0.0008209 0.5870
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7562 0.2259 0.1171 0.05047 0.1116 0.3071
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3269 0.2977 0.6398 0.2878 0.06102 0.2172
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8294 0.2483 0.05858 0.008464 0.05417 0.1082

mode liq bi ep g mu pl ru q

0.05417 0.1082 0 0.1890 0.2035 0.1679 0.005443 0.2718

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.75 698.6 0.02571 0.2112 0.9475 0.0046460.0008175 0.5868
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7574 0.2261 0.1152 0.04985 0.1111 0.3088
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3265 0.2975 0.6410 0.2892 0.06122 0.2171
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8293 0.2527 0.05701 0.008299 0.05349 0.1085

mode liq bi ep g mu pl ru q
0.05349 0.1085 0 0.1888 0.2045 0.1671 0.005446 0.2721

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 697.3 0.02539 0.2104 0.9483 0.0045410.0008141 0.5867
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7587 0.2264 0.1132 0.04921 0.1106 0.3105
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3260 0.2973 0.6422 0.2906 0.06143 0.2169
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8293 0.2575 0.05545 0.008135 0.05278 0.1089

mode liq bi ep g mu pl ru q
0.05278 0.1089 0 0.1886 0.2056 0.1663 0.005448 0.2724

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.85 695.9 0.02506 0.2096 0.9490 0.0044360.0008106 0.5866
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7600 0.2267 0.1112 0.04854 0.1100 0.3123
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3256 0.2971 0.6436 0.2921 0.06167 0.2169
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8295 0.2625 0.05391 0.007970 0.05203 0.1094

mode liq bi ep g mu pl ru q
0.05203 0.1094 0 0.1883 0.2067 0.1655 0.005450 0.2727

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 694.5 0.02474 0.2087 0.9498 0.0043300.0008071 0.5865
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7613 0.2272 0.1092 0.04786 0.1095 0.3142
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3251 0.2969 0.6451 0.2937 0.06192 0.2169
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8297 0.2679 0.05237 0.007805 0.05126 0.1099

mode liq bi ep g mu pl ru q
0.05126 0.1099 0 0.1879 0.2079 0.1646 0.005451 0.2730

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.95 693.1 0.02441 0.2078 0.9505 0.0042240.0008036 0.5866
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7626 0.2277 0.1072 0.04715 0.1089 0.3162
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3246 0.2966 0.6468 0.2955 0.06219 0.2170
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8301 0.2738 0.05085 0.007640 0.05045 0.1106

mode liq bi ep g mu pl ru q
 0.05045 0.1106 0 0.1874 0.2090 0.1637 0.005450 0.2734

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.00 691.5 0.02408 0.2068 0.9512 0.0041160.0008000 0.5867
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7640 0.2284 0.1051 0.04640 0.1083 0.3184
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3241 0.2964 0.6487 0.2974 0.06250 0.2171
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8307 0.2802 0.04933 0.007475 0.04958 0.1113

mode liq bi ep g mu pl ru q
 0.04958 0.1113 0 0.1869 0.2102 0.1627 0.005449 0.2739

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.05 689.9 0.02374 0.2059 0.9519 0.0040070.0007963 0.5870
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7655 0.2292 0.1029 0.04562 0.1077 0.3208
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3235 0.2961 0.6509 0.2994 0.06284 0.2174
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8315 0.2872 0.04781 0.007309 0.04866 0.1122

mode liq bi ep g mu pl ru q
 0.04866 0.1122 0 0.1862 0.2115 0.1616 0.005446 0.2744

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.10 688.2 0.02340 0.2048 0.9525 0.0038970.0007924 0.5874
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7670 0.2301 0.1007 0.04478 0.1070 0.3235
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3228 0.2958 0.6534 0.3018 0.06323 0.2179
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8325 0.2950 0.04628 0.007142 0.04767 0.1133

mode liq bi ep g mu pl ru q
 0.04767 0.1133 0 0.1855 0.2128 0.1604 0.005441 0.2749

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.15 686.4 0.02305 0.2037 0.9532 0.0037830.0007883 0.5881

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7686 0.2313 0.09837 0.04387 0.1063 0.3265
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3221 0.2954 0.6563 0.3044 0.06368 0.2185
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8340 0.3039 0.04474 0.006975 0.04657 0.1146

mode liq bi ep g mu pl ru q
 0.04657 0.1146 0 0.1845 0.2142 0.1591 0.005434 0.2756

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.20 684.5 0.02269 0.2025 0.9538 0.0036640.0007839 0.5890
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7703 0.2329 0.09590 0.04287 0.1056 0.3299
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3213 0.2950 0.6598 0.3075 0.06422 0.2195
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8359 0.3143 0.04316 0.006806 0.04534 0.1162

mode liq bi ep g mu pl ru q
 0.04534 0.1162 0 0.1833 0.2157 0.1576 0.005424 0.2764

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.25 682.3 0.02231 0.2011 0.9543 0.0035390.0007790 0.5904
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7722 0.2349 0.09322 0.04172 0.1047 0.3340
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3202 0.2944 0.6641 0.3114 0.06490 0.2208
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8385 0.3267 0.04153 0.006637 0.04392 0.1184

mode liq bi ep g mu pl ru q
 0.04392 0.1184 0 0.1818 0.2174 0.1558 0.005409 0.2773

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.30 679.7 0.02191 0.1996 0.9547 0.0034020.0007732 0.5925
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7743 0.2378 0.09021 0.04035 0.1037 0.3391
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3189 0.2936 0.6698 0.3164 0.06580 0.2229
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8423 0.3426 0.03978 0.006467 0.04216 0.1213

mode liq bi ep g mu pl ru q
 0.04216 0.1213 0 0.1797 0.2193 0.1536 0.005386 0.2786

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.35 676.5 0.02144 0.1976 0.9550 0.0032410.0007653 0.5961
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7769 0.2424 0.08655 0.03851 0.1025 0.3464

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3168 0.2924 0.6783 0.3239 0.06717 0.2265
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8485 0.3656 0.03781 0.006300 0.03976 0.1257

mode liq bi ep g mu pl ru q
0.03976 0.1257 0 0.1764 0.2218 0.1504 0.005347 0.2805

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 671.4 0.02081 0.1945 0.9542 0.0030060.0007490 0.6054
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7808 0.2531 0.08079 0.03513 0.1005 0.3609
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3123 0.2893 0.6963 0.3403 0.07029 0.2357
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8629 0.4121 0.03506 0.006183 0.03513 0.1356

mode liq bi ep g mu pl ru q
0.03513 0.1356 0 0.1693 0.2261 0.1439 0.005253 0.2847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.45 664.2 0.02007 0.1903 0.9491 0.0027220.0007071 0.6276
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7861 0.2777 0.07272 0.02925 0.09803 0.3877
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3019 0.2817 0.7323 0.3775 0.07781 0.2586
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8917 0.5007 0.03170 0.006519 0.02659 0.1561

mode liq bi ep g mu pl ru q
0.02659 0.1561 0 0.1545 0.2338 0.1311 0.005043 0.2929

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.65 656.8 0.01902 0.1857 0.9388 0.0024260.0006256 0.6553
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7922 0.3092 0.06364 0.02279 0.09575 0.4164
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2880 0.2709 0.7724 0.4302 0.08937 0.2891
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9183 0.5950 0.02737 0.007384 0.01676 0.1789

mode liq bi ep g mu pl ru q
0.01676 0.1789 0 0.1374 0.2444 0.1156 0.004813 0.3021

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.70 655.6 0.01880 0.1849 0.9369 0.0023740.0006097 0.6593
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7933 0.3140 0.06212 0.02185 0.09537 0.4205
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2857 0.2692 0.7781 0.4390 0.09139 0.2938

y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi
0.9215	0.6080	0.02656	0.007530	0.01529	0.1821

mode	liq	bi	ep	g	mu	pl	ru	q
	0.01529	0.1821	0	0.1350	0.2462	0.1133	0.004783	0.3034

calcs use:

IC03F3

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.10	595.7	0.4492	0.1266	0.02555	0.06811	0.4215	0.2656			
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
	0.2557	0.8589	0.2153	0.01579	0.4035	0.9989				
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi				
	0.9739	0.1730	0.003418	0.5583-8.993e-5	0.2318					
mode	bi	ep	g	mu	pl	ilm	ru	q	H2O	
	0.2318	0.04249	0.03490	0.1561	0.1534		0	0.004725	0.3646	0.01195

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.20	598.2	0.4484	0.1290	0.02594	0.06895	0.4186	0.2660			
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
	0.2559	0.8578	0.2162	0.01609	0.4036	0.9989				
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi				
	0.9727	0.1725	0.003575	0.5558-9.333e-5	0.2315					
mode	bi	ep	g	mu	pl	ilm	ru	q	H2O	
	0.2315	0.04219	0.03555	0.1554	0.1541		0	0.004703	0.3645	0.01214

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.30	600.6	0.4475	0.1314	0.02633	0.06978	0.4158	0.2664			
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
	0.2561	0.8567	0.2172	0.01640	0.4036	0.9989				
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi				
	0.9715	0.1719	0.003737	0.5533-9.702e-5	0.2311					
mode	bi	ep	g	mu	pl	ilm	ru	q	H2O	
	0.2311	0.04189	0.03621	0.1547	0.1547		0	0.004680	0.3644	0.01233

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.40	603.0	0.4467	0.1338	0.02672	0.07061	0.4130	0.2668			
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
	0.2563	0.8556	0.2181	0.01671	0.4035	0.9988				
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi				
	0.9702	0.1713	0.003904	0.5509-0.0001010	0.2307					
mode	bi	ep	g	mu	pl	ilm	ru	q	H2O	
	0.2307	0.04160	0.03688	0.1540	0.1553		0	0.004658	0.3643	0.01253

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.50	605.3	0.4458	0.1361	0.02710	0.07143	0.4103	0.2672			

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2566 0.8545 0.2191 0.01704 0.4035 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9689 0.1707 0.004076 0.5484-0.0001053 0.2303

mode bi ep g mu pl ilm ru q H2O
0.2303 0.04130 0.03756 0.1534 0.1559 0 0.004637 0.3642 0.01272

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.60 607.7 0.4449 0.1385 0.02748 0.07226 0.4076 0.2676
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2568 0.8534 0.2201 0.01737 0.4034 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9675 0.1701 0.004254 0.5460-0.0001099 0.2299

mode bi ep g mu pl ilm ru q H2O
0.2299 0.04100 0.03825 0.1527 0.1565 0 0.004615 0.3641 0.01291

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.70 610.1 0.4440 0.1408 0.02786 0.07309 0.4049 0.2680
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2571 0.8523 0.2211 0.01770 0.4034 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9660 0.1694 0.004438 0.5436-0.0001150 0.2295

mode bi ep g mu pl ilm ru q H2O
0.2295 0.04070 0.03895 0.1520 0.1571 0 0.004594 0.3640 0.01310

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.80 612.4 0.4431 0.1430 0.02823 0.07391 0.4022 0.2684
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2573 0.8512 0.2221 0.01805 0.4033 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9645 0.1687 0.004627 0.5413-0.0001206 0.2291

mode bi ep g mu pl ilm ru q H2O
0.2291 0.04040 0.03966 0.1514 0.1577 0 0.004573 0.3639 0.01329

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.90 614.7 0.4421 0.1452 0.02860 0.07474 0.3996 0.2689
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2576 0.8501 0.2232 0.01840 0.4032 0.9986
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9629 0.1679 0.004822 0.5390-0.0001267 0.2287

mode bi ep g mu pl ilm ru q H2O
0.2287 0.04009 0.04039 0.1508 0.1582 0 0.004552 0.3638 0.01348

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.00 617.1 0.4412 0.1474 0.02897 0.07556 0.3971 0.2693

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2578 0.8490 0.2243 0.01876 0.4031 0.9986
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9613 0.1672 0.005023 0.5367-0.0001335 0.2282

mode bi ep g mu pl ilm ru q H2O
0.2282 0.03978 0.04113 0.1502 0.1588 0 0.004531 0.3637 0.01367

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.10 619.4 0.4402 0.1496 0.02933 0.07637 0.3945 0.2698
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2581 0.8479 0.2254 0.01912 0.4029 0.9985
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9596 0.1664 0.005229 0.5344-0.0001410 0.2278

mode bi ep g mu pl ilm ru q H2O
0.2278 0.03948 0.04188 0.1496 0.1594 0 0.004511 0.3636 0.01386

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.20 621.6 0.4392 0.1517 0.02969 0.07719 0.3921 0.2702
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2584 0.8468 0.2265 0.01950 0.4028 0.9985
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9578 0.1656 0.005441 0.5321-0.0001493 0.2273

mode bi ep g mu pl ilm ru q H2O
0.2273 0.03917 0.04265 0.1490 0.1599 0 0.004491 0.3635 0.01405

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.30 623.9 0.4382 0.1537 0.03005 0.07800 0.3896 0.2707
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2587 0.8457 0.2276 0.01989 0.4026 0.9984
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9559 0.1647 0.005659 0.5299-0.0001587 0.2268

mode bi ep g mu pl ilm ru q H2O
0.2268 0.03885 0.04343 0.1484 0.1605 0 0.004471 0.3633 0.01423

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.40 626.2 0.4372 0.1557 0.03040 0.07881 0.3873 0.2712
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2590 0.8445 0.2288 0.02028 0.4024 0.9983
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9539 0.1638 0.005882 0.5277-0.0001694 0.2263

mode bi ep g mu pl ilm ru q H2O
0.2263 0.03854 0.04423 0.1479 0.1610 0 0.004451 0.3632 0.01442

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.50 628.4 0.4362 0.1577 0.03075 0.07962 0.3850 0.2717

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2593 0.8434 0.2300 0.02069 0.4022 0.9983
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9519 0.1629 0.006111 0.5255-0.0001815 0.2258

mode bi ep g mu pl ilm ru q H2O
0.2258 0.03822 0.04504 0.1473 0.1615 0 0.004432 0.3631 0.01461

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.60 630.6 0.4351 0.1596 0.03109 0.08042 0.3827 0.2722
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2596 0.8423 0.2312 0.02110 0.4019 0.9982
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9497 0.1619 0.006346 0.5233-0.0001954 0.2252

mode bi ep g mu pl ilm ru q H2O
0.2252 0.03790 0.04587 0.1468 0.1620 0 0.004414 0.3629 0.01479

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.70 632.8 0.4341 0.1614 0.03143 0.08122 0.3805 0.2727
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2599 0.8412 0.2325 0.02153 0.4016 0.9981
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9475 0.1609 0.006586 0.5212-0.0002117 0.2247

mode bi ep g mu pl ilm ru q H2O
0.2247 0.03758 0.04672 0.1463 0.1625 0 0.004396 0.3628 0.01497

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.80 635.0 0.4330 0.1631 0.03177 0.08201 0.3784 0.2732
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2602 0.8401 0.2338 0.02196 0.4013 0.9981
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9451 0.1599 0.006831 0.5190-0.0002307 0.2241

mode bi ep g mu pl ilm ru q H2O
0.2241 0.03725 0.04758 0.1459 0.1630 0 0.004378 0.3627 0.01516

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.90 637.1 0.4318 0.1648 0.03210 0.08280 0.3763 0.2737
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2605 0.8389 0.2351 0.02241 0.4010 0.9980
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9427 0.1588 0.007081 0.5169-0.0002535 0.2235

mode bi ep g mu pl ilm ru q H2O
0.2235 0.03692 0.04847 0.1454 0.1634 0 0.004361 0.3625 0.01534

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.00 639.2 0.4307 0.1664 0.03242 0.08358 0.3743 0.2743

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2609 0.8378 0.2364 0.02287 0.4006 0.9979
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9401 0.1577 0.007336 0.5148-0.0002812 0.2229

mode bi ep g mu pl ilm ru q H2O
0.2229 0.03659 0.04937 0.1450 0.1639 0 0.004344 0.3624 0.01552

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.10 641.4 0.4295 0.1679 0.03275 0.08435 0.3724 0.2748
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2612 0.8366 0.2377 0.02334 0.4002 0.9978
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9374 0.1565 0.007595 0.5128-0.0003155 0.2223

mode bi ep g mu pl ilm ru q H2O
0.2223 0.03625 0.05030 0.1446 0.1643 0 0.004328 0.3622 0.01570

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.20 643.4 0.4283 0.1693 0.03307 0.08512 0.3706 0.2754
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2616 0.8355 0.2391 0.02383 0.3998 0.9977
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9345 0.1553 0.007858 0.5107-0.0003591 0.2217

mode bi ep g mu pl ilm ru q H2O
0.2217 0.03590 0.05125 0.1442 0.1648 0 0.004312 0.3620 0.01588

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.30 639.1 0.4317 0.1568 0.02970 0.08362 0.3813 0.2673
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2548 0.8409 0.2514 0.02447 0.4022 0.9977
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9413 0.1440 0.007638 0.7999 -0.7218 0.2231

mode bi ep g mu pl ilm ru q H2O
0.2231 0.03827 0.04943 0.1498 0.1577 0 0.004344 0.3629 0.01463

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.40 647.5 0.4258 0.1718 0.03369 0.08662 0.3671 0.2766
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2623 0.8332 0.2420 0.02484 0.3989 0.9975
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9284 0.1528 0.008394 0.5067-0.0004952 0.2203

mode bi ep g mu pl ilm ru q H2O
0.2203 0.03520 0.05323 0.1435 0.1656 0 0.004283 0.3617 0.01623

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.50 649.5 0.4245 0.1728 0.03399 0.08736 0.3656 0.2772

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2627 0.8320 0.2435 0.02537 0.3983 0.9974
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9251 0.1514 0.008666 0.5047-0.0006100 0.2195

mode bi ep g mu pl ilm ru q H2O
0.2195 0.03484 0.05425 0.1433 0.1659 0 0.004270 0.3615 0.01640

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.60 651.4 0.4232 0.1738 0.03429 0.08809 0.3641 0.2779
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2632 0.8309 0.2450 0.02591 0.3977 0.9972
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9216 0.1499 0.008940 0.5027-0.0007931 0.2188

mode bi ep g mu pl ilm ru q H2O
0.2188 0.03448 0.05531 0.1430 0.1663 0 0.004257 0.3613 0.01657

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.70 651.2 0.4236 0.1702 0.03328 0.08807 0.3667 0.2754
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2611 0.8320 0.2502 0.02649 0.3983 0.9972
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9224 0.1453 0.009047 0.7398 0.6357 0.2189

mode bi ep g mu pl ilm ru q H2O
0.2189 0.03503 0.05531 0.1448 0.1640 0 0.004258 0.3615 0.01624

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.80 653.7 0.4217 0.1723 0.03396 0.08900 0.3642 0.2770
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2623 0.8302 0.2507 0.02706 0.3973 0.9970
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9174 0.1448 0.009374 0.7229 0.6103 0.2178

mode bi ep g mu pl ilm ru q H2O
0.2178 0.03437 0.05674 0.1440 0.1651 0 0.004243 0.3612 0.01656

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.90 656.1 0.4198 0.1740 0.03457 0.08988 0.3620 0.2785
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2634 0.8284 0.2514 0.02765 0.3963 0.9968
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9123 0.1440 0.009689 0.7044 0.5817 0.2167

mode bi ep g mu pl ilm ru q H2O
0.2167 0.03375 0.05816 0.1433 0.1661 0 0.004230 0.3609 0.01685

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.00 658.3 0.4179 0.1753 0.03511 0.09071 0.3602 0.2799

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2644 0.8267 0.2523 0.02826 0.3952 0.9966
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9070 0.1429 0.009994 0.6832 0.5478 0.2157

mode bi ep g mu pl ilm ru q H2O
0.2157 0.03316 0.05959 0.1428 0.1669 0 0.004219 0.3606 0.01712

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.10 660.4 0.4160 0.1762 0.03560 0.09148 0.3587 0.2812
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2653 0.8251 0.2534 0.02890 0.3942 0.9964
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9016 0.1416 0.01029 0.6567 0.5034 0.2146

mode bi ep g mu pl ilm ru q H2O
0.2146 0.03261 0.06101 0.1425 0.1675 0 0.004210 0.3602 0.01736

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.20 662.3 0.4141 0.1767 0.03601 0.09220 0.3576 0.2823
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2662 0.8236 0.2547 0.02956 0.3931 0.9962
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8962 0.1400 0.01056 0.6073 0.4123 0.2135

mode bi ep g mu pl ilm ru q H2O
0.2135 0.03209 0.06243 0.1422 0.1681 0 0.004203 0.3599 0.01758

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.40 665.3 0.4109 0.1760 0.03643 0.09337 0.3567 0.2838
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2672 0.8212 0.2586 0.03095 0.3911 0.9957
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8864 0.1359 0.01106 0.48710.0005913 0.2115

mode bi ep g mu pl ilm ru q H2O
0.2115 0.03127 0.06503 0.1425 0.1683 0 0.004194 0.3594 0.01786

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.50 666.8 0.4091 0.1755 0.03667 0.09394 0.3564 0.2846
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2678 0.8200 0.2605 0.03168 0.3900 0.9954
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8810 0.1338 0.01129 0.48510.0004879 0.2104

mode bi ep g mu pl ilm ru q H2O
0.2104 0.03083 0.06642 0.1426 0.1684 0 0.004192 0.3592 0.01801

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.60 668.1 0.4073 0.1748 0.03689 0.09448 0.3563 0.2855

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2684 0.8187 0.2624 0.03243 0.3888 0.9951
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8754 0.1315 0.01151 0.48320.0004159 0.2092

mode bi ep g mu pl ilm ru q H2O
0.2092 0.03037 0.06785 0.1428 0.1685 0 0.004191 0.3589 0.01816

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.70 669.4 0.4054 0.1739 0.03709 0.09499 0.3563 0.2864
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2691 0.8175 0.2644 0.03321 0.3875 0.9948
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8696 0.1292 0.01172 0.48130.0003625 0.2081

mode bi ep g mu pl ilm ru q H2O
0.2081 0.02991 0.06932 0.1431 0.1685 0 0.004192 0.3586 0.01830

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.80 670.7 0.4035 0.1728 0.03729 0.09548 0.3564 0.2873
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2697 0.8162 0.2664 0.03402 0.3862 0.9944
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8636 0.1268 0.01191 0.47930.0003217 0.2069

mode bi ep g mu pl ilm ru q H2O
0.2069 0.02943 0.07083 0.1434 0.1686 0 0.004194 0.3583 0.01844

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.90 671.8 0.4015 0.1715 0.03748 0.09594 0.3568 0.2883
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2704 0.8150 0.2685 0.03485 0.3848 0.9940
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8575 0.1244 0.01209 0.47740.0002893 0.2056

mode bi ep g mu pl ilm ru q H2O
0.2056 0.02893 0.07238 0.1438 0.1686 0 0.004197 0.3579 0.01857

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.00 672.9 0.3995 0.1701 0.03765 0.09637 0.3572 0.2893
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2712 0.8137 0.2706 0.03571 0.3834 0.9936
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8512 0.1218 0.01225 0.47540.0002628 0.2044

mode bi ep g mu pl ilm ru q H2O
0.2044 0.02843 0.07395 0.1442 0.1685 0 0.004202 0.3576 0.01870

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.10 673.9 0.3975 0.1685 0.03781 0.09676 0.3578 0.2903

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2719 0.8124 0.2728 0.03660 0.3818 0.9931
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8449 0.1192 0.01239 0.47350.0002410 0.2031

mode bi ep g mu pl ilm ru q H2O
0.2031 0.02791 0.07555 0.1447 0.1684 0 0.004208 0.3573 0.01882

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.20 674.7 0.3954 0.1667 0.03795 0.09713 0.3585 0.2913
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2727 0.8112 0.2750 0.03751 0.3803 0.9926
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8385 0.1166 0.01252 0.47150.0002227 0.2018

mode bi ep g mu pl ilm ru q H2O
0.2018 0.02738 0.07717 0.1452 0.1683 0 0.004215 0.3570 0.01893

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.30 675.6 0.3933 0.1648 0.03808 0.09747 0.3593 0.2924
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2735 0.8100 0.2772 0.03846 0.3787 0.9921
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8321 0.1139 0.01263 0.46950.0002070 0.2005

mode bi ep g mu pl ilm ru q H2O
0.2005 0.02684 0.07880 0.1458 0.1682 0 0.004223 0.3567 0.01904

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.40 676.3 0.3913 0.1628 0.03820 0.09779 0.3602 0.2934
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2743 0.8087 0.2795 0.03943 0.3770 0.9916
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8257 0.1112 0.01272 0.46760.0001935 0.1992

mode bi ep g mu pl ilm ru q H2O
0.1992 0.02628 0.08044 0.1464 0.1680 0 0.004232 0.3563 0.01914

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.50 677.0 0.3892 0.1606 0.03830 0.09808 0.3612 0.2945
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2751 0.8075 0.2818 0.04043 0.3754 0.9910
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8194 0.1084 0.01279 0.46560.0001816 0.1978

mode bi ep g mu pl ilm ru q H2O
0.1978 0.02571 0.08208 0.1471 0.1678 0 0.004242 0.3560 0.01924

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.60 677.6 0.3872 0.1584 0.03838 0.09834 0.3622 0.2956

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2759 0.8064 0.2842 0.04146 0.3737 0.9904
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8133 0.1057 0.01285 0.46360.0001712 0.1965

mode bi ep g mu pl ilm ru q H2O
0.1965 0.02513 0.08372 0.1478 0.1675 0 0.004252 0.3557 0.01933

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.70 678.1 0.3851 0.1562 0.03846 0.09858 0.3633 0.2967
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2768 0.8052 0.2866 0.04251 0.3721 0.9897
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8073 0.1029 0.01290 0.46160.0001619 0.1953

mode bi ep g mu pl ilm ru q H2O
0.1953 0.02454 0.08535 0.1485 0.1673 0 0.004263 0.3554 0.01941

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.80 678.6 0.3832 0.1539 0.03852 0.09880 0.3644 0.2978
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2776 0.8041 0.2890 0.04360 0.3704 0.9891
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8014 0.1002 0.01294 0.45960.0001536 0.1940

mode bi ep g mu pl ilm ru q H2O
0.1940 0.02394 0.08697 0.1493 0.1670 0 0.004274 0.3551 0.01948

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.90 679.0 0.3812 0.1515 0.03857 0.09901 0.3656 0.2990
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2785 0.8031 0.2915 0.04471 0.3688 0.9884
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7958 0.09749 0.01296 0.45760.0001462 0.1928

mode bi ep g mu pl ilm ru q H2O
0.1928 0.02332 0.08857 0.1501 0.1666 0 0.004285 0.3548 0.01955

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.00 679.4 0.3793 0.1492 0.03861 0.09919 0.3668 0.3001
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2793 0.8020 0.2940 0.04586 0.3672 0.9877
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7904 0.09483 0.01298 0.45570.0001394 0.1916

mode bi ep g mu pl ilm ru q H2O
0.1916 0.02269 0.09015 0.1509 0.1663 0 0.004297 0.3545 0.01961

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.10 679.8 0.3775 0.1468 0.03863 0.09937 0.3680 0.3012

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2802 0.8010 0.2966 0.04704 0.3656 0.9870
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7852 0.09220 0.01299 0.45370.0001333 0.1904

mode bi ep g mu pl ilm ru q H2O
0.1904 0.02205 0.09171 0.1517 0.1659 0 0.004308 0.3543 0.01966

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.20 680.1 0.3757 0.1445 0.03864 0.09953 0.3691 0.3023
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2811 0.8001 0.2991 0.04825 0.3641 0.9862
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7803 0.08961 0.01299 0.45170.0001277 0.1893

mode bi ep g mu pl ilm ru q H2O
0.1893 0.02140 0.09324 0.1526 0.1654 0 0.004320 0.3540 0.01970

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.30 680.4 0.3740 0.1421 0.03865 0.09967 0.3703 0.3035
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2819 0.7992 0.3018 0.04949 0.3626 0.9855
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7756 0.08707 0.01298 0.44980.0001226 0.1881

mode bi ep g mu pl ilm ru q H2O
0.1881 0.02073 0.09475 0.1535 0.1650 0 0.004331 0.3538 0.01974

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.40 680.7 0.3723 0.1398 0.03864 0.09981 0.3715 0.3046
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2828 0.7983 0.3045 0.05077 0.3611 0.9847
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7712 0.08459 0.01297 0.44780.0001178 0.1871

mode bi ep g mu pl ilm ru q H2O
0.1871 0.02004 0.09623 0.1544 0.1645 0 0.004342 0.3536 0.01977

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.50 680.9 0.3707 0.1375 0.03862 0.09993 0.3727 0.3057
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2836 0.7975 0.3072 0.05209 0.3597 0.9840
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7671 0.08216 0.01296 0.44590.0001135 0.1861

mode bi ep g mu pl ilm ru q H2O
0.1861 0.01934 0.09768 0.1554 0.1640 0 0.004353 0.3534 0.01979

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.60 681.1 0.3691 0.1352 0.03860 0.1001 0.3738 0.3069

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2845 0.7967 0.3100 0.05344 0.3583 0.9832
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7632 0.07978 0.01294 0.44390.0001094 0.1851

mode bi ep g mu pl ilm ru q H2O
0.1851 0.01863 0.09911 0.1563 0.1635 0 0.004364 0.3532 0.01981

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.70 681.3 0.3676 0.1330 0.03856 0.1002 0.3750 0.3080
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2854 0.7960 0.3128 0.05483 0.3570 0.9824
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7596 0.07746 0.01292 0.44200.0001057 0.1841

mode bi ep g mu pl ilm ru q H2O
0.1841 0.01790 0.1005 0.1573 0.1630 0 0.004374 0.3530 0.01982

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.80 681.4 0.3662 0.1307 0.03852 0.1003 0.3761 0.3091
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2862 0.7953 0.3157 0.05627 0.3558 0.9816
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7563 0.07519 0.01289 0.44010.0001021 0.1832

mode bi ep g mu pl ilm ru q H2O
0.1832 0.01715 0.1019 0.1583 0.1624 0 0.004384 0.3529 0.01982

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.90 681.6 0.3648 0.1285 0.03847 0.1004 0.3772 0.3103
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2871 0.7946 0.3187 0.05774 0.3546 0.9808
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7531 0.07298 0.01287 0.4382 9.887e-5 0.1823

mode bi ep g mu pl ilm ru q H2O
0.1823 0.01638 0.1033 0.1593 0.1619 0 0.004394 0.3527 0.01982

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.00 681.7 0.3635 0.1264 0.03841 0.1004 0.3784 0.3114
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2879 0.7940 0.3217 0.05926 0.3534 0.9800
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7503 0.07083 0.01284 0.4363 9.579e-5 0.1815

mode bi ep g mu pl ilm ru q H2O
0.1815 0.01559 0.1046 0.1603 0.1613 0 0.004403 0.3526 0.01981

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.10 681.8 0.3622 0.1242 0.03834 0.1005 0.3794 0.3125

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2888 0.7935 0.3247 0.06083 0.3523 0.9793
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7476 0.06873 0.01281 0.4345 9.291e-5 0.1807

mode bi ep g mu pl ilm ru q H2O
0.1807 0.01478 0.1059 0.1614 0.1606 0 0.004412 0.3525 0.01979

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.20 681.9 0.3610 0.1221 0.03827 0.1006 0.3805 0.3137
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2897 0.7929 0.3278 0.06244 0.3512 0.9785
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7452 0.06669 0.01278 0.4326 9.020e-5 0.1799

mode bi ep g mu pl ilm ru q H2O
0.1799 0.01395 0.1072 0.1624 0.1600 0 0.004421 0.3523 0.01977

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.30 682.0 0.3599 0.1200 0.03819 0.1007 0.3816 0.3148
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2905 0.7925 0.3310 0.06411 0.3502 0.9777
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7430 0.06470 0.01275 0.4307 8.764e-5 0.1791

mode bi ep g mu pl ilm ru q H2O
0.1791 0.01310 0.1085 0.1635 0.1593 0 0.004430 0.3522 0.01974

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.40 682.1 0.3588 0.1180 0.03810 0.1007 0.3826 0.3159
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2914 0.7920 0.3342 0.06582 0.3492 0.9769
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7410 0.06277 0.01272 0.4289 8.522e-5 0.1784

mode bi ep g mu pl ilm ru q H2O
0.1784 0.01222 0.1098 0.1646 0.1587 0 0.004438 0.3522 0.01971

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.50 682.1 0.3577 0.1160 0.03801 0.1008 0.3837 0.3171
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2922 0.7916 0.3374 0.06758 0.3482 0.9761
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7392 0.06089 0.01268 0.4271 8.293e-5 0.1777

mode bi ep g mu pl ilm ru q H2O
0.1777 0.01132 0.1110 0.1657 0.1580 0 0.004446 0.3521 0.01967

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.60 682.1 0.3567 0.1140 0.03791 0.1009 0.3847 0.3182

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2931 0.7912 0.3408 0.06940 0.3473 0.9753
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7375 0.05906 0.01265 0.4252 8.075e-5 0.1771

mode bi ep g mu pl ilm ru q H2O
0.1771 0.01040 0.1123 0.1669 0.1572 0 0.004454 0.3520 0.01963

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.70 682.2 0.3557 0.1120 0.03780 0.1009 0.3857 0.3194
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2939 0.7909 0.3442 0.07128 0.3464 0.9745
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7360 0.05728 0.01261 0.4234 7.868e-5 0.1764

mode bi ep g mu pl ilm ru q H2O
0.1764 0.009441 0.1135 0.1680 0.1565 0 0.004461 0.3520 0.01958

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.80 682.2 0.3548 0.1101 0.03769 0.1010 0.3868 0.3205
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2948 0.7906 0.3476 0.07321 0.3456 0.9738
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7347 0.05555 0.01257 0.4216 7.671e-5 0.1758

mode bi ep g mu pl ilm ru q H2O
0.1758 0.008457 0.1148 0.1692 0.1558 0 0.004468 0.3520 0.01953

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.90 682.2 0.3539 0.1082 0.03758 0.1010 0.3878 0.3216
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2956 0.7903 0.3511 0.07521 0.3448 0.9730
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7336 0.05386 0.01254 0.4198 7.483e-5 0.1752

mode bi ep g mu pl ilm ru q H2O
0.1752 0.007443 0.1160 0.1704 0.1550 0 0.004476 0.3519 0.01948

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.00 682.2 0.3530 0.1063 0.03746 0.1011 0.3887 0.3228
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2965 0.7900 0.3547 0.07726 0.3440 0.9722
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7326 0.05222 0.01250 0.4180 7.303e-5 0.1747

mode bi ep g mu pl ilm ru q H2O
0.1747 0.006397 0.1172 0.1716 0.1542 0 0.004482 0.3519 0.01942

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.10 682.1 0.3522 0.1045 0.03733 0.1011 0.3897 0.3239

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2973 0.7898 0.3583 0.07937 0.3433 0.9714
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7317 0.05063 0.01246 0.4161 7.130e-5 0.1741

mode bi ep g mu pl ilm ru q H2O
 0.1741 0.005317 0.1185 0.1729 0.1534 0 0.004489 0.3519 0.01935

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 17.20 682.1 0.3514 0.1026 0.03720 0.1012 0.3907 0.3251
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2981 0.7896 0.3620 0.08155 0.3425 0.9706
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7309 0.04908 0.01242 0.4143 6.965e-5 0.1736

mode bi ep g mu pl ilm ru q H2O
 0.1736 0.004202 0.1197 0.1742 0.1526 0 0.004496 0.3519 0.01929

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 17.30 682.1 0.3506 0.1008 0.03707 0.1012 0.3917 0.3262
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2990 0.7894 0.3657 0.08380 0.3418 0.9699
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7302 0.04758 0.01237 0.4125 6.806e-5 0.1731

mode bi ep g mu pl ilm ru q H2O
 0.1731 0.003050 0.1210 0.1754 0.1518 0 0.004502 0.3519 0.01922

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 17.40 682.0 0.3498 0.09905 0.03693 0.1012 0.3926 0.3274
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2998 0.7892 0.3695 0.08611 0.3411 0.9691
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7297 0.04611 0.01233 0.4107 6.653e-5 0.1726

mode bi ep g mu pl ilm ru q H2O
 0.1726 0.001860 0.1223 0.1768 0.1510 0 0.004509 0.3519 0.01914

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 17.50 681.9 0.3491 0.09729 0.03679 0.1012 0.3936 0.3285
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.3007 0.7890 0.3734 0.08848 0.3404 0.9683
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7292 0.04469 0.01228 0.4089 6.506e-5 0.1721

mode bi ep g mu pl ilm ru q H2O
 0.17210.0006289 0.1236 0.1781 0.1501 0 0.004515 0.3520 0.01907

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 659.1 0.3988 0.2693 0.03636 0.09140 0.3045 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1600 0.01022 0.3681 0.9973 0.8514 0.2882
k(pl) x(ilm) Q(ilm)
0.006536 0.7499 0.6464

mode bi g mu pl ilm ru ky q H2O
0.2119 0.04983 0.09563 0.2459 0.01241 7.795e-5 0 0.3569 0.02732

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.10 660.9 0.3966 0.2681 0.03692 0.09203 0.3045 0.7917
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1618 0.01062 0.3668 0.9969 0.8361 0.2843
k(pl) x(ilm) Q(ilm)
0.006720 0.7375 0.6280

mode bi g mu pl ilm ru ky q H2O
0.2101 0.05251 0.09534 0.2462 0.011800.0003713 0 0.3561 0.02761

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 662.6 0.3934 0.2662 0.03752 0.09266 0.3048 0.7893
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1627 0.01095 0.3646 0.9963 0.8149 0.2796
k(pl) x(ilm) Q(ilm)
0.006884 0.7235 0.6068

mode bi g mu pl ilm ru ky q H2O
0.2075 0.05576 0.09499 0.2468 0.011190.0006749 0 0.3551 0.02799

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.30 664.3 0.3880 0.2630 0.03824 0.09328 0.3061 0.7850
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1619 0.01113 0.3604 0.9951 0.7798 0.2732
k(pl) x(ilm) Q(ilm)
0.006986 0.7059 0.5797

mode bi g mu pl ilm ru ky q H2O
0.2035 0.06034 0.09443 0.2482 0.01054 0.001021 0 0.3534 0.02860

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 664.9 0.3751 0.2546 0.03942 0.09365 0.3108 0.7747
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1562 0.01087 0.3488 0.9913 0.6950 0.2613
k(pl) x(ilm) Q(ilm)

0.006821 0.6738 0.5288

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1940	0.06968	0.09312	0.2522	0.009615	0.001588	0	0.3498	0.02998

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.60 664.3 0.3530 0.2392 0.04108 0.09371 0.3190 0.7566
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1482 0.01047 0.3281 0.9767 0.5249 0.2386
k(pl) x(ilm) Q(ilm)
0.006419 0.48650.0005896

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1762	0.08875	0.09020	0.2599	0.006616	0.003314	0	0.3423	0.03266

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.70 665.1 0.3480 0.2361 0.04154 0.09409 0.3198 0.7526
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1494 0.01075 0.3237 0.9727 0.4957 0.2342
k(pl) x(ilm) Q(ilm)
0.006429 0.48260.0004397

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1727	0.09196	0.09052	0.2606	0.006556	0.003372	0	0.3412	0.03304

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 666.2 0.3436 0.2336 0.04195 0.09453 0.3202 0.7489
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1506 0.01105 0.3199 0.9689 0.4706 0.2301
k(pl) x(ilm) Q(ilm)
0.006466 0.47910.0003532

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1697	0.09484	0.09088	0.2611	0.006499	0.003423	0	0.3402	0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.90 667.4 0.3396 0.2314 0.04235 0.09502 0.3202 0.7455
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1519 0.01136 0.3166 0.9650 0.4484 0.2264
k(pl) x(ilm) Q(ilm)
0.006525 0.47590.0002979

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1669	0.09748	0.09125	0.2615	0.006443	0.003467	0	0.3394	0.03366

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 668.7 0.3359 0.2296 0.04272 0.09555 0.3200 0.7422
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1532 0.01167 0.3136 0.9612 0.4282 0.2229
k(pl) x(ilm) Q(ilm)

0.006602 0.47300.0002588

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1643	0.09994	0.09163	0.2618	0.006390	0.003507	0	0.3386	0.03393

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.10 670.2 0.3326 0.2280 0.04308 0.09611 0.3196 0.7390
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1543 0.01198 0.3109 0.9574 0.4096 0.2196
k(pl) x(ilm) Q(ilm)
0.006695 0.47030.0002298

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1619	0.1023	0.09200	0.2620	0.006338	0.003543	0	0.3378	0.03417

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 671.8 0.3294 0.2266 0.04343 0.09672 0.3190 0.7359
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1554 0.01230 0.3084 0.9536 0.3923 0.2164
k(pl) x(ilm) Q(ilm)
0.006804 0.46780.0002073

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1595	0.1045	0.09237	0.2622	0.006289	0.003576	0	0.3371	0.03441

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.30 673.5 0.3265 0.2254 0.04377 0.09737 0.3182 0.7329
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1565 0.01261 0.3062 0.9498 0.3759 0.2134
k(pl) x(ilm) Q(ilm)
0.006927 0.46550.0001895

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1573	0.1066	0.09272	0.2625	0.006241	0.003606	0	0.3364	0.03464

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 675.4 0.3237 0.2244 0.04410 0.09806 0.3172 0.7300
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1574 0.01291 0.3042 0.9460 0.3604 0.2106
k(pl) x(ilm) Q(ilm)
0.007067 0.46340.0001751

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1552	0.1086	0.09305	0.2627	0.006196	0.003634	0	0.3358	0.03485

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.50 677.4 0.3211 0.2235 0.04442 0.09879 0.3161 0.7270
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1581 0.01321 0.3023 0.9421 0.3456 0.2079
k(pl) x(ilm) Q(ilm)

0.007223 0.46160.0001630

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1532	0.1105	0.09336	0.2629	0.006152	0.003658	0	0.3351	0.03507

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 679.6 0.3186 0.2229 0.04474 0.09957 0.3148 0.7241
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1588 0.01350 0.3007 0.9382 0.3314 0.2053
k(pl) x(ilm) Q(ilm)
0.007397 0.45990.0001527

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1512	0.1124	0.09365	0.2632	0.006111	0.003680	0	0.3345	0.03527

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.70 681.9 0.3163 0.2224 0.04505 0.1004 0.3134 0.7212
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1593 0.01379 0.2992 0.9342 0.3176 0.2029
k(pl) x(ilm) Q(ilm)
0.007590 0.45840.0001444

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1493	0.1142	0.09389	0.2635	0.006072	0.003700	0	0.3339	0.03548

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 684.4 0.3141 0.2221 0.04535 0.1013 0.3118 0.7183
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1597 0.01406 0.2979 0.9302 0.3043 0.2006
k(pl) x(ilm) Q(ilm)
0.007805 0.45720.0001372

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1475	0.1159	0.09409	0.2638	0.006036	0.003717	0	0.3333	0.03569

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.90 687.1 0.3121 0.2221 0.04565 0.1022 0.3101 0.7154
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1598 0.01431 0.2968 0.9262 0.2912 0.1985
k(pl) x(ilm) Q(ilm)
0.008045 0.45620.0001310

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1457	0.1175	0.09425	0.2642	0.006003	0.003731	0	0.3328	0.03590

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 690.0 0.3102 0.2222 0.04595 0.1032 0.3081 0.7126
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1598 0.01455 0.2959 0.9221 0.2784 0.1966
k(pl) x(ilm) Q(ilm)

0.008314 0.45540.0001258

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1440	0.1190	0.09434	0.2646	0.005974	0.003742	0	0.3322	0.03611

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.10 693.1 0.3085 0.2226 0.04624 0.1043 0.3060 0.7097
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1596 0.01478 0.2953 0.9180 0.2659 0.1949
k(pl) x(ilm) Q(ilm)
0.008616 0.45490.0001213

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1423	0.1205	0.09437	0.2651	0.005948	0.003750	0	0.3316	0.03633

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.20 696.5 0.3070 0.2232 0.04652 0.1055 0.3037 0.7068
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1592 0.01498 0.2948 0.9138 0.2535 0.1934
k(pl) x(ilm) Q(ilm)
0.008958 0.45470.0001175

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1408	0.1218	0.09432	0.2657	0.005926	0.003754	0	0.3311	0.03655

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.30 700.2 0.3056 0.2241 0.04681 0.1068 0.3011 0.7039
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1585 0.01516 0.2947 0.9096 0.2412 0.1922
k(pl) x(ilm) Q(ilm)
0.009348 0.45490.0001144

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1392	0.1231	0.09418	0.2665	0.005909	0.003754	0	0.3306	0.03678

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.40 704.3 0.3045 0.2253 0.04708 0.1081 0.2983 0.7009
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1575 0.01532 0.2948 0.9053 0.2289 0.1912
k(pl) x(ilm) Q(ilm)
0.009795 0.45550.0001119

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1378	0.1243	0.09394	0.2673	0.005897	0.003749	0	0.3300	0.03702

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.50 708.8 0.3036 0.2269 0.04735 0.1097 0.2952 0.6980
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1562 0.01544 0.2952 0.9010 0.2168 0.1905
k(pl) x(ilm) Q(ilm)

0.01031 0.45640.0001100

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1365	0.1253	0.09356	0.2682	0.005892	0.003738		0	0.3295 0.03727

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.60 713.7 0.3029 0.2289 0.04761 0.1113 0.2918 0.6950
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1545 0.01553 0.2961 0.8967 0.2046 0.1901
k(pl) x(ilm) Q(ilm)
0.01092 0.45790.0001087

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1352	0.1262	0.09305	0.2694	0.005894	0.003721		0	0.3290 0.03753

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.70 719.3 0.3025 0.2314 0.04787 0.1132 0.2881 0.6920
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1525 0.01559 0.2973 0.8923 0.1925 0.1902
k(pl) x(ilm) Q(ilm)
0.01163 0.46000.0001080

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1341	0.1270	0.09236	0.2706	0.005905	0.003696		0	0.3285 0.03780

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.80 725.4 0.3025 0.2344 0.04811 0.1152 0.2839 0.6890
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1500 0.01560 0.2990 0.8880 0.1804 0.1906
k(pl) x(ilm) Q(ilm)
0.01248 0.46270.0001080

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1331	0.1275	0.09149	0.2721	0.005925	0.003663		0	0.3281 0.03810

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.90 732.3 0.3027 0.2379 0.04833 0.1175 0.2794 0.6859
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1470 0.01556 0.3012 0.8837 0.1685 0.1914
k(pl) x(ilm) Q(ilm)
0.01349 0.46610.0001087

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1322	0.1279	0.09041	0.2738	0.005956	0.003620		0	0.3276 0.03841

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.00 739.8 0.3034 0.2420 0.04852 0.1200 0.2743 0.6828
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1436 0.01549 0.3039 0.8796 0.1569 0.1926
k(pl) x(ilm) Q(ilm)

0.01469 0.47020.0001101

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1316	0.1281	0.08913	0.2757	0.005997	0.003567	0	0.3272	0.03874

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.10	748.2	0.3043	0.2467	0.04870	0.1227	0.2689	0.6796
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1398	0.01538	0.3071	0.8756	0.1457	0.1941
		k(pl)	x(ilm)	Q(ilm)			
		0.01613	0.47490	0.0001121			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1310	0.1281	0.08764	0.2777	0.006048	0.003503	0	0.3268	0.03909

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.20	757.1	0.3055	0.2517	0.04884	0.1257	0.2632	0.6765
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1358	0.01525	0.3107	0.8719	0.1351	0.1959
		k(pl)	x(ilm)	Q(ilm)			
		0.01781	0.48020	0.0001146			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1306	0.1281	0.08599	0.2799	0.006108	0.003431	0	0.3265	0.03945

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.30	766.5	0.3069	0.2570	0.04896	0.1287	0.2574	0.6733
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1316	0.01511	0.3144	0.8685	0.1254	0.1977
		k(pl)	x(ilm)	Q(ilm)			
		0.01975	0.48580	0.0001174			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1303	0.1279	0.08422	0.2821	0.006173	0.003353	0	0.3261	0.03982

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.40	776.1	0.3083	0.2624	0.04905	0.1319	0.2515	0.6701
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1274	0.01497	0.3183	0.8654	0.1166	0.1995
		k(pl)	x(ilm)	Q(ilm)			
		0.02195	0.49160	0.0001203			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1299	0.1277	0.08241	0.2844	0.006241	0.003272	0	0.3258	0.04019

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.50	785.8	0.3097	0.2677	0.04913	0.1350	0.2457	0.6669
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1234	0.01486	0.3221	0.8626	0.1088	0.2011
		k(pl)	x(ilm)	Q(ilm)			

0.02439 0.49720.0001230

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1296	0.1276	0.08061	0.2866	0.006307	0.003192	0	0.3255	0.04057

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.60 795.4 0.3110 0.2728 0.04921 0.1381 0.2401 0.6637
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1196 0.01478 0.3257 0.8601 0.1020 0.2024
k(pl) x(ilm) Q(ilm)
0.02707 0.50260.0001253

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1292	0.1276	0.07885	0.2887	0.006370	0.003114	0	0.3252	0.04094

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.70 804.9 0.3120 0.2775 0.04928 0.1412 0.2347 0.6604
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1162 0.01473 0.3290 0.8579 0.09591 0.2035
k(pl) x(ilm) Q(ilm)
0.02996 0.50760.0001270

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1287	0.1278	0.07716	0.2907	0.006428	0.003042	0	0.3248	0.04132

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.80 814.1 0.3129 0.2819 0.04937 0.1441 0.2297 0.6572
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1130 0.01471 0.3320 0.8558 0.09061 0.2043
k(pl) x(ilm) Q(ilm)
0.03306 0.51220.0001281

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1281	0.1281	0.07555	0.2927	0.006480	0.002976	0	0.3245	0.04169

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.90 822.9 0.3135 0.2860 0.04946 0.1470 0.2250 0.6540
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1103 0.01473 0.3347 0.8540 0.08594 0.2047
k(pl) x(ilm) Q(ilm)
0.03637 0.51640.0001285

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1273	0.1285	0.07403	0.2946	0.006525	0.002918	0	0.3241	0.04206

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.00 831.5 0.3138 0.2896 0.04957 0.1498 0.2205 0.6507
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1078 0.01479 0.3370 0.8523 0.08181 0.2049
k(pl) x(ilm) Q(ilm)

0.03988 0.52010.0001283

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1264	0.1292	0.07259	0.2964	0.006563	0.002868	0	0.3236	0.04244

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.10 839.7 0.3139 0.2930 0.04969 0.1524 0.2164 0.6474
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1056 0.01487 0.3390 0.8508 0.07816 0.2049
k(pl) x(ilm) Q(ilm)
0.04359 0.52340.0001274

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1253	0.1300	0.07122	0.2981	0.006594	0.002827	0	0.3231	0.04282

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.20 847.6 0.3138 0.2959 0.04983 0.1549 0.2125 0.6441
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1037 0.01498 0.3406 0.8493 0.07490 0.2045
k(pl) x(ilm) Q(ilm)
0.04750 0.52620.0001260

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1241	0.1309	0.06993	0.2998	0.006617	0.002794	0	0.3226	0.04320

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.30 855.2 0.3134 0.2986 0.04999 0.1574 0.2090 0.6408
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1020 0.01513 0.3419 0.8479 0.07200 0.2039
k(pl) x(ilm) Q(ilm)
0.05161 0.52860.0001241

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1227	0.1321	0.06871	0.3015	0.006634	0.002770	0	0.3220	0.04359

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.40 862.4 0.3128 0.3009 0.05018 0.1597 0.2056 0.6374
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1006 0.01530 0.3429 0.8466 0.06940 0.2031
k(pl) x(ilm) Q(ilm)
0.05592 0.53060.0001218

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1211	0.1334	0.06754	0.3032	0.006643	0.002756	0	0.3214	0.04399

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.50 869.3 0.3120 0.3029 0.05038 0.1619 0.2025 0.6340
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09947 0.01549 0.3436 0.8453 0.06706 0.2021
k(pl) x(ilm) Q(ilm)

0.06043 0.53210.0001194

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1193	0.1349	0.06644	0.3048	0.006645	0.002751	0	0.3208	0.04439

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.60 875.9 0.3109 0.3046 0.05061 0.1641 0.1996 0.6305
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09852 0.01572 0.3440 0.8441 0.06496 0.2009
k(pl) x(ilm) Q(ilm)
0.06514 0.53330.0001162

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1174	0.1365	0.06538	0.3064	0.006640	0.002755	0	0.3200	0.04480

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.70 882.1 0.3096 0.3060 0.05087 0.1661 0.1970 0.6270
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09776 0.01596 0.3441 0.8429 0.06307 0.1994
k(pl) x(ilm) Q(ilm)
0.07006 0.53410.0001129

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1153	0.1383	0.06438	0.3080	0.006628	0.002768	0	0.3193	0.04523

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.80 888.1 0.3081 0.3072 0.05114 0.1680 0.1945 0.6234
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09719 0.01623 0.3438 0.8418 0.06136 0.1977
k(pl) x(ilm) Q(ilm)
0.07517 0.53450.0001095

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1131	0.1403	0.06342	0.3097	0.006608	0.002791	0	0.3185	0.04566

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.90 893.7 0.3064 0.3081 0.05145 0.1698 0.1922 0.6198
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09681 0.01653 0.3433 0.8407 0.05983 0.1959
k(pl) x(ilm) Q(ilm)
0.08047 0.53450.0001060

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1107	0.1425	0.06251	0.3113	0.006582	0.002823	0	0.3176	0.04610

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.00 899.0 0.3045 0.3088 0.05177 0.1716 0.1901 0.6161
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09659 0.01685 0.3426 0.8395 0.05845 0.1938
k(pl) x(ilm) Q(ilm)

0.08595 0.53420.0001026

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1081	0.1448	0.06163	0.3129	0.006549	0.002864	0	0.3167	0.04655

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.10 904.0 0.3024 0.3092 0.05212 0.1732 0.1881 0.6123
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09654 0.01719 0.3415 0.8385 0.05721 0.1916
k(pl) x(ilm) Q(ilm)
0.09162 0.5335 9.889e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1053	0.1473	0.06080	0.3145	0.006508	0.002914	0	0.3157	0.04701

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.20 908.7 0.3001 0.3094 0.05250 0.1748 0.1863 0.6085
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09665 0.01756 0.3402 0.8374 0.05610 0.1891
k(pl) x(ilm) Q(ilm)
0.09746 0.5325 9.531e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1024	0.1499	0.06001	0.3161	0.006461	0.002973	0	0.3147	0.04748

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.30 913.0 0.2976 0.3094 0.05290 0.1763 0.1846 0.6045
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09690 0.01795 0.3386 0.8363 0.05512 0.1865
k(pl) x(ilm) Q(ilm)
0.1035 0.5311 9.176e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.09929	0.1527	0.05925	0.3177	0.006407	0.003041	0	0.3137	0.04796

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 917.1 0.2950 0.3092 0.05332 0.1777 0.1831 0.6005
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09729 0.01837 0.3368 0.8352 0.05424 0.1838
k(pl) x(ilm) Q(ilm)
0.1096 0.5295 8.827e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.09605	0.1557	0.05853	0.3193	0.006347	0.003117	0	0.3126	0.04845

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.50 920.9 0.2922 0.3088 0.05376 0.1790 0.1816 0.5965
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09781 0.01881 0.3348 0.8341 0.05346 0.1808
k(pl) x(ilm) Q(ilm)

0.1159 0.5275 8.485e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.09267	0.1588	0.05785	0.3209	0.006280	0.003201	0	0.3114	0.04895

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.60 924.5 0.2892 0.3082 0.05422 0.1802 0.1803 0.5923
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09846 0.01928 0.3326 0.8330 0.05279 0.1777
k(pl) x(ilm) Q(ilm)
0.1223 0.5253 8.153e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.08914	0.1620	0.05721	0.3225	0.006207	0.003292	0	0.3102	0.04945

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.70 927.8 0.2861 0.3075 0.05470 0.1813 0.1790 0.5881
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09921 0.01976 0.3301 0.8320 0.05220 0.1745
k(pl) x(ilm) Q(ilm)
0.1288 0.5228 7.831e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.08547	0.1654	0.05660	0.3240	0.006128	0.003391	0	0.3090	0.04997

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.80 930.8 0.2829 0.3066 0.05519 0.1824 0.1778 0.5838
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1001 0.02027 0.3275 0.8309 0.05169 0.1710
k(pl) x(ilm) Q(ilm)
0.1355 0.5201 7.520e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.08168	0.1689	0.05602	0.3256	0.006044	0.003497	0	0.3078	0.05049

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.90 933.6 0.2796 0.3056 0.05570 0.1834 0.1767 0.5795
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1010 0.02080 0.3247 0.8298 0.05127 0.1675
k(pl) x(ilm) Q(ilm)
0.1422 0.5171 7.220e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.07777	0.1725	0.05548	0.3271	0.005954	0.003609	0	0.3065	0.05101

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.00 936.2 0.2762 0.3044 0.05623 0.1844 0.1757 0.5751
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1020 0.02135 0.3217 0.8287 0.05091 0.1638
k(pl) x(ilm) Q(ilm)

0.1490 0.5140 6.934e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.07375	0.1763	0.05496	0.3287	0.005859	0.003726	0	0.3052	0.05154

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.10 938.5 0.2727 0.3032 0.05676 0.1853 0.1747 0.5706
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1031 0.02192 0.3186 0.8276 0.05063 0.1601
k(pl) x(ilm) Q(ilm)
0.1558 0.5106 6.659e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.06963	0.1802	0.05448	0.3302	0.005759	0.003849	0	0.3038	0.05208

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.20 940.7 0.2691 0.3018 0.05731 0.1861 0.1737 0.5661
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1043 0.02251 0.3154 0.8264 0.05041 0.1562
k(pl) x(ilm) Q(ilm)
0.1628 0.5071 6.397e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.06542	0.1841	0.05402	0.3317	0.005656	0.003977	0	0.3025	0.05262

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.30 942.7 0.2655 0.3004 0.05786 0.1869 0.1728 0.5615
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1054 0.02311 0.3121 0.8253 0.05024 0.1522
k(pl) x(ilm) Q(ilm)
0.1697 0.5035 6.140e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.06112	0.1882	0.05357	0.3332	0.005548	0.004109	0	0.3011	0.05317

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.40 944.5 0.2619 0.2989 0.05841 0.1876 0.1719 0.5569
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1066 0.02372 0.3087 0.8242 0.05013 0.1481
k(pl) x(ilm) Q(ilm)
0.1767 0.4997 5.912e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.05674	0.1923	0.05315	0.3347	0.005438	0.004244	0	0.2997	0.05372

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.50 946.3 0.2582 0.2973 0.05897 0.1883 0.1710 0.5522
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1079 0.02434 0.3052 0.8230 0.05007 0.1440
k(pl) x(ilm) Q(ilm)

0.1838 0.4958 5.688e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.05230	0.1965	0.05273	0.3362	0.005324	0.004383	0	0.2983	0.05427

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.60 947.8 0.2546 0.2956 0.05953 0.1890 0.1701 0.5476
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1091 0.02498 0.3017 0.8219 0.05005 0.1398
k(pl) x(ilm) Q(ilm)
0.1909 0.4919 5.475e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.04779	0.2008	0.05232	0.3376	0.005209	0.004525	0	0.2969	0.05483

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : bi, g, mu, pl, ilm, ru, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.10 809.9 0.4023 0.3395 0.03865 0.1392 0.2101 0.7261
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08504 0.008535 0.4123 0.8760 0.07931 0.2404
k(pl) x(ilm) Q(ilm)
0.03831 0.6796 0.4288

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2068	0.05921	0	0.3157	0.009797	5.203e-5	0.02281	0.3409	0.04480

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.20 815.8 0.4009 0.3407 0.03891 0.1411 0.2077 0.7231
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08438 0.008699 0.4125 0.8745 0.07685 0.2393
k(pl) x(ilm) Q(ilm)
0.04080 0.6719 0.4059

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2051	0.06096	0	0.3163	0.0095770	0.0001324	0.02248	0.3404	0.04502

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)			
13.30	821.7	0.3994	0.3419	0.03917	0.1431	0.2053	0.7200			
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)			
		0.08378	0.008868	0.4127	0.8730	0.07454	0.2382			
		k(pl)	x(ilm)	Q(ilm)						
		0.04344	0.6639	0.3806						

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.2034	0.06279	0	0.3169	0.0093590	0.0002153	0.02215	0.3398	0.04526	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)			
13.40	827.5	0.3979	0.3429	0.03943	0.1450	0.2031	0.7169			
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)			
		0.08324	0.009042	0.4127	0.8715	0.07236	0.2370			
		k(pl)	x(ilm)	Q(ilm)						
		0.04622	0.6554	0.3525						

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.2016	0.06469	0	0.3177	0.0091410	0.0003012	0.02183	0.3392	0.04551	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)			
13.50	833.2	0.3963	0.3439	0.03970	0.1468	0.2009	0.7138			
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)			
		0.08275	0.009222	0.4126	0.8701	0.07032	0.2358			
		k(pl)	x(ilm)	Q(ilm)						
		0.04916	0.6465	0.3204						

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.1997	0.06667	0	0.3184	0.0089230	0.0003910	0.02151	0.3386	0.04577	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)			
13.60	838.8	0.3946	0.3448	0.03996	0.1487	0.1989	0.7107			
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)			
		0.08233	0.009407	0.4124	0.8688	0.06839	0.2344			
		k(pl)	x(ilm)	Q(ilm)						
		0.05227	0.6368	0.2828						

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.1977	0.06873	0	0.3192	0.0087040	0.0004855	0.02118	0.3379	0.04603	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)			
13.70	844.4	0.3927	0.3455	0.04023	0.1505	0.1969	0.7075			
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)			
		0.08197	0.009597	0.4121	0.8674	0.06658	0.2330			
		k(pl)	x(ilm)	Q(ilm)						
		0.05554	0.6265	0.2366						

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.1956	0.07088	0	0.3200	0.0084810	0.0005856	0.02086	0.3372	0.04631	

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
13.80    849.8  0.3908  0.3461  0.04051  0.1523  0.1951  0.7043
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.08167 0.009794 0.4117 0.8661 0.06487 0.2315
          k(pl) x(ilm) Q(ilm)
          0.05899 0.6152 0.1743

mode     bi     g     mu     pl     ilm     ru     ky     q     H2O
0.1934  0.07313     0  0.3209 0.0082540.0006922 0.02054 0.3365 0.04661

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
13.90    855.1  0.3888  0.3467  0.04078  0.1541  0.1933  0.7010
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.08145 0.009998 0.4111 0.8648 0.06327 0.2299
          k(pl) x(ilm) Q(ilm)
          0.06262 0.6031 0.06016

mode     bi     g     mu     pl     ilm     ru     ky     q     H2O
0.1910  0.07548     0  0.3218 0.0080260.0008037 0.02023 0.3357 0.04691

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
14.00    860.1  0.3865  0.3469  0.04109  0.1557  0.1917  0.6977
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.08139 0.01022 0.4101 0.8636 0.06183 0.2284
          k(pl) x(ilm) Q(ilm)
          0.06621 0.6012 0.003729

mode     bi     g     mu     pl     ilm     ru     ky     q     H2O
0.1887  0.07758     0  0.3228 0.0079750.0008292 0.01999 0.3350 0.04721

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
14.10    865.0  0.3840  0.3470  0.04141  0.1574  0.1903  0.6943
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.08143 0.01045 0.4091 0.8623 0.06050 0.2268
          k(pl) x(ilm) Q(ilm)
          0.06993 0.6007 0.001772

mode     bi     g     mu     pl     ilm     ru     ky     q     H2O
0.1863  0.07972     0  0.3237 0.0079480.0008469 0.01976 0.3342 0.04752

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
14.20    869.7  0.3815  0.3470  0.04175  0.1590  0.1890  0.6909
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.08153 0.01069 0.4078 0.8611 0.05924 0.2251
          k(pl) x(ilm) Q(ilm)
          0.07380 0.6001 0.001149

mode     bi     g     mu     pl     ilm     ru     ky     q     H2O
0.1838  0.08196     0  0.3247 0.0079170.0008707 0.01954 0.3334 0.04784

```

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.30 874.3 0.3788 0.3468 0.04210 0.1605 0.1877 0.6874
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08170 0.01094 0.4064 0.8599 0.05807 0.2233
k(pl) x(ilm) Q(ilm)
0.07784 0.59920.0008415

mode bi g mu pl ilm ru ky q H2O
0.1811 0.08429 0 0.3258 0.0078820.0009007 0.01932 0.3325 0.04817

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.40 878.7 0.3760 0.3466 0.04247 0.1620 0.1865 0.6838
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08195 0.01121 0.4049 0.8587 0.05697 0.2214
k(pl) x(ilm) Q(ilm)
0.08203 0.59820.0006591

mode bi g mu pl ilm ru ky q H2O
0.1784 0.08673 0 0.3268 0.0078430.0009371 0.01910 0.3317 0.04851

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.50 883.0 0.3731 0.3462 0.04285 0.1635 0.1854 0.6803
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08227 0.01149 0.4032 0.8576 0.05594 0.2194
k(pl) x(ilm) Q(ilm)
0.08639 0.59700.0005382

mode bi g mu pl ilm ru ky q H2O
0.1755 0.08927 0 0.3280 0.0077990.0009801 0.01888 0.3308 0.04886

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.60 887.2 0.3701 0.3457 0.04325 0.1649 0.1844 0.6766
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08268 0.01178 0.4014 0.8564 0.05499 0.2173
k(pl) x(ilm) Q(ilm)
0.09090 0.59560.0004523

mode bi g mu pl ilm ru ky q H2O
0.1725 0.09191 0 0.3291 0.007751 0.001030 0.01867 0.3298 0.04922

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.70 891.1 0.3669 0.3451 0.04367 0.1663 0.1835 0.6729
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08316 0.01208 0.3994 0.8552 0.05411 0.2151
k(pl) x(ilm) Q(ilm)
0.09556 0.59400.0003881

mode bi g mu pl ilm ru ky q H2O
0.1694 0.09466 0 0.3303 0.007699 0.001086 0.01846 0.3288 0.04960

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.80 894.9 0.3637 0.3444 0.04410 0.1676 0.1826 0.6692
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08373 0.01240 0.3972 0.8541 0.05329 0.2128
k(pl) x(ilm) Q(ilm)
0.1004 0.59220.0003383

mode bi g mu pl ilm ru ky q H2O
0.1662 0.09751 0 0.3315 0.007642 0.001149 0.01825 0.3278 0.04998

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.90 898.6 0.3603 0.3435 0.04456 0.1689 0.1818 0.6654
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08438 0.01274 0.3949 0.8530 0.05254 0.2104
k(pl) x(ilm) Q(ilm)
0.1053 0.59010.0002986

mode bi g mu pl ilm ru ky q H2O
0.1629 0.1005 0 0.3327 0.007580 0.001218 0.01805 0.3267 0.05038

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.00 902.1 0.3568 0.3425 0.04503 0.1701 0.1811 0.6615
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08512 0.01309 0.3924 0.8518 0.05185 0.2079
k(pl) x(ilm) Q(ilm)
0.1104 0.58790.0002662

mode bi g mu pl ilm ru ky q H2O
0.1594 0.1035 0 0.3340 0.007514 0.001294 0.01786 0.3256 0.05079

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.10 905.4 0.3532 0.3415 0.04551 0.1713 0.1804 0.6575
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08594 0.01346 0.3898 0.8507 0.05122 0.2053
k(pl) x(ilm) Q(ilm)
0.1156 0.58550.0002393

mode bi g mu pl ilm ru ky q H2O
0.1559 0.1067 0 0.3353 0.007443 0.001376 0.01767 0.3244 0.05121

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.20 908.5 0.3495 0.3403 0.04602 0.1725 0.1798 0.6535
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08685 0.01384 0.3870 0.8496 0.05065 0.2026
k(pl) x(ilm) Q(ilm)
0.1210 0.58290.0002167

mode bi g mu pl ilm ru ky q H2O
0.1522 0.1100 0 0.3366 0.007368 0.001465 0.01748 0.3233 0.05163

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.30 911.5 0.3457 0.3390 0.04654 0.1736 0.1793 0.6495
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08785 0.01425 0.3841 0.8484 0.05014 0.1998
k(pl) x(ilm) Q(ilm)
0.1265 0.58010.0001974

mode bi g mu pl ilm ru ky q H2O
0.1485 0.1133 0 0.3379 0.007288 0.001560 0.01730 0.3220 0.05207

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.40 914.3 0.3418 0.3376 0.04708 0.1746 0.1788 0.6454
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08892 0.01467 0.3810 0.8473 0.04968 0.1968
k(pl) x(ilm) Q(ilm)
0.1320 0.57700.0001807

mode bi g mu pl ilm ru ky q H2O
0.1446 0.1168 0 0.3392 0.007204 0.001660 0.01713 0.3208 0.05252

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.50 916.9 0.3378 0.3361 0.04763 0.1756 0.1783 0.6412
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09008 0.01512 0.3778 0.8462 0.04927 0.1938
k(pl) x(ilm) Q(ilm)
0.1377 0.57390.0001662

mode bi g mu pl ilm ru ky q H2O
0.1407 0.1204 0 0.3406 0.007115 0.001766 0.01697 0.3195 0.05297

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.60 919.4 0.3337 0.3345 0.04820 0.1766 0.1779 0.6369
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09131 0.01558 0.3744 0.8450 0.04892 0.1906
k(pl) x(ilm) Q(ilm)
0.1435 0.57050.0001534

mode bi g mu pl ilm ru ky q H2O
0.1367 0.1240 0 0.3419 0.007022 0.001877 0.01681 0.3183 0.05343

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.70 921.7 0.3295 0.3329 0.04878 0.1775 0.1775 0.6326
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09262 0.01606 0.3709 0.8439 0.04862 0.1873
k(pl) x(ilm) Q(ilm)
0.1493 0.56700.0001422

mode bi g mu pl ilm ru ky q H2O
0.1326 0.1278 0 0.3432 0.006924 0.001993 0.01666 0.3169 0.05390

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
15.80    923.9  0.3253  0.3311  0.04937  0.1784  0.1772  0.6283
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.09400  0.01656  0.3674  0.8428  0.04836  0.1840
          k(pl)  x(ilm)  Q(ilm)
          0.1552  0.56330.0001322

mode      bi      g      mu      pl      ilm      ru      ky      q      H2O
0.1284    0.1316      0  0.3446  0.006823  0.002114  0.01652  0.3156  0.05437

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
15.90    925.9  0.3210  0.3293  0.04998  0.1792  0.1768  0.6238
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.09545  0.01709  0.3637  0.8416  0.04816  0.1805
          k(pl)  x(ilm)  Q(ilm)
          0.1612  0.55940.0001233

mode      bi      g      mu      pl      ilm      ru      ky      q      H2O
0.1242    0.1355      0  0.3459  0.006718  0.002238  0.01638  0.3143  0.05485

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
16.00    927.8  0.3167  0.3274  0.05059  0.1800  0.1765  0.6194
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.09695  0.01763  0.3599  0.8405  0.04800  0.1770
          k(pl)  x(ilm)  Q(ilm)
          0.1672  0.55550.0001153

mode      bi      g      mu      pl      ilm      ru      ky      q      H2O
0.1199    0.1395      0  0.3472  0.006609  0.002367  0.01626  0.3129  0.05534

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
16.10    929.6  0.3123  0.3255  0.05121  0.1807  0.1762  0.6149
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.09851  0.01819  0.3560  0.8394  0.04788  0.1733
          k(pl)  x(ilm)  Q(ilm)
          0.1733  0.55140.0001081

mode      bi      g      mu      pl      ilm      ru      ky      q      H2O
0.1155    0.1435      0  0.3485  0.006496  0.002499  0.01614  0.3115  0.05583

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
16.20    931.2  0.3079  0.3235  0.05184  0.1815  0.1758  0.6103
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.1001  0.01877  0.3521  0.8382  0.04780  0.1696
          k(pl)  x(ilm)  Q(ilm)
          0.1794  0.54720.0001016

mode      bi      g      mu      pl      ilm      ru      ky      q      H2O
0.1111    0.1476      0  0.3497  0.006381  0.002634  0.01604  0.3102  0.05632

```

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.30 932.8 0.3036 0.3215 0.05247 0.1821 0.1755 0.6057
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1017 0.01937 0.3481 0.8371 0.04777 0.1658
k(pl) x(ilm) Q(ilm)
0.1855 0.5429 9.569e-5

mode bi g mu pl ilm ru ky q H2O
0.1067 0.1518 0 0.3510 0.006262 0.002772 0.01594 0.3088 0.05682

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 934.2 0.2992 0.3194 0.05310 0.1828 0.1752 0.6011
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1034 0.01998 0.3441 0.8359 0.04777 0.1619
k(pl) x(ilm) Q(ilm)
0.1917 0.5385 9.033e-5

mode bi g mu pl ilm ru ky q H2O
0.1023 0.1560 0 0.3522 0.006141 0.002912 0.01585 0.3074 0.05731

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.50 935.5 0.2948 0.3173 0.05374 0.1834 0.1748 0.5964
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1051 0.02061 0.3400 0.8348 0.04781 0.1579
k(pl) x(ilm) Q(ilm)
0.1978 0.5341 8.544e-5

mode bi g mu pl ilm ru ky q H2O
0.09777 0.1602 0 0.3534 0.006017 0.003054 0.01576 0.3060 0.05781

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.60 936.8 0.2904 0.3152 0.05437 0.1840 0.1744 0.5918
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1067 0.02125 0.3360 0.8336 0.04788 0.1539
k(pl) x(ilm) Q(ilm)
0.2040 0.5296 8.098e-5

mode bi g mu pl ilm ru ky q H2O
0.09326 0.1645 0 0.3546 0.005891 0.003197 0.01568 0.3046 0.05831

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.70 938.0 0.2861 0.3131 0.05500 0.1846 0.1740 0.5870
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1084 0.02189 0.3319 0.8324 0.04798 0.1499
k(pl) x(ilm) Q(ilm)
0.2101 0.5251 7.689e-5

mode bi g mu pl ilm ru ky q H2O
0.08873 0.1688 0 0.3557 0.005764 0.003342 0.01561 0.3032 0.05882

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
16.80    939.1  0.2818  0.3110  0.05563  0.1851  0.1736  0.5823
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.1100  0.02255  0.3278  0.8313  0.04811  0.1458
          k(pl)  x(ilm)  Q(ilm)
          0.2162  0.5206  7.314e-5

```

```

mode     bi     g     mu     pl     ilm     ru     ky     q     H2O
0.08419  0.1732      0  0.3569  0.005635  0.003488  0.01554  0.3018  0.05932
calcs use:

```

```

composition (from script)
  H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.00    651.1  0.4035  0.2509  0.03583  0.08894  0.3188  0.2481
          Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.2373  0.8060  0.1933  0.01387  0.3712  0.9978
          na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
          0.8795  0.2901  0.006114  0.7574  0.6603  0.2151

```

```

mode     bi     ep     g     mu     pl     ilm     ru     q     H2O
0.2151    0  0.04740  0.1034  0.2374  0.01257  7.317e-6  0.3585  0.02565

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.10    653.2  0.4020  0.2513  0.03637  0.08968  0.3176  0.2500
          Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.2389  0.8046  0.1943  0.01428  0.3706  0.9976
          na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
          0.8701  0.2864  0.006338  0.7455  0.6428  0.2138

```

```

mode     bi     ep     g     mu     pl     ilm     ru     q     H2O
0.2138    0  0.04971  0.1030  0.2375  0.011940  0.0002987  0.3579  0.02590

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.20    655.3  0.4002  0.2512  0.03690  0.09040  0.3166  0.2518
          Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.2404  0.8030  0.1953  0.01470  0.3698  0.9973
          na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
          0.8592  0.2824  0.006555  0.7327  0.6237  0.2123

```

```

mode     bi     ep     g     mu     pl     ilm     ru     q     H2O
0.2123    0  0.05216  0.1026  0.2376  0.011330  0.0005825  0.3573  0.02616

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.30    657.2  0.3981  0.2506  0.03742  0.09109  0.3161  0.2536
          Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)

```

0.2419 0.8012 0.1964 0.01513 0.3686 0.9969
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8463 0.2782 0.006761 0.7186 0.6023 0.2105

mode bi ep g mu pl ilm ru q H2O
0.2105 0 0.05480 0.1023 0.2377 0.010730 0.0008631 0.3566 0.02643

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.40 659.0 0.3955 0.2493 0.03793 0.09173 0.3161 0.2553
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2433 0.7992 0.1975 0.01557 0.3669 0.9965
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8309 0.2735 0.006949 0.7029 0.5779 0.2085

mode bi ep g mu pl ilm ru q H2O
0.2085 0 0.05772 0.1022 0.2378 0.01014 0.001147 0.3558 0.02671

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.50 660.6 0.3922 0.2472 0.03844 0.09232 0.3167 0.2571
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2447 0.7969 0.1985 0.01601 0.3647 0.9958
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8121 0.2682 0.007107 0.6846 0.5487 0.2060

mode bi ep g mu pl ilm ru q H2O
0.2060 0 0.06104 0.1022 0.2379 0.009545 0.001443 0.3548 0.02703

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.60 661.9 0.3883 0.2439 0.03895 0.09281 0.3181 0.2588
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2462 0.7941 0.1995 0.01645 0.3616 0.9950
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7889 0.2621 0.007222 0.6615 0.5106 0.2030

mode bi ep g mu pl ilm ru q H2O
0.2030 0 0.06492 0.1023 0.2380 0.008901 0.001772 0.3537 0.02739

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.70 662.8 0.3835 0.2394 0.03943 0.09317 0.3205 0.2605
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2476 0.7910 0.2004 0.01688 0.3577 0.9937
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7607 0.2549 0.007283 0.6256 0.4470 0.1993

mode bi ep g mu pl ilm ru q H2O
0.1993 0 0.06957 0.1026 0.2382 0.008097 0.002193 0.3523 0.02781

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.80 662.9 0.3802 0.2334 0.03958 0.09325 0.3241 0.2619
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2488 0.7892 0.2022 0.01734 0.3549 0.9922
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7322 0.2456 0.007336 0.49000.0008821 0.1956

mode bi ep g mu pl ilm ru q H2O
0.1956 0 0.07577 0.1028 0.2377 0.006224 0.003156 0.3505 0.02823

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.90 663.3 0.3728 0.2278 0.04008 0.09350 0.3271 0.2632
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2499 0.7839 0.2021 0.01760 0.3482 0.9899
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6953 0.2382 0.007255 0.48600.0005882 0.1907

mode bi ep g mu pl ilm ru q H2O
0.1907 0 0.08045 0.1034 0.2383 0.006147 0.003237 0.3490 0.02874

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.00 663.6 0.3652 0.2224 0.04058 0.09371 0.3299 0.2644
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2509 0.7784 0.2017 0.01781 0.3412 0.9871
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6578 0.2308 0.007153 0.48160.0004338 0.1858

mode bi ep g mu pl ilm ru q H2O
0.1858 0 0.08517 0.1039 0.2391 0.006073 0.003321 0.3474 0.02928

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.10 664.0 0.3580 0.2177 0.04106 0.09393 0.3320 0.2656
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2519 0.7728 0.2011 0.01798 0.3345 0.9839
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6223 0.2240 0.007057 0.47730.0003411 0.1810

mode bi ep g mu pl ilm ru q H2O
0.1810 0 0.08964 0.1043 0.2400 0.006001 0.003401 0.3459 0.02980

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.20 664.4 0.3514 0.2137 0.04152 0.09418 0.3334 0.2667
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2528 0.7675 0.2006 0.01816 0.3284 0.9804
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5899 0.2177 0.006985 0.47300.0002817 0.1767

mode bi ep g mu pl ilm ru q H2O
0.1767 0 0.09375 0.1046 0.2408 0.005933 0.003474 0.3445 0.03028

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.30 665.0 0.3455 0.2103 0.04195 0.09448 0.3343 0.2677
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2536 0.7626 0.2002 0.01834 0.3230 0.9767
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5607 0.2121 0.006938 0.46900.0002397 0.1727

mode bi ep g mu pl ilm ru q H2O
0.1727 0 0.09748 0.1049 0.2415 0.005868 0.003540 0.3433 0.03072

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.40 665.8 0.3402 0.2075 0.04235 0.09481 0.3348 0.2686
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2544 0.7580 0.2001 0.01856 0.3181 0.9730
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5348 0.2069 0.006917 0.46520.0002096 0.1691

mode bi ep g mu pl ilm ru q H2O
0.1691 0 0.1009 0.1053 0.2421 0.005805 0.003600 0.3422 0.03111

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.50 666.6 0.3354 0.2050 0.04272 0.09517 0.3349 0.2696
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2552 0.7537 0.2001 0.01881 0.3138 0.9694
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5116 0.2021 0.006918 0.46170.0001869 0.1659

mode bi ep g mu pl ilm ru q H2O
0.1659 0 0.1040 0.1056 0.2425 0.005743 0.003653 0.3411 0.03146

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.60 667.6 0.3311 0.2028 0.04308 0.09557 0.3348 0.2705
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2559 0.7498 0.2003 0.01909 0.3100 0.9657
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4910 0.1977 0.006937 0.45840.0001692 0.1629

mode bi ep g mu pl ilm ru q H2O
0.1629 0 0.1069 0.1060 0.2429 0.005682 0.003702 0.3402 0.03176

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.70 668.6 0.3272 0.2008 0.04341 0.09598 0.3346 0.2715
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2567 0.7461 0.2007 0.01940 0.3065 0.9621
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4726 0.1934 0.006971 0.45540.0001551 0.1601

mode bi ep g mu pl ilm ru q H2O
0.1601 0 0.1095 0.1065 0.2430 0.005620 0.003747 0.3394 0.03203

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.80 669.7 0.3236 0.1989 0.04371 0.09640 0.3342 0.2724
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2574 0.7427 0.2014 0.01974 0.3034 0.9586
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4562 0.1894 0.007018 0.45250.0001435 0.1576

mode bi ep g mu pl ilm ru q H2O
0.1576 0 0.1120 0.1070 0.2431 0.005559 0.003789 0.3386 0.03226

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.90 670.7 0.3203 0.1971 0.04400 0.09683 0.3338 0.2734
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2581 0.7395 0.2021 0.02012 0.3005 0.9553
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4415 0.1855 0.007075 0.44970.0001338 0.1552

mode bi ep g mu pl ilm ru q H2O
0.1552 0 0.1144 0.1076 0.2431 0.005496 0.003828 0.3380 0.03247

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.00 671.9 0.3172 0.1954 0.04427 0.09727 0.3334 0.2744
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2589 0.7364 0.2030 0.02052 0.2979 0.9520
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4283 0.1817 0.007139 0.44720.0001256 0.1530

mode bi ep g mu pl ilm ru q H2O
0.1530 0 0.1166 0.1082 0.2429 0.005433 0.003865 0.3373 0.03265

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.10 673.0 0.3143 0.1937 0.04453 0.09770 0.3330 0.2753
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2596 0.7336 0.2041 0.02095 0.2955 0.9488
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4165 0.1780 0.007208 0.44470.0001185 0.1509

mode bi ep g mu pl ilm ru q H2O
0.1509 0 0.1187 0.1089 0.2427 0.005369 0.003901 0.3367 0.03280

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.20 674.1 0.3116 0.1920 0.04476 0.09813 0.3325 0.2763
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2604 0.7309 0.2053 0.02141 0.2933 0.9457
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4059 0.1744 0.007282 0.44230.0001124 0.1489

mode bi ep g mu pl ilm ru q H2O
0.1489 0 0.1208 0.1096 0.2423 0.005304 0.003935 0.3362 0.03294

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.30 675.2 0.3091 0.1903 0.04499 0.09855 0.3321 0.2773
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2611 0.7284 0.2065 0.02189 0.2912 0.9428
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3964 0.1708 0.007358 0.44000.0001069 0.1471

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1471	0	0.1228	0.1103	0.2419	0.005237	0.003968	0.3357	0.03305

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.40 676.3 0.3067 0.1886 0.04519 0.09896 0.3317 0.2783
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2619 0.7260 0.2079 0.02239 0.2892 0.9399
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3879 0.1672 0.007436 0.43780.0001021 0.1453

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1453	0	0.1247	0.1112	0.2414	0.005169	0.004001	0.3352	0.03314

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.50 677.3 0.3044 0.1868 0.04538 0.09936 0.3314 0.2793
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2626 0.7238 0.2093 0.02291 0.2873 0.9371
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3802 0.1636 0.007514 0.4357 9.777e-5 0.1436

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1436	0	0.1265	0.1120	0.2408	0.005100	0.004032	0.3348	0.03322

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.60 678.3 0.3022 0.1850 0.04556 0.09975 0.3311 0.2803
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2634 0.7216 0.2108 0.02345 0.2855 0.9345
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3734 0.1601 0.007591 0.4336 9.386e-5 0.1419

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1419	0	0.1283	0.1129	0.2401	0.005030	0.004064	0.3344	0.03329

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.70 679.3 0.3001 0.1832 0.04572 0.1001 0.3308 0.2813
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2642 0.7195 0.2124 0.02401 0.2838 0.9319
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3674 0.1565 0.007666 0.4316 9.031e-5 0.1403

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1403	0	0.1300	0.1138	0.2394	0.004958	0.004094	0.3340	0.03333

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.80 680.2 0.2981 0.1813 0.04586 0.1005 0.3306 0.2824
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2650 0.7176 0.2140 0.02458 0.2822 0.9294
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3620 0.1530 0.007739 0.4295 8.707e-5 0.1388

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1388	0	0.1317	0.1148	0.2387	0.004885	0.004125	0.3336	0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.90 681.1 0.2962 0.1794 0.04599 0.1008 0.3305 0.2834
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2657 0.7157 0.2157 0.02517 0.2806 0.9271
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3574 0.1495 0.007809 0.4276 8.410e-5 0.1374

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1374	0	0.1334	0.1158	0.2378	0.004811	0.004155	0.3333	0.03339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.00 681.9 0.2944 0.1775 0.04610 0.1011 0.3304 0.2844
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2665 0.7140 0.2174 0.02578 0.2791 0.9248
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3533 0.1459 0.007874 0.4256 8.137e-5 0.1360

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1360	0	0.1350	0.1168	0.2369	0.004736	0.004185	0.3330	0.03340

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.10 682.6 0.2926 0.1755 0.04620 0.1014 0.3304 0.2854
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2673 0.7123 0.2191 0.02640 0.2777 0.9226
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3499 0.1424 0.007935 0.4237 7.884e-5 0.1346

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1346	0	0.1365	0.1179	0.2360	0.004660	0.004214	0.3327	0.03339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.20 683.3 0.2910 0.1734 0.04628 0.1017 0.3305 0.2865
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2681 0.7108 0.2209 0.02703 0.2763 0.9205
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3470 0.1388 0.007991 0.4218 7.650e-5 0.1333

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1333	0	0.1380	0.1190	0.2350	0.004582	0.004243	0.3324	0.03338

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.30 683.9 0.2894 0.1713 0.04634 0.1019 0.3306 0.2875
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2689 0.7093 0.2227 0.02768 0.2749 0.9185
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3447 0.1353 0.008040 0.4200 7.433e-5 0.1321

mode bi ep g mu pl ilm ru q H2O
0.1321 0 0.1395 0.1201 0.2340 0.004504 0.004273 0.3322 0.03335

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.40 684.4 0.2878 0.1691 0.04639 0.1021 0.3308 0.2885
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2697 0.7079 0.2246 0.02834 0.2736 0.9166
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3429 0.1317 0.008084 0.4181 7.231e-5 0.1309

mode bi ep g mu pl ilm ru q H2O
0.1309 0 0.1409 0.1213 0.2329 0.004424 0.004301 0.3319 0.03331

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.50 684.9 0.2864 0.1669 0.04642 0.1023 0.3311 0.2896
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2705 0.7067 0.2265 0.02901 0.2724 0.9148
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3416 0.1282 0.008121 0.4163 7.042e-5 0.1298

mode bi ep g mu pl ilm ru q H2O
0.1298 0 0.1423 0.1225 0.2318 0.004344 0.004330 0.3317 0.03326

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.60 685.3 0.2850 0.1647 0.04643 0.1025 0.3314 0.2906
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2713 0.7055 0.2284 0.02970 0.2712 0.9131
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3408 0.1247 0.008151 0.4145 6.867e-5 0.1288

mode bi ep g mu pl ilm ru q H2O
0.1288 0 0.1436 0.1237 0.2306 0.004262 0.004358 0.3315 0.03320

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.70 685.6 0.2837 0.1623 0.04642 0.1026 0.3319 0.2917
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2721 0.7045 0.2303 0.03040 0.2700 0.9116
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3406 0.1211 0.008174 0.4127 6.702e-5 0.1278

mode bi ep g mu pl ilm ru q H2O
0.1278 0 0.1449 0.1249 0.2294 0.004180 0.004386 0.3314 0.03312

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.80 685.9 0.2825 0.1600 0.04639 0.1027 0.3324 0.2927
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2729 0.7036 0.2323 0.03111 0.2690 0.9101
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3409 0.1176 0.008190 0.4110 6.549e-5 0.1269

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1269	0	0.1461	0.1261	0.2281	0.004097	0.004414	0.3312	0.03303

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.90 686.1 0.2814 0.1575 0.04634 0.1028 0.3330 0.2937
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2737 0.7028 0.2343 0.03184 0.2679 0.9087
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3418 0.1141 0.008198 0.4093 6.406e-5 0.1260

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1260	0	0.1473	0.1274	0.2268	0.004013	0.004441	0.3311	0.03293

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.00 686.1 0.2803 0.1550 0.04627 0.1028 0.3337 0.2948
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2746 0.7021 0.2364 0.03259 0.2670 0.9075
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3433 0.1106 0.008198 0.4076 6.273e-5 0.1252

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1252	0	0.1484	0.1287	0.2254	0.003928	0.004467	0.3310	0.03282

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.10 686.2 0.2794 0.1525 0.04617 0.1029 0.3346 0.2958
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2754 0.7016 0.2385 0.03335 0.2661 0.9064
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3453 0.1071 0.008191 0.4059 6.149e-5 0.1245

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1245	0	0.1494	0.1301	0.2240	0.003842	0.004493	0.3310	0.03269

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.20 686.1 0.2786 0.1499 0.04605 0.1028 0.3355 0.2969
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2762 0.7013 0.2407 0.03414 0.2653 0.9055
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3480 0.1036 0.008177 0.4043 6.034e-5 0.1239

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1239	0	0.1503	0.1315	0.2225	0.003754	0.004518	0.3309	0.03254

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.30 685.9 0.2779 0.1473 0.04591 0.1028 0.3366 0.2979
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2771 0.7011 0.2430 0.03495 0.2646 0.9048
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3514 0.1002 0.008156 0.4028 5.929e-5 0.1234

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1234	0	0.1512	0.1329	0.2210	0.003666	0.004543	0.3310	0.03238

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.40 685.7 0.2774 0.1445 0.04573 0.1027 0.3378 0.2990
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2779 0.7011 0.2453 0.03579 0.2640 0.9043
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3556 0.09676 0.008128 0.4013 5.832e-5 0.1230

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1230	0	0.1520	0.1343	0.2194	0.003576	0.004566	0.3310	0.03219

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.50 685.4 0.2770 0.1418 0.04553 0.1026 0.3392 0.3001
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2788 0.7014 0.2478 0.03667 0.2636 0.9040
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3606 0.09336 0.008096 0.3998 5.745e-5 0.1228

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1228	0	0.1526	0.1358	0.2176	0.003484	0.004588	0.3311	0.03198

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.60 684.9 0.2768 0.1389 0.04529 0.1025 0.3408 0.3012
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2797 0.7019 0.2505 0.03761 0.2633 0.9040
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3667 0.09000 0.008059 0.3985 5.668e-5 0.1227

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1227	0	0.1532	0.1373	0.2158	0.003389	0.004608	0.3313	0.03174

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.70 684.4 0.2768 0.1360 0.04502 0.1023 0.3425 0.3023
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2806 0.7028 0.2533 0.03860 0.2633 0.9043
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3740 0.08666 0.008020 0.3973 5.602e-5 0.1228

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1228	0	0.1536	0.1389	0.2138	0.003291	0.004627	0.3315	0.03147

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.80 683.9 0.2771 0.1331 0.04471 0.1021 0.3445 0.3034
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2816 0.7041 0.2564 0.03968 0.2635 0.9051
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3827 0.08335 0.007981 0.3962 5.549e-5 0.1231

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1231	0	0.1538	0.1405	0.2117	0.003189	0.004644	0.3318	0.03117

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.90 683.2 0.2778 0.1301 0.04435 0.1019 0.3468 0.3046
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2825 0.7058 0.2599 0.04087 0.2641 0.9064
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3933 0.08007 0.007948 0.3954 5.511e-5 0.1238

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1238	0	0.1538	0.1422	0.2094	0.003080	0.004658	0.3322	0.03081

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.00 682.5 0.2790 0.1270 0.04394 0.1016 0.3494 0.3059
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2836 0.7082 0.2638 0.04221 0.2651 0.9083
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4061 0.07683 0.007925 0.3948 5.491e-5 0.1248

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1248	0	0.1535	0.1441	0.2068	0.002963	0.004668	0.3328	0.03038

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.10 681.8 0.2808 0.1238 0.04346 0.1013 0.3525 0.3072
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2847 0.7114 0.2684 0.04378 0.2668 0.9112
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4221 0.07364 0.007925 0.3946 5.497e-5 0.1263

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1263	0	0.1529	0.1461	0.2038	0.002834	0.004673	0.3335	0.02987

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.20 681.0 0.2835 0.1206 0.04292 0.1010 0.3561 0.3086
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2858 0.7156 0.2740 0.04567 0.2695 0.9152
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4420 0.07052 0.007965 0.3949 5.534e-5 0.1285

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1285	0	0.1518	0.1483	0.2003	0.002686	0.004672	0.3345	0.02924

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.30 680.4 0.2875 0.1175 0.04230 0.1008 0.3602 0.3102
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2871 0.7213 0.2808 0.04801 0.2734 0.9205
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4668 0.06753 0.008072 0.3959 5.615e-5 0.1315

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1315	0	0.1501	0.1507	0.1962	0.002514	0.004663	0.3358	0.02847

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.40 680.0 0.2927 0.1146 0.04164 0.1006 0.3647 0.3119
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2884 0.7282 0.2889 0.05088 0.2789 0.9271
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4963 0.06474 0.008274 0.3977 5.739e-5 0.1354

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1354	0	0.1477	0.1534	0.1915	0.002314	0.004645	0.3375	0.02756

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.50 679.9 0.2988 0.1120 0.04098 0.1005 0.3691 0.3136
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2898 0.7359 0.2980 0.05419 0.2854 0.9340
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5279 0.06224 0.008573 0.3999 5.891e-5 0.1399

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1399	0	0.1449	0.1562	0.1865	0.002094	0.004621	0.3393	0.02656

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.60 680.0 0.3052 0.1100 0.04039 0.1005 0.3731 0.3153
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2911 0.7434 0.3072 0.05770 0.2922 0.9404
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5582 0.06003 0.008936 0.4021 6.041e-5 0.1443

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1443	0	0.1421	0.1589	0.1817	0.001868	0.004597	0.3411	0.02558

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.70 680.3 0.3112 0.1082 0.03986 0.1006 0.3765 0.3170
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2923 0.7503 0.3159 0.06122 0.2988 0.9458
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5854 0.05803 0.009323 0.4039 6.168e-5 0.1484

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1484	0	0.1394	0.1614	0.1772	0.001646	0.004576	0.3427	0.02467

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.80 680.7 0.3168 0.1067 0.03940 0.1007 0.3793 0.3186
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2934 0.7564 0.3242 0.06467 0.3049 0.9502
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6094 0.05617 0.009711 0.4054 6.269e-5 0.1521

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1521	0	0.1371	0.1638	0.1731	0.001433	0.004558	0.3442	0.02383

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.90 681.0 0.3219 0.1052 0.03898 0.1008 0.3819 0.3201
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2945 0.7620 0.3319 0.06806 0.3105 0.9539
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6306 0.05440 0.01009 0.4065 6.345e-5 0.1554

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1554	0	0.1349	0.1661	0.1693	0.001227	0.004545	0.3455	0.02307

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.00 681.3 0.3267 0.1038 0.03859 0.1010 0.3841 0.3215
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2956 0.7670 0.3392 0.07140 0.3158 0.9570
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6495 0.05269 0.01046 0.4073 6.398e-5 0.1584

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1584	0	0.1329	0.1682	0.1658	0.001028	0.004535	0.3467	0.02235

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.10 681.5 0.3312 0.1025 0.03823 0.1010 0.3862 0.3229
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2966 0.7716 0.3463 0.07471 0.3207 0.9597
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6667 0.05103 0.01082 0.4078 6.434e-5 0.1612

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1612	0	0.1311	0.1702	0.1626	0.0008341	0.004527	0.3478	0.02168

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.20 681.7 0.3354 0.1012 0.03788 0.1011 0.3881 0.3243
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2976 0.7758 0.3530 0.07801 0.3254 0.9619
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6824 0.04941 0.01116 0.4082 6.454e-5 0.1638

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1638	0	0.1294	0.1722	0.1595	0.0006441	0.004522	0.3488	0.02105

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.30 681.8 0.3394 0.09982 0.03754 0.1012 0.3899 0.3257
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2986 0.7798 0.3596 0.08132 0.3298 0.9639
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6969 0.04782 0.01149 0.4083 6.461e-5 0.1663

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1663	0	0.1278	0.1741	0.15650	0.0004574	0.004519	0.3498	0.02045

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.40 681.9 0.3432 0.09847 0.03721 0.1012 0.3916 0.3271
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2996 0.7836 0.3660 0.08464 0.3341 0.9656
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7104 0.04627 0.01181 0.4083 6.457e-5 0.1686

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1686	0	0.1263	0.1760	0.15370	0.0002730	0.004517	0.3507	0.01987

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.50 681.9 0.3469 0.09711 0.03688 0.1013 0.3932 0.3284
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3006 0.7872 0.3722 0.08801 0.3381 0.9672
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7230 0.04475 0.01211 0.4081 6.444e-5 0.1708

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1708	0	0.1249	0.1779	0.1510	9.043e-5	0.004517	0.3516	0.01930

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.22 671.2 0.05611 0.1939 0.8839 0.0067380 0.0007796 0.6932
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7412 0.3869 0.2657 0.03680 0.09501 0.3023
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7727 0.1219 0.007307 0.3610 0.9367 0.2619
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2447 0.007640 0.7501 0.6413 0 0.2020

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0	0.2020	0.05570	0.02874	0.2979	0.01271	0	0.02110	0.3421	0.03979

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
10.70	672.4	0.06067	0.1959	0.8691	0.0065950	0.0008181	0.7137				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7345	0.4218	0.2908	0.03537	0.09211	0.2850					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7901	0.1038	0.005824	0.3915	0.9352	0.2305					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2536	0.008388	0.7413	0.6281	0	0.2258					
mode	liq	bi	g	mu	pl	ilm	ky	q	H2O		
	0	0.2258	0.03576	0.001762	0.3081	0.01224	0.02916	0.3459	0.04126		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
10.75	672.3	0.06022	0.1957	0.8705	0.0066120	0.0008147	0.7118				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7351	0.4183	0.2883	0.03552	0.09239	0.2868					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7885	0.1054	0.005947	0.3886	0.9352	0.2329					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2529	0.008314	0.7422	0.6294	0	0.2233					
mode	liq	bi	g	mu	pl	ilm	ky	q	H2O		
	0	0.2233	0.03777	0.004456	0.3072	0.01229	0.02835	0.3455	0.04112		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
10.80	672.2	0.05977	0.1955	0.8720	0.0066280	0.0008113	0.7098				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7358	0.4149	0.2858	0.03567	0.09267	0.2887					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7868	0.1071	0.006074	0.3856	0.9353	0.2355					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2521	0.008241	0.7431	0.6307	0	0.2209					
mode	liq	bi	g	mu	pl	ilm	ky	q	H2O		
	0	0.2209	0.03976	0.007122	0.3063	0.01234	0.02754	0.3450	0.04099		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
10.85	672.1	0.05933	0.1953	0.8734	0.0066430	0.0008077	0.7079				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7364	0.4115	0.2833	0.03581	0.09295	0.2905					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7851	0.1087	0.006206	0.3826	0.9353	0.2382					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2513	0.008168	0.7439	0.6320	0	0.2185					
mode	liq	bi	g	mu	pl	ilm	ky	q	H2O		
	0	0.2185	0.04173	0.009763	0.3054	0.01239	0.02674	0.3446	0.04085		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 672.0 0.05889 0.1951 0.8748 0.0066580.0008041 0.7059
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7371 0.4081 0.2808 0.03596 0.09323 0.2922
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7835 0.1104 0.006341 0.3797 0.9354 0.2410
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2505 0.008095 0.7448 0.6333 0 0.2162

mode liq bi g mu pl ilm ky q H2O
0 0.2162 0.04368 0.01238 0.3044 0.01243 0.02595 0.3442 0.04071

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.95 671.9 0.05845 0.1949 0.8763 0.0066730.0008005 0.7039
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7377 0.4047 0.2784 0.03610 0.09351 0.2939
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7818 0.1121 0.006480 0.3767 0.9355 0.2439
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2496 0.008023 0.7456 0.6346 0 0.2139

mode liq bi g mu pl ilm ky q H2O
0 0.2139 0.04561 0.01498 0.3034 0.01248 0.02517 0.3439 0.04057

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 671.8 0.05801 0.1947 0.8777 0.0066870.0007967 0.7020
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7384 0.4014 0.2760 0.03623 0.09379 0.2956
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7801 0.1139 0.006624 0.3738 0.9357 0.2469
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2488 0.007951 0.7464 0.6358 0 0.2116

mode liq bi g mu pl ilm ky q H2O
0 0.2116 0.04752 0.01756 0.3025 0.01252 0.02440 0.3435 0.04043

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.05 671.7 0.05757 0.1945 0.8791 0.0067000.0007929 0.7000
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7390 0.3980 0.2736 0.03637 0.09407 0.2972
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7785 0.1157 0.006772 0.3709 0.9359 0.2500
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2479 0.007879 0.7473 0.6371 0 0.2094

mode liq bi g mu pl ilm ky q H2O
0 0.2094 0.04941 0.02013 0.3015 0.01256 0.02364 0.3432 0.04029

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

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11.10  671.6 0.05714 0.1943 0.8805 0.0067120.0007891 0.6980
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7397 0.3947 0.2712 0.03650 0.09435 0.2988
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7768 0.1175 0.006925 0.3679 0.9361 0.2533
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2469 0.007808 0.7481 0.6383 0 0.2071

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mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0 0.2071 0.05129 0.02269 0.3004 0.01261 0.02288 0.3428 0.04014

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```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.15  671.4 0.05670 0.1942 0.8819 0.0067240.0007851 0.6960
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7403 0.3914 0.2689 0.03662 0.09463 0.3003
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7751 0.1193 0.007082 0.3650 0.9363 0.2568
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2460 0.007737 0.7489 0.6396 0 0.2050

```

```

mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0 0.2050 0.05316 0.02524 0.2994 0.01265 0.02213 0.3425 0.04000

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```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20  671.3 0.05627 0.1940 0.8833 0.0067350.0007811 0.6939
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7409 0.3882 0.2665 0.03675 0.09491 0.3018
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7734 0.1212 0.007245 0.3621 0.9366 0.2605
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2450 0.007666 0.7497 0.6408 0 0.2028

```

```

mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0 0.2028 0.05501 0.02779 0.2983 0.01269 0.02138 0.3422 0.03984

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```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.25  671.1 0.05584 0.1938 0.8847 0.0067450.0007770 0.6919
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7416 0.3849 0.2642 0.03687 0.09519 0.3032
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7717 0.1231 0.007412 0.3591 0.9369 0.2643
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2440 0.007596 0.7506 0.6420 0 0.2007

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mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0 0.2007 0.05685 0.03034 0.2972 0.01273 0.02063 0.3419 0.03969

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```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.30  671.0 0.05542 0.1936 0.8861 0.0067540.0007729 0.6898
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.7422 0.3817 0.2620 0.03699 0.09546 0.3046
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7699 0.1251 0.007584 0.3562 0.9373 0.2684
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2430 0.007526 0.7514 0.6433 0 0.1986

mode liq bi g mu pl ilm ky q H2O
 0 0.1986 0.05869 0.03289 0.2960 0.01277 0.01989 0.3416 0.03953

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.35 670.9 0.05499 0.1934 0.8875 0.0067630.0007687 0.6878
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7428 0.3784 0.2597 0.03711 0.09574 0.3059
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7682 0.1270 0.007762 0.3533 0.9377 0.2727
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2420 0.007455 0.7522 0.6445 0 0.1965

mode liq bi g mu pl ilm ky q H2O
 0 0.1965 0.06051 0.03545 0.2948 0.01281 0.01914 0.3413 0.03936

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.40 670.7 0.05457 0.1933 0.8889 0.0067710.0007645 0.6857
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7434 0.3752 0.2575 0.03722 0.09602 0.3072
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7665 0.1290 0.007946 0.3504 0.9382 0.2772
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2409 0.007385 0.7530 0.6457 0 0.1945

mode liq bi g mu pl ilm ky q H2O
 0 0.1945 0.06233 0.03803 0.2936 0.01285 0.01840 0.3411 0.03919

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.45 670.5 0.05414 0.1931 0.8903 0.0067780.0007602 0.6836
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7441 0.3720 0.2553 0.03733 0.09630 0.3085
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7647 0.1310 0.008134 0.3474 0.9388 0.2821
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2398 0.007315 0.7539 0.6470 0 0.1925

mode liq bi g mu pl ilm ky q H2O
 0 0.1925 0.06414 0.04063 0.2924 0.01288 0.01764 0.3408 0.03901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.50 670.4 0.05372 0.1929 0.8917 0.0067850.0007559 0.6814
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7447 0.3689 0.2531 0.03743 0.09658 0.3097
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7630 0.1331 0.008329 0.3445 0.9394 0.2873
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2387 0.007246 0.7547 0.6483 0 0.1905

mode liq bi g mu pl ilm ky q H2O
0 0.1905 0.06595 0.04326 0.2911 0.01292 0.01688 0.3406 0.03883

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.55 670.2 0.05331 0.1927 0.8931 0.0067900.0007515 0.6793
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7453 0.3657 0.2509 0.03754 0.09686 0.3109
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7612 0.1352 0.008530 0.3416 0.9401 0.2929
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2376 0.007176 0.7555 0.6495 0 0.1885

mode liq bi g mu pl ilm ky q H2O
0 0.1885 0.06775 0.04592 0.2897 0.01296 0.01611 0.3404 0.03863

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 670.0 0.05289 0.1925 0.8945 0.0067960.0007471 0.6771
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7459 0.3625 0.2488 0.03764 0.09714 0.3120
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7594 0.1373 0.008738 0.3386 0.9409 0.2990
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2365 0.007106 0.7564 0.6508 0 0.1866

mode liq bi g mu pl ilm ky q H2O
0 0.1866 0.06955 0.04864 0.2883 0.01299 0.01533 0.3402 0.03843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.65 669.9 0.05248 0.1924 0.8959 0.0068000.0007427 0.6749
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7465 0.3594 0.2466 0.03773 0.09743 0.3130
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7576 0.1395 0.008952 0.3357 0.9418 0.3056
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2353 0.007036 0.7573 0.6521 0 0.1846

mode liq bi g mu pl ilm ky q H2O
0 0.1846 0.07135 0.05143 0.2868 0.01303 0.01453 0.3400 0.03821

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.70 669.7 0.05206 0.1922 0.8972 0.0068050.0007382 0.6727
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7471 0.3562 0.2445 0.03782 0.09771 0.3141
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7557 0.1417 0.009174 0.3328 0.9428 0.3129
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2341 0.006966 0.7581 0.6534 0 0.1827

mode liq bi g mu pl ilm ky q H2O
0 0.1827 0.07316 0.05429 0.2852 0.01306 0.01370 0.3399 0.03797

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.75 669.5 0.05166 0.1920 0.8986 0.0068090.0007337 0.6705
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7477 0.3531 0.2424 0.03792 0.09800 0.3150
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7539 0.1439 0.009404 0.3298 0.9440 0.3210
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2329 0.006896 0.7590 0.6547 0 0.1808

mode liq bi g mu pl ilm ky q H2O
0 0.1808 0.07497 0.05727 0.2835 0.01309 0.01283 0.3398 0.03771

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 669.3 0.05125 0.1918 0.9000 0.0068130.0007291 0.6682
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7483 0.3499 0.2403 0.03800 0.09829 0.3159
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7520 0.1462 0.009643 0.3268 0.9453 0.3301
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2318 0.006826 0.7599 0.6561 0 0.1789

mode liq bi g mu pl ilm ky q H2O
0 0.1789 0.07679 0.06039 0.2817 0.01313 0.01192 0.3397 0.03743

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.85 669.1 0.05085 0.1917 0.9013 0.0068190.0007245 0.6659
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7489 0.3468 0.2383 0.03809 0.09858 0.3168
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7501 0.1486 0.009894 0.3238 0.9469 0.3405
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2306 0.006755 0.7609 0.6575 0 0.1770

mode liq bi g mu pl ilm ky q H2O
0 0.1770 0.07863 0.06370 0.2798 0.01316 0.01095 0.3397 0.03711

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.90 669.0 0.05045 0.1915 0.9026 0.0068250.0007199 0.6636
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7495 0.3436 0.2362 0.03817 0.09889 0.3176
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7482 0.1511 0.01016 0.3208 0.9489 0.3527
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2296 0.006684 0.7618 0.6589 0 0.1752


```

mode   liq   bi    g    mu    pl   ilm   ky    q    H2O
0 0.1752 0.08048 0.06729 0.2776 0.01319 0.009887 0.3397 0.03675

```

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.95  668.8 0.05006 0.1913 0.9039 0.0068350 0.0007152 0.6612
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7501 0.3404 0.2342 0.03825 0.09920 0.3183
      x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
      0.7462 0.1537 0.01044 0.3178 0.9513 0.3677
      ca(pl) k(pl) x(ilm) Q(ilm) liq   bi
      0.2286 0.006612 0.7628 0.6603    0 0.1733

```

```

mode   liq   bi    g    mu    pl   ilm   ky    q    H2O
0 0.1733 0.08236 0.07130 0.2750 0.01321 0.008681 0.3398 0.03631

```

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00  668.7 0.04969 0.1911 0.9052 0.0068520 0.0007105 0.6588
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7507 0.3372 0.2323 0.03832 0.09954 0.3189
      x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
      0.7443 0.1565 0.01076 0.3147 0.9545 0.3873
      ca(pl) k(pl) x(ilm) Q(ilm) liq   bi
      0.2278 0.006540 0.7638 0.6618    0 0.1715

```

```

mode   liq   bi    g    mu    pl   ilm   ky    q    H2O
0 0.1715 0.08429 0.07606 0.2719 0.01324 0.007225 0.3401 0.03574

```

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.05  668.6 0.04934 0.1909 0.9062 0.0068880 0.0007053 0.6563
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7513 0.3339 0.2305 0.03840 0.09993 0.3193
      x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
      0.7423 0.1600 0.01115 0.3116 0.9594 0.4182
      ca(pl) k(pl) x(ilm) Q(ilm) liq   bi
      0.2277 0.006468 0.7650 0.6634    0 0.1697

```

```

mode   liq   bi    g    mu    pl   ilm   ky    q    H2O
0 0.1697 0.08631 0.08261 0.2674 0.01326 0.005167 0.3407 0.03487

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

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-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.64  672.2 0.06107 0.1962 0.8683 0.0064990 0.0008196 0.7173
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7338 0.4280 0.2948 0.03427 0.09406 0.2813

```

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7934 0.1008 0.005478 0.3971 0.9359 0.2305
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2517 0.008493 0.5560-0.0001690 0 0.2265

mode liq bi g mu pl ilm ru ky q H2O
0 0.2265 0.041100.0007877 0.3076 0.007783 0.002178 0.02804 0.3447 0.04137

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.66 672.2 0.06088 0.1961 0.8689 0.0065040.0008184 0.7165
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7341 0.4265 0.2937 0.03440 0.09409 0.2822
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7927 0.1014 0.005533 0.3958 0.9359 0.2315
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2513 0.008463 0.5548-0.0001725 0 0.2254

mode liq bi g mu pl ilm ru ky q H2O
0 0.2254 0.04205 0.001996 0.3072 0.007763 0.002201 0.02766 0.3445 0.04131

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.68 672.2 0.06070 0.1961 0.8695 0.0065100.0008171 0.7157
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7343 0.4250 0.2926 0.03454 0.09412 0.2830
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7920 0.1021 0.005590 0.3946 0.9360 0.2325
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2510 0.008433 0.5536-0.0001762 0 0.2243

mode liq bi g mu pl ilm ru ky q H2O
0 0.2243 0.04299 0.003198 0.3068 0.007743 0.002223 0.02728 0.3443 0.04124

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70 672.1 0.06052 0.1960 0.8701 0.0065150.0008158 0.7149
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7346 0.4236 0.2915 0.03467 0.09415 0.2839
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7913 0.1027 0.005646 0.3933 0.9360 0.2336
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2506 0.008404 0.5524-0.0001800 0 0.2232

mode liq bi g mu pl ilm ru ky q H2O
0 0.2232 0.04393 0.004395 0.3064 0.007723 0.002245 0.02690 0.3441 0.04118

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.72 672.1 0.06034 0.1959 0.8707 0.0065200.0008145 0.7141
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7349 0.4221 0.2904 0.03480 0.09418 0.2847
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7906 0.1033 0.005704 0.3921 0.9360 0.2346

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2503 0.008374 0.5512-0.0001841 0 0.2221

mode liq bi g mu pl ilm ru ky q H2O
0 0.2221 0.04487 0.005586 0.3059 0.007703 0.002267 0.02652 0.3439 0.04112

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.74 672.0 0.06015 0.1958 0.8713 0.0065250.0008132 0.7133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7351 0.4206 0.2893 0.03494 0.09420 0.2855
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7899 0.1039 0.005762 0.3908 0.9360 0.2357
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2499 0.008345 0.5500-0.0001884 0 0.2210

mode liq bi g mu pl ilm ru ky q H2O
0 0.2210 0.04580 0.006773 0.3055 0.007683 0.002289 0.02615 0.3437 0.04105

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.76 672.0 0.05997 0.1958 0.8719 0.0065300.0008119 0.7124
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7354 0.4192 0.2882 0.03507 0.09423 0.2863
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7892 0.1045 0.005821 0.3896 0.9361 0.2368
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2496 0.008315 0.5488-0.0001929 0 0.2200

mode liq bi g mu pl ilm ru ky q H2O
0 0.2200 0.04672 0.007955 0.3051 0.007664 0.002311 0.02578 0.3435 0.04099

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.78 671.9 0.05979 0.1957 0.8725 0.0065350.0008106 0.7116
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7356 0.4178 0.2871 0.03521 0.09426 0.2871
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7885 0.1051 0.005881 0.3883 0.9361 0.2379
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2492 0.008286 0.5476-0.0001976 0 0.2189

mode liq bi g mu pl ilm ru ky q H2O
0 0.2189 0.04765 0.009132 0.3047 0.007644 0.002333 0.02541 0.3433 0.04093

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 671.9 0.05961 0.1956 0.8731 0.0065390.0008092 0.7108
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7359 0.4163 0.2860 0.03534 0.09429 0.2879
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7878 0.1058 0.005941 0.3871 0.9361 0.2391
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2488 0.008256 0.5463-0.0002026 0 0.2179

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.2179	0.04856	0.01030	0.3043	0.007624	0.002355	0.02504	0.3431	0.04086	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.82	671.8	0.05943	0.1955	0.8737	0.0065440	0.0008079	0.7100
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7362	0.4149	0.2849	0.03547	0.09431	0.2887	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7871	0.1064	0.006003	0.3858	0.9362	0.2402	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2484	0.008227	0.5451-0.0002079	0	0.2168		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.2168	0.04948	0.01147	0.3038	0.007605	0.002376	0.02467	0.3429	0.04080	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.84	671.8	0.05925	0.1955	0.8743	0.0065480	0.0008065	0.7092
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7364	0.4134	0.2839	0.03560	0.09434	0.2895	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7864	0.1070	0.006065	0.3846	0.9362	0.2414	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2481	0.008198	0.5439-0.0002135	0	0.2158		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.2158	0.05039	0.01264	0.3034	0.007585	0.002398	0.02431	0.3427	0.04074	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.86	671.7	0.05907	0.1954	0.8749	0.0065530	0.0008051	0.7084
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7367	0.4120	0.2828	0.03573	0.09436	0.2903	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7857	0.1077	0.006127	0.3833	0.9363	0.2426	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2477	0.008169	0.5427-0.0002194	0	0.2147		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.2147	0.05129	0.01380	0.3030	0.007565	0.002419	0.02395	0.3426	0.04067	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.88	671.7	0.05889	0.1953	0.8755	0.0065570	0.0008038	0.7075
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7370	0.4106	0.2817	0.03587	0.09439	0.2910	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7850	0.1083	0.006191	0.3821	0.9363	0.2438	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2473	0.008139	0.5415-0.0002257	0	0.2137		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
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0 0.2137 0.05219 0.01496 0.3026 0.007546 0.002440 0.02359 0.3424 0.04061

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 671.6 0.05871 0.1952 0.8761 0.0065610.0008024 0.7067
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7372 0.4092 0.2807 0.03600 0.09441 0.2918
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7842 0.1090 0.006255 0.3809 0.9364 0.2450
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2469 0.008110 0.5403-0.0002324 0 0.2127

mode liq bi g mu pl ilm ru ky q H2O
0 0.2127 0.05309 0.01611 0.3021 0.007526 0.002461 0.02323 0.3422 0.04054

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.92 671.6 0.05853 0.1952 0.8767 0.0065650.0008010 0.7059
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7375 0.4078 0.2796 0.03613 0.09444 0.2926
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7835 0.1096 0.006321 0.3796 0.9364 0.2463
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2465 0.008081 0.5391-0.0002396 0 0.2117

mode liq bi g mu pl ilm ru ky q H2O
0 0.2117 0.05399 0.01726 0.3017 0.007507 0.002482 0.02287 0.3421 0.04048

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.94 671.5 0.05836 0.1951 0.8773 0.0065690.0007996 0.7051
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7377 0.4063 0.2786 0.03626 0.09446 0.2933
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7828 0.1103 0.006387 0.3784 0.9365 0.2476
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2461 0.008052 0.5379-0.0002472 0 0.2107

mode liq bi g mu pl ilm ru ky q H2O
0 0.2107 0.05488 0.01841 0.3012 0.007487 0.002503 0.02251 0.3419 0.04041

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.96 671.5 0.05818 0.1950 0.8778 0.0065730.0007981 0.7042
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7380 0.4049 0.2775 0.03639 0.09449 0.2940
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7821 0.1109 0.006453 0.3771 0.9366 0.2489
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2457 0.008023 0.5367-0.0002554 0 0.2097

mode liq bi g mu pl ilm ru ky q H2O
0 0.2097 0.05577 0.01955 0.3008 0.007468 0.002524 0.02216 0.3417 0.04034

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.98    671.4  0.05800  0.1950  0.8784  0.0065770.0007967  0.7034
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7383  0.4035  0.2765  0.03652  0.09451  0.2948
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7814  0.1116  0.006521  0.3759  0.9367  0.2502
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.2453  0.007994  0.5355-0.0002642    0  0.2087

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
0  0.2087  0.05665  0.02070  0.3003  0.007448  0.002545  0.02180  0.3416  0.04028

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.00    671.4  0.05782  0.1949  0.8790  0.0065800.0007952  0.7026
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7385  0.4021  0.2754  0.03665  0.09453  0.2955
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7807  0.1123  0.006590  0.3747  0.9367  0.2516
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.2449  0.007966  0.5343-0.0002737    0  0.2077

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
0  0.2077  0.05753  0.02184  0.2999  0.007429  0.002565  0.02145  0.3414  0.04021

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.02    671.3  0.05764  0.1948  0.8796  0.0065830.0007938  0.7017
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7388  0.4007  0.2744  0.03678  0.09455  0.2962
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7799  0.1129  0.006659  0.3734  0.9368  0.2529
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.2445  0.007937  0.5331-0.0002839    0  0.2067

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
0  0.2067  0.05841  0.02298  0.2994  0.007409  0.002586  0.02110  0.3412  0.04014

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```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.04    671.3  0.05747  0.1947  0.8802  0.0065870.0007923  0.7009
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7390  0.3994  0.2734  0.03690  0.09458  0.2969
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7792  0.1136  0.006729  0.3722  0.9369  0.2544
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.2441  0.007908  0.5318-0.0002950    0  0.2057

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
0  0.2057  0.05929  0.02411  0.2990  0.007390  0.002606  0.02075  0.3411  0.04008

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.06    671.2  0.05729  0.1947  0.8808  0.0065900.0007908  0.7000

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7393 0.3980 0.2724 0.03703 0.09460 0.2976
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7785 0.1143 0.006801 0.3710 0.9370 0.2558
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2437 0.007879 0.5306-0.0003070 0 0.2048

mode liq bi g mu pl ilm ru ky q H2O
 0 0.2048 0.06016 0.02525 0.2985 0.007370 0.002627 0.02040 0.3409 0.04001

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.08 671.1 0.05711 0.1946 0.8814 0.0065930.0007894 0.6992
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7396 0.3966 0.2713 0.03716 0.09462 0.2983
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7778 0.1150 0.006873 0.3697 0.9371 0.2573
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2432 0.007850 0.5294-0.0003202 0 0.2038

mode liq bi g mu pl ilm ru ky q H2O
 0 0.2038 0.06103 0.02639 0.2980 0.007351 0.002647 0.02005 0.3408 0.03994

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.10 671.1 0.05694 0.1945 0.8819 0.0065960.0007879 0.6984
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7398 0.3952 0.2703 0.03729 0.09464 0.2990
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7771 0.1157 0.006946 0.3685 0.9372 0.2587
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2428 0.007822 0.5282-0.0003346 0 0.2028

mode liq bi g mu pl ilm ru ky q H2O
 0 0.2028 0.06190 0.02752 0.2976 0.007331 0.002667 0.01970 0.3406 0.03987

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.12 671.0 0.05676 0.1945 0.8825 0.0065990.0007863 0.6975
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7401 0.3938 0.2693 0.03742 0.09466 0.2996
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7763 0.1164 0.007019 0.3673 0.9374 0.2603
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2424 0.007793 0.5270-0.0003504 0 0.2019

mode liq bi g mu pl ilm ru ky q H2O
 0 0.2019 0.06277 0.02866 0.2971 0.007312 0.002687 0.01935 0.3405 0.03980

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.14 671.0 0.05659 0.1944 0.8831 0.0066010.0007848 0.6967
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7403 0.3925 0.2683 0.03754 0.09468 0.3003

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7756 0.1171 0.007094 0.3660 0.9375 0.2618
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2419 0.007764 0.5258-0.0003679 0 0.2009

mode liq bi g mu pl ilm ru ky q H2O
0 0.2009 0.06363 0.02979 0.2966 0.007292 0.002707 0.01900 0.3403 0.03973

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.16 670.9 0.05641 0.1943 0.8837 0.0066040.0007833 0.6958
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7406 0.3911 0.2673 0.03767 0.09470 0.3010
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7749 0.1178 0.007170 0.3648 0.9376 0.2634
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2415 0.007736 0.5245-0.0003873 0 0.2000

mode liq bi g mu pl ilm ru ky q H2O
0 0.2000 0.06449 0.03092 0.2961 0.007273 0.002727 0.01866 0.3402 0.03965

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.18 670.8 0.05624 0.1942 0.8843 0.0066060.0007818 0.6950
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7408 0.3897 0.2663 0.03780 0.09472 0.3016
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7741 0.1185 0.007247 0.3636 0.9378 0.2651
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2410 0.007707 0.5233-0.0004090 0 0.1991

mode liq bi g mu pl ilm ru ky q H2O
0 0.1991 0.06535 0.03206 0.2956 0.007253 0.002747 0.01831 0.3400 0.03958

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 670.8 0.05606 0.1942 0.8849 0.0066090.0007802 0.6941
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7411 0.3883 0.2653 0.03792 0.09474 0.3022
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7734 0.1192 0.007324 0.3623 0.9379 0.2667
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2406 0.007679 0.5221-0.0004334 0 0.1981

mode liq bi g mu pl ilm ru ky q H2O
0 0.1981 0.06620 0.03319 0.2951 0.007234 0.002767 0.01796 0.3399 0.03951

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.22 670.7 0.05589 0.1941 0.8854 0.0066110.0007787 0.6932
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7413 0.3870 0.2643 0.03805 0.09476 0.3029
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7727 0.1199 0.007403 0.3611 0.9381 0.2684

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2401 0.007650 0.5209-0.0004610 0 0.1972

mode liq bi g mu pl ilm ru ky q H2O
0 0.1972 0.06706 0.03433 0.2946 0.007214 0.002787 0.01761 0.3398 0.03943

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.24 670.7 0.05571 0.1940 0.8860 0.0066130.0007771 0.6924
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7416 0.3856 0.2633 0.03817 0.09477 0.3035
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7719 0.1206 0.007483 0.3599 0.9383 0.2702
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2397 0.007622 0.5197-0.0004926 0 0.1963

mode liq bi g mu pl ilm ru ky q H2O
0 0.1963 0.06791 0.03547 0.2941 0.007195 0.002807 0.01727 0.3396 0.03936

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.26 670.6 0.05554 0.1940 0.8866 0.0066150.0007756 0.6915
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7419 0.3843 0.2623 0.03830 0.09479 0.3041
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7712 0.1214 0.007563 0.3587 0.9384 0.2720
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2392 0.007593 0.5184-0.0005291 0 0.1953

mode liq bi g mu pl ilm ru ky q H2O
0 0.1953 0.06876 0.03661 0.2936 0.007175 0.002826 0.01692 0.3395 0.03928

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.28 670.5 0.05537 0.1939 0.8872 0.0066170.0007740 0.6907
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7421 0.3829 0.2614 0.03842 0.09481 0.3047
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7705 0.1221 0.007645 0.3574 0.9386 0.2738
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2388 0.007565 0.5172-0.0005716 0 0.1944

mode liq bi g mu pl ilm ru ky q H2O
0 0.1944 0.06961 0.03775 0.2930 0.007156 0.002846 0.01657 0.3394 0.03921

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.30 670.5 0.05519 0.1938 0.8878 0.0066180.0007724 0.6898
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7424 0.3816 0.2604 0.03855 0.09482 0.3053
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7697 0.1228 0.007728 0.3562 0.9388 0.2757
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2383 0.007536 0.5160-0.0006218 0 0.1935

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1935	0.07046	0.03890	0.2925	0.007136	0.002865	0.01622	0.3393	0.03913	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.32	670.4	0.05502	0.1937	0.8883	0.0066200	0.0007708	0.6889
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7426	0.3802	0.2594	0.03867	0.09484	0.3059	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7690	0.1235	0.007812	0.3550	0.9390	0.2776	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2378	0.007508	0.5148-0.0006820	0	0.1926		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1926	0.07130	0.04005	0.2920	0.007117	0.002885	0.01588	0.3391	0.03905	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.34	670.3	0.05485	0.1937	0.8889	0.0066210	0.0007692	0.6880
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7429	0.3789	0.2584	0.03879	0.09486	0.3065	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7682	0.1243	0.007897	0.3537	0.9392	0.2796	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2373	0.007480	0.5135-0.0007556	0	0.1917		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1917	0.07215	0.04120	0.2914	0.007097	0.002904	0.01553	0.3390	0.03897	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.36	670.3	0.05467	0.1936	0.8895	0.0066230	0.0007676	0.6872
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7431	0.3775	0.2575	0.03892	0.09487	0.3071	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7675	0.1250	0.007983	0.3525	0.9395	0.2816	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2368	0.007451	0.5123-0.0008475	0	0.1908		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1908	0.07299	0.04236	0.2909	0.007077	0.002924	0.01518	0.3389	0.03889	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.38	670.2	0.05450	0.1935	0.8901	0.0066240	0.0007660	0.6863
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7434	0.3762	0.2565	0.03904	0.09489	0.3077	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7667	0.1258	0.008070	0.3513	0.9397	0.2837	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2364	0.007423	0.5111-0.0009657	0	0.1899		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
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0 0.1899 0.07383 0.04352 0.2903 0.007058 0.002943 0.01482 0.3388 0.03880

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 670.1 0.05433 0.1935 0.8907 0.0066250.0007644 0.6854
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7436 0.3749 0.2555 0.03916 0.09490 0.3082
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7660 0.1265 0.008158 0.3501 0.9400 0.2859
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2359 0.007394 0.5098-0.001123 0 0.1890

mode liq bi g mu pl ilm ru ky q H2O
0 0.1890 0.07468 0.04469 0.2897 0.007038 0.002962 0.01447 0.3387 0.03872

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.42 670.0 0.05416 0.1934 0.8912 0.0066260.0007628 0.6845
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7439 0.3735 0.2546 0.03928 0.09492 0.3088
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7652 0.1273 0.008248 0.3488 0.9402 0.2881
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2354 0.007366 0.5086-0.001343 0 0.1881

mode liq bi g mu pl ilm ru ky q H2O
0 0.1881 0.07552 0.04587 0.2891 0.007018 0.002981 0.01411 0.3386 0.03863

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.44 670.0 0.05399 0.1933 0.8918 0.0066270.0007611 0.6836
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7441 0.3722 0.2536 0.03940 0.09493 0.3093
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7644 0.1281 0.008338 0.3476 0.9405 0.2904
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2349 0.007338 0.5074-0.001673 0 0.1873

mode liq bi g mu pl ilm ru ky q H2O
0 0.1873 0.07636 0.04705 0.2886 0.006998 0.003000 0.01376 0.3385 0.03854

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.46 669.9 0.05382 0.1933 0.8924 0.0066270.0007595 0.6827
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7444 0.3709 0.2527 0.03953 0.09495 0.3099
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7637 0.1288 0.008430 0.3464 0.9408 0.2927
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2344 0.007309 0.5062-0.002221 0 0.1864

mode liq bi g mu pl ilm ru ky q H2O
0 0.1864 0.07720 0.04824 0.2880 0.006978 0.003019 0.01340 0.3384 0.03845

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.48    669.8  0.05365  0.1932  0.8930  0.0066280.0007578  0.6818
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7446  0.3695  0.2518  0.03965  0.09496  0.3104
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.7629  0.1296  0.008523  0.3451  0.9411  0.2952
        ca(pl) k(pl)  x(ilm)  Q(ilm)  liq    bi
        0.2339  0.007281  0.5049-0.003311    0  0.1855

mode     liq    bi    g    mu    pl    ilm    ru    ky    q    H2O
        0  0.1855  0.07803  0.04944  0.2873  0.006959  0.003038  0.01304  0.3383  0.03836

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.50    669.8  0.05348  0.1931  0.8935  0.0066280.0007562  0.6809
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7449  0.3682  0.2508  0.03977  0.09497  0.3109
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.7622  0.1304  0.008618  0.3439  0.9414  0.2977
        ca(pl) k(pl)  x(ilm)  Q(ilm)  liq    bi
        0.2334  0.007252  0.5037-0.006535    0  0.1846

mode     liq    bi    g    mu    pl    ilm    ru    ky    q    H2O
        0  0.1846  0.07887  0.05065  0.2867  0.006939  0.003057  0.01267  0.3382  0.03827

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.54    669.6  0.05314  0.1930  0.8947  0.0066290.0007529  0.6791
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7454  0.3656  0.2489  0.04001  0.09500  0.3119
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.7606  0.1320  0.008810  0.3415  0.9421  0.3030
        ca(pl) k(pl)  x(ilm)  Q(ilm)  liq    bi
        0.2324  0.007195  0.5012  0.006755    0  0.1829

mode     liq    bi    g    mu    pl    ilm    ru    ky    q    H2O
        0  0.1829  0.08055  0.05310  0.2854  0.006899  0.003095  0.01193  0.3380  0.03807

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.56    669.5  0.05297  0.1929  0.8952  0.0066290.0007512  0.6782
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7456  0.3643  0.2480  0.04013  0.09501  0.3124
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.7598  0.1328  0.008909  0.3402  0.9425  0.3058
        ca(pl) k(pl)  x(ilm)  Q(ilm)  liq    bi
        0.2319  0.007167  0.5000  0.003329    0  0.1820

mode     liq    bi    g    mu    pl    ilm    ru    ky    q    H2O
        0  0.1820  0.08139  0.05435  0.2848  0.006878  0.003114  0.01155  0.3379  0.03797

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.58    669.5  0.05280  0.1928  0.8958  0.0066300.0007495  0.6773

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7459 0.3629 0.2471 0.04025 0.09502 0.3129
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7591 0.1336 0.009009 0.3390 0.9429 0.3087
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2313 0.007138 0.4987 0.002206 0 0.1812

mode liq bi g mu pl ilm ru ky q H2O
0 0.1812 0.08223 0.05561 0.2841 0.006858 0.003133 0.01117 0.3379 0.03787

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 669.4 0.05263 0.1928 0.8964 0.0066300.0007479 0.6764
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7461 0.3616 0.2462 0.04037 0.09504 0.3134
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7583 0.1344 0.009110 0.3377 0.9433 0.3117
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2308 0.007110 0.4975 0.001647 0 0.1803

mode liq bi g mu pl ilm ru ky q H2O
0 0.1803 0.08307 0.05689 0.2834 0.006837 0.003151 0.01079 0.3378 0.03776

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.62 669.3 0.05247 0.1927 0.8969 0.0066300.0007462 0.6755
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7464 0.3603 0.2452 0.04049 0.09505 0.3139
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7575 0.1352 0.009213 0.3365 0.9438 0.3149
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2303 0.007081 0.4962 0.001313 0 0.1795

mode liq bi g mu pl ilm ru ky q H2O
0 0.1795 0.08391 0.05819 0.2827 0.006817 0.003170 0.01039 0.3377 0.03765

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.64 669.2 0.05230 0.1926 0.8975 0.0066300.0007445 0.6745
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7466 0.3590 0.2443 0.04060 0.09506 0.3143
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7567 0.1360 0.009318 0.3353 0.9443 0.3182
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2298 0.007053 0.4950 0.001090 0 0.1786

mode liq bi g mu pl ilm ru ky q H2O
0 0.1786 0.08475 0.05950 0.2820 0.006796 0.003189 0.009995 0.3377 0.03753

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.66 669.1 0.05213 0.1926 0.8981 0.0066300.0007428 0.6736
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7469 0.3577 0.2434 0.04072 0.09507 0.3148

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7559	0.1368	0.009424	0.3340	0.9448	0.3216
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2293	0.007024	0.49370	0.0009305	0	0.1778

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1778	0.08559	0.06084	0.2812	0.006775	0.003207	0.009589	0.3376	0.03741	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.68	669.1	0.05197	0.1925	0.8986	0.0066300	0.0007411	0.6727
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7471	0.3563	0.2425	0.04084	0.09508	0.3152	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7551	0.1377	0.009532	0.3328	0.9453	0.3252	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2288	0.006995	0.49250	0.0008112	0	0.1769	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1769	0.08643	0.06221	0.2804	0.006754	0.003226	0.009175	0.3376	0.03729	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.70	669.0	0.05180	0.1924	0.8992	0.0066310	0.0007394	0.6717
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7473	0.3550	0.2416	0.04096	0.09509	0.3157	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7543	0.1385	0.009643	0.3315	0.9459	0.3290	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2283	0.006966	0.49120	0.0007185	0	0.1761	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1761	0.08728	0.06360	0.2796	0.006733	0.003245	0.008751	0.3375	0.03716	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.72	668.9	0.05164	0.1924	0.8998	0.0066310	0.0007377	0.6708
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7476	0.3537	0.2407	0.04108	0.09511	0.3161	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7535	0.1394	0.009755	0.3303	0.9465	0.3330	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2278	0.006938	0.49000	0.0006443	0	0.1752	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1752	0.08813	0.06503	0.2788	0.006712	0.003263	0.008316	0.3375	0.03703	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.74	668.8	0.05147	0.1923	0.9003	0.0066320	0.0007360	0.6698
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7478	0.3524	0.2398	0.04120	0.09512	0.3165	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7527	0.1402	0.009869	0.3291	0.9471	0.3373	

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2273 0.006909 0.48870.0005835 0 0.1744

mode liq bi g mu pl ilm ru ky q H2O
0 0.1744 0.08898 0.06650 0.2779 0.006691 0.003282 0.007868 0.3375 0.03689

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.76 668.8 0.05131 0.1922 0.9009 0.0066320.0007343 0.6689
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7481 0.3511 0.2389 0.04132 0.09513 0.3169
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7519 0.1411 0.009986 0.3278 0.9478 0.3418
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2268 0.006880 0.48750.0005329 0 0.1736

mode liq bi g mu pl ilm ru ky q H2O
0 0.1736 0.08983 0.06801 0.2770 0.006669 0.003300 0.007407 0.3374 0.03674

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.78 668.7 0.05115 0.1921 0.9014 0.0066330.0007326 0.6679
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7483 0.3497 0.2380 0.04143 0.09514 0.3173
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7510 0.1420 0.01011 0.3265 0.9486 0.3466
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2263 0.006851 0.48620.0004900 0 0.1727

mode liq bi g mu pl ilm ru ky q H2O
0 0.1727 0.09069 0.06957 0.2761 0.006647 0.003319 0.006928 0.3374 0.03658

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 668.6 0.05099 0.1921 0.9020 0.0066340.0007309 0.6669
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7486 0.3484 0.2371 0.04155 0.09515 0.3177
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7502 0.1429 0.01023 0.3253 0.9494 0.3518
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2258 0.006822 0.48490.0004532 0 0.1719

mode liq bi g mu pl ilm ru ky q H2O
0 0.1719 0.09155 0.07118 0.2751 0.006625 0.003338 0.006430 0.3374 0.03641

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.82 668.5 0.05083 0.1920 0.9025 0.0066360.0007292 0.6659
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7488 0.3471 0.2362 0.04167 0.09517 0.3180
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7494 0.1439 0.01036 0.3240 0.9503 0.3574
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2254 0.006792 0.48360.0004212 0 0.1711

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1711	0.09242	0.07287	0.2741	0.006603	0.003356	0.005908	0.3375	0.03623	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
11.84	668.5	0.05067	0.1919	0.9030	0.0066390	0.0007274	0.6650			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7490	0.3457	0.2354	0.04179	0.09518	0.3184				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7486	0.1448	0.01049	0.3227	0.9512	0.3635				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2249	0.006763	0.48240	0.003932	0	0.1702				

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1702	0.09329	0.07465	0.2730	0.006580	0.003375	0.005357	0.3375	0.03603	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
11.86	668.4	0.05051	0.1919	0.9036	0.0066420	0.0007257	0.6640			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7493	0.3444	0.2345	0.04191	0.09520	0.3187				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7477	0.1458	0.01062	0.3215	0.9523	0.3702				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2245	0.006733	0.48110	0.003684	0	0.1694				

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1694	0.09417	0.07653	0.2718	0.006556	0.003393	0.004771	0.3375	0.03582	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
11.88	668.4	0.05036	0.1918	0.9041	0.0066460	0.0007239	0.6630			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7495	0.3431	0.2336	0.04203	0.09522	0.3191				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7469	0.1469	0.01076	0.3202	0.9535	0.3778				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2242	0.006704	0.47980	0.003462	0	0.1686				

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
0	0.1686	0.09506	0.07855	0.2705	0.006532	0.003412	0.004139	0.3376	0.03558	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
11.90	668.3	0.05020	0.1917	0.9046	0.0066530	0.0007221	0.6620			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7497	0.3417	0.2328	0.04216	0.09524	0.3194				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7460	0.1479	0.01091	0.3189	0.9549	0.3864				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2239	0.006674	0.47850	0.003262	0	0.1678				

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
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0 0.1678 0.09596 0.08075 0.2691 0.006507 0.003431 0.003447 0.3378 0.03532

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.92 668.3 0.05006 0.1916 0.9050 0.0066610.0007203 0.6609
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7500 0.3404 0.2320 0.04228 0.09526 0.3196
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7452 0.1491 0.01108 0.3176 0.9565 0.3964
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2237 0.006645 0.47720.0003081 0 0.1670

mode liq bi g mu pl ilm ru ky q H2O
0 0.1670 0.09688 0.08320 0.2674 0.006481 0.003449 0.002668 0.3379 0.03501

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.94 668.2 0.04991 0.1915 0.9055 0.0066740.0007184 0.6599
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7502 0.3390 0.2311 0.04241 0.09530 0.3199
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7443 0.1504 0.01125 0.3163 0.9585 0.4088
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2236 0.006615 0.47580.0002915 0 0.1662

mode liq bi g mu pl ilm ru ky q H2O
0 0.1662 0.09781 0.08606 0.2655 0.006453 0.003468 0.001756 0.3382 0.03462

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.96 668.2 0.04979 0.1914 0.9058 0.0066960.0007163 0.6589
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7504 0.3376 0.2304 0.04255 0.09534 0.3201
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7435 0.1520 0.01147 0.3150 0.9611 0.4256
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2238 0.006586 0.47440.0002759 0 0.1654

mode liq bi g mu pl ilm ru ky q H2O
0 0.1654 0.09878 0.08968 0.2630 0.006421 0.0034870.0005899 0.3386 0.03411

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.97 656.0 0.3804 0.2537 0.03672 0.09028 0.3165 0.7751
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1278 0.007312 0.3501 0.9656 0.4124 0.2479
k(pl) x(ilm) Q(ilm)

0.006106 0.7564 0.6569

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1986	0.05809	0.04236	0.2897	0.01307		0	0.01719	0.3431 0.03784

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.04 660.0 0.3824 0.2569 0.03673 0.09151 0.3127 0.7747
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1259 0.007281 0.3533 0.9533 0.3399 0.2458
k(pl) x(ilm) Q(ilm)
0.006507 0.7547 0.6528

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1996	0.05729	0.03615	0.2936	0.01297		0	0.01915	0.3424 0.03878

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.11 664.0 0.3842 0.2601 0.03675 0.09275 0.3090 0.7741
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1244 0.007287 0.3562 0.9461 0.3039 0.2451
k(pl) x(ilm) Q(ilm)
0.006903 0.7530 0.6487

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2006	0.05663	0.03284	0.2956	0.01288		0	0.02009	0.3422 0.03924

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.17 668.0 0.3858 0.2632 0.03677 0.09400 0.3053 0.7734
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1230 0.007297 0.3589 0.9406 0.2784 0.2448
k(pl) x(ilm) Q(ilm)
0.007306 0.7514 0.6446

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2014	0.05608	0.03039	0.2970	0.01278		0	0.02072	0.3421 0.03957

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.23 672.0 0.3872 0.2663 0.03680 0.09525 0.3016 0.7726
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1217 0.007309 0.3614 0.9359 0.2584 0.2447
k(pl) x(ilm) Q(ilm)
0.007720 0.7497 0.6405

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2022	0.05562	0.02838	0.2981	0.01269		0	0.02118	0.3421 0.03983

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.29 676.0 0.3885 0.2693 0.03684 0.09651 0.2981 0.7717
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1203 0.007320 0.3638 0.9318 0.2419 0.2446
k(pl) x(ilm) Q(ilm)

0.008148 0.7481 0.6362

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2029	0.05522	0.02667	0.2990	0.01259		0	0.02154	0.3421 0.04006

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.35 680.0 0.3897 0.2722 0.03687 0.09776 0.2946 0.7707
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1189 0.007332 0.3661 0.9282 0.2278 0.2446
k(pl) x(ilm) Q(ilm)
0.008590 0.7464 0.6319

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2035	0.05488	0.02516	0.2998	0.01250		0	0.02182	0.3421 0.04025

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 684.0 0.3908 0.2750 0.03691 0.09902 0.2912 0.7696
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1175 0.007345 0.3683 0.9249 0.2156 0.2446
k(pl) x(ilm) Q(ilm)
0.009049 0.7447 0.6276

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2041	0.05459	0.02380	0.3005	0.01241		0	0.02205	0.3421 0.04043

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.46 688.0 0.3918 0.2778 0.03695 0.1003 0.2878 0.7685
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1162 0.007358 0.3704 0.9219 0.2048 0.2447
k(pl) x(ilm) Q(ilm)
0.009525 0.7430 0.6231

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2046	0.05435	0.02256	0.3012	0.01232		0	0.02223	0.3421 0.04060

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.51 692.0 0.3928 0.2806 0.03700 0.1016 0.2845 0.7674
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1148 0.007372 0.3725 0.9191 0.1951 0.2447
k(pl) x(ilm) Q(ilm)
0.01002 0.7413 0.6186

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2051	0.05414	0.02142	0.3018	0.01223		0	0.02238	0.3422 0.04075

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.57 696.0 0.3937 0.2832 0.03704 0.1028 0.2813 0.7662
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1135 0.007387 0.3744 0.9165 0.1864 0.2448
k(pl) x(ilm) Q(ilm)

0.01053 0.7395 0.6140

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2055	0.05397	0.02035	0.3024	0.01214		0	0.02251	0.3422 0.04089

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.62 700.0 0.3945 0.2858 0.03709 0.1041 0.2781 0.7650
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1122 0.007403 0.3763 0.9141 0.1785 0.2448
k(pl) x(ilm) Q(ilm)
0.01106 0.7378 0.6093

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2060	0.05383	0.01935	0.3029	0.01205		0	0.02261	0.3422 0.04103

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.68 704.0 0.3952 0.2884 0.03713 0.1054 0.2750 0.7638
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1109 0.007420 0.3782 0.9118 0.1712 0.2449
k(pl) x(ilm) Q(ilm)
0.01162 0.7360 0.6045

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2063	0.05373	0.01840	0.3034	0.01197		0	0.02269	0.3423 0.04117

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.73 708.0 0.3960 0.2909 0.03718 0.1066 0.2720 0.7625
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1096 0.007439 0.3799 0.9097 0.1645 0.2449
k(pl) x(ilm) Q(ilm)
0.01219 0.7342 0.5996

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2067	0.05365	0.01750	0.3039	0.01188		0	0.02276	0.3423 0.04130

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.79 712.0 0.3966 0.2934 0.03723 0.1079 0.2690 0.7612
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1083 0.007460 0.3817 0.9076 0.1583 0.2450
k(pl) x(ilm) Q(ilm)
0.01279 0.7324 0.5946

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2070	0.05360	0.01664	0.3044	0.01179		0	0.02281	0.3423 0.04143

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.84 716.0 0.3973 0.2958 0.03728 0.1092 0.2660 0.7599
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1071 0.007482 0.3834 0.9057 0.1525 0.2450
k(pl) x(ilm) Q(ilm)

0.01342 0.7305 0.5896

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2073	0.05357	0.01581	0.3049	0.01171		0	0.02285	0.3423 0.04155

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.89 720.0 0.3978 0.2981 0.03733 0.1105 0.2631 0.7586
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1059 0.007505 0.3850 0.9039 0.1472 0.2450
k(pl) x(ilm) Q(ilm)
0.01406 0.7287 0.5844

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2075	0.05357	0.01502	0.3053	0.01162		0	0.02288	0.3424 0.04168

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.95 724.0 0.3984 0.3004 0.03738 0.1117 0.2603 0.7572
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1047 0.007530 0.3866 0.9021 0.1421 0.2450
k(pl) x(ilm) Q(ilm)
0.01474 0.7268 0.5791

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2078	0.05360	0.01425	0.3058	0.01154		0	0.02291	0.3424 0.04180

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 728.0 0.3989 0.3027 0.03743 0.1130 0.2575 0.7559
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1035 0.007557 0.3881 0.9004 0.1374 0.2449
k(pl) x(ilm) Q(ilm)
0.01544 0.7249 0.5738

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2080	0.05364	0.01350	0.3062	0.01145		0	0.02292	0.3424 0.04192

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.05 732.0 0.3993 0.3049 0.03748 0.1143 0.2548 0.7545
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1024 0.007586 0.3897 0.8988 0.1330 0.2449
k(pl) x(ilm) Q(ilm)
0.01616 0.7230 0.5683

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2082	0.05371	0.01277	0.3066	0.01137		0	0.02293	0.3424 0.04204

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.11 736.0 0.3998 0.3071 0.03753 0.1156 0.2521 0.7531
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1013 0.007616 0.3911 0.8973 0.1288 0.2449
k(pl) x(ilm) Q(ilm)

0.01692 0.7210 0.5627

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2083	0.05380	0.01206	0.3070	0.01129		0	0.02294	0.3424 0.04217

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.16 740.0 0.4002 0.3092 0.03758 0.1168 0.2494 0.7518
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1002 0.007648 0.3926 0.8958 0.1249 0.2448
k(pl) x(ilm) Q(ilm)
0.01771 0.7191 0.5570

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2085	0.05391	0.01137	0.3075	0.01120		0	0.02294	0.3424 0.04229

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.21 744.0 0.4006 0.3112 0.03764 0.1181 0.2468 0.7504
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09909 0.007682 0.3940 0.8943 0.1212 0.2447
k(pl) x(ilm) Q(ilm)
0.01853 0.7171 0.5511

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2086	0.05404	0.01069	0.3079	0.01112		0	0.02294	0.3424 0.04241

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.27 748.0 0.4009 0.3133 0.03769 0.1194 0.2443 0.7490
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09805 0.007718 0.3953 0.8929 0.1176 0.2446
k(pl) x(ilm) Q(ilm)
0.01939 0.7151 0.5452

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2087	0.05418	0.01001	0.3083	0.01104		0	0.02294	0.3423 0.04254

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.32 752.0 0.4012 0.3153 0.03774 0.1207 0.2418 0.7475
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09702 0.007755 0.3967 0.8916 0.1142 0.2445
k(pl) x(ilm) Q(ilm)
0.02027 0.7131 0.5391

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2087	0.05435	0.009345	0.3087	0.01096		0	0.02293	0.3423 0.04267

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.37 756.0 0.4015 0.3172 0.03780 0.1220 0.2393 0.7461
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09602 0.007794 0.3980 0.8903 0.1111 0.2444
k(pl) x(ilm) Q(ilm)

0.02120 0.7111 0.5329

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2088	0.05453	0.008684	0.3091	0.01088			0	0.02292 0.3423 0.04279

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.43 760.0 0.4018 0.3191 0.03785 0.1232 0.2369 0.7447
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09505 0.007835 0.3993 0.8891 0.1080 0.2442
k(pl) x(ilm) Q(ilm)
0.02217 0.7090 0.5266

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2088	0.05473	0.008026	0.3096	0.01080			0	0.02292 0.3422 0.04292

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.48 764.0 0.4020 0.3210 0.03791 0.1245 0.2345 0.7433
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09410 0.007878 0.4005 0.8879 0.1051 0.2440
k(pl) x(ilm) Q(ilm)
0.02317 0.7070 0.5202

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2088	0.05494	0.007370	0.3100	0.01072			0	0.02291 0.3422 0.04306

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.53 768.0 0.4022 0.3229 0.03796 0.1258 0.2322 0.7418
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09317 0.007922 0.4017 0.8867 0.1023 0.2439
k(pl) x(ilm) Q(ilm)
0.02422 0.7049 0.5136

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2088	0.05517	0.006712	0.3105	0.01065			0	0.02291 0.3421 0.04319

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.58 772.0 0.4024 0.3247 0.03802 0.1271 0.2299 0.7404
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09226 0.007968 0.4029 0.8855 0.09966 0.2437
k(pl) x(ilm) Q(ilm)
0.02531 0.7028 0.5068

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2087	0.05542	0.006051	0.3109	0.01057			0	0.02290 0.3421 0.04333

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.64 776.0 0.4025 0.3264 0.03807 0.1284 0.2276 0.7390
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09138 0.008016 0.4041 0.8844 0.09712 0.2434
k(pl) x(ilm) Q(ilm)

0.02645 0.7007 0.4999

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2087	0.05568	0.005385	0.3114	0.01049			0	0.02290 0.3420 0.04347

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.69 780.0 0.4027 0.3282 0.03813 0.1296 0.2254 0.7375
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09052 0.008066 0.4052 0.8833 0.09468 0.2432
k(pl) x(ilm) Q(ilm)
0.02764 0.6986 0.4929

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2086	0.05596	0.004712	0.3118	0.01042			0	0.02290 0.3419 0.04361

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.74 784.0 0.4028 0.3298 0.03818 0.1309 0.2232 0.7361
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08968 0.008117 0.4064 0.8823 0.09234 0.2429
k(pl) x(ilm) Q(ilm)
0.02888 0.6964 0.4857

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2085	0.05625	0.004029	0.3123	0.01034			0	0.02291 0.3418 0.04376

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 788.0 0.4029 0.3315 0.03824 0.1322 0.2210 0.7346
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08887 0.008170 0.4074 0.8813 0.09009 0.2426
k(pl) x(ilm) Q(ilm)
0.03018 0.6943 0.4783

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2084	0.05655	0.003334	0.3128	0.01027			0	0.02292 0.3418 0.04391

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.85 792.0 0.4030 0.3331 0.03829 0.1335 0.2189 0.7332
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08808 0.008225 0.4085 0.8803 0.08793 0.2423
k(pl) x(ilm) Q(ilm)
0.03153 0.6921 0.4707

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2083	0.05687	0.002624	0.3133	0.01019			0	0.02293 0.3417 0.04407

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.90 796.0 0.4030 0.3347 0.03835 0.1348 0.2168 0.7317
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08731 0.008281 0.4096 0.8793 0.08585 0.2420
k(pl) x(ilm) Q(ilm)

0.03294 0.6899 0.4630

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2082	0.05720	0.001897	0.3139	0.01012			0	0.02295 0.3415 0.04423

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.96	800.0	0.4031	0.3363	0.03840	0.1360	0.2147	0.7302
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.08656	0.008340	0.4106	0.8784	0.08385	0.2417
		k(pl)	x(ilm)	Q(ilm)			
		0.03442	0.6878	0.4550			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2080	0.05755	0.001150	0.3144	0.01005			0	0.02298 0.3414 0.04440

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.01	804.0	0.4031	0.3378	0.03846	0.1373	0.2127	0.7288
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.08584	0.008400	0.4116	0.8775	0.08191	0.2413
		k(pl)	x(ilm)	Q(ilm)			
		0.03597	0.6856	0.4469			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2079	0.057910	0.0003788	0.3150	0.009977			0	0.02301 0.3413 0.04457

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.16	674.3	0.05788	0.1931	0.8731	0.0074470	0.0007853	0.6958
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7394	0.3901	0.2724	0.03683	0.09610	0.2968
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7759	0.1331	0.008304	0.3645	0.9304	0.2285
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.2712	0.007649	0.7489	0.6383	0.1009	0.2048

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.1009	0.2048	0.05431	0.01407	0.2598	0.01253			0	0.02561 0.3279 0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.17    674.2  0.05774  0.1930  0.8736  0.0074420.0007840  0.6952
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7396  0.3891  0.2717  0.03698  0.09610  0.2972
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7754  0.1336  0.008381  0.3637  0.9304  0.2296
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.2706  0.007631  0.7460  -0.6341  0.1007  0.2041

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0.1007  0.2041  0.05519  0.01499  0.2594  0.01239  7.905e-5  0.02531  0.3278  0

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.20    674.1  0.05745  0.1929  0.8747  0.0074330.0007812  0.6939
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7400  0.3871  0.2700  0.03730  0.09611  0.2983
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7744  0.1347  0.008543  0.3618  0.9306  0.2318
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.2694  0.007593  0.7401  -0.6255  0.1003  0.2024

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0.1003  0.2024  0.05701  0.01692  0.2587  0.012100.0002367  0.02467  0.3276  0

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.23    673.9  0.05715  0.1929  0.8758  0.0074230.0007783  0.6926
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7404  0.3850  0.2684  0.03762  0.09611  0.2992
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7733  0.1358  0.008706  0.3600  0.9308  0.2341
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.2682  0.007556  0.7338  -0.6165  0.09991  0.2008

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0.09991  0.2008  0.05882  0.01885  0.2579  0.011820.0003931  0.02404  0.3274  0

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.26    673.8  0.05686  0.1928  0.8769  0.0074120.0007755  0.6913
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7408  0.3830  0.2668  0.03792  0.09611  0.3002
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7722  0.1369  0.008871  0.3581  0.9310  0.2365
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.2669  0.007518  0.7273  -0.6069  0.09949  0.1992

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0.09949  0.1992  0.06063  0.02078  0.2572  0.011540.0005486  0.02341  0.3272  0

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

```

11.29 673.6 0.05657 0.1927 0.8780 0.0074020.0007727 0.6900
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7412 0.3809 0.2652 0.03822 0.09612 0.3012
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7711 0.1380 0.009036 0.3563 0.9313 0.2390
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2657 0.007480 0.7206 0.5970 0.09907 0.1977

mode liq bi g mu pl ilm ru ky q H2O
0.09907 0.1977 0.06241 0.02270 0.2564 0.011270.0006997 0.02278 0.3270 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.32 673.5 0.05628 0.1926 0.8791 0.0073900.0007699 0.6887
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7416 0.3789 0.2636 0.03852 0.09612 0.3021
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7700 0.1391 0.009202 0.3544 0.9315 0.2415
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2644 0.007443 0.7133 0.5860 0.09865 0.1961

mode liq bi g mu pl ilm ru ky q H2O
0.09865 0.1961 0.06421 0.02464 0.2556 0.010990.0008547 0.02215 0.3268 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.35 672.8 0.05580 0.1927 0.8816 0.0072620.0007668 0.6875
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7422 0.3771 0.2612 0.03927 0.09591 0.3035
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7689 0.1380 0.009278 0.3528 0.9328 0.2489
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2592 0.007415 0.5112-0.001148 0.09757 0.1913

mode liq bi g mu pl ilm ru ky q H2O
0.09757 0.1913 0.07379 0.03041 0.2527 0.006961 0.002918 0.01920 0.3252 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.38 672.7 0.05552 0.1926 0.8826 0.0072560.0007641 0.6862
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7426 0.3751 0.2598 0.03945 0.09592 0.3044
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7677 0.1392 0.009426 0.3509 0.9330 0.2515
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2581 0.007376 0.5093-0.001532 0.09717 0.1899

mode liq bi g mu pl ilm ru ky q H2O
0.09717 0.1899 0.07508 0.03214 0.2520 0.006929 0.002948 0.01871 0.3251 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.41 672.6 0.05525 0.1925 0.8836 0.0072500.0007614 0.6848
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7430 0.3731 0.2583 0.03964 0.09593 0.3053
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7666 0.1403 0.009577 0.3491 0.9333 0.2542
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2571 0.007337 0.5074-0.002310 0.09676 0.1886

mode liq bi g mu pl ilm ru ky q H2O
 0.09676 0.1886 0.07636 0.03388 0.2513 0.006897 0.002978 0.01821 0.3251 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.44 672.4 0.05497 0.1925 0.8846 0.0072430.0007586 0.6835
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7433 0.3711 0.2568 0.03982 0.09594 0.3061
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7655 0.1415 0.009730 0.3472 0.9336 0.2570
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2560 0.007298 0.5056-0.004731 0.09635 0.1872

mode liq bi g mu pl ilm ru ky q H2O
 0.09635 0.1872 0.07765 0.03562 0.2506 0.006866 0.003007 0.01772 0.3250 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.50 672.1 0.05442 0.1923 0.8866 0.0072280.0007531 0.6808
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7441 0.3671 0.2539 0.04019 0.09596 0.3078
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7632 0.1438 0.01004 0.3435 0.9343 0.2629
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2538 0.007220 0.5019 0.004223 0.09551 0.1846

mode liq bi g mu pl ilm ru ky q H2O
 0.09551 0.1846 0.08020 0.03912 0.2491 0.006802 0.003066 0.01672 0.3249 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.53 672.0 0.05415 0.1922 0.8876 0.0072200.0007503 0.6794
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7445 0.3651 0.2525 0.04037 0.09597 0.3086
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7621 0.1450 0.01020 0.3417 0.9346 0.2660
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2527 0.007181 0.5000 0.002157 0.09508 0.1833

mode liq bi g mu pl ilm ru ky q H2O
 0.09508 0.1833 0.08147 0.04089 0.2483 0.006770 0.003095 0.01622 0.3248 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.56 671.8 0.05388 0.1921 0.8886 0.0072120.0007475 0.6780
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7449 0.3632 0.2510 0.04055 0.09597 0.3094
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7609 0.1462 0.01037 0.3398 0.9350 0.2692
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2516 0.007141 0.4981 0.001445 0.09464 0.1820

mode liq bi g mu pl ilm ru ky q H2O
0.09464 0.1820 0.08275 0.04267 0.2475 0.006738 0.003124 0.01571 0.3248 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.59 671.7 0.05360 0.1920 0.8896 0.0072030.0007447 0.6767
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7453 0.3612 0.2496 0.04073 0.09598 0.3101
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7598 0.1474 0.01053 0.3380 0.9355 0.2727
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2504 0.007102 0.4962 0.001085 0.09420 0.1807

mode liq bi g mu pl ilm ru ky q H2O
0.09420 0.1807 0.08402 0.04447 0.2468 0.006706 0.003153 0.01520 0.3248 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.62 671.5 0.05333 0.1919 0.8906 0.0071940.0007420 0.6753
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7457 0.3592 0.2482 0.04090 0.09598 0.3109
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7586 0.1486 0.01070 0.3361 0.9359 0.2762
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2493 0.007063 0.49440.0008668 0.09375 0.1794

mode liq bi g mu pl ilm ru ky q H2O
0.09375 0.1794 0.08528 0.04629 0.2459 0.006673 0.003182 0.01469 0.3248 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.65 671.4 0.05306 0.1918 0.8916 0.0071840.0007392 0.6739
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7460 0.3573 0.2468 0.04108 0.09598 0.3116
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7574 0.1498 0.01087 0.3343 0.9364 0.2800
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2481 0.007023 0.49250.0007208 0.09329 0.1782

mode liq bi g mu pl ilm ru ky q H2O
0.09329 0.1782 0.08655 0.04812 0.2451 0.006641 0.003210 0.01416 0.3247 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.68 671.2 0.05279 0.1918 0.8926 0.0071740.0007364 0.6725
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7464 0.3553 0.2453 0.04126 0.09599 0.3123
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7562 0.1510 0.01104 0.3324 0.9370 0.2839
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2470 0.006983 0.49060.0006163 0.09282 0.1769

mode liq bi g mu pl ilm ru ky q H2O
0.09282 0.1769 0.08782 0.04998 0.2443 0.006608 0.003239 0.01364 0.3247 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.71 671.0 0.05252 0.1917 0.8936 0.0071630.0007336 0.6711
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7468 0.3534 0.2439 0.04143 0.09599 0.3130
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7551 0.1522 0.01122 0.3306 0.9375 0.2881
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2458 0.006944 0.48870.0005376 0.09233 0.1756

mode liq bi g mu pl ilm ru ky q H2O
0.09233 0.1756 0.08909 0.05187 0.2434 0.006576 0.003267 0.01310 0.3247 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.74 670.9 0.05225 0.1916 0.8946 0.0071520.0007308 0.6697
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7472 0.3514 0.2425 0.04160 0.09599 0.3137
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7539 0.1534 0.01140 0.3287 0.9382 0.2924
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2446 0.006904 0.48690.0004769 0.09183 0.1744

mode liq bi g mu pl ilm ru ky q H2O
0.09183 0.1744 0.09036 0.05379 0.2425 0.006543 0.003296 0.01255 0.3247 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.77 670.7 0.05199 0.1915 0.8956 0.0071410.0007280 0.6682
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7476 0.3495 0.2412 0.04178 0.09599 0.3143
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7527 0.1547 0.01158 0.3268 0.9389 0.2971
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2434 0.006863 0.48500.0004273 0.09132 0.1731

mode liq bi g mu pl ilm ru ky q H2O
0.09132 0.1731 0.09163 0.05575 0.2416 0.006509 0.003324 0.01199 0.3248 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 670.5 0.05172 0.1914 0.8965 0.0071300.0007252 0.6668
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7480 0.3475 0.2398 0.04195 0.09598 0.3150
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7515 0.1559 0.01176 0.3250 0.9396 0.3021
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2422 0.006823 0.48310.0003870 0.09079 0.1719

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.09079	0.1719	0.09290	0.05775	0.2406	0.006476	0.003352	0.01141	0.3248		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
11.83	670.4	0.05145	0.1913	0.8975	0.0071180	0.0007224	0.6654				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7483	0.3456	0.2384	0.04212	0.09598	0.3156					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7502	0.1571	0.01195	0.3231	0.9404	0.3074					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2410	0.006783	0.48120	0.003534	0.09024	0.1707					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.09024	0.1707	0.09417	0.05980	0.2396	0.006442	0.003380	0.01082	0.3249		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
11.86	670.2	0.05119	0.1912	0.8985	0.0071060	0.0007196	0.6639				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7487	0.3436	0.2370	0.04229	0.09598	0.3162					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7490	0.1584	0.01214	0.3213	0.9413	0.3131					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2398	0.006742	0.47930	0.003249	0.08966	0.1694					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.08966	0.1694	0.09545	0.06192	0.2386	0.006409	0.003409	0.01021	0.3249		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
11.89	670.0	0.05092	0.1912	0.8995	0.0070940	0.0007168	0.6624				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7491	0.3417	0.2357	0.04246	0.09597	0.3167					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7477	0.1596	0.01234	0.3194	0.9423	0.3192					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2386	0.006701	0.47740	0.003004	0.08905	0.1682					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.08905	0.1682	0.09674	0.06411	0.2375	0.006374	0.003437	0.009571	0.3250		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
11.92	669.9	0.05066	0.1911	0.9004	0.0070830	0.0007140	0.6610				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7495	0.3397	0.2343	0.04263	0.09597	0.3173					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7465	0.1609	0.01254	0.3175	0.9434	0.3259					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2375	0.006660	0.47550	0.002791	0.08841	0.1670					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.08841	0.1670	0.09803	0.06640	0.2364	0.006340	0.003465	0.008902	0.3251		0

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.95    669.7  0.05040  0.1910  0.9014  0.0070710.0007113  0.6595
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7498  0.3378  0.2330  0.04280  0.09597  0.3178
          x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
          0.7452  0.1622  0.01274  0.3156  0.9446  0.3333
          ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
          0.2363  0.006618  0.47360.0002601  0.08773  0.1658

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0.08773  0.1658  0.09933  0.06880  0.2351  0.006304  0.003493  0.008195  0.3253  0

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.98    669.5  0.05014  0.1909  0.9024  0.0070600.0007085  0.6580
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7502  0.3358  0.2316  0.04297  0.09596  0.3183
          x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
          0.7439  0.1635  0.01295  0.3137  0.9460  0.3416
          ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
          0.2351  0.006577  0.47170.0002440  0.08698  0.1645

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0.08698  0.1645  0.1006  0.07134  0.2339  0.006268  0.003521  0.007439  0.3254  0

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.01    669.4  0.04989  0.1908  0.9033  0.0070500.0007057  0.6564
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7506  0.3339  0.2303  0.04314  0.09596  0.3188
          x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
          0.7426  0.1649  0.01317  0.3118  0.9475  0.3510
          ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
          0.2340  0.006534  0.46980.0002293  0.08617  0.1633

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0.08617  0.1633  0.1020  0.07407  0.2324  0.006232  0.003549  0.006618  0.3256  0

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.04    669.2  0.04964  0.1907  0.9042  0.0070420.0007029  0.6549
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7510  0.3319  0.2290  0.04331  0.09597  0.3192
          x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
          0.7413  0.1663  0.01341  0.3099  0.9493  0.3618
          ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
          0.2329  0.006492  0.46790.0002160  0.08525  0.1621

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0.08525  0.1621  0.1033  0.07707  0.2309  0.006194  0.003577  0.005708  0.3259  0

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)

```


12.07 669.1 0.04939 0.1906 0.9051 0.0070360.0007001 0.6533
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7513 0.3299 0.2277 0.04348 0.09597 0.3196
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7400 0.1679 0.01365 0.3079 0.9516 0.3750
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2320 0.006449 0.46590.0002039 0.08418 0.1609

mode liq bi g mu pl ilm ru ky q H2O
 0.08418 0.1609 0.1047 0.08046 0.2291 0.006154 0.003605 0.004664 0.3263 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.10 669.0 0.04915 0.1905 0.9060 0.0070360.0006973 0.6517
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7517 0.3279 0.2264 0.04366 0.09599 0.3200
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7386 0.1696 0.01393 0.3060 0.9544 0.3920
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2312 0.006405 0.46390.0001928 0.08285 0.1597

mode liq bi g mu pl ilm ru ky q H2O
 0.08285 0.1597 0.1061 0.08454 0.2269 0.006111 0.003634 0.003392 0.3268 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.13 668.9 0.04893 0.1904 0.9067 0.0070500.0006941 0.6500
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7520 0.3258 0.2252 0.04386 0.09603 0.3202
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7373 0.1717 0.01428 0.3040 0.9587 0.4180
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2308 0.006362 0.46190.0001822 0.08088 0.1585

mode liq bi g mu pl ilm ru ky q H2O
 0.08088 0.1585 0.1076 0.09023 0.2238 0.006060 0.003663 0.001582 0.3277 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.90 675.1 0.06025 0.1939 0.8647 0.0074210.0008076 0.7062
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7361 0.4074 0.2849 0.03614 0.09467 0.2884
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7845 0.1233 0.007409 0.3798 0.9299 0.2145
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2778 0.007982 0.7441 0.6309 0.1039 0.2164

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.1039	0.2164	0.044350	0.0004879	0.2643	0.01231	0.02944	0.3288		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
10.93	675.0	0.05997	0.1938	0.8657	0.0074250	0.0008051	0.7050	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7365	0.4053	0.2834	0.03622	0.09484	0.2894		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7835	0.1245	0.007508	0.3780	0.9300	0.2160		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2771	0.007943	0.7447	0.6318	0.1035	0.2150		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.1035	0.2150	0.04554	0.002110	0.2638	0.01233	0.02898	0.3287		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
10.96	674.9	0.05969	0.1937	0.8667	0.0074290	0.0008025	0.7038	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7369	0.4033	0.2819	0.03631	0.09500	0.2904		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7825	0.1256	0.007608	0.3762	0.9300	0.2175		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2763	0.007903	0.7453	0.6327	0.1032	0.2136		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.1032	0.2136	0.04672	0.003723	0.2633	0.01236	0.02852	0.3286		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
10.99	674.8	0.05941	0.1936	0.8677	0.0074330	0.0008000	0.7025	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7373	0.4012	0.2805	0.03639	0.09517	0.2915		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7815	0.1267	0.007710	0.3744	0.9300	0.2191		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2756	0.007864	0.7458	0.6335	0.1028	0.2123		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.1028	0.2123	0.04790	0.005328	0.2627	0.01239	0.02807	0.3285		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
11.02	674.7	0.05913	0.1935	0.8687	0.0074360	0.0007974	0.7013	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7377	0.3992	0.2790	0.03647	0.09534	0.2925		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7805	0.1279	0.007813	0.3726	0.9301	0.2207		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2748	0.007825	0.7464	0.6344	0.1025	0.2109		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
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0.1025 0.2109 0.04908 0.006924 0.2622 0.01241 0.02762 0.3284 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.05 674.6 0.05885 0.1934 0.8697 0.0074390.0007947 0.7001
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7381 0.3972 0.2775 0.03655 0.09551 0.2934
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7795 0.1290 0.007918 0.3708 0.9301 0.2224
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2740 0.007786 0.7470 0.6352 0.1022 0.2095

mode liq bi g mu pl ilm ky q H2O
0.1022 0.2095 0.05024 0.008514 0.2617 0.01244 0.02717 0.3283 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.08 674.6 0.05858 0.1933 0.8706 0.0074420.0007921 0.6989
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7384 0.3952 0.2761 0.03663 0.09568 0.2944
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7785 0.1302 0.008025 0.3690 0.9302 0.2240
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2732 0.007747 0.7475 0.6361 0.1018 0.2082

mode liq bi g mu pl ilm ky q H2O
0.1018 0.2082 0.05140 0.01010 0.2612 0.01247 0.02672 0.3281 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.11 674.5 0.05830 0.1932 0.8716 0.0074440.0007894 0.6977
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7388 0.3932 0.2746 0.03671 0.09584 0.2953
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7775 0.1313 0.008134 0.3673 0.9302 0.2258
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2724 0.007708 0.7481 0.6370 0.1015 0.2068

mode liq bi g mu pl ilm ky q H2O
0.1015 0.2068 0.05256 0.01167 0.2606 0.01249 0.02628 0.3280 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.14 674.3 0.05802 0.1931 0.8726 0.0074460.0007867 0.6964
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7392 0.3912 0.2732 0.03679 0.09601 0.2963
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7765 0.1325 0.008245 0.3655 0.9303 0.2276
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2716 0.007669 0.7486 0.6378 0.1011 0.2055

mode liq bi g mu pl ilm ky q H2O
0.1011 0.2055 0.05371 0.01324 0.2601 0.01252 0.02584 0.3280 0

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.17    674.2  0.05775  0.1930  0.8736  0.0074470.0007840  0.6952
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7396  0.3892  0.2718  0.03686  0.09618  0.2972
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.7755  0.1337  0.008357  0.3637  0.9304  0.2294
        ca(pl) k(pl)  x(ilm) Q(ilm)  liq   bi
        0.2708  0.007631  0.7492  0.6387  0.1008  0.2042

mode     liq   bi    g    mu    pl    ilm    ky    q    H2O
        0.1008  0.2042  0.05485  0.01481  0.2595  0.01254  0.02541  0.3279    0

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.20    674.1  0.05747  0.1929  0.8745  0.0074480.0007813  0.6940
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7400  0.3872  0.2704  0.03694  0.09634  0.2981
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.7744  0.1349  0.008471  0.3619  0.9305  0.2313
        ca(pl) k(pl)  x(ilm) Q(ilm)  liq   bi
        0.2699  0.007592  0.7498  0.6395  0.1004  0.2029

mode     liq   bi    g    mu    pl    ilm    ky    q    H2O
        0.1004  0.2029  0.05599  0.01637  0.2590  0.01257  0.02497  0.3278    0

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.23    674.0  0.05720  0.1928  0.8755  0.0074490.0007785  0.6927
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7404  0.3852  0.2689  0.03701  0.09651  0.2990
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.7734  0.1361  0.008587  0.3601  0.9306  0.2332
        ca(pl) k(pl)  x(ilm) Q(ilm)  liq   bi
        0.2690  0.007553  0.7503  0.6404  0.1001  0.2016

mode     liq   bi    g    mu    pl    ilm    ky    q    H2O
        0.1001  0.2016  0.05712  0.01793  0.2584  0.01259  0.02454  0.3277    0

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.26    673.9  0.05692  0.1927  0.8765  0.0074490.0007757  0.6915
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7408  0.3833  0.2675  0.03708  0.09667  0.2999
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.7724  0.1373  0.008705  0.3584  0.9308  0.2352
        ca(pl) k(pl)  x(ilm) Q(ilm)  liq   bi
        0.2682  0.007515  0.7509  0.6412  0.09973  0.2004

mode     liq   bi    g    mu    pl    ilm    ky    q    H2O
        0.09973  0.2004  0.05826  0.01948  0.2578  0.01262  0.02412  0.3276    0

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.29    673.8  0.05665  0.1926  0.8774  0.0074490.0007729  0.6902

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7412 0.3813 0.2661 0.03715 0.09684 0.3007
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7714 0.1385 0.008824 0.3566 0.9309 0.2372
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2673 0.007476 0.7514 0.6421 0.09938 0.1991

mode liq bi g mu pl ilm ky q H2O
0.09938 0.1991 0.05938 0.02104 0.2573 0.01264 0.02369 0.3275 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.32 673.7 0.05638 0.1925 0.8784 0.0074480.0007701 0.6890
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7416 0.3793 0.2648 0.03722 0.09700 0.3015
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7703 0.1398 0.008946 0.3548 0.9311 0.2393
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2664 0.007437 0.7520 0.6429 0.09902 0.1978

mode liq bi g mu pl ilm ky q H2O
0.09902 0.1978 0.06050 0.02259 0.2567 0.01266 0.02326 0.3275 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.35 673.6 0.05610 0.1924 0.8794 0.0074470.0007673 0.6877
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7419 0.3774 0.2634 0.03729 0.09717 0.3024
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7693 0.1410 0.009069 0.3530 0.9312 0.2415
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2655 0.007399 0.7526 0.6438 0.09867 0.1966

mode liq bi g mu pl ilm ky q H2O
0.09867 0.1966 0.06162 0.02414 0.2561 0.01269 0.02284 0.3274 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.38 673.4 0.05583 0.1924 0.8803 0.0074460.0007644 0.6865
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7423 0.3755 0.2620 0.03735 0.09733 0.3032
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7683 0.1422 0.009194 0.3513 0.9314 0.2437
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2646 0.007360 0.7531 0.6446 0.09831 0.1953

mode liq bi g mu pl ilm ky q H2O
0.09831 0.1953 0.06274 0.02569 0.2555 0.01271 0.02242 0.3273 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.41 673.3 0.05556 0.1923 0.8813 0.0074440.0007616 0.6852
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7427 0.3735 0.2606 0.03742 0.09749 0.3040

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7672	0.1435	0.009321	0.3495	0.9316	0.2460
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2636	0.007322	0.7537	0.6455	0.09795	0.1941

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.09795	0.1941	0.06385	0.02724	0.2549	0.01273	0.02199	0.3273		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.44	673.2	0.05529	0.1922	0.8823	0.0074410	0.0007587	0.6839
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7431	0.3716	0.2593	0.03748	0.09766	0.3047	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7662	0.1448	0.009450	0.3477	0.9318	0.2484	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2627	0.007283	0.7543	0.6464	0.09759	0.1929	

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.09759	0.1929	0.06496	0.02879	0.2542	0.01275	0.02157	0.3272		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.47	673.1	0.05502	0.1921	0.8832	0.0074390	0.0007558	0.6826
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7435	0.3697	0.2579	0.03754	0.09782	0.3055	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7651	0.1460	0.009581	0.3459	0.9321	0.2509	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2617	0.007245	0.7548	0.6472	0.09722	0.1917	

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.09722	0.1917	0.06606	0.03035	0.2536	0.01278	0.02115	0.3272		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.50	672.9	0.05475	0.1920	0.8842	0.0074350	0.0007529	0.6813
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7439	0.3678	0.2566	0.03761	0.09798	0.3062	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7641	0.1473	0.009713	0.3442	0.9323	0.2535	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2608	0.007206	0.7554	0.6481	0.09685	0.1905	

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.09685	0.1905	0.06716	0.03191	0.2529	0.01280	0.02073	0.3271		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.53	672.8	0.05448	0.1919	0.8852	0.0074320	0.0007500	0.6800
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7442	0.3659	0.2552	0.03767	0.09814	0.3070	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7630	0.1486	0.009848	0.3424	0.9326	0.2561	

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2598 0.007168 0.7560 0.6490 0.09648 0.1893

mode liq bi g mu pl ilm ky q H2O
0.09648 0.1893 0.06826 0.03347 0.2523 0.01282 0.02031 0.3271 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.56 672.7 0.05421 0.1918 0.8861 0.0074270.0007470 0.6787
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7446 0.3640 0.2539 0.03772 0.09830 0.3077
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7620 0.1499 0.009984 0.3406 0.9329 0.2589
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2588 0.007129 0.7566 0.6498 0.09610 0.1881

mode liq bi g mu pl ilm ky q H2O
0.09610 0.1881 0.06936 0.03504 0.2516 0.01284 0.01988 0.3270 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.59 672.5 0.05394 0.1917 0.8871 0.0074230.0007441 0.6774
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7450 0.3621 0.2526 0.03778 0.09847 0.3084
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7609 0.1512 0.01012 0.3389 0.9332 0.2617
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2578 0.007091 0.7571 0.6507 0.09572 0.1869

mode liq bi g mu pl ilm ky q H2O
0.09572 0.1869 0.07046 0.03662 0.2509 0.01286 0.01946 0.3270 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.62 672.4 0.05368 0.1916 0.8881 0.0074180.0007411 0.6761
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7454 0.3602 0.2513 0.03784 0.09863 0.3090
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7598 0.1525 0.01026 0.3371 0.9336 0.2647
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2567 0.007052 0.7577 0.6516 0.09533 0.1858

mode liq bi g mu pl ilm ky q H2O
0.09533 0.1858 0.07155 0.03821 0.2502 0.01288 0.01903 0.3270 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.65 672.3 0.05341 0.1915 0.8890 0.0074120.0007382 0.6748
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7458 0.3583 0.2499 0.03789 0.09879 0.3097
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7588 0.1538 0.01040 0.3353 0.9340 0.2678
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2557 0.007014 0.7583 0.6525 0.09494 0.1846

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.09494	0.1846	0.07265	0.03980	0.2495	0.01290	0.01860	0.3270		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
11.68	672.1	0.05314	0.1914	0.8900	0.0074060	0.0007352	0.6735	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7461	0.3564	0.2486	0.03794	0.09895	0.3104		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7577	0.1551	0.01055	0.3336	0.9344	0.2710		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2547	0.006975	0.7589	0.6534	0.09454	0.1834		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.09454	0.1834	0.07374	0.04142	0.2488	0.01292	0.01817	0.3270		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
11.71	672.0	0.05288	0.1913	0.8909	0.0074000	0.0007322	0.6721	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7465	0.3545	0.2473	0.03800	0.09911	0.3110		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7566	0.1564	0.01069	0.3318	0.9348	0.2744		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2536	0.006936	0.7595	0.6543	0.09413	0.1823		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.09413	0.1823	0.07483	0.04304	0.2481	0.01294	0.01773	0.3269		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
11.74	671.8	0.05261	0.1913	0.8919	0.0073930	0.0007292	0.6708	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7469	0.3526	0.2460	0.03805	0.09927	0.3116		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7555	0.1577	0.01084	0.3300	0.9353	0.2780		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2525	0.006897	0.7601	0.6552	0.09372	0.1812		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.09372	0.1812	0.07593	0.04468	0.2473	0.01296	0.01729	0.3270		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
11.77	671.7	0.05235	0.1912	0.8928	0.0073860	0.0007262	0.6695	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7473	0.3508	0.2447	0.03809	0.09943	0.3122		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7544	0.1591	0.01099	0.3283	0.9358	0.2817		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2515	0.006858	0.7607	0.6561	0.09330	0.1800		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
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0.09330 0.1800 0.07702 0.04635 0.2465 0.01298 0.01684 0.3270 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 671.5 0.05209 0.1911 0.8938 0.0073790.0007232 0.6681
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7477 0.3489 0.2435 0.03814 0.09959 0.3128
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7533 0.1604 0.01114 0.3265 0.9363 0.2856
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2504 0.006819 0.7613 0.6570 0.09286 0.1789

mode liq bi g mu pl ilm ky q H2O
0.09286 0.1789 0.07811 0.04803 0.2457 0.01300 0.01639 0.3270 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.83 671.4 0.05182 0.1910 0.8947 0.0073710.0007203 0.6667
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7480 0.3470 0.2422 0.03819 0.09975 0.3133
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7522 0.1618 0.01130 0.3247 0.9369 0.2897
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2493 0.006780 0.7619 0.6579 0.09242 0.1778

mode liq bi g mu pl ilm ky q H2O
0.09242 0.1778 0.07920 0.04974 0.2449 0.01302 0.01593 0.3270 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.86 671.2 0.05156 0.1909 0.8957 0.0073630.0007173 0.6654
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7484 0.3452 0.2409 0.03823 0.09991 0.3139
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7510 0.1631 0.01145 0.3230 0.9376 0.2941
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2482 0.006741 0.7625 0.6589 0.09196 0.1767

mode liq bi g mu pl ilm ky q H2O
0.09196 0.1767 0.08030 0.05149 0.2441 0.01304 0.01545 0.3270 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.89 671.0 0.05130 0.1908 0.8966 0.0073540.0007143 0.6640
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7488 0.3433 0.2396 0.03828 0.1001 0.3144
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7499 0.1645 0.01161 0.3212 0.9383 0.2987
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2471 0.006702 0.7631 0.6598 0.09149 0.1755

mode liq bi g mu pl ilm ky q H2O
0.09149 0.1755 0.08139 0.05327 0.2432 0.01306 0.01497 0.3271 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.92  670.9 0.05104 0.1907 0.8976 0.0073450.0007113 0.6626
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7492 0.3415 0.2384 0.03832 0.1002 0.3149
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7488 0.1659 0.01177 0.3194 0.9390 0.3037
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2460 0.006662 0.7637 0.6608 0.09100 0.1744

mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0.09100 0.1744 0.08249 0.05509 0.2423 0.01308 0.01447 0.3271 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.95  670.7 0.05078 0.1906 0.8985 0.0073370.0007083 0.6612
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7495 0.3396 0.2371 0.03836 0.1004 0.3154
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7476 0.1672 0.01194 0.3176 0.9398 0.3090
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2448 0.006622 0.7644 0.6617 0.09049 0.1733

mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0.09049 0.1733 0.08359 0.05696 0.2414 0.01309 0.01396 0.3272 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.98  670.6 0.05053 0.1905 0.8995 0.0073280.0007053 0.6598
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7499 0.3377 0.2359 0.03840 0.1006 0.3159
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7465 0.1686 0.01210 0.3158 0.9407 0.3146
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2437 0.006583 0.7650 0.6627 0.08996 0.1722

mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0.08996 0.1722 0.08470 0.05889 0.2404 0.01311 0.01343 0.3273 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.01  670.4 0.05027 0.1905 0.9004 0.0073180.0007023 0.6583
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7503 0.3359 0.2346 0.03843 0.1007 0.3163
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7453 0.1700 0.01227 0.3140 0.9417 0.3208
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2426 0.006542 0.7657 0.6637 0.08940 0.1711

mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0.08940 0.1711 0.08581 0.06089 0.2394 0.01313 0.01287 0.3274 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.04  670.2 0.05001 0.1904 0.9013 0.0073100.0006993 0.6569

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7506 0.3340 0.2334 0.03847 0.1009 0.3168
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7441 0.1715 0.01244 0.3122 0.9428 0.3275
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2415 0.006502 0.7663 0.6646 0.08880 0.1700

mode liq bi g mu pl ilm ky q H2O
0.08880 0.1700 0.08692 0.06297 0.2383 0.01315 0.01228 0.3275 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.07 670.1 0.04976 0.1903 0.9023 0.0073010.0006963 0.6555
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7510 0.3321 0.2322 0.03850 0.1011 0.3172
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7429 0.1729 0.01262 0.3104 0.9441 0.3350
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2404 0.006461 0.7670 0.6656 0.08817 0.1689

mode liq bi g mu pl ilm ky q H2O
0.08817 0.1689 0.08805 0.06517 0.2372 0.01316 0.01166 0.3277 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 669.9 0.04951 0.1902 0.9032 0.0072930.0006933 0.6540
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7514 0.3303 0.2309 0.03854 0.1012 0.3175
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7417 0.1744 0.01280 0.3086 0.9455 0.3432
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2394 0.006420 0.7677 0.6666 0.08748 0.1679

mode liq bi g mu pl ilm ky q H2O
0.08748 0.1679 0.08919 0.06750 0.2359 0.01318 0.01100 0.3279 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.13 669.8 0.04926 0.1901 0.9041 0.0072860.0006904 0.6525
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7517 0.3284 0.2297 0.03857 0.1014 0.3179
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7404 0.1759 0.01299 0.3068 0.9471 0.3527
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2383 0.006379 0.7684 0.6677 0.08673 0.1668

mode liq bi g mu pl ilm ky q H2O
0.08673 0.1668 0.09033 0.07001 0.2346 0.01319 0.01027 0.3281 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.16 669.6 0.04901 0.1900 0.9050 0.0072810.0006874 0.6510
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7521 0.3265 0.2285 0.03860 0.1016 0.3182

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7392 0.1775 0.01319 0.3049 0.9490 0.3637
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2373 0.006337 0.7691 0.6687 0.08587 0.1657

mode liq bi g mu pl ilm ky q H2O
 0.08587 0.1657 0.09150 0.07278 0.2331 0.01321 0.009451 0.3284 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.19 669.5 0.04877 0.1899 0.9059 0.0072780.0006843 0.6495
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7525 0.3246 0.2273 0.03863 0.1018 0.3185
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7379 0.1792 0.01340 0.3031 0.9513 0.3771
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2365 0.006295 0.7698 0.6698 0.08486 0.1646

mode liq bi g mu pl ilm ky q H2O
 0.08486 0.1646 0.09269 0.07594 0.2314 0.01322 0.008503 0.3287 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.22 669.4 0.04854 0.1898 0.9067 0.0072820.0006812 0.6479
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7528 0.3226 0.2262 0.03866 0.1020 0.3187
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7367 0.1811 0.01364 0.3012 0.9543 0.3948
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2358 0.006253 0.7706 0.6710 0.08359 0.1635

mode liq bi g mu pl ilm ky q H2O
 0.08359 0.1635 0.09393 0.07980 0.2293 0.01323 0.007321 0.3293 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.25 669.3 0.04834 0.1897 0.9073 0.0073040.0006777 0.6463
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7531 0.3206 0.2251 0.03869 0.1022 0.3188
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7354 0.1835 0.01396 0.2993 0.9591 0.4238
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2356 0.006212 0.7715 0.6722 0.08159 0.1625

mode liq bi g mu pl ilm ky q H2O
 0.08159 0.1625 0.09525 0.08551 0.2261 0.01324 0.005518 0.3303 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.84 656.0 0.05616 0.1821 0.8943 0.0065740.0006630 0.6814
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7533 0.3808 0.2572 0.03680 0.08948 0.3146
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7769 0.1370 0.008035 0.3500 0.9654 0.4071
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2717 0.005642 0.7580 0.6591 0.09133 0.1994

mode liq bi g mu pl ilm ru ky q
0.09133 0.1994 0.05794 0.03147 0.2560 0.01307 0 0.02074 0.3301

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 659.0 0.05633 0.1840 0.8910 0.0066920.0006809 0.6842
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7511 0.3828 0.2598 0.03679 0.09055 0.3116
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7771 0.1362 0.008068 0.3529 0.9543 0.3400
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2705 0.005964 0.7565 0.6557 0.09379 0.2005

mode liq bi g mu pl ilm ru ky q
0.09379 0.2005 0.05708 0.02605 0.2579 0.01297 0 0.02246 0.3293

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.96 662.0 0.05658 0.1858 0.8876 0.0068300.0006996 0.6868
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7488 0.3845 0.2624 0.03678 0.09162 0.3086
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7771 0.1357 0.008117 0.3555 0.9476 0.3053
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2703 0.006280 0.7550 0.6524 0.09546 0.2015

mode liq bi g mu pl ilm ru ky q
0.09546 0.2015 0.05637 0.02279 0.2587 0.01289 0 0.02341 0.3289

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.01 665.0 0.05687 0.1876 0.8841 0.0069740.0007192 0.6892
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7466 0.3861 0.2650 0.03679 0.09270 0.3056
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7770 0.1351 0.008166 0.3579 0.9424 0.2803
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2703 0.006600 0.7536 0.6490 0.09691 0.2024

mode liq bi g mu pl ilm ru ky q
0.09691 0.2024 0.05577 0.02022 0.2592 0.01280 0 0.02411 0.3286

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.06 668.0 0.05718 0.1894 0.8806 0.0071220.0007397 0.6914
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7443 0.3875 0.2674 0.03680 0.09379 0.3027
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7767 0.1345 0.008212 0.3601 0.9380 0.2605
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2705 0.006928 0.7521 0.6456 0.09826 0.2033

mode liq bi g mu pl ilm ru ky q
 0.09826 0.2033 0.05524 0.01801 0.2595 0.01271 0 0.02468 0.3283

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.10 671.0 0.05750 0.1911 0.8770 0.0072750.0007610 0.6936
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7420 0.3888 0.2699 0.03681 0.09489 0.2998
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7764 0.1339 0.008257 0.3623 0.9341 0.2440
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2708 0.007266 0.7506 0.6421 0.09955 0.2040

mode liq bi g mu pl ilm ru ky q
 0.09955 0.2040 0.05477 0.01604 0.2597 0.01262 0 0.02516 0.3281

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.15 674.0 0.05784 0.1929 0.8734 0.0074310.0007831 0.6956
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7397 0.3900 0.2722 0.03682 0.09599 0.2970
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7760 0.1332 0.008300 0.3643 0.9307 0.2298
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2711 0.007614 0.7491 0.6386 0.1008 0.2048

mode liq bi g mu pl ilm ru ky q
 0.1008 0.2048 0.05435 0.01424 0.2598 0.01254 0 0.02558 0.3279

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.20 677.0 0.05820 0.1947 0.8698 0.0075910.0008060 0.6976
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7373 0.3911 0.2745 0.03684 0.09710 0.2943
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7755 0.1325 0.008341 0.3663 0.9275 0.2174
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2715 0.007974 0.7476 0.6350 0.1021 0.2054

mode liq bi g mu pl ilm ru ky q
 0.1021 0.2054 0.05397 0.01255 0.2598 0.01245 0 0.02595 0.3277

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.24 680.0 0.05856 0.1964 0.8661 0.0077550.0008297 0.6995
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7349 0.3922 0.2768 0.03686 0.09821 0.2916
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7750 0.1318 0.008383 0.3682 0.9247 0.2063
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2718 0.008347 0.7460 0.6314 0.1033 0.2061

mode liq bi g mu pl ilm ru ky q
 0.1033 0.2061 0.05364 0.01096 0.2598 0.01237 0 0.02629 0.3275

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.29 683.0 0.05893 0.1982 0.8623 0.0079230.0008541 0.7013
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7326 0.3932 0.2790 0.03688 0.09934 0.2889
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7744 0.1311 0.008424 0.3700 0.9220 0.1964
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2722 0.008734 0.7444 0.6277 0.1046 0.2067

mode liq bi g mu pl ilm ru ky q
 0.1046 0.2067 0.05334 0.009428 0.2598 0.01228 0 0.02660 0.3273

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.33 686.0 0.05932 0.2000 0.8584 0.0080940.0008794 0.7031
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7301 0.3941 0.2811 0.03691 0.1005 0.2862
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7738 0.1304 0.008464 0.3718 0.9195 0.1873
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2725 0.009135 0.7428 0.6239 0.1058 0.2072

mode liq bi g mu pl ilm ru ky q
 0.1058 0.2072 0.05307 0.007952 0.2597 0.01220 0 0.02689 0.3271

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.38 689.0 0.05972 0.2018 0.8545 0.0082700.0009055 0.7048
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7277 0.3949 0.2832 0.03693 0.1016 0.2837
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7732 0.1297 0.008505 0.3735 0.9172 0.1791
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2729 0.009552 0.7412 0.6200 0.1071 0.2078

mode liq bi g mu pl ilm ru ky q
 0.1071 0.2078 0.05283 0.006517 0.2596 0.01212 0 0.02716 0.3269

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.42 692.0 0.06013 0.2036 0.8505 0.0084490.0009323 0.7064
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7253 0.3958 0.2853 0.03696 0.1028 0.2811
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7725 0.1290 0.008547 0.3751 0.9150 0.1714
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2732 0.009985 0.7396 0.6161 0.1084 0.2083

mode liq bi g mu pl ilm ru ky q
0.1084 0.2083 0.05262 0.005112 0.2594 0.01203 0 0.02743 0.3267

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.47 695.0 0.06054 0.2054 0.8464 0.0086330.0009600 0.7080
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7228 0.3965 0.2873 0.03699 0.1039 0.2786
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7718 0.1283 0.008588 0.3767 0.9129 0.1644
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2735 0.01044 0.7379 0.6120 0.1097 0.2088

mode liq bi g mu pl ilm ru ky q
0.1097 0.2088 0.05243 0.003730 0.2593 0.01195 0 0.02768 0.3265

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.51 698.0 0.06097 0.2072 0.8422 0.0088210.0009885 0.7096
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7203 0.3973 0.2893 0.03702 0.1051 0.2761
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7711 0.1276 0.008631 0.3783 0.9109 0.1578
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2739 0.01090 0.7362 0.6079 0.1110 0.2092

mode liq bi g mu pl ilm ru ky q
0.1110 0.2092 0.05227 0.002364 0.2591 0.01186 0 0.02792 0.3263

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.56 701.0 0.06141 0.2090 0.8379 0.009013 0.001018 0.7111
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7178 0.3979 0.2913 0.03705 0.1062 0.2737
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7704 0.1269 0.008674 0.3798 0.9090 0.1516
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2742 0.01139 0.7344 0.6037 0.1123 0.2096

mode liq bi g mu pl ilm ru ky q
0.1123 0.2096 0.05213 0.001006 0.2589 0.01178 0 0.02816 0.3260

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.59    703.2  0.06174  0.2104  0.8346  0.009159  0.001040  0.7123
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7159  0.3984  0.2927  0.03707  0.1071  0.2719
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7698  0.1264  0.008707  0.3809  0.9076  0.1473
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.2744  0.01177  0.7331  0.6005  0.1134  0.2099

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1134  0.2099  0.05204  0  0.2588  0.01172  0  0.02834  0.3258
calcs use:

```

```

composition (from script)
  H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, mu, pl, ilm, ru, ky, q

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.79    657.4  0.05805  0.1787  0.8749  0.0075230  0.0006230  0.6909
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7538  0.3948  0.2701  0.03643  0.08991  0.3055
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7915  0.1649  0.01058  0.3631  0.9979  0.8783
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.3143  0.005691  0.7564  0.6563  0.06363  0.2097

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.06363  0.2097  0.05159  0.09539  0.2191  0.01269  0  0  0.3479
calcs use:

```

```

composition (from script)
  H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
10.97    658.6  0.3993  0.2696  0.03621  0.09123  0.3046  0.7936
        z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
        0.1594  0.01010  0.3683  0.9974  0.8548  0.2892
        k(pl)  x(ilm)  Q(ilm)
        0.006485  0.7530  0.6510

mode  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0.2124  0.04917  0.09570  0.2459  0.01257  0  0  0.3571  0.02725
calcs use:

```

```

composition (from script)

```

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : bi, g, mu, pl, ilm, ru, ky, q, H2O
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.03 805.9 0.4031 0.3386 0.03849 0.1379 0.2117 0.7281
      z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
      0.08550 0.008430 0.4121 0.8770 0.08101 0.2411
      k(pl) x(ilm) Q(ilm)
      0.03674 0.6845 0.4429

mode   bi    g    mu    pl    ilm    ru    ky    q    H2O
      0.2078 0.05808    0 0.3153 0.009943    0 0.02303 0.3412 0.04465
calcs use:

```

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : bi, g, mu, pl, ilm, ru, q, H2O
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.04 555.0 0.4368 0.1106 0.02595 0.06071 0.4570 0.8867
      z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
      0.5547 0.1241 0.3766 0.9993 0.9623 0.2915
      k(pl) x(ilm) Q(ilm)
      0.002539 0.8434 0.7996

mode   bi    g    mu    pl    ilm    ru    q    H2O
      0.2298 0.03815 0.1682 0.1697 0.01270    0 0.3687 0.01287
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.19 560.0 0.4354 0.1153 0.02656 0.06209 0.4510 0.8841
      z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
      0.5396 0.1165 0.3770 0.9993 0.9606 0.2906
      k(pl) x(ilm) Q(ilm)
      0.002674 0.8392 0.7935

mode   bi    g    mu    pl    ilm    ru    q    H2O
      0.2293 0.03864 0.1660 0.1717 0.01269    0 0.3683 0.01331
-----

```

```

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.34 565.0 0.4339 0.1202 0.02717 0.06348 0.4449 0.8814
      z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
      0.5241 0.1091 0.3773 0.9992 0.9588 0.2898
      k(pl) x(ilm) Q(ilm)
      0.002815 0.8349 0.7871

mode   bi    g    mu    pl    ilm    ru    q    H2O

```

0.2288 0.03912 0.1637 0.1740 0.01268 0 0.3680 0.01377

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.48 570.0 0.4324 0.1253 0.02778 0.06489 0.4387 0.8786
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5083 0.1018 0.3775 0.9992 0.9568 0.2892
k(pl) x(ilm) Q(ilm)
0.002961 0.8305 0.7806

mode bi g mu pl ilm ru q H2O
0.2282 0.03958 0.1613 0.1763 0.01268 0 0.3677 0.01425

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.62 575.0 0.4309 0.1306 0.02839 0.06631 0.4324 0.8757
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4920 0.09465 0.3777 0.9991 0.9547 0.2887
k(pl) x(ilm) Q(ilm)
0.003112 0.8259 0.7738

mode bi g mu pl ilm ru q H2O
0.2277 0.04003 0.1588 0.1788 0.01267 0 0.3673 0.01476

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.76 580.0 0.4294 0.1362 0.02900 0.06774 0.4260 0.8726
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4754 0.08761 0.3778 0.9991 0.9525 0.2883
k(pl) x(ilm) Q(ilm)
0.003269 0.8212 0.7668

mode bi g mu pl ilm ru q H2O
0.2271 0.04047 0.1561 0.1815 0.01267 0 0.3669 0.01529

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.90 585.0 0.4278 0.1420 0.02960 0.06918 0.4195 0.8694
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4584 0.08072 0.3779 0.9990 0.9501 0.2881
k(pl) x(ilm) Q(ilm)
0.003432 0.8165 0.7596

mode bi g mu pl ilm ru q H2O
0.2265 0.04090 0.1533 0.1843 0.01267 0 0.3665 0.01584

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.85 675.0 0.3611 0.3472 0.03738 0.09635 0.2541 0.7231
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05260 0.002898 0.3308 0.9791 0.4502 0.2705
k(pl) x(ilm) Q(ilm)
0.006677 0.7495 0.6387

mode bi g mu pl ilm ru q H2O

0.1837 0.07007 0.06268 0.2890 0.01323 0 0.3452 0.03608

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.69 680.0 0.3604 0.3649 0.03717 0.09787 0.2424 0.7165
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04557 0.002659 0.3304 0.9756 0.4032 0.2693
k(pl) x(ilm) Q(ilm)
0.007102 0.7475 0.6335

mode bi g mu pl ilm ru q H2O
0.1825 0.07125 0.05831 0.2931 0.01319 0 0.3447 0.03693

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.58 685.0 0.3606 0.3797 0.03693 0.09937 0.2324 0.7117
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04085 0.002522 0.3310 0.9730 0.3697 0.2685
k(pl) x(ilm) Q(ilm)
0.007571 0.7454 0.6281

mode bi g mu pl ilm ru q H2O
0.1821 0.07191 0.05486 0.2959 0.01313 0 0.3445 0.03755

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.49 690.0 0.3613 0.3929 0.03668 0.1009 0.2235 0.7078
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03731 0.002435 0.3321 0.9709 0.3432 0.2679
k(pl) x(ilm) Q(ilm)
0.008074 0.7433 0.6225

mode bi g mu pl ilm ru q H2O
0.1821 0.07234 0.05193 0.2981 0.01306 0 0.3444 0.03804

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.41 695.0 0.3622 0.4047 0.03642 0.1023 0.2154 0.7045
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03451 0.002378 0.3335 0.9691 0.3213 0.2674
k(pl) x(ilm) Q(ilm)
0.008609 0.7411 0.6168

mode bi g mu pl ilm ru q H2O
0.1822 0.07263 0.04933 0.3000 0.01299 0 0.3445 0.03845

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.35 700.0 0.3632 0.4155 0.03616 0.1038 0.2080 0.7016
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03220 0.002341 0.3351 0.9676 0.3026 0.2669
k(pl) x(ilm) Q(ilm)
0.009175 0.7388 0.6109

mode bi g mu pl ilm ru q H2O

0.1825 0.07283 0.04699 0.3015 0.01291 0 0.3445 0.03881

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.30 705.0 0.3643 0.4255 0.03591 0.1052 0.2011 0.6990
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03026 0.002317 0.3368 0.9663 0.2863 0.2665
k(pl) x(ilm) Q(ilm)
0.009771 0.7366 0.6048

mode bi g mu pl ilm ru q H2O
0.1828 0.07298 0.04483 0.3028 0.01282 0 0.3446 0.03913

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.26 710.0 0.3655 0.4348 0.03566 0.1067 0.1947 0.6966
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02859 0.002303 0.3385 0.9652 0.2719 0.2661
k(pl) x(ilm) Q(ilm)
0.01040 0.7343 0.5986

mode bi g mu pl ilm ru q H2O
0.1831 0.07310 0.04284 0.3040 0.01274 0 0.3447 0.03943

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.22 715.0 0.3666 0.4435 0.03542 0.1081 0.1887 0.6943
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02713 0.002297 0.3403 0.9641 0.2589 0.2658
k(pl) x(ilm) Q(ilm)
0.01106 0.7319 0.5923

mode bi g mu pl ilm ru q H2O
0.1835 0.07319 0.04097 0.3051 0.01265 0 0.3448 0.03970

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.19 720.0 0.3678 0.4516 0.03519 0.1096 0.1831 0.6922
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02583 0.002297 0.3421 0.9632 0.2472 0.2654
k(pl) x(ilm) Q(ilm)
0.01176 0.7296 0.5859

mode bi g mu pl ilm ru q H2O
0.1839 0.07327 0.03920 0.3061 0.01257 0 0.3450 0.03995

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.17 725.0 0.3689 0.4592 0.03497 0.1110 0.1777 0.6902
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02468 0.002302 0.3439 0.9624 0.2366 0.2651
k(pl) x(ilm) Q(ilm)
0.01249 0.7272 0.5792

mode bi g mu pl ilm ru q H2O

0.1843 0.07335 0.03754 0.3070 0.01248 0 0.3451 0.04019

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.14 730.0 0.3700 0.4664 0.03475 0.1125 0.1727 0.6882
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02364 0.002312 0.3457 0.9617 0.2268 0.2648
k(pl) x(ilm) Q(ilm)
0.01326 0.7248 0.5725

mode bi g mu pl ilm ru q H2O
0.1847 0.07343 0.03595 0.3079 0.01240 0 0.3452 0.04042

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.12 735.0 0.3711 0.4732 0.03455 0.1139 0.1679 0.6863
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02270 0.002324 0.3476 0.9610 0.2179 0.2645
k(pl) x(ilm) Q(ilm)
0.01407 0.7224 0.5656

mode bi g mu pl ilm ru q H2O
0.1851 0.07351 0.03444 0.3087 0.01231 0 0.3453 0.04063

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.11 740.0 0.3722 0.4797 0.03434 0.1153 0.1633 0.6845
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02184 0.002340 0.3494 0.9605 0.2096 0.2642
k(pl) x(ilm) Q(ilm)
0.01491 0.7200 0.5585

mode bi g mu pl ilm ru q H2O
0.1854 0.07360 0.03298 0.3095 0.01223 0 0.3454 0.04084

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.09 745.0 0.3732 0.4858 0.03415 0.1167 0.1590 0.6827
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02104 0.002358 0.3512 0.9599 0.2019 0.2638
k(pl) x(ilm) Q(ilm)
0.01580 0.7176 0.5513

mode bi g mu pl ilm ru q H2O
0.1858 0.07370 0.03158 0.3102 0.01214 0 0.3455 0.04105

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.08 750.0 0.3743 0.4917 0.03396 0.1181 0.1548 0.6810
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02031 0.002379 0.3529 0.9595 0.1947 0.2635
k(pl) x(ilm) Q(ilm)
0.01674 0.7151 0.5439

mode bi g mu pl ilm ru q H2O

0.1861 0.07381 0.03024 0.3109 0.01206 0 0.3456 0.04125

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.07 755.0 0.3752 0.4973 0.03378 0.1195 0.1508 0.6792
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01963 0.002401 0.3547 0.9591 0.1880 0.2632
k(pl) x(ilm) Q(ilm)
0.01771 0.7126 0.5363

mode bi g mu pl ilm ru q H2O
0.1864 0.07393 0.02893 0.3116 0.01197 0 0.3457 0.04144

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.06 760.0 0.3762 0.5027 0.03360 0.1209 0.1470 0.6775
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01899 0.002424 0.3564 0.9587 0.1818 0.2629
k(pl) x(ilm) Q(ilm)
0.01874 0.7102 0.5286

mode bi g mu pl ilm ru q H2O
0.1867 0.07407 0.02766 0.3123 0.01189 0 0.3458 0.04164

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.05 765.0 0.3771 0.5079 0.03343 0.1223 0.1433 0.6758
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01839 0.002449 0.3581 0.9584 0.1759 0.2625
k(pl) x(ilm) Q(ilm)
0.01982 0.7077 0.5207

mode bi g mu pl ilm ru q H2O
0.1869 0.07423 0.02642 0.3130 0.01181 0 0.3459 0.04183

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.04 770.0 0.3779 0.5129 0.03326 0.1237 0.1397 0.6741
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01782 0.002475 0.3598 0.9581 0.1704 0.2622
k(pl) x(ilm) Q(ilm)
0.02094 0.7052 0.5126

mode bi g mu pl ilm ru q H2O
0.1871 0.07440 0.02522 0.3136 0.01173 0 0.3459 0.04202

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.03 775.0 0.3788 0.5178 0.03310 0.1251 0.1363 0.6725
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01728 0.002502 0.3614 0.9579 0.1653 0.2618
k(pl) x(ilm) Q(ilm)
0.02213 0.7027 0.5043

mode bi g mu pl ilm ru q H2O

0.1873 0.07459 0.02403 0.3143 0.01165 0 0.3460 0.04221

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.02 780.0 0.3795 0.5226 0.03293 0.1265 0.1329 0.6708
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01677 0.002530 0.3631 0.9577 0.1604 0.2615
k(pl) x(ilm) Q(ilm)
0.02336 0.7001 0.4958

mode bi g mu pl ilm ru q H2O
0.1874 0.07479 0.02287 0.3150 0.01157 0 0.3460 0.04240

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.01 785.0 0.3803 0.5272 0.03277 0.1278 0.1297 0.6691
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01628 0.002558 0.3646 0.9576 0.1559 0.2611
k(pl) x(ilm) Q(ilm)
0.02466 0.6976 0.4871

mode bi g mu pl ilm ru q H2O
0.1875 0.07502 0.02172 0.3156 0.01150 0 0.3460 0.04260

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.00 790.0 0.3810 0.5318 0.03261 0.1292 0.1265 0.6674
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01581 0.002587 0.3662 0.9575 0.1516 0.2607
k(pl) x(ilm) Q(ilm)
0.02601 0.6951 0.4782

mode bi g mu pl ilm ru q H2O
0.1876 0.07526 0.02059 0.3163 0.01142 0 0.3460 0.04279

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.00 795.0 0.3817 0.5362 0.03245 0.1305 0.1234 0.6658
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01536 0.002616 0.3677 0.9575 0.1476 0.2603
k(pl) x(ilm) Q(ilm)
0.02742 0.6926 0.4691

mode bi g mu pl ilm ru q H2O
0.1877 0.07553 0.01947 0.3170 0.01135 0 0.3460 0.04298

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.99 800.0 0.3824 0.5407 0.03229 0.1319 0.1204 0.6641
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01492 0.002645 0.3692 0.9575 0.1439 0.2599
k(pl) x(ilm) Q(ilm)
0.02889 0.6900 0.4597

mode bi g mu pl ilm ru q H2O

0.1877 0.07581 0.01835 0.3177 0.01128 0 0.3460 0.04318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.97 805.0 0.3830 0.5451 0.03212 0.1332 0.1173 0.6624
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01449 0.002673 0.3706 0.9576 0.1403 0.2595
k(pl) x(ilm) Q(ilm)
0.03044 0.6875 0.4501

mode bi g mu pl ilm ru q H2O
0.1877 0.07611 0.01723 0.3184 0.01121 0 0.3460 0.04338

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.96 810.0 0.3836 0.5496 0.03195 0.1345 0.1144 0.6606
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01405 0.002701 0.3720 0.9577 0.1369 0.2590
k(pl) x(ilm) Q(ilm)
0.03207 0.6850 0.4402

mode bi g mu pl ilm ru q H2O
0.1877 0.07643 0.01610 0.3191 0.01115 0 0.3459 0.04359

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.94 815.0 0.3842 0.5541 0.03177 0.1358 0.1114 0.6589
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01362 0.002728 0.3733 0.9579 0.1337 0.2586
k(pl) x(ilm) Q(ilm)
0.03379 0.6824 0.4299

mode bi g mu pl ilm ru q H2O
0.1876 0.07677 0.01495 0.3199 0.01108 0 0.3459 0.04380

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.91 820.0 0.3848 0.5587 0.03158 0.1371 0.1085 0.6571
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01318 0.002753 0.3747 0.9582 0.1307 0.2581
k(pl) x(ilm) Q(ilm)
0.03558 0.6799 0.4194

mode bi g mu pl ilm ru q H2O
0.1876 0.07713 0.01378 0.3207 0.01102 0 0.3458 0.04402

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.88 825.0 0.3853 0.5634 0.03139 0.1383 0.1055 0.6553
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01273 0.002777 0.3759 0.9586 0.1279 0.2576
k(pl) x(ilm) Q(ilm)
0.03747 0.6773 0.4085

mode bi g mu pl ilm ru q H2O

0.1875 0.07751 0.01258 0.3215 0.01096 0 0.3458 0.04424

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.84 830.0 0.3859 0.5683 0.03117 0.1396 0.1025 0.6535
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01228 0.002799 0.3771 0.9590 0.1253 0.2571
k(pl) x(ilm) Q(ilm)
0.03946 0.6747 0.3973

mode bi g mu pl ilm ru q H2O
0.1873 0.07791 0.01135 0.3223 0.01090 0 0.3457 0.04448

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.80 835.0 0.3864 0.5733 0.03095 0.1408 0.09951 0.6516
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01182 0.002819 0.3783 0.9595 0.1228 0.2565
k(pl) x(ilm) Q(ilm)
0.04155 0.6722 0.3856

mode bi g mu pl ilm ru q H2O
0.1872 0.07833 0.01008 0.3232 0.01084 0 0.3456 0.04472

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.74 840.0 0.3869 0.5786 0.03070 0.1420 0.09644 0.6496
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01134 0.002836 0.3794 0.9602 0.1205 0.2560
k(pl) x(ilm) Q(ilm)
0.04376 0.6696 0.3735

mode bi g mu pl ilm ru q H2O
0.1870 0.07877 0.008756 0.3241 0.01079 0 0.3456 0.04497

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.68 845.0 0.3875 0.5842 0.03043 0.1432 0.09330 0.6476
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01085 0.002850 0.3805 0.9609 0.1184 0.2554
k(pl) x(ilm) Q(ilm)
0.04607 0.6670 0.3609

mode bi g mu pl ilm ru q H2O
0.1868 0.07922 0.007376 0.3251 0.01074 0 0.3455 0.04522

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.60 850.0 0.3880 0.5902 0.03013 0.1443 0.09008 0.6456
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01034 0.002860 0.3815 0.9618 0.1165 0.2548
k(pl) x(ilm) Q(ilm)
0.04851 0.6644 0.3477

mode bi g mu pl ilm ru q H2O

0.1867 0.07969 0.005926 0.3261 0.01069 0 0.3454 0.04549

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.51 855.0 0.3885 0.5965 0.02980 0.1454 0.08674 0.6435
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.009814 0.002866 0.3825 0.9628 0.1147 0.2541
k(pl) x(ilm) Q(ilm)
0.05109 0.6617 0.3338

mode bi g mu pl ilm ru q H2O
0.1865 0.08017 0.004394 0.3272 0.01065 0 0.3453 0.04578

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.00 651.0 0.4035 0.2509 0.03581 0.08892 0.3189 0.2481
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2373 0.8061 0.1933 0.01386 0.3712 0.9978
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8797 0.2902 0.006108 0.7577 0.6607 0.2151

mode bi ep g mu pl ilm ru q H2O
0.2151 0 0.04734 0.1034 0.2374 0.01258 0 0.3585 0.02564

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : bi, g, mu, pl, ilm, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.40 608.0 0.4241 0.2858 0.03366 0.06728 0.3178 0.7969
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05727 0.002179 0.3668 0.9995 0.9582 0.3234
k(pl) x(ilm) Q(ilm)
0.002685 0.7665 0.6892

mode bi g mu pl ilm ky q H2O
0.2272 0.02940 0.09018 0.2524 0.01384 0 0.3613 0.02571

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.50 609.4 0.4238 0.2854 0.03371 0.06782 0.3174 0.7970
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05903 0.002257 0.3672 0.9995 0.9572 0.3231

k(pl) x(ilm) Q(ilm)
0.002748 0.7660 0.6881

mode bi g mu pl ilm ky q H2O
0.2271 0.02962 0.09027 0.2523 0.01381 0 0.3612 0.02573

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.60 610.8 0.4236 0.2849 0.03376 0.06837 0.3171 0.7970
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06085 0.002339 0.3677 0.9995 0.9562 0.3227
k(pl) x(ilm) Q(ilm)
0.002812 0.7656 0.6870

mode bi g mu pl ilm ky q H2O
0.2269 0.02985 0.09036 0.2522 0.01377 0 0.3612 0.02575

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.70 612.1 0.4233 0.2845 0.03381 0.06892 0.3167 0.7971
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06274 0.002426 0.3682 0.9995 0.9552 0.3224
k(pl) x(ilm) Q(ilm)
0.002878 0.7651 0.6859

mode bi g mu pl ilm ky q H2O
0.2268 0.03009 0.09045 0.2521 0.01374 0 0.3611 0.02577

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.80 613.5 0.4231 0.2840 0.03386 0.06948 0.3163 0.7972
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06468 0.002517 0.3686 0.9995 0.9541 0.3220
k(pl) x(ilm) Q(ilm)
0.002946 0.7646 0.6848

mode bi g mu pl ilm ky q H2O
0.2266 0.03034 0.09055 0.2520 0.01371 0 0.3610 0.02579

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.90 614.8 0.4228 0.2836 0.03391 0.07004 0.3160 0.7973
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06669 0.002613 0.3690 0.9995 0.9530 0.3216
k(pl) x(ilm) Q(ilm)
0.003015 0.7642 0.6837

mode bi g mu pl ilm ky q H2O
0.2264 0.03060 0.09065 0.2519 0.01368 0 0.3610 0.02581

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.00 616.2 0.4225 0.2832 0.03397 0.07061 0.3156 0.7974
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06876 0.002715 0.3694 0.9994 0.9519 0.3212

k(pl) x(ilm) Q(ilm)
0.003086 0.7637 0.6826

mode bi g mu pl ilm ky q H2O
0.2263 0.03087 0.09075 0.2517 0.01364 0 0.3609 0.02583

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.10 617.5 0.4222 0.2827 0.03402 0.07118 0.3152 0.7975
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07091 0.002822 0.3698 0.9994 0.9507 0.3208
k(pl) x(ilm) Q(ilm)
0.003159 0.7632 0.6814

mode bi g mu pl ilm ky q H2O
0.2261 0.03115 0.09085 0.2516 0.01361 0 0.3608 0.02586

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.20 618.9 0.4219 0.2823 0.03407 0.07176 0.3148 0.7977
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07312 0.002936 0.3702 0.9994 0.9494 0.3203
k(pl) x(ilm) Q(ilm)
0.003235 0.7628 0.6803

mode bi g mu pl ilm ky q H2O
0.2259 0.03144 0.09095 0.2515 0.01357 0 0.3608 0.02588

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.30 620.3 0.4216 0.2819 0.03413 0.07234 0.3145 0.7978
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07540 0.003055 0.3706 0.9994 0.9481 0.3199
k(pl) x(ilm) Q(ilm)
0.003312 0.7623 0.6792

mode bi g mu pl ilm ky q H2O
0.2257 0.03174 0.09106 0.2514 0.01354 0 0.3607 0.02590

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.40 621.6 0.4212 0.2815 0.03419 0.07293 0.3141 0.7979
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07776 0.003182 0.3710 0.9993 0.9468 0.3194
k(pl) x(ilm) Q(ilm)
0.003391 0.7618 0.6780

mode bi g mu pl ilm ky q H2O
0.2255 0.03205 0.09117 0.2512 0.01351 0 0.3606 0.02593

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.50 623.0 0.4209 0.2811 0.03424 0.07353 0.3137 0.7980
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08019 0.003316 0.3713 0.9993 0.9454 0.3188

k(pl) x(ilm) Q(ilm)
0.003473 0.7613 0.6769

mode bi g mu pl ilm ky q H2O
0.2253 0.03237 0.09128 0.2511 0.01347 0 0.3606 0.02595

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.60 624.3 0.4205 0.2807 0.03430 0.07413 0.3133 0.7981
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08269 0.003458 0.3716 0.9993 0.9439 0.3183
k(pl) x(ilm) Q(ilm)
0.003557 0.7609 0.6757

mode bi g mu pl ilm ky q H2O
0.2250 0.03271 0.09140 0.2509 0.01344 0 0.3605 0.02597

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.70 625.7 0.4201 0.2803 0.03436 0.07474 0.3129 0.7982
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08528 0.003608 0.3719 0.9993 0.9424 0.3177
k(pl) x(ilm) Q(ilm)
0.003644 0.7604 0.6746

mode bi g mu pl ilm ky q H2O
0.2248 0.03306 0.09152 0.2508 0.01340 0 0.3604 0.02600

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.80 627.1 0.4197 0.2799 0.03442 0.07536 0.3125 0.7984
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08794 0.003767 0.3722 0.9992 0.9408 0.3171
k(pl) x(ilm) Q(ilm)
0.003733 0.7599 0.6734

mode bi g mu pl ilm ky q H2O
0.2246 0.03343 0.09164 0.2506 0.01337 0 0.3604 0.02603

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.90 628.4 0.4192 0.2795 0.03448 0.07599 0.3121 0.7985
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09068 0.003935 0.3725 0.9992 0.9391 0.3164
k(pl) x(ilm) Q(ilm)
0.003825 0.7595 0.6723

mode bi g mu pl ilm ky q H2O
0.2243 0.03382 0.09177 0.2504 0.01333 0 0.3603 0.02605

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.00 629.8 0.4188 0.2791 0.03455 0.07662 0.3117 0.7986
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09349 0.004114 0.3727 0.9992 0.9373 0.3158

k(pl) x(ilm) Q(ilm)
0.003919 0.7590 0.6711

mode bi g mu pl ilm ky q H2O
0.2240 0.03422 0.09190 0.2503 0.01329 0 0.3602 0.02608

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.10 631.2 0.4183 0.2787 0.03461 0.07726 0.3113 0.7987
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09639 0.004302 0.3730 0.9991 0.9354 0.3150
k(pl) x(ilm) Q(ilm)
0.004017 0.7585 0.6700

mode bi g mu pl ilm ky q H2O
0.2238 0.03464 0.09204 0.2501 0.01326 0 0.3601 0.02611

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.20 632.6 0.4178 0.2784 0.03468 0.07791 0.3109 0.7988
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09937 0.004502 0.3732 0.9991 0.9334 0.3143
k(pl) x(ilm) Q(ilm)
0.004117 0.7581 0.6688

mode bi g mu pl ilm ky q H2O
0.2235 0.03508 0.09218 0.2499 0.01322 0 0.3600 0.02614

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.30 634.0 0.4172 0.2780 0.03474 0.07857 0.3105 0.7988
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1024 0.004713 0.3733 0.9991 0.9313 0.3135
k(pl) x(ilm) Q(ilm)
0.004221 0.7576 0.6676

mode bi g mu pl ilm ky q H2O
0.2231 0.03554 0.09233 0.2497 0.01318 0 0.3600 0.02617

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.40 635.4 0.4166 0.2776 0.03481 0.07923 0.3101 0.7989
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1056 0.004936 0.3735 0.9990 0.9291 0.3126
k(pl) x(ilm) Q(ilm)
0.004328 0.7572 0.6665

mode bi g mu pl ilm ky q H2O
0.2228 0.03602 0.09248 0.2495 0.01315 0 0.3599 0.02621

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.50 636.8 0.4160 0.2772 0.03488 0.07991 0.3096 0.7990
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1088 0.005172 0.3736 0.9990 0.9268 0.3117

k(pl) x(ilm) Q(ilm)
0.004438 0.7568 0.6653

mode bi g mu pl ilm ky q H2O
0.2225 0.03653 0.09264 0.2493 0.01311 0 0.3598 0.02624

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.60 638.2 0.4154 0.2769 0.03495 0.08060 0.3092 0.7990
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1120 0.005420 0.3737 0.9989 0.9243 0.3108
k(pl) x(ilm) Q(ilm)
0.004552 0.7563 0.6642

mode bi g mu pl ilm ky q H2O
0.2221 0.03706 0.09280 0.2490 0.01307 0 0.3597 0.02628

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.70 639.6 0.4147 0.2765 0.03503 0.08129 0.3088 0.7990
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1154 0.005683 0.3737 0.9989 0.9216 0.3098
k(pl) x(ilm) Q(ilm)
0.004670 0.7559 0.6631

mode bi g mu pl ilm ky q H2O
0.2217 0.03762 0.09297 0.2488 0.01303 0 0.3596 0.02632

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.80 641.0 0.4140 0.2761 0.03510 0.08200 0.3084 0.7990
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1188 0.005959 0.3737 0.9988 0.9187 0.3087
k(pl) x(ilm) Q(ilm)
0.004791 0.7555 0.6619

mode bi g mu pl ilm ky q H2O
0.2213 0.03822 0.09315 0.2486 0.01299 0 0.3595 0.02636

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.90 642.4 0.4132 0.2757 0.03518 0.08271 0.3080 0.7989
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1223 0.006249 0.3737 0.9987 0.9157 0.3076
k(pl) x(ilm) Q(ilm)
0.004916 0.7551 0.6608

mode bi g mu pl ilm ky q H2O
0.2208 0.03884 0.09334 0.2483 0.01296 0 0.3593 0.02640

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 643.9 0.4124 0.2753 0.03526 0.08344 0.3076 0.7988
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1258 0.006554 0.3736 0.9987 0.9123 0.3064

k(pl) x(ilm) Q(ilm)
0.005045 0.7548 0.6597

mode bi g mu pl ilm ky q H2O
0.2203 0.03951 0.09353 0.2481 0.01292 0 0.3592 0.02645

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.10 645.3 0.4115 0.2749 0.03534 0.08418 0.3072 0.7987
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1293 0.006873 0.3735 0.9986 0.9088 0.3051
k(pl) x(ilm) Q(ilm)
0.005178 0.7544 0.6587

mode bi g mu pl ilm ky q H2O
0.2198 0.04021 0.09373 0.2478 0.01288 0 0.3591 0.02650

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.20 646.8 0.4106 0.2745 0.03543 0.08494 0.3068 0.7985
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1329 0.007206 0.3733 0.9985 0.9049 0.3037
k(pl) x(ilm) Q(ilm)
0.005315 0.7541 0.6576

mode bi g mu pl ilm ky q H2O
0.2192 0.04096 0.09393 0.2475 0.01284 0 0.3589 0.02655

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.30 648.3 0.4095 0.2740 0.03551 0.08570 0.3064 0.7982
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1365 0.007553 0.3730 0.9984 0.9006 0.3023
k(pl) x(ilm) Q(ilm)
0.005456 0.7538 0.6566

mode bi g mu pl ilm ky q H2O
0.2186 0.04175 0.09414 0.2473 0.01280 0 0.3588 0.02661

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.40 649.8 0.4084 0.2736 0.03560 0.08648 0.3060 0.7979
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1401 0.007912 0.3727 0.9983 0.8959 0.3008
k(pl) x(ilm) Q(ilm)
0.005601 0.7536 0.6556

mode bi g mu pl ilm ky q H2O
0.2180 0.04261 0.09436 0.2470 0.01276 0 0.3586 0.02667

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.50 651.3 0.4072 0.2730 0.03570 0.08727 0.3056 0.7975
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1437 0.008283 0.3723 0.9982 0.8907 0.2991

k(pl) x(ilm) Q(ilm)
0.005750 0.7533 0.6546

mode bi g mu pl ilm ky q H2O
0.2172 0.04353 0.09459 0.2467 0.01272 0 0.3584 0.02674

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.60 652.8 0.4059 0.2725 0.03579 0.08808 0.3053 0.7970
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1472 0.008663 0.3718 0.9981 0.8849 0.2973
k(pl) x(ilm) Q(ilm)
0.005902 0.7531 0.6537

mode bi g mu pl ilm ky q H2O
0.2164 0.04452 0.09482 0.2465 0.01269 0 0.3582 0.02683

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.70 654.3 0.4044 0.2718 0.03590 0.08890 0.3050 0.7963
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1507 0.009049 0.3711 0.9979 0.8784 0.2954
k(pl) x(ilm) Q(ilm)
0.006057 0.7530 0.6529

mode bi g mu pl ilm ky q H2O
0.2155 0.04560 0.09505 0.2463 0.01265 0 0.3580 0.02692

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.80 655.9 0.4028 0.2711 0.03600 0.08974 0.3048 0.7955
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1541 0.009439 0.3703 0.9978 0.8709 0.2933
k(pl) x(ilm) Q(ilm)
0.006214 0.7529 0.6521

mode bi g mu pl ilm ky q H2O
0.2145 0.04678 0.09529 0.2461 0.01262 0 0.3577 0.02702

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.90 657.5 0.4009 0.2703 0.03612 0.09059 0.3046 0.7945
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1572 0.009825 0.3692 0.9976 0.8622 0.2910
k(pl) x(ilm) Q(ilm)
0.006371 0.7529 0.6514

mode bi g mu pl ilm ky q H2O
0.2133 0.04810 0.09553 0.2459 0.01259 0 0.3574 0.02715

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 659.1 0.3987 0.2693 0.03624 0.09147 0.3046 0.7932
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1602 0.01020 0.3679 0.9973 0.8518 0.2885

k(pl) x(ilm) Q(ilm)
0.006526 0.7530 0.6508

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2120	0.04959	0.09576	0.2458	0.01256		0	0.3570 0.02730

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.10 660.7 0.3961 0.2681 0.03638 0.09236 0.3047 0.7916
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1628 0.01055 0.3662 0.9970 0.8392 0.2856
k(pl) x(ilm) Q(ilm)
0.006676 0.7532 0.6504

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2103	0.05131	0.09598	0.2459	0.01254		0	0.3565 0.02748

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 662.3 0.3928 0.2664 0.03654 0.09327 0.3050 0.7894
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1649 0.01087 0.3639 0.9965 0.8230 0.2823
k(pl) x(ilm) Q(ilm)
0.006811 0.7536 0.6502

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2083	0.05337	0.09617	0.2461	0.01254		0	0.3559 0.02772

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.30 663.8 0.3885 0.2642 0.03672 0.09421 0.3058 0.7864
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1662 0.01110 0.3606 0.9958 0.8008 0.2782
k(pl) x(ilm) Q(ilm)
0.006917 0.7542 0.6504

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2055	0.05600	0.09632	0.2466	0.01255		0	0.3550 0.02806

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 665.2 0.3822 0.2606 0.03697 0.09516 0.3073 0.7816
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1662 0.01121 0.3554 0.9946 0.7675 0.2728
k(pl) x(ilm) Q(ilm)
0.006956 0.7553 0.6514

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2014	0.05965	0.09638	0.2477	0.01260		0	0.3537 0.02857

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.50 666.1 0.3727 0.2549 0.03731 0.09607 0.3102 0.7743
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1644 0.01113 0.3469 0.9922 0.7157 0.2653

k(pl) x(ilm) Q(ilm)
0.006860 0.7573 0.6538

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1952	0.06497	0.09635	0.2497	0.01272		0	0.3516 0.02935

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.60 666.4 0.3621 0.2484 0.03764 0.09686 0.3135 0.7661
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1627 0.01105 0.3373 0.9887 0.6588 0.2573
k(pl) x(ilm) Q(ilm)
0.006686 0.7596 0.6569

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1885	0.07073	0.09642	0.2519	0.01287		0	0.3494 0.03019

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.70 666.7 0.3537 0.2432 0.03789 0.09760 0.3157 0.7595
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1626 0.01113 0.3295 0.9851 0.6145 0.2508
k(pl) x(ilm) Q(ilm)
0.006564 0.7614 0.6593

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1831	0.07539	0.09669	0.2534	0.01298		0	0.3477 0.03082

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 667.2 0.3470 0.2391 0.03809 0.09835 0.3171 0.7542
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1633 0.01129 0.3234 0.9817 0.5802 0.2454
k(pl) x(ilm) Q(ilm)
0.006497 0.7629 0.6611

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1788	0.07918	0.09706	0.2543	0.01306		0	0.3463 0.03130

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.90 667.8 0.3413 0.2358 0.03824 0.09911 0.3179 0.7496
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1644 0.01149 0.3183 0.9785 0.5520 0.2406
k(pl) x(ilm) Q(ilm)
0.006467 0.7641 0.6626

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1751	0.08245	0.09750	0.2549	0.01312		0	0.3452 0.03169

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 668.6 0.3363 0.2329 0.03837 0.09991 0.3183 0.7455
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1658 0.01173 0.3139 0.9753 0.5278 0.2362

k(pl) x(ilm) Q(ilm)
0.006463 0.7652 0.6638

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1719	0.08539	0.09797	0.2553	0.01317		0	0.3442 0.03202

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.10 669.5 0.3318 0.2304 0.03848 0.1007 0.3184 0.7417
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1672 0.01198 0.3099 0.9722 0.5064 0.2321
k(pl) x(ilm) Q(ilm)
0.006477 0.7662 0.6648

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1690	0.08809	0.09847	0.2556	0.01320		0	0.3434 0.03231

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 670.5 0.3276 0.2282 0.03858 0.1016 0.3183 0.7381
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1687 0.01224 0.3063 0.9690 0.4871 0.2283
k(pl) x(ilm) Q(ilm)
0.006507 0.7672 0.6657

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1663	0.09062	0.09898	0.2557	0.01323		0	0.3426 0.03257

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.30 671.6 0.3238 0.2262 0.03866 0.1024 0.3180 0.7347
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1702 0.01250 0.3031 0.9659 0.4695 0.2246
k(pl) x(ilm) Q(ilm)
0.006549 0.7680 0.6665

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1638	0.09300	0.09951	0.2558	0.01326		0	0.3418 0.03281

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 672.8 0.3201 0.2244 0.03874 0.1033 0.3176 0.7314
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1717 0.01277 0.3000 0.9628 0.4532 0.2210
k(pl) x(ilm) Q(ilm)
0.006602 0.7689 0.6671

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1614	0.09528	0.1000	0.2559	0.01328		0	0.3411 0.03303

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.50 674.0 0.3167 0.2227 0.03881 0.1042 0.3170 0.7282
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1731 0.01303 0.2972 0.9596 0.4379 0.2176

k(pl) x(ilm) Q(ilm)
0.006665 0.7697 0.6677

mode bi g mu pl ilm ky q H2O
0.1591 0.09747 0.1006 0.2559 0.01330 0 0.3405 0.03324

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 675.3 0.3134 0.2213 0.03887 0.1051 0.3163 0.7250
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1745 0.01330 0.2945 0.9565 0.4235 0.2142
k(pl) x(ilm) Q(ilm)
0.006737 0.7705 0.6683

mode bi g mu pl ilm ky q H2O
0.1569 0.09958 0.1011 0.2559 0.01331 0 0.3398 0.03344

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.70 676.7 0.3103 0.2199 0.03893 0.1060 0.3154 0.7219
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1758 0.01356 0.2920 0.9533 0.4099 0.2110
k(pl) x(ilm) Q(ilm)
0.006818 0.7712 0.6687

mode bi g mu pl ilm ky q H2O
0.1547 0.1016 0.1016 0.2559 0.01332 0 0.3392 0.03363

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 678.2 0.3074 0.2186 0.03898 0.1070 0.3145 0.7189
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1770 0.01382 0.2896 0.9501 0.3969 0.2079
k(pl) x(ilm) Q(ilm)
0.006908 0.7720 0.6691

mode bi g mu pl ilm ky q H2O
0.1527 0.1036 0.1021 0.2558 0.01333 0 0.3387 0.03382

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.90 679.7 0.3045 0.2175 0.03902 0.1080 0.3135 0.7159
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1782 0.01407 0.2874 0.9469 0.3845 0.2048
k(pl) x(ilm) Q(ilm)
0.007006 0.7727 0.6694

mode bi g mu pl ilm ky q H2O
0.1507 0.1055 0.1026 0.2558 0.01334 0 0.3381 0.03400

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 681.3 0.3018 0.2165 0.03906 0.1090 0.3123 0.7129
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1792 0.01431 0.2853 0.9436 0.3725 0.2019

k(pl) x(ilm) Q(ilm)
0.007112 0.7733 0.6697

mode bi g mu pl ilm ky q H2O
0.1487 0.1074 0.1031 0.2558 0.01335 0 0.3375 0.03417

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : bi, g, mu, pl, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.04 651.9 0.4029 0.2511 0.03604 0.08924 0.3183 0.2489
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2380 0.8055 0.1937 0.01403 0.3710 0.9977
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8759 0.2886 0.006204 0.7527 0.6535 0.2146

mode bi ep g mu pl ilm ru q H2O
0.2146 0 0.04831 0.1032 0.2374 0.012310.0001250 0.3583 0.02575

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.12 653.6 0.4016 0.2513 0.03647 0.08982 0.3174 0.2503
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2392 0.8043 0.1945 0.01436 0.3705 0.9975
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8680 0.2856 0.006382 0.7430 0.6391 0.2135

mode bi ep g mu pl ilm ru q H2O
0.2135 0 0.05019 0.1029 0.2375 0.011810.0003559 0.3578 0.02595

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.20 655.3 0.4002 0.2512 0.03690 0.09040 0.3166 0.2518
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2404 0.8030 0.1953 0.01470 0.3698 0.9973
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8592 0.2824 0.006555 0.7327 0.6237 0.2123

mode bi ep g mu pl ilm ru q H2O
0.2123 0 0.05216 0.1026 0.2376 0.011330.0005825 0.3573 0.02616

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.28 656.8 0.3985 0.2508 0.03731 0.09095 0.3162 0.2532
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2416 0.8016 0.1962 0.01504 0.3689 0.9970
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.8491 0.2791 0.006721 0.7216 0.6068 0.2109

mode bi ep g mu pl ilm ru q H2O
 0.2109 0 0.05425 0.1024 0.2377 0.010850.0008069 0.3567 0.02637

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.36 658.3 0.3966 0.2499 0.03773 0.09148 0.3160 0.2546
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2427 0.8001 0.1970 0.01539 0.3677 0.9967
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.8374 0.2755 0.006876 0.7095 0.5882 0.2094

mode bi ep g mu pl ilm ru q H2O
 0.2094 0 0.05651 0.1022 0.2378 0.01038 0.001032 0.3561 0.02660

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.44 659.7 0.3943 0.2486 0.03813 0.09197 0.3163 0.2560
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2439 0.7983 0.1979 0.01575 0.3661 0.9962
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.8238 0.2715 0.007016 0.6960 0.5670 0.2076

mode bi ep g mu pl ilm ru q H2O
 0.2076 0 0.05899 0.1022 0.2378 0.009907 0.001263 0.3554 0.02684

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.52 660.9 0.3915 0.2466 0.03854 0.09242 0.3169 0.2574
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2450 0.7964 0.1987 0.01610 0.3641 0.9957
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.8078 0.2671 0.007134 0.6805 0.5420 0.2055

mode bi ep g mu pl ilm ru q H2O
 0.2055 0 0.06177 0.1022 0.2379 0.009422 0.001505 0.3546 0.02710

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.60 661.9 0.3883 0.2439 0.03895 0.09281 0.3181 0.2588
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2462 0.7941 0.1995 0.01645 0.3616 0.9950
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7889 0.2621 0.007222 0.6615 0.5106 0.2030

mode bi ep g mu pl ilm ru q H2O
 0.2030 0 0.06492 0.1023 0.2380 0.008901 0.001772 0.3537 0.02739

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.68 662.6 0.3845 0.2404 0.03934 0.09311 0.3199 0.2602
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2473 0.7916 0.2003 0.01679 0.3585 0.9940
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7667 0.2565 0.007275 0.6350 0.4643 0.2001

mode bi ep g mu pl ilm ru q H2O
 0.2001 0 0.06856 0.1025 0.2381 0.008288 0.002093 0.3526 0.02772

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.76 662.6 0.3830 0.2355 0.03939 0.09312 0.3229 0.2614
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2484 0.7912 0.2021 0.01722 0.3574 0.9930
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7461 0.2484 0.007354 0.4915 0.001084 0.1975

mode bi ep g mu pl ilm ru q H2O
 0.1975 0 0.07399 0.1026 0.2375 0.006255 0.003125 0.3511 0.02804

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.84 663.1 0.3773 0.2312 0.03978 0.09336 0.3253 0.2624
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2493 0.7872 0.2022 0.01745 0.3523 0.9914
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7177 0.2426 0.007309 0.48850 0.0007383 0.1937

mode bi ep g mu pl ilm ru q H2O
 0.1937 0 0.07761 0.1030 0.2379 0.006194 0.003187 0.3499 0.02843

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.92 663.4 0.3712 0.2267 0.04018 0.09354 0.3277 0.2635
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2501 0.7828 0.2020 0.01765 0.3468 0.9894
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.6877 0.2367 0.007235 0.48510 0.0005498 0.1897

mode bi ep g mu pl ilm ru q H2O
 0.1897 0 0.08140 0.1035 0.2385 0.006132 0.003254 0.3487 0.02885

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.00 663.6 0.3652 0.2224 0.04058 0.09371 0.3299 0.2644
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2509 0.7784 0.2017 0.01781 0.3412 0.9871
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.6578 0.2308 0.007153 0.48160 0.0004339 0.1858

mode bi ep g mu pl ilm ru q H2O
 0.1858 0 0.08517 0.1039 0.2391 0.006073 0.003321 0.3474 0.02928

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
12.08	663.9	0.3594	0.2186	0.04097	0.09388	0.3316	0.2654		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2517	0.7739	0.2013	0.01795	0.3358	0.9845			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.6292	0.2253	0.007075	0.47810	0.0003564	0.1819			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1819	0	0.08878	0.1042	0.2398	0.006015	0.003386	0.3462	0.02970

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
12.16	664.2	0.3540	0.2152	0.04134	0.09408	0.3329	0.2662		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2525	0.7696	0.2008	0.01809	0.3308	0.9818			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.6024	0.2201	0.007011	0.47470	0.0003023	0.1784			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1784	0	0.09215	0.1045	0.2405	0.005960	0.003446	0.3451	0.03009

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
12.24	664.6	0.3490	0.2123	0.04169	0.09430	0.3339	0.2671		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2531	0.7655	0.2005	0.01823	0.3262	0.9789			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.5778	0.2154	0.006963	0.47140	0.0002631	0.1750			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1750	0	0.09529	0.1047	0.2411	0.005907	0.003502	0.3440	0.03046

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
12.32	665.2	0.3444	0.2097	0.04203	0.09454	0.3345	0.2679		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2538	0.7616	0.2002	0.01839	0.3220	0.9760			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.5553	0.2110	0.006932	0.46820	0.0002329	0.1720			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1720	0	0.09819	0.1050	0.2416	0.005856	0.003553	0.3430	0.03080

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
12.40	665.8	0.3402	0.2075	0.04235	0.09481	0.3348	0.2686		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2544	0.7580	0.2001	0.01856	0.3181	0.9731			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.5348	0.2069	0.006917	0.46520	0.0002096	0.1691			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1691	0	0.1009	0.1053	0.2421	0.005805	0.003600	0.3422	0.03111

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.48 666.4 0.3364 0.2055 0.04265 0.09510 0.3349 0.2694
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2550 0.7545 0.2001 0.01875 0.3146 0.9701
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.5160 0.2030 0.006916 0.46240.0001910 0.1665

mode bi ep g mu pl ilm ru q H2O
 0.1665 0 0.1034 0.1055 0.2425 0.005756 0.003643 0.3413 0.03139

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.56 667.2 0.3328 0.2036 0.04294 0.09541 0.3349 0.2702
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2556 0.7513 0.2002 0.01897 0.3115 0.9672
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.4990 0.1994 0.006927 0.45970.0001758 0.1640

mode bi ep g mu pl ilm ru q H2O
 0.1640 0 0.1057 0.1059 0.2427 0.005706 0.003683 0.3406 0.03164

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.64 668.0 0.3295 0.2020 0.04321 0.09573 0.3347 0.2709
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2562 0.7483 0.2005 0.01921 0.3085 0.9643
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.4834 0.1959 0.006949 0.45720.0001632 0.1618

mode bi ep g mu pl ilm ru q H2O
 0.1618 0 0.1080 0.1062 0.2429 0.005657 0.003721 0.3399 0.03187

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.72 668.8 0.3265 0.2004 0.04347 0.09606 0.3345 0.2717
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2568 0.7454 0.2009 0.01946 0.3059 0.9614
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.4692 0.1926 0.006980 0.45480.0001526 0.1596

mode bi ep g mu pl ilm ru q H2O
 0.1596 0 0.1100 0.1066 0.2431 0.005608 0.003756 0.3392 0.03208

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.80 669.7 0.3236 0.1989 0.04371 0.09640 0.3342 0.2724
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2574 0.7427 0.2014 0.01974 0.3034 0.9586
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.4562 0.1894 0.007018 0.45250.0001435 0.1576

mode bi ep g mu pl ilm ru q H2O
 0.1576 0 0.1120 0.1070 0.2431 0.005559 0.003789 0.3386 0.03226

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
12.88	670.5	0.3209	0.1975	0.04395	0.09675	0.3339	0.2732										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2580	0.7401	0.2020	0.02004	0.3011	0.9559											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.4443	0.1863	0.007063	0.45030	0.0001356	0.1557											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1557	0	0.1139	0.1075	0.2431	0.005509	0.003821	0.3381	0.03243

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
12.96	671.4	0.3184	0.1961	0.04417	0.09709	0.3336	0.2740										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2586	0.7376	0.2027	0.02036	0.2989	0.9533											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.4334	0.1832	0.007112	0.44820	0.0001287	0.1539											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1539	0	0.1157	0.1079	0.2430	0.005459	0.003851	0.3376	0.03258

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
13.04	672.3	0.3160	0.1947	0.04438	0.09744	0.3332	0.2748										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2592	0.7353	0.2035	0.02069	0.2969	0.9507											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.4234	0.1802	0.007166	0.44620	0.0001227	0.1522											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1522	0	0.1175	0.1085	0.2428	0.005408	0.003880	0.3371	0.03271

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
13.12	673.2	0.3138	0.1934	0.04458	0.09779	0.3329	0.2755										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2598	0.7331	0.2043	0.02104	0.2950	0.9482											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.4143	0.1773	0.007223	0.44420	0.0001172	0.1505											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1505	0	0.1192	0.1090	0.2426	0.005356	0.003908	0.3366	0.03283

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
13.20	674.1	0.3116	0.1920	0.04476	0.09813	0.3325	0.2763										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2604	0.7309	0.2053	0.02141	0.2933	0.9457											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.4059	0.1744	0.007282	0.44230	0.0001124	0.1489											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1489	0	0.1208	0.1096	0.2423	0.005304	0.003935	0.3362	0.03294

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.28 675.0 0.3096 0.1906 0.04494 0.09847 0.3322 0.2771
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2610 0.7289 0.2063 0.02179 0.2916 0.9433
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3982 0.1715 0.007343 0.44050.0001080 0.1474

mode bi ep g mu pl ilm ru q H2O
0.1474 0 0.1224 0.1102 0.2420 0.005250 0.003962 0.3358 0.03303

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.36 675.8 0.3076 0.1893 0.04511 0.09880 0.3319 0.2779
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2616 0.7270 0.2073 0.02219 0.2900 0.9410
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3912 0.1686 0.007405 0.43870.0001040 0.1460

mode bi ep g mu pl ilm ru q H2O
0.1460 0 0.1239 0.1108 0.2416 0.005197 0.003988 0.3354 0.03311

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.44 676.7 0.3057 0.1879 0.04527 0.09913 0.3316 0.2787
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2622 0.7251 0.2084 0.02259 0.2884 0.9388
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3847 0.1658 0.007467 0.43700.0001003 0.1446

mode bi ep g mu pl ilm ru q H2O
0.1446 0 0.1254 0.1115 0.2411 0.005142 0.004013 0.3350 0.03318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.52 677.5 0.3039 0.1865 0.04542 0.09944 0.3313 0.2795
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2628 0.7233 0.2096 0.02302 0.2869 0.9366
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3788 0.1629 0.007529 0.4353 9.695e-5 0.1432

mode bi ep g mu pl ilm ru q H2O
0.1432 0 0.1269 0.1122 0.2407 0.005086 0.004039 0.3347 0.03324

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.60 678.3 0.3022 0.1850 0.04556 0.09975 0.3311 0.2803
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2634 0.7216 0.2108 0.02345 0.2855 0.9345
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3734 0.1601 0.007591 0.4336 9.386e-5 0.1419

mode bi ep g mu pl ilm ru q H2O
0.1419 0 0.1283 0.1129 0.2401 0.005030 0.004064 0.3344 0.03329

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
13.68	679.1	0.3005	0.1836	0.04568	0.1000	0.3309	0.2811		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2640	0.7199	0.2121	0.02389	0.2841	0.9324			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.3685	0.1573	0.007651	0.4320	9.099e-5	0.1407			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1407	0	0.1297	0.1136	0.2396	0.004973	0.004088	0.3341	0.03333

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
13.76	679.8	0.2989	0.1821	0.04580	0.1003	0.3307	0.2820		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2647	0.7184	0.2133	0.02435	0.2828	0.9304			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.3641	0.1544	0.007710	0.4303	8.833e-5	0.1394			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1394	0	0.1310	0.1144	0.2390	0.004915	0.004112	0.3338	0.03336

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
13.84	680.5	0.2973	0.1806	0.04591	0.1006	0.3306	0.2828		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2653	0.7168	0.2147	0.02482	0.2815	0.9285			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.3601	0.1516	0.007767	0.4288	8.585e-5	0.1382			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1382	0	0.1324	0.1152	0.2383	0.004856	0.004137	0.3335	0.03338

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
13.92	681.2	0.2958	0.1790	0.04601	0.1009	0.3305	0.2836		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2659	0.7154	0.2160	0.02529	0.2803	0.9266			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.3565	0.1488	0.007822	0.4272	8.354e-5	0.1371			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1371	0	0.1337	0.1160	0.2376	0.004796	0.004161	0.3332	0.03339

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
14.00	681.9	0.2944	0.1775	0.04610	0.1011	0.3304	0.2844		
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
	0.2665	0.7140	0.2174	0.02578	0.2791	0.9248			
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
	0.3533	0.1459	0.007874	0.4256	8.137e-5	0.1360			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1360	0	0.1350	0.1168	0.2369	0.004736	0.004185	0.3330	0.03340

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
14.08	682.5	0.2930	0.1759	0.04618	0.1013	0.3304	0.2852										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2672	0.7127	0.2188	0.02627	0.2779	0.9230											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.3505	0.1431	0.007923	0.4241	7.933e-5	0.1349											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1349	0	0.1362	0.1177	0.2362	0.004675	0.004208	0.3327	0.03340

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
14.16	683.0	0.2916	0.1742	0.04625	0.1016	0.3304	0.2861										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2678	0.7114	0.2202	0.02678	0.2768	0.9213											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.3481	0.1403	0.007969	0.4226	7.742e-5	0.1339											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1339	0	0.1374	0.1186	0.2354	0.004613	0.004232	0.3325	0.03339

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
14.24	683.5	0.2903	0.1726	0.04631	0.1018	0.3305	0.2869										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2684	0.7102	0.2216	0.02729	0.2757	0.9197											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.3460	0.1374	0.008011	0.4211	7.561e-5	0.1329											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1329	0	0.1386	0.1194	0.2346	0.004551	0.004255	0.3323	0.03337

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
14.32	684.0	0.2890	0.1709	0.04635	0.1020	0.3306	0.2877										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2691	0.7090	0.2231	0.02781	0.2747	0.9181											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.3443	0.1346	0.008050	0.4196	7.391e-5	0.1319											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1319	0	0.1398	0.1203	0.2338	0.004488	0.004278	0.3321	0.03334

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)										
14.40	684.4	0.2878	0.1691	0.04639	0.1021	0.3308	0.2885										
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)											
	0.2697	0.7079	0.2246	0.02834	0.2736	0.9166											
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi											
	0.3429	0.1317	0.008084	0.4181	7.231e-5	0.1309											
								mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
									0.1309	0	0.1409	0.1213	0.2329	0.004424	0.004301	0.3319	0.03331

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.48	684.8	0.2867	0.1674	0.04642	0.1023	0.3310	0.2894			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.2703	0.7069	0.2261	0.02888	0.2726	0.9152			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.3418	0.1289	0.008114	0.4167	7.079e-5	0.1300			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1300	0	0.1420	0.1222	0.2320	0.004360	0.004324	0.3318	0.03327

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.56	685.2	0.2855	0.1656	0.04643	0.1024	0.3313	0.2902			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.2710	0.7060	0.2276	0.02942	0.2717	0.9138			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.3411	0.1261	0.008140	0.4152	6.936e-5	0.1292			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1292	0	0.1431	0.1232	0.2311	0.004295	0.004347	0.3316	0.03322

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.64	685.5	0.2845	0.1637	0.04643	0.1025	0.3316	0.2910			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.2716	0.7051	0.2291	0.02998	0.2707	0.9125			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.3407	0.1232	0.008161	0.4138	6.800e-5	0.1284			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1284	0	0.1441	0.1241	0.2301	0.004230	0.004370	0.3315	0.03317

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.72	685.7	0.2835	0.1619	0.04642	0.1026	0.3320	0.2919			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.2723	0.7043	0.2307	0.03054	0.2698	0.9112			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.3407	0.1204	0.008178	0.4124	6.671e-5	0.1276			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1276	0	0.1451	0.1251	0.2291	0.004164	0.004392	0.3313	0.03311

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.80	685.9	0.2825	0.1600	0.04639	0.1027	0.3324	0.2927			
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)			
		0.2729	0.7036	0.2323	0.03111	0.2690	0.9101			
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi			
		0.3409	0.1176	0.008190	0.4110	6.549e-5	0.1269			

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1269	0	0.1461	0.1261	0.2281	0.004097	0.004414	0.3312	0.03303


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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.88    686.0  0.2816  0.1580  0.04635  0.1028  0.3329  0.2935
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2736  0.7029  0.2339  0.03169  0.2681  0.9090
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.3416  0.1148  0.008197  0.4096  6.434e-5  0.1262

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.1262   0    0.1470  0.1272  0.2271  0.004030  0.004436  0.3311  0.03295

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.96    686.1  0.2808  0.1560  0.04630  0.1028  0.3334  0.2944
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2742  0.7024  0.2356  0.03228  0.2674  0.9080
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.3426  0.1120  0.008199  0.4083  6.325e-5  0.1255

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.1255   0    0.1479  0.1282  0.2260  0.003962  0.004457  0.3311  0.03287

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.00    686.1  0.2803  0.1550  0.04627  0.1028  0.3337  0.2948
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2746  0.7021  0.2364  0.03259  0.2670  0.9075
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.3433  0.1106  0.008198  0.4076  6.273e-5  0.1252

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.1252   0    0.1484  0.1287  0.2254  0.003928  0.004467  0.3310  0.03282

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2   O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

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<=====>

phases : bi, ep, g, mu, pl, ilm, q, H2O

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
6.00     531.2  0.4510  0.1214  0.02630  0.04133  0.4643  0.2621
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2555  0.8650  0.1333  0.004949  0.3743  0.9998
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9877  0.37180  0.006276  0.7800  0.7299  0.2367

mode     bi    ep    g    mu    pl    ilm    q    H2O
0.2367   0    0.01044  0.1352  0.2209  0.01565  0.3641  0.01697

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
6.08     533.3  0.4504  0.1237  0.02653  0.04198  0.4615  0.2616

```

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2550 0.8641 0.1341 0.005034 0.3745 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9873 0.37070.0006570 0.7798 0.7291 0.2365

mode bi ep g mu pl ilm q H2O
0.2365 0 0.01085 0.1346 0.2212 0.01560 0.3641 0.01710

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.16 535.3 0.4499 0.1261 0.02676 0.04263 0.4587 0.2612
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2545 0.8632 0.1349 0.005120 0.3747 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9868 0.36960.0006875 0.7796 0.7283 0.2364

mode bi ep g mu pl ilm q H2O
0.2364 0 0.01125 0.1340 0.2216 0.01556 0.3640 0.01723

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.24 537.3 0.4493 0.1284 0.02699 0.04328 0.4560 0.2608
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2540 0.8623 0.1356 0.005207 0.3749 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9864 0.36850.0007192 0.7794 0.7276 0.2362

mode bi ep g mu pl ilm q H2O
0.2362 0 0.01166 0.1334 0.2219 0.01551 0.3640 0.01737

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.32 539.3 0.4488 0.1308 0.02721 0.04394 0.4532 0.2603
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2535 0.8615 0.1364 0.005295 0.3751 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9859 0.36750.0007521 0.7792 0.7268 0.2360

mode bi ep g mu pl ilm q H2O
0.2360 0 0.01208 0.1327 0.2223 0.01546 0.3639 0.01750

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.40 541.4 0.4482 0.1332 0.02743 0.04460 0.4504 0.2599
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2530 0.8606 0.1372 0.005385 0.3753 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9854 0.36640.0007863 0.7790 0.7260 0.2358

mode bi ep g mu pl ilm q H2O
0.2358 0 0.01250 0.1321 0.2226 0.01541 0.3639 0.01764

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.48 543.4 0.4476 0.1356 0.02765 0.04527 0.4476 0.2595

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2526 0.8597 0.1380 0.005476 0.3755 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9848 0.36530.0008217 0.7788 0.7251 0.2356

mode bi ep g mu pl ilm q H2O
0.2356 0 0.01292 0.1315 0.2230 0.01536 0.3638 0.01777

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.56 545.4 0.4471 0.1380 0.02787 0.04594 0.4449 0.2591
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2521 0.8588 0.1388 0.005568 0.3756 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9843 0.36420.0008584 0.7786 0.7243 0.2354

mode bi ep g mu pl ilm q H2O
0.2354 0 0.01335 0.1309 0.2233 0.01531 0.3638 0.01791

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.64 547.4 0.4465 0.1404 0.02808 0.04662 0.4421 0.2586
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2516 0.8579 0.1395 0.005662 0.3758 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9837 0.36310.0008964 0.7783 0.7234 0.2352

mode bi ep g mu pl ilm q H2O
0.2352 0 0.01378 0.1302 0.2237 0.01526 0.3637 0.01805

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.72 549.4 0.4459 0.1429 0.02829 0.04730 0.4394 0.2583
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2512 0.8570 0.1403 0.005757 0.3760 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9832 0.36190.0009359 0.7781 0.7226 0.2351

mode bi ep g mu pl ilm q H2O
0.2351 0 0.01422 0.1296 0.2240 0.01520 0.3637 0.01819

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.80 551.4 0.4453 0.1453 0.02850 0.04799 0.4366 0.2579
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2508 0.8561 0.1411 0.005853 0.3761 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9826 0.36080.0009767 0.7778 0.7217 0.2349

mode bi ep g mu pl ilm q H2O
0.2349 0 0.01466 0.1290 0.2244 0.01515 0.3637 0.01832

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.88 553.4 0.4447 0.1477 0.02870 0.04868 0.4338 0.2575

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2503 0.8552 0.1420 0.005951 0.3763 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9820 0.3597 0.001019 0.7776 0.7208 0.2347

mode bi ep g mu pl ilm q H2O
0.2347 0 0.01511 0.1284 0.2247 0.01510 0.3636 0.01846

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.96 555.4 0.4441 0.1502 0.02890 0.04937 0.4311 0.2571
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2499 0.8543 0.1428 0.006051 0.3764 0.9997
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9813 0.3586 0.001063 0.7773 0.7199 0.2345

mode bi ep g mu pl ilm q H2O
0.2345 0 0.01555 0.1277 0.2251 0.01505 0.3636 0.01860

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.04 557.4 0.4436 0.1526 0.02910 0.05007 0.4284 0.2567
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2495 0.8535 0.1436 0.006151 0.3765 0.9996
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9807 0.3574 0.001108 0.7770 0.7190 0.2342

mode bi ep g mu pl ilm q H2O
0.2342 0 0.01601 0.1271 0.2254 0.01500 0.3635 0.01874

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.12 559.4 0.4430 0.1550 0.02929 0.05078 0.4256 0.2564
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2491 0.8526 0.1444 0.006254 0.3766 0.9996
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9800 0.3563 0.001155 0.7767 0.7180 0.2340

mode bi ep g mu pl ilm q H2O
0.2340 0 0.01647 0.1265 0.2257 0.01495 0.3635 0.01888

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.20 561.4 0.4424 0.1575 0.02949 0.05149 0.4229 0.2560
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2487 0.8517 0.1452 0.006358 0.3768 0.9996
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9793 0.3551 0.001203 0.7764 0.7171 0.2338

mode bi ep g mu pl ilm q H2O
0.2338 0 0.01693 0.1258 0.2261 0.01490 0.3634 0.01902

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.28 563.4 0.4418 0.1599 0.02967 0.05220 0.4202 0.2557

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2483 0.8508 0.1461 0.006463 0.3769 0.9996
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9786 0.3540 0.001254 0.7761 0.7161 0.2336

mode bi ep g mu pl ilm q H2O
0.2336 0 0.01739 0.1252 0.2264 0.01485 0.3633 0.01916

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.36 565.3 0.4411 0.1624 0.02986 0.05292 0.4175 0.2554
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2479 0.8499 0.1469 0.006570 0.3770 0.9996
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9779 0.3528 0.001305 0.7758 0.7151 0.2334

mode bi ep g mu pl ilm q H2O
0.2334 0 0.01787 0.1246 0.2268 0.01480 0.3633 0.01930

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.44 567.3 0.4405 0.1648 0.03004 0.05364 0.4148 0.2550
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2475 0.8490 0.1478 0.006679 0.3771 0.9996
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9771 0.3517 0.001359 0.7755 0.7141 0.2332

mode bi ep g mu pl ilm q H2O
0.2332 0 0.01834 0.1240 0.2271 0.01475 0.3632 0.01944

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.52 569.3 0.4399 0.1673 0.03022 0.05436 0.4121 0.2547
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2471 0.8481 0.1486 0.006789 0.3772 0.9996
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9763 0.3505 0.001414 0.7752 0.7131 0.2329

mode bi ep g mu pl ilm q H2O
0.2329 0 0.01882 0.1234 0.2274 0.01470 0.3632 0.01958

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.60 571.3 0.4393 0.1697 0.03040 0.05509 0.4095 0.2544
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2467 0.8472 0.1495 0.006901 0.3773 0.9996
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9755 0.3493 0.001472 0.7748 0.7120 0.2327

mode bi ep g mu pl ilm q H2O
0.2327 0 0.01930 0.1227 0.2278 0.01464 0.3631 0.01972

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.68 573.2 0.4387 0.1722 0.03058 0.05583 0.4068 0.2541

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2464 0.8463 0.1503 0.007015 0.3774 0.9996
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9747 0.3482 0.001531 0.7745 0.7110 0.2325

mode bi ep g mu pl ilm q H2O
0.2325 0 0.01979 0.1221 0.2281 0.01459 0.3631 0.01986

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.76 575.2 0.4380 0.1746 0.03075 0.05656 0.4041 0.2538
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2460 0.8454 0.1512 0.007131 0.3774 0.9995
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9738 0.3470 0.001592 0.7741 0.7099 0.2322

mode bi ep g mu pl ilm q H2O
0.2322 0 0.02028 0.1215 0.2284 0.01454 0.3630 0.02001

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.84 577.2 0.4374 0.1770 0.03092 0.05731 0.4015 0.2535
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2457 0.8445 0.1521 0.007248 0.3775 0.9995
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9729 0.3458 0.001654 0.7737 0.7088 0.2320

mode bi ep g mu pl ilm q H2O
0.2320 0 0.02078 0.1209 0.2287 0.01449 0.3630 0.02015

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.92 579.1 0.4368 0.1794 0.03108 0.05805 0.3989 0.2532
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2453 0.8436 0.1530 0.007367 0.3776 0.9995
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9720 0.3446 0.001719 0.7734 0.7078 0.2317

mode bi ep g mu pl ilm q H2O
0.2317 0 0.02128 0.1203 0.2290 0.01444 0.3629 0.02029

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.00 581.1 0.4361 0.1819 0.03124 0.05880 0.3963 0.2530
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2450 0.8427 0.1539 0.007488 0.3776 0.9995
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9711 0.3434 0.001786 0.7730 0.7066 0.2315

mode bi ep g mu pl ilm q H2O
0.2315 0 0.02179 0.1197 0.2294 0.01439 0.3628 0.02043

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.08 583.0 0.4355 0.1843 0.03140 0.05955 0.3937 0.2527

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2447 0.8418 0.1548 0.007611 0.3777 0.9995
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9701 0.3422 0.001855 0.7726 0.7055 0.2312

mode bi ep g mu pl ilm q H2O
0.2312 0 0.02230 0.1191 0.2297 0.01434 0.3628 0.02057

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.16 585.0 0.4348 0.1867 0.03156 0.06031 0.3911 0.2524
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2443 0.8409 0.1557 0.007735 0.3778 0.9995
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9691 0.3410 0.001927 0.7722 0.7044 0.2310

mode bi ep g mu pl ilm q H2O
0.2310 0 0.02282 0.1185 0.2300 0.01428 0.3627 0.02071

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.24 586.9 0.4342 0.1890 0.03172 0.06107 0.3886 0.2522
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2440 0.8400 0.1566 0.007862 0.3778 0.9995
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9680 0.3398 0.002000 0.7718 0.7032 0.2307

mode bi ep g mu pl ilm q H2O
0.2307 0 0.02334 0.1179 0.2303 0.01423 0.3626 0.02085

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.32 588.9 0.4335 0.1914 0.03187 0.06183 0.3860 0.2519
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2437 0.8391 0.1575 0.007991 0.3778 0.9994
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9670 0.3386 0.002076 0.7714 0.7021 0.2304

mode bi ep g mu pl ilm q H2O
0.2304 0 0.02386 0.1174 0.2306 0.01418 0.3626 0.02099

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.40 590.8 0.4329 0.1938 0.03202 0.06260 0.3835 0.2517
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2434 0.8382 0.1584 0.008121 0.3779 0.9994
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9658 0.3374 0.002153 0.7710 0.7009 0.2302

mode bi ep g mu pl ilm q H2O
0.2302 0 0.02440 0.1168 0.2309 0.01413 0.3625 0.02113

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.48 592.8 0.4322 0.1961 0.03216 0.06337 0.3810 0.2515

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2431 0.8373 0.1593 0.008254 0.3779 0.9994
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9647 0.3361 0.002234 0.7705 0.6997 0.2299

mode bi ep g mu pl ilm q H2O
0.2299 0 0.02493 0.1162 0.2312 0.01408 0.3624 0.02128

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.56 594.7 0.4315 0.1984 0.03231 0.06415 0.3785 0.2512
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2428 0.8364 0.1603 0.008389 0.3779 0.9994
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9635 0.3349 0.002316 0.7701 0.6985 0.2296

mode bi ep g mu pl ilm q H2O
0.2296 0 0.02548 0.1156 0.2315 0.01403 0.3624 0.02142

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.64 596.6 0.4308 0.2007 0.03245 0.06493 0.3761 0.2510
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2425 0.8355 0.1612 0.008526 0.3779 0.9994
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9622 0.3337 0.002401 0.7697 0.6973 0.2293

mode bi ep g mu pl ilm q H2O
0.2293 0 0.02602 0.1151 0.2317 0.01398 0.3623 0.02156

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.72 598.5 0.4301 0.2030 0.03259 0.06571 0.3736 0.2508
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2423 0.8346 0.1622 0.008665 0.3779 0.9993
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9609 0.3324 0.002489 0.7692 0.6961 0.2290

mode bi ep g mu pl ilm q H2O
0.2290 0 0.02658 0.1145 0.2320 0.01392 0.3622 0.02170

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.80 600.5 0.4295 0.2053 0.03273 0.06649 0.3712 0.2506
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2420 0.8337 0.1631 0.008806 0.3779 0.9993
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9596 0.3312 0.002579 0.7688 0.6948 0.2287

mode bi ep g mu pl ilm q H2O
0.2287 0 0.02714 0.1140 0.2323 0.01387 0.3621 0.02184

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.88 602.4 0.4287 0.2075 0.03286 0.06728 0.3688 0.2504

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2417 0.8328 0.1641 0.008950 0.3779 0.9993
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9582 0.3299 0.002672 0.7683 0.6936 0.2284

mode bi ep g mu pl ilm q H2O
0.2284 0 0.02771 0.1134 0.2326 0.01382 0.3621 0.02198

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.96 604.3 0.4280 0.2097 0.03299 0.06807 0.3664 0.2502
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2415 0.8318 0.1651 0.009096 0.3779 0.9993
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9567 0.3286 0.002767 0.7679 0.6923 0.2281

mode bi ep g mu pl ilm q H2O
0.2281 0 0.02828 0.1129 0.2328 0.01377 0.3620 0.02212

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.04 606.2 0.4273 0.2119 0.03312 0.06886 0.3641 0.2500
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2412 0.8309 0.1660 0.009245 0.3779 0.9993
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9552 0.3274 0.002865 0.7674 0.6910 0.2278

mode bi ep g mu pl ilm q H2O
0.2278 0 0.02886 0.1124 0.2331 0.01372 0.3619 0.02226

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.12 608.1 0.4266 0.2141 0.03325 0.06966 0.3617 0.2499
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2410 0.8300 0.1670 0.009396 0.3778 0.9992
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9537 0.3261 0.002965 0.7670 0.6898 0.2274

mode bi ep g mu pl ilm q H2O
0.2274 0 0.02945 0.1119 0.2333 0.01367 0.3618 0.02239

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.20 610.0 0.4259 0.2162 0.03338 0.07046 0.3595 0.2497
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2407 0.8291 0.1680 0.009549 0.3778 0.9992
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9520 0.3248 0.003069 0.7665 0.6885 0.2271

mode bi ep g mu pl ilm q H2O
0.2271 0 0.03004 0.1114 0.2336 0.01362 0.3617 0.02253

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.28 611.9 0.4251 0.2183 0.03350 0.07126 0.3572 0.2495

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2405 0.8282 0.1690 0.009705 0.3777 0.9992
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9503 0.3235 0.003175 0.7660 0.6872 0.2268

mode bi ep g mu pl ilm q H2O
0.2268 0 0.03065 0.1109 0.2338 0.01357 0.3617 0.02267

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.36 613.8 0.4244 0.2204 0.03362 0.07207 0.3549 0.2494
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2403 0.8272 0.1701 0.009864 0.3777 0.9991
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9485 0.3222 0.003284 0.7656 0.6859 0.2264

mode bi ep g mu pl ilm q H2O
0.2264 0 0.03126 0.1104 0.2341 0.01352 0.3616 0.02281

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.44 615.7 0.4236 0.2225 0.03374 0.07287 0.3527 0.2492
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2401 0.8263 0.1711 0.01003 0.3776 0.9991
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9467 0.3208 0.003396 0.7651 0.6846 0.2260

mode bi ep g mu pl ilm q H2O
0.2260 0 0.03188 0.1099 0.2343 0.01347 0.3615 0.02295

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.52 617.6 0.4228 0.2245 0.03386 0.07368 0.3506 0.2491
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2398 0.8254 0.1721 0.01019 0.3775 0.9991
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9448 0.3195 0.003510 0.7646 0.6833 0.2257

mode bi ep g mu pl ilm q H2O
0.2257 0 0.03251 0.1094 0.2345 0.01342 0.3614 0.02309

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 619.5 0.4220 0.2265 0.03398 0.07450 0.3484 0.2490
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2396 0.8244 0.1732 0.01036 0.3774 0.9990
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9427 0.3182 0.003628 0.7641 0.6819 0.2253

mode bi ep g mu pl ilm q H2O
0.2253 0 0.03315 0.1090 0.2348 0.01337 0.3613 0.02322

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.68 621.4 0.4212 0.2284 0.03409 0.07531 0.3463 0.2488

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2394 0.8235 0.1742 0.01053 0.3773 0.9990
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9406 0.3168 0.003748 0.7637 0.6806 0.2249

mode bi ep g mu pl ilm q H2O
0.2249 0 0.03380 0.1085 0.2350 0.01332 0.3612 0.02336

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.76 623.2 0.4204 0.2303 0.03420 0.07613 0.3442 0.2487
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2392 0.8225 0.1753 0.01070 0.3771 0.9990
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9384 0.3154 0.003872 0.7632 0.6793 0.2245

mode bi ep g mu pl ilm q H2O
0.2245 0 0.03446 0.1081 0.2352 0.01327 0.3611 0.02350

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.84 625.1 0.4195 0.2321 0.03431 0.07695 0.3422 0.2486
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2391 0.8216 0.1764 0.01088 0.3770 0.9989
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9360 0.3140 0.003998 0.7627 0.6780 0.2240

mode bi ep g mu pl ilm q H2O
0.2240 0 0.03514 0.1076 0.2354 0.01322 0.3610 0.02363

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.92 627.0 0.4187 0.2339 0.03442 0.07777 0.3402 0.2485
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2389 0.8206 0.1774 0.01106 0.3768 0.9989
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9336 0.3126 0.004128 0.7623 0.6766 0.2236

mode bi ep g mu pl ilm q H2O
0.2236 0 0.03582 0.1072 0.2356 0.01317 0.3608 0.02377

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 628.8 0.4178 0.2357 0.03453 0.07859 0.3382 0.2484
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2387 0.8197 0.1785 0.01124 0.3766 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9310 0.3112 0.004260 0.7618 0.6753 0.2231

mode bi ep g mu pl ilm q H2O
0.2231 0 0.03653 0.1068 0.2357 0.01312 0.3607 0.02391

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.08 630.7 0.4169 0.2374 0.03464 0.07942 0.3363 0.2483

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2386 0.8187 0.1796 0.01143 0.3764 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9282 0.3097 0.004395 0.7614 0.6740 0.2227

mode bi ep g mu pl ilm q H2O
0.2227 0 0.03724 0.1064 0.2359 0.01307 0.3606 0.02404

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.16 632.5 0.4159 0.2390 0.03474 0.08024 0.3345 0.2483
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2384 0.8177 0.1808 0.01162 0.3762 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9253 0.3082 0.004533 0.7610 0.6727 0.2222

mode bi ep g mu pl ilm q H2O
0.2222 0 0.03798 0.1061 0.2361 0.01303 0.3605 0.02418

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.24 634.3 0.4150 0.2406 0.03485 0.08107 0.3326 0.2482
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2383 0.8167 0.1819 0.01181 0.3759 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9223 0.3067 0.004674 0.7605 0.6714 0.2217

mode bi ep g mu pl ilm q H2O
0.2217 0 0.03873 0.1057 0.2363 0.01298 0.3603 0.02432

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.32 636.2 0.4140 0.2421 0.03495 0.08190 0.3309 0.2481
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2381 0.8157 0.1830 0.01201 0.3756 0.9986
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9190 0.3052 0.004817 0.7601 0.6701 0.2211

mode bi ep g mu pl ilm q H2O
0.2211 0 0.03951 0.1054 0.2364 0.01293 0.3602 0.02445

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.40 638.0 0.4130 0.2435 0.03505 0.08273 0.3292 0.2481
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2380 0.8146 0.1842 0.01221 0.3753 0.9986
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9155 0.3036 0.004963 0.7597 0.6689 0.2206

mode bi ep g mu pl ilm q H2O
0.2206 0 0.04031 0.1051 0.2366 0.01289 0.3600 0.02459

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.48 639.8 0.4119 0.2449 0.03516 0.08356 0.3275 0.2481

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2379 0.8136 0.1854 0.01242 0.3749 0.9985
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9118 0.3020 0.005112 0.7594 0.6677 0.2200

mode bi ep g mu pl ilm q H2O
0.2200 0 0.04113 0.1048 0.2367 0.01284 0.3599 0.02473

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.56 641.6 0.4108 0.2461 0.03526 0.08439 0.3260 0.2480
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2377 0.8125 0.1865 0.01263 0.3745 0.9984
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9079 0.3003 0.005262 0.7590 0.6665 0.2193

mode bi ep g mu pl ilm q H2O
0.2193 0 0.04198 0.1045 0.2368 0.01280 0.3597 0.02486

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.64 643.3 0.4096 0.2473 0.03536 0.08522 0.3245 0.2480
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2376 0.8114 0.1877 0.01284 0.3741 0.9983
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9036 0.2986 0.005415 0.7587 0.6653 0.2187

mode bi ep g mu pl ilm q H2O
0.2187 0 0.04287 0.1042 0.2369 0.01276 0.3595 0.02500

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.72 645.1 0.4084 0.2483 0.03546 0.08605 0.3230 0.2480
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2375 0.8103 0.1890 0.01306 0.3735 0.9982
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8990 0.2969 0.005569 0.7584 0.6642 0.2180

mode bi ep g mu pl ilm q H2O
0.2180 0 0.04379 0.1040 0.2370 0.01271 0.3593 0.02514

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.80 646.8 0.4071 0.2493 0.03556 0.08688 0.3217 0.2480
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2375 0.8091 0.1902 0.01328 0.3730 0.9981
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8940 0.2950 0.005724 0.7581 0.6631 0.2172

mode bi ep g mu pl ilm q H2O
0.2172 0 0.04475 0.1038 0.2371 0.01267 0.3591 0.02528

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.88 648.5 0.4057 0.2500 0.03566 0.08771 0.3205 0.2480

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2374 0.8079 0.1914 0.01351 0.3723 0.9980
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8886 0.2931 0.005880 0.7579 0.6621 0.2164

mode bi ep g mu pl ilm q H2O
0.2164 0 0.04576 0.1036 0.2372 0.01264 0.3589 0.02543

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.96 650.2 0.4042 0.2507 0.03576 0.08853 0.3193 0.2480
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2373 0.8067 0.1927 0.01375 0.3716 0.9979
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8827 0.2911 0.006036 0.7577 0.6611 0.2155

mode bi ep g mu pl ilm q H2O
0.2155 0 0.04682 0.1035 0.2373 0.01260 0.3587 0.02557

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.04 651.9 0.4026 0.2511 0.03587 0.08935 0.3183 0.2481
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2373 0.8054 0.1939 0.01399 0.3707 0.9977
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8762 0.2891 0.006190 0.7576 0.6603 0.2146

mode bi ep g mu pl ilm q H2O
0.2146 0 0.04795 0.1034 0.2374 0.01256 0.3584 0.02572

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.12 653.5 0.4009 0.2514 0.03597 0.09017 0.3175 0.2481
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2372 0.8040 0.1952 0.01423 0.3697 0.9975
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8690 0.2869 0.006342 0.7576 0.6595 0.2135

mode bi ep g mu pl ilm q H2O
0.2135 0 0.04915 0.1033 0.2375 0.01253 0.3581 0.02588

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.20 655.1 0.3990 0.2514 0.03608 0.09098 0.3168 0.2482
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2372 0.8025 0.1965 0.01448 0.3686 0.9973
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8609 0.2845 0.006490 0.7576 0.6589 0.2124

mode bi ep g mu pl ilm q H2O
0.2124 0 0.05045 0.1033 0.2375 0.01251 0.3578 0.02604

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.28 656.7 0.3970 0.2512 0.03618 0.09178 0.3163 0.2483

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2372 0.8009 0.1978 0.01473 0.3673 0.9971
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8520 0.2820 0.006632 0.7577 0.6585 0.2111

mode bi ep g mu pl ilm q H2O
0.2111 0 0.05185 0.1034 0.2376 0.01248 0.3574 0.02620

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.36 658.1 0.3947 0.2506 0.03629 0.09257 0.3160 0.2484
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2372 0.7992 0.1991 0.01499 0.3657 0.9968
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8418 0.2793 0.006766 0.7580 0.6582 0.2097

mode bi ep g mu pl ilm q H2O
0.2097 0 0.05339 0.1034 0.2376 0.01246 0.3570 0.02638

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.44 659.5 0.3921 0.2497 0.03641 0.09334 0.3160 0.2485
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2373 0.7973 0.2003 0.01525 0.3638 0.9964
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8302 0.2763 0.006888 0.7584 0.6581 0.2081

mode bi ep g mu pl ilm q H2O
0.2081 0 0.05508 0.1036 0.2377 0.01245 0.3566 0.02656

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.52 660.8 0.3891 0.2483 0.03652 0.09410 0.3163 0.2486
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2373 0.7952 0.2016 0.01551 0.3616 0.9960
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8169 0.2730 0.006993 0.7589 0.6584 0.2062

mode bi ep g mu pl ilm q H2O
0.2062 0 0.05696 0.1038 0.2377 0.01244 0.3560 0.02677

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.60 662.0 0.3858 0.2464 0.03665 0.09482 0.3169 0.2488
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2374 0.7929 0.2028 0.01577 0.3590 0.9954
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8017 0.2694 0.007077 0.7597 0.6589 0.2041

mode bi ep g mu pl ilm q H2O
0.2041 0 0.05907 0.1042 0.2378 0.01245 0.3554 0.02699

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.68 663.0 0.3819 0.2440 0.03677 0.09552 0.3179 0.2489

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2374 0.7902 0.2039 0.01602 0.3559 0.9947
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7843 0.2654 0.007136 0.7606 0.6598 0.2017

mode bi ep g mu pl ilm q H2O
 0.2017 0 0.06143 0.1045 0.2379 0.01246 0.3547 0.02723

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.76 663.9 0.3776 0.2411 0.03690 0.09619 0.3192 0.2491
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2375 0.7872 0.2048 0.01626 0.3522 0.9939
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7646 0.2609 0.007165 0.7618 0.6611 0.1990

mode bi ep g mu pl ilm q H2O
 0.1990 0 0.06405 0.1050 0.2380 0.01249 0.3539 0.02750

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.84 664.6 0.3728 0.2378 0.03702 0.09682 0.3207 0.2492
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2376 0.7838 0.2057 0.01647 0.3481 0.9928
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7430 0.2562 0.007165 0.7631 0.6626 0.1960

mode bi ep g mu pl ilm q H2O
 0.1960 0 0.06690 0.1055 0.2382 0.01252 0.3530 0.02780

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.92 665.2 0.3677 0.2342 0.03715 0.09743 0.3223 0.2493
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2377 0.7801 0.2063 0.01666 0.3436 0.9915
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7201 0.2512 0.007141 0.7646 0.6644 0.1928

mode bi ep g mu pl ilm q H2O
 0.1928 0 0.06990 0.1061 0.2384 0.01257 0.3521 0.02811

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.00 665.7 0.3624 0.2306 0.03726 0.09801 0.3239 0.2494
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2377 0.7763 0.2068 0.01683 0.3389 0.9899
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.6967 0.2461 0.007102 0.7661 0.6662 0.1896

mode bi ep g mu pl ilm q H2O
 0.1896 0 0.07297 0.1066 0.2387 0.01262 0.3511 0.02843

calcs use:

composition (from script)


```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.97 668.3 0.04974 0.1914 0.9059 0.0067090.0007154 0.6585
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7505 0.3371 0.2301 0.04260 0.09537 0.3201
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7432 0.1528 0.01157 0.3145 0.9625 0.4345
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2240 0.006575 0.47390.0002700 0 0.1651

mode liq bi g mu pl ilm ru ky q H2O
0 0.1651 0.09916 0.09150 0.2617 0.006407 0.003495 0 0.3388 0.03384
calcs use:

```

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.14 668.9 0.04886 0.1903 0.9068 0.0070770.0006922 0.6493
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7521 0.3248 0.2247 0.04397 0.09608 0.3202
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7367 0.1734 0.01454 0.3030 0.9626 0.4427
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2313 0.006344 0.46080.0001770 0.07909 0.1580

mode liq bi g mu pl ilm ru ky q H2O
0.07909 0.1580 0.1084 0.09511 0.2210 0.006025 0.003678 0 0.3287 0
calcs use:

```

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, mu, pl, ilm, ru, ky, q
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 667.5 0.04965 0.1892 0.9050 0.0070780.0006875 0.6526
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7524 0.3303 0.2279 0.04344 0.09539 0.3203
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7415 0.1712 0.01397 0.3077 0.9676 0.4699
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

```

0.2376 0.006248 0.46560.0002064 0.07824 0.1618

mode liq bi g mu pl ilm ru ky q
0.07824 0.1618 0.1046 0.09425 0.2216 0.006118 0.003613 0 0.3297

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.08 668.3 0.04920 0.1898 0.9060 0.0070760.0006900 0.6507
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7523 0.3272 0.2261 0.04374 0.09577 0.3203
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7388 0.1724 0.01429 0.3050 0.9649 0.4544
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2340 0.006298 0.46290.0001888 0.07872 0.1597

mode liq bi g mu pl ilm ru ky q
0.07872 0.1597 0.1068 0.09472 0.2213 0.006066 0.003650 0 0.3291

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.16 669.1 0.04878 0.1904 0.9069 0.0070780.0006928 0.6489
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7521 0.3242 0.2244 0.04402 0.09616 0.3202
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7362 0.1737 0.01460 0.3025 0.9621 0.4399
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2306 0.006356 0.46030.0001743 0.07918 0.1576

mode liq bi g mu pl ilm ru ky q
0.07918 0.1576 0.1088 0.09520 0.2209 0.006015 0.003684 0 0.3286

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.24 670.0 0.04837 0.1911 0.9077 0.0070840.0006957 0.6473
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7519 0.3215 0.2229 0.04430 0.09658 0.3200
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7337 0.1749 0.01492 0.3002 0.9594 0.4264
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2273 0.006421 0.45780.0001620 0.07963 0.1557

mode liq bi g mu pl ilm ru ky q
0.07963 0.1557 0.1108 0.09568 0.2206 0.005964 0.003717 0 0.3280

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.32 670.9 0.04798 0.1917 0.9084 0.0070920.0006990 0.6458
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7516 0.3188 0.2214 0.04457 0.09701 0.3196
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7312 0.1760 0.01524 0.2980 0.9566 0.4137
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2241 0.006493 0.45540.0001519 0.08007 0.1538

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.08007	0.1538	0.1126	0.09616	0.2202	0.005914	0.003747	0	0.3275		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
12.40	671.8	0.04760	0.1924	0.9090	0.0071030	0.0007025	0.6443				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7513	0.3163	0.2201	0.04483	0.09746	0.3192					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7288	0.1772	0.01556	0.2959	0.9539	0.4016					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2210	0.006571	0.45320	0.001426	0.08050	0.1520					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.08050	0.1520	0.1145	0.09664	0.2198	0.005865	0.003777	0	0.3270		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
12.48	672.8	0.04724	0.1931	0.9095	0.0071160	0.0007062	0.6430				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7509	0.3138	0.2188	0.04508	0.09792	0.3188					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7264	0.1783	0.01588	0.2939	0.9512	0.3901					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2179	0.006655	0.45100	0.001347	0.08093	0.1502					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.08093	0.1502	0.1163	0.09711	0.2194	0.005817	0.003805	0	0.3265		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
12.56	673.9	0.04690	0.1939	0.9100	0.0071320	0.0007103	0.6417				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7506	0.3114	0.2176	0.04533	0.09840	0.3182					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7241	0.1793	0.01619	0.2920	0.9484	0.3791					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2150	0.006746	0.44890	0.001277	0.08137	0.1485					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.08137	0.1485	0.1180	0.09757	0.2189	0.005769	0.003832	0	0.3260		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
12.64	675.0	0.04656	0.1946	0.9104	0.0071500	0.0007146	0.6405				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7501	0.3092	0.2165	0.04558	0.09889	0.3176					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.7218	0.1803	0.01650	0.2902	0.9457	0.3685					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.2121	0.006843	0.44690	0.001215	0.08180	0.1468					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.08180	0.1468	0.1197	0.09803	0.2185	0.005723	0.003858	0	0.3256		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.72 676.1 0.04624 0.1954 0.9107 0.0071710.0007193 0.6394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7497 0.3070 0.2155 0.04581 0.09941 0.3169
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7195 0.1812 0.01681 0.2884 0.9429 0.3583
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2092 0.006945 0.44490.0001160 0.08224 0.1451

mode liq bi g mu pl ilm ru ky q
0.08224 0.1451 0.1214 0.09848 0.2181 0.005677 0.003883 0 0.3251

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 677.3 0.04594 0.1962 0.9110 0.0071930.0007243 0.6383
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7491 0.3048 0.2145 0.04605 0.09993 0.3162
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7172 0.1820 0.01712 0.2868 0.9401 0.3485
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2065 0.007055 0.44310.0001111 0.08269 0.1435

mode liq bi g mu pl ilm ru ky q
0.08269 0.1435 0.1230 0.09892 0.2177 0.005632 0.003906 0 0.3247

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.88 678.5 0.04565 0.1970 0.9112 0.0072190.0007296 0.6373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7486 0.3028 0.2136 0.04628 0.1005 0.3154
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7149 0.1829 0.01742 0.2852 0.9374 0.3390
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2038 0.007170 0.44130.0001066 0.08314 0.1419

mode liq bi g mu pl ilm ru ky q
0.08314 0.1419 0.1246 0.09935 0.2173 0.005588 0.003929 0 0.3242

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.96 679.8 0.04537 0.1978 0.9113 0.0072470.0007353 0.6364
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7480 0.3008 0.2128 0.04651 0.1010 0.3145
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7127 0.1836 0.01772 0.2837 0.9346 0.3297
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2011 0.007293 0.43960.0001025 0.08361 0.1403

mode liq bi g mu pl ilm ru ky q
0.08361 0.1403 0.1262 0.09977 0.2169 0.005545 0.003951 0 0.3238

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.04 681.1 0.04511 0.1987 0.9114 0.0072780.0007413 0.6356
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7474 0.2988 0.2121 0.04673 0.1016 0.3136
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7104 0.1843 0.01801 0.2823 0.9318 0.3207
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1986 0.007423 0.4380 9.880e-5 0.08408 0.1388

mode liq bi g mu pl ilm ru ky q
 0.08408 0.1388 0.1277 0.1002 0.2165 0.005503 0.003972 0 0.3233

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.12 682.5 0.04486 0.1996 0.9115 0.0073120.0007478 0.6348
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7467 0.2970 0.2114 0.04695 0.1022 0.3126
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7082 0.1849 0.01830 0.2809 0.9289 0.3119
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1961 0.007560 0.4364 9.542e-5 0.08457 0.1373

mode liq bi g mu pl ilm ru ky q
 0.08457 0.1373 0.1292 0.1006 0.2161 0.005462 0.003993 0 0.3229

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 683.9 0.04462 0.2005 0.9115 0.0073490.0007547 0.6340
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7460 0.2951 0.2107 0.04717 0.1028 0.3116
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7059 0.1854 0.01858 0.2796 0.9261 0.3033
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1937 0.007706 0.4350 9.233e-5 0.08507 0.1358

mode liq bi g mu pl ilm ru ky q
 0.08507 0.1358 0.1306 0.1009 0.2157 0.005422 0.004012 0 0.3225

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.28 685.4 0.04441 0.2015 0.9114 0.0073900.0007620 0.6334
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7452 0.2934 0.2102 0.04739 0.1035 0.3105
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7037 0.1859 0.01886 0.2784 0.9233 0.2948
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1913 0.007861 0.4336 8.948e-5 0.08559 0.1343

mode liq bi g mu pl ilm ru ky q
 0.08559 0.1343 0.1321 0.1013 0.2153 0.005383 0.004031 0 0.3220

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.36 687.0 0.04420 0.2024 0.9112 0.0074350.0007699 0.6328
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7444 0.2916 0.2097 0.04760 0.1042 0.3094
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7015 0.1863 0.01913 0.2773 0.9204 0.2865
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1891 0.008025 0.4323 8.687e-5 0.08612 0.1328

mode liq bi g mu pl ilm ru ky q
 0.08612 0.1328 0.1335 0.1016 0.2149 0.005345 0.004048 0 0.3216

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.44 688.6 0.04401 0.2035 0.9110 0.0074840.0007782 0.6323
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7435 0.2900 0.2092 0.04781 0.1048 0.3082
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6992 0.1867 0.01940 0.2762 0.9175 0.2784
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1869 0.008199 0.4310 8.446e-5 0.08667 0.1314

mode liq bi g mu pl ilm ru ky q
 0.08667 0.1314 0.1349 0.1019 0.2146 0.005308 0.004065 0 0.3212

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.52 690.3 0.04384 0.2045 0.9108 0.0075370.0007872 0.6318
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7426 0.2884 0.2089 0.04802 0.1056 0.3070
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6970 0.1870 0.01966 0.2751 0.9146 0.2704
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1848 0.008385 0.4299 8.224e-5 0.08725 0.1300

mode liq bi g mu pl ilm ru ky q
 0.08725 0.1300 0.1362 0.1022 0.2142 0.005272 0.004081 0 0.3207

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.60 692.0 0.04369 0.2056 0.9104 0.0075950.0007967 0.6314
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7416 0.2868 0.2086 0.04823 0.1063 0.3057
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6948 0.1872 0.01991 0.2742 0.9117 0.2625
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1828 0.008583 0.4288 8.019e-5 0.08785 0.1286

mode liq bi g mu pl ilm ru ky q
 0.08785 0.1286 0.1376 0.1025 0.2139 0.005238 0.004096 0 0.3203

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.68 693.9 0.04355 0.2067 0.9100 0.0076590.0008070 0.6311
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7405 0.2853 0.2083 0.04844 0.1071 0.3043
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6925 0.1873 0.02015 0.2733 0.9088 0.2547
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1809 0.008795 0.4279 7.829e-5 0.08848 0.1272

mode liq bi g mu pl ilm ru ky q
0.08848 0.1272 0.1389 0.1027 0.2136 0.005204 0.004110 0 0.3198

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.76 695.8 0.04344 0.2079 0.9094 0.0077290.0008179 0.6309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7394 0.2839 0.2082 0.04865 0.1079 0.3029
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6903 0.1874 0.02039 0.2725 0.9058 0.2470
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1791 0.009022 0.4270 7.653e-5 0.08913 0.1258

mode liq bi g mu pl ilm ru ky q
0.08913 0.1258 0.1401 0.1030 0.2133 0.005172 0.004123 0 0.3194

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.84 697.8 0.04334 0.2091 0.9088 0.0078060.0008297 0.6307
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7382 0.2825 0.2081 0.04885 0.1087 0.3014
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6881 0.1874 0.02063 0.2718 0.9029 0.2394
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1774 0.009265 0.4262 7.491e-5 0.08982 0.1244

mode liq bi g mu pl ilm ru ky q
0.08982 0.1244 0.1414 0.1031 0.2130 0.005141 0.004135 0 0.3189

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.92 699.9 0.04327 0.2104 0.9081 0.0078890.0008424 0.6306
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7369 0.2812 0.2082 0.04906 0.1096 0.2999
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6858 0.1873 0.02085 0.2712 0.8999 0.2319
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1758 0.009527 0.4255 7.341e-5 0.09053 0.1231

mode liq bi g mu pl ilm ru ky q
0.09053 0.1231 0.1426 0.1033 0.2128 0.005112 0.004147 0 0.3185

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 702.1 0.04322 0.2117 0.9073 0.0079810.0008560 0.6306
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7355 0.2799 0.2083 0.04927 0.1106 0.2982
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6836 0.1871 0.02107 0.2706 0.8969 0.2245
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1742 0.009809 0.4250 7.202e-5 0.09129 0.1218

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.09129	0.1218	0.1438	0.1034	0.2125	0.005084	0.004157	0	0.3180	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.08 704.4 0.04319 0.2130 0.9064 0.0080810.0008706 0.6307

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7340 0.2786 0.2085 0.04947 0.1115 0.2966

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6814 0.1869 0.02128 0.2701 0.8940 0.2171

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1728 0.01011 0.4245 7.074e-5 0.09209 0.1205

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.09209	0.1205	0.1450	0.1035	0.2123	0.005057	0.004165	0	0.3175	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.16 706.8 0.04319 0.2145 0.9053 0.0081910.0008864 0.6309

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7325 0.2775 0.2088 0.04968 0.1125 0.2948

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6791 0.1866 0.02149 0.2697 0.8910 0.2098

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1715 0.01044 0.4241 6.957e-5 0.09293 0.1192

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.09293	0.1192	0.1461	0.1036	0.2120	0.005031	0.004173	0	0.3170	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.24 709.3 0.04322 0.2160 0.9041 0.0083110.0009034 0.6312

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7308 0.2764 0.2092 0.04989 0.1136 0.2930

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6769 0.1862 0.02168 0.2694 0.8880 0.2026

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1704 0.01080 0.4239 6.849e-5 0.09382 0.1179

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.09382	0.1179	0.1472	0.1036	0.2118	0.005007	0.004180	0	0.3165	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.32 712.0 0.04328 0.2175 0.9028 0.0084420.0009218 0.6315

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7290 0.2753 0.2097 0.05009 0.1147 0.2911

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6746 0.1857 0.02187 0.2692 0.8851 0.1954

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1693 0.01119 0.4238 6.750e-5 0.09476 0.1166

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.09476	0.1166	0.1483	0.1035	0.2116	0.004985	0.004185	0	0.3160		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.40	714.8	0.04337	0.2192	0.9013	0.0085860	0.0009416	0.6320				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7271	0.2743	0.2103	0.05030	0.1159	0.2891					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6723	0.1852	0.02205	0.2690	0.8821	0.1884					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1683	0.01161	0.4238	6.660e-5	0.09575	0.1154					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.09575	0.1154	0.1493	0.1035	0.2114	0.004964	0.004189	0	0.3155		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.48	717.7	0.04349	0.2209	0.8996	0.0087430	0.0009631	0.6325				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7251	0.2734	0.2110	0.05051	0.1171	0.2870					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6700	0.1845	0.02223	0.2690	0.8792	0.1814					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1675	0.01207	0.4239	6.577e-5	0.09681	0.1142					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.09681	0.1142	0.1503	0.1033	0.2112	0.004945	0.004191	0	0.3150		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.56	720.8	0.04364	0.2227	0.8977	0.0089140	0.0009863	0.6332				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7229	0.2725	0.2118	0.05072	0.1184	0.2849					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6677	0.1838	0.02240	0.2691	0.8763	0.1745					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1668	0.01258	0.4241	6.503e-5	0.09793	0.1130					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.09793	0.1130	0.1513	0.1032	0.2110	0.004927	0.004193	0	0.3145		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.64	724.0	0.04383	0.2245	0.8957	0.009100	0.001011	0.6339				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7206	0.2717	0.2127	0.05093	0.1198	0.2827					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6654	0.1830	0.02256	0.2692	0.8734	0.1678					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1662	0.01313	0.4245	6.435e-5	0.09911	0.1118					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.09911	0.1118	0.1523	0.1029	0.2109	0.004910	0.004192	0	0.3139		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.72	727.3	0.04406	0.2265	0.8934	0.009303	0.001038	0.6348				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7182	0.2709	0.2138	0.05113	0.1212	0.2804					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6631	0.1822	0.02271	0.2694	0.8706	0.1611					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1657	0.01373	0.4250	6.374e-5	0.1004	0.1106					
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
		0.1004	0.1106	0.1532	0.1027	0.2107	0.004895	0.004191	0	0.3133	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.80	730.8	0.04433	0.2285	0.8909	0.009522	0.001067	0.6357				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7157	0.2702	0.2149	0.05134	0.1227	0.2780					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6608	0.1813	0.02286	0.2698	0.8679	0.1546					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1654	0.01438	0.4256	6.318e-5	0.1017	0.1094					
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
		0.1017	0.1094	0.1542	0.1023	0.2105	0.004882	0.004188	0	0.3128	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.88	734.5	0.04463	0.2306	0.8882	0.009758	0.001098	0.6367				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7130	0.2695	0.2161	0.05155	0.1243	0.2756					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6585	0.1803	0.02300	0.2702	0.8652	0.1483					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1651	0.01509	0.4263	6.268e-5	0.1031	0.1083					
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
		0.1031	0.1083	0.1551	0.1020	0.2104	0.004869	0.004185	0	0.3122	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.96	738.2	0.04497	0.2328	0.8853	0.01001	0.001132	0.6377				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7102	0.2689	0.2174	0.05175	0.1259	0.2731					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6562	0.1792	0.02314	0.2706	0.8625	0.1422					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1649	0.01587	0.4271	6.222e-5	0.1045	0.1071					
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
		0.1045	0.1071	0.1559	0.1015	0.2102	0.004858	0.004180	0	0.3116	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
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15.04 742.1 0.04534 0.2350 0.8821 0.01028 0.001167 0.6389
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7072 0.2683 0.2188 0.05196 0.1276 0.2706
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6538 0.1781 0.02328 0.2712 0.8600 0.1363
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1648 0.01671 0.4280 6.180e-5 0.1061 0.1060

mode liq bi g mu pl ilm ru ky q
 0.1061 0.1060 0.1568 0.1011 0.2100 0.004848 0.004174 0 0.3109

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.12 746.0 0.04575 0.2372 0.8787 0.01057 0.001204 0.6400
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7042 0.2677 0.2202 0.05216 0.1293 0.2680
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6515 0.1770 0.02341 0.2717 0.8575 0.1306
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1647 0.01762 0.4289 6.141e-5 0.1077 0.1049

mode liq bi g mu pl ilm ru ky q
 0.1077 0.1049 0.1577 0.1006 0.2099 0.004839 0.004168 0 0.3103

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 750.0 0.04619 0.2395 0.8750 0.01087 0.001244 0.6412
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7011 0.2672 0.2217 0.05236 0.1311 0.2654
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6491 0.1759 0.02354 0.2723 0.8551 0.1251
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1647 0.01860 0.4299 6.103e-5 0.1094 0.1038

mode liq bi g mu pl ilm ru ky q
 0.1094 0.1038 0.1585 0.1001 0.2097 0.004830 0.004162 0 0.3097

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.28 754.1 0.04665 0.2419 0.8712 0.01119 0.001285 0.6423
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6979 0.2666 0.2231 0.05256 0.1329 0.2628
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6467 0.1747 0.02367 0.2729 0.8528 0.1200
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1647 0.01965 0.4309 6.066e-5 0.1111 0.1026

mode liq bi g mu pl ilm ru ky q
 0.1111 0.1026 0.1594 0.09949 0.2095 0.004821 0.004156 0 0.3090

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.36 758.2 0.04714 0.2442 0.8672 0.01152 0.001327 0.6435
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6947 0.2661 0.2246 0.05276 0.1347 0.2603
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6444 0.1735 0.02380 0.2735 0.8507 0.1151
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1646 0.02077 0.4319 6.029e-5 0.1128 0.1015

mode liq bi g mu pl ilm ru ky q
 0.1128 0.1015 0.1602 0.09890 0.2092 0.004812 0.004149 0 0.3083

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.44 762.3 0.04765 0.2465 0.8629 0.01186 0.001371 0.6446
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6914 0.2655 0.2260 0.05295 0.1365 0.2577
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6420 0.1724 0.02394 0.2741 0.8486 0.1104
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1646 0.02196 0.4329 5.992e-5 0.1147 0.1004

mode liq bi g mu pl ilm ru ky q
 0.1147 0.1004 0.1611 0.09829 0.2090 0.004803 0.004144 0 0.3076

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.52 766.4 0.04816 0.2488 0.8586 0.01222 0.001416 0.6457
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6882 0.2649 0.2274 0.05314 0.1384 0.2552
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6396 0.1712 0.02407 0.2747 0.8466 0.1061
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1645 0.02322 0.4339 5.953e-5 0.1165 0.09921

mode liq bi g mu pl ilm ru ky q
 0.1165 0.09921 0.1620 0.09768 0.2087 0.004793 0.004140 0 0.3069

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 770.5 0.04869 0.2511 0.8541 0.01258 0.001462 0.6467
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6849 0.2644 0.2288 0.05333 0.1402 0.2527
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6372 0.1701 0.02421 0.2752 0.8447 0.1020
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1643 0.02455 0.4348 5.912e-5 0.1184 0.09803

mode liq bi g mu pl ilm ru ky q
 0.1184 0.09803 0.1629 0.09706 0.2085 0.004782 0.004136 0 0.3062

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.68 774.5 0.04923 0.2534 0.8494 0.01294 0.001509 0.6477
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6817 0.2637 0.2301 0.05352 0.1421 0.2502
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6348 0.1690 0.02436 0.2757 0.8428 0.09822
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1641 0.02594 0.4356 5.869e-5 0.1203 0.09683

mode liq bi g mu pl ilm ru ky q
0.1203 0.09683 0.1639 0.09644 0.2082 0.004771 0.004134 0 0.3055

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.76 778.4 0.04977 0.2556 0.8447 0.01332 0.001556 0.6486
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6785 0.2631 0.2313 0.05371 0.1439 0.2478
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6324 0.1680 0.02451 0.2761 0.8411 0.09467
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1638 0.02740 0.4363 5.824e-5 0.1222 0.09561

mode liq bi g mu pl ilm ru ky q
0.1222 0.09561 0.1648 0.09581 0.2079 0.004758 0.004134 0 0.3048

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.84 782.3 0.05031 0.2577 0.8399 0.01369 0.001603 0.6494
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6753 0.2624 0.2325 0.05389 0.1457 0.2455
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6300 0.1670 0.02466 0.2765 0.8394 0.09136
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1634 0.02892 0.4370 5.777e-5 0.1242 0.09435

mode liq bi g mu pl ilm ru ky q
0.1242 0.09435 0.1659 0.09520 0.2075 0.004745 0.004136 0 0.3040

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.92 786.1 0.05084 0.2598 0.8350 0.01407 0.001651 0.6501
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6722 0.2616 0.2336 0.05408 0.1475 0.2432
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6276 0.1660 0.02482 0.2767 0.8378 0.08827
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1629 0.03051 0.4376 5.726e-5 0.1261 0.09307

mode liq bi g mu pl ilm ru ky q
0.1261 0.09307 0.1669 0.09459 0.2072 0.004730 0.004139 0 0.3033

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 789.8 0.05138 0.2618 0.8301 0.01445 0.001698 0.6508
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6692 0.2608 0.2345 0.05426 0.1492 0.2410
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6252 0.1651 0.02498 0.2769 0.8363 0.08540
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1623 0.03215 0.4380 5.674e-5 0.1281 0.09176

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1281	0.09176	0.1680	0.09399	0.2069	0.004714	0.004144	0	0.3025	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.08	793.5	0.05190	0.2638	0.8252	0.01483	0.001745	0.6514	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6662	0.2600	0.2354	0.05444	0.1510	0.2389		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.6228	0.1643	0.02515	0.2771	0.8348	0.08272		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.1616	0.03386	0.4384	5.619e-5	0.1300	0.09042		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1300	0.09042	0.1691	0.09340	0.2065	0.004696	0.004152	0	0.3017	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.16	797.0	0.05242	0.2657	0.8202	0.01521	0.001791	0.6519	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6633	0.2591	0.2363	0.05463	0.1527	0.2369		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.6203	0.1634	0.02533	0.2771	0.8334	0.08023		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.1608	0.03563	0.4387	5.561e-5	0.1320	0.08904		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1320	0.08904	0.1702	0.09282	0.2062	0.004677	0.004161	0	0.3009	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.24	800.4	0.05293	0.2676	0.8152	0.01558	0.001837	0.6523	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6605	0.2582	0.2370	0.05481	0.1543	0.2349		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.6179	0.1627	0.02550	0.2771	0.8320	0.07791		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.1599	0.03745	0.4389	5.502e-5	0.1339	0.08764		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1339	0.08764	0.1714	0.09225	0.2058	0.004657	0.004173	0	0.3001	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.32	803.8	0.05342	0.2694	0.8101	0.01596	0.001882	0.6526	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6577	0.2573	0.2376	0.05500	0.1560	0.2329		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.6154	0.1619	0.02569	0.2770	0.8306	0.07574		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.1589	0.03934	0.4390	5.441e-5	0.1358	0.08620		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1358	0.08620	0.1726	0.09169	0.2055	0.004636	0.004186	0	0.2993		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.40	807.1	0.05391	0.2711	0.8051	0.01633	0.001926	0.6528				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6551	0.2563	0.2382	0.05518	0.1576	0.2310					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6130	0.1612	0.02587	0.2769	0.8293	0.07371					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1579	0.04128	0.4390	5.378e-5	0.1378	0.08473					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1378	0.08473	0.1739	0.09114	0.2051	0.004613	0.004202	0	0.2985		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.48	810.3	0.05439	0.2728	0.8001	0.01670	0.001969	0.6530				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6525	0.2552	0.2387	0.05537	0.1591	0.2292					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6105	0.1605	0.02606	0.2766	0.8280	0.07182					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1567	0.04329	0.4389	5.314e-5	0.1397	0.08323					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1397	0.08323	0.1751	0.09059	0.2048	0.004590	0.004220	0	0.2977		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.56	813.3	0.05485	0.2744	0.7950	0.01707	0.002012	0.6531				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6500	0.2542	0.2391	0.05555	0.1607	0.2274					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6080	0.1599	0.02626	0.2763	0.8268	0.07005					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1555	0.04536	0.4387	5.249e-5	0.1416	0.08169					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1416	0.08169	0.1765	0.09006	0.2044	0.004565	0.004239	0	0.2969		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.64	816.4	0.05530	0.2759	0.7900	0.01743	0.002054	0.6531				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6476	0.2531	0.2395	0.05574	0.1622	0.2257					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6056	0.1593	0.02646	0.2760	0.8255	0.06839					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1541	0.04749	0.4384	5.183e-5	0.1436	0.08013					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1436	0.08013	0.1778	0.08953	0.2041	0.004539	0.004261	0	0.2961		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.72 819.3 0.05574 0.2774 0.7851 0.01779 0.002094 0.6531
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6452 0.2519 0.2398 0.05593 0.1636 0.2241
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6031 0.1587 0.02666 0.2756 0.8243 0.06684
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1527 0.04969 0.4381 5.117e-5 0.1455 0.07853

mode liq bi g mu pl ilm ru ky q
0.1455 0.07853 0.1792 0.08901 0.2038 0.004512 0.004285 0 0.2952

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 822.1 0.05617 0.2788 0.7801 0.01815 0.002134 0.6530
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6429 0.2507 0.2400 0.05612 0.1651 0.2225
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6005 0.1581 0.02686 0.2751 0.8231 0.06538
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1512 0.05195 0.4377 5.050e-5 0.1474 0.07690

mode liq bi g mu pl ilm ru ky q
0.1474 0.07690 0.1806 0.08849 0.2034 0.004485 0.004311 0 0.2944

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.88 824.9 0.05659 0.2802 0.7751 0.01850 0.002173 0.6528
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6407 0.2495 0.2402 0.05631 0.1665 0.2209
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5980 0.1576 0.02706 0.2745 0.8220 0.06401
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1496 0.05429 0.4372 4.982e-5 0.1493 0.07524

mode liq bi g mu pl ilm ru ky q
0.1493 0.07524 0.1820 0.08797 0.2031 0.004456 0.004338 0 0.2936

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.96 827.6 0.05699 0.2815 0.7702 0.01884 0.002210 0.6526
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6386 0.2483 0.2403 0.05650 0.1678 0.2194
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5955 0.1571 0.02727 0.2740 0.8208 0.06272
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1480 0.05669 0.4366 4.914e-5 0.1511 0.07355

mode liq bi g mu pl ilm ru ky q
0.1511 0.07355 0.1835 0.08746 0.2028 0.004427 0.004368 0 0.2927

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)


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17.04  830.2 0.05738 0.2828 0.7653 0.01918 0.002247 0.6523
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6365 0.2470 0.2403 0.05669 0.1692 0.2179
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.5929 0.1566 0.02748 0.2733 0.8197 0.06151
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.1463 0.05917 0.4360 4.847e-5 0.1530 0.07183

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1530 0.07183 0.1850 0.08695 0.2025 0.004396 0.004400 0 0.2918

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.12  832.7 0.05776 0.2840 0.7605 0.01952 0.002282 0.6520
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6345 0.2457 0.2403 0.05688 0.1705 0.2164
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.5904 0.1561 0.02769 0.2726 0.8186 0.06038
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.1445 0.06173 0.4353 4.779e-5 0.1549 0.07008

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1549 0.07008 0.1865 0.08644 0.2023 0.004366 0.004433 0 0.2910

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20  835.2 0.05812 0.2852 0.7557 0.01985 0.002316 0.6516
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6326 0.2444 0.2402 0.05707 0.1718 0.2150
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.5878 0.1556 0.02790 0.2719 0.8174 0.05930
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.1426 0.06437 0.4345 4.711e-5 0.1568 0.06830

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1568 0.06830 0.1881 0.08592 0.2020 0.004334 0.004468 0 0.2901

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.28  837.6 0.05847 0.2863 0.7510 0.02017 0.002349 0.6511
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6308 0.2431 0.2401 0.05727 0.1730 0.2136
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.5852 0.1551 0.02811 0.2711 0.8163 0.05829
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.1407 0.06709 0.4337 4.644e-5 0.1586 0.06649

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1586 0.06649 0.1897 0.08541 0.2018 0.004302 0.004505 0 0.2892

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.36  840.0 0.05880 0.2874 0.7463 0.02049 0.002381 0.6507
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

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0.6290 0.2417 0.2400 0.05746 0.1743 0.2123
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5826 0.1547 0.02832 0.2702 0.8152 0.05734
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1387 0.06991 0.4328 4.577e-5 0.1605 0.06466

mode liq bi g mu pl ilm ru ky q
 0.1605 0.06466 0.1913 0.08490 0.2015 0.004269 0.004543 0 0.2883

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.44 842.3 0.05913 0.2884 0.7416 0.02080 0.002412 0.6501
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6273 0.2403 0.2398 0.05766 0.1754 0.2110
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5800 0.1542 0.02854 0.2693 0.8142 0.05644
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1367 0.07281 0.4318 4.511e-5 0.1623 0.06279

mode liq bi g mu pl ilm ru ky q
 0.1623 0.06279 0.1930 0.08438 0.2013 0.004236 0.004584 0 0.2874

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.52 844.5 0.05944 0.2894 0.7371 0.02111 0.002441 0.6495
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6256 0.2389 0.2396 0.05785 0.1766 0.2097
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5774 0.1538 0.02875 0.2684 0.8131 0.05559
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1346 0.07582 0.4309 4.444e-5 0.1641 0.06089

mode liq bi g mu pl ilm ru ky q
 0.1641 0.06089 0.1946 0.08385 0.2011 0.004202 0.004626 0 0.2865

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.60 846.7 0.05973 0.2903 0.7326 0.02141 0.002470 0.6489
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6241 0.2375 0.2393 0.05805 0.1778 0.2084
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5747 0.1534 0.02897 0.2674 0.8120 0.05479
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1325 0.07892 0.4298 4.379e-5 0.1660 0.05896

mode liq bi g mu pl ilm ru ky q
 0.1660 0.05896 0.1963 0.08332 0.2010 0.004168 0.004669 0 0.2856

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.68 848.8 0.06001 0.2912 0.7282 0.02170 0.002497 0.6482
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6225 0.2360 0.2390 0.05825 0.1789 0.2072
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5721 0.1530 0.02918 0.2664 0.8109 0.05403
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1303 0.08214 0.4287 4.314e-5 0.1678 0.05700

mode liq bi g mu pl ilm ru ky q
0.1678 0.05700 0.1981 0.08279 0.2008 0.004133 0.004715 0 0.2847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.76 850.8 0.06027 0.2921 0.7239 0.02199 0.002523 0.6475
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6211 0.2346 0.2386 0.05845 0.1800 0.2059
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5694 0.1526 0.02940 0.2654 0.8099 0.05332
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1281 0.08548 0.4276 4.250e-5 0.1696 0.05501

mode liq bi g mu pl ilm ru ky q
0.1696 0.05501 0.1998 0.08224 0.2007 0.004097 0.004762 0 0.2838

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.84 852.9 0.06052 0.2929 0.7197 0.02227 0.002548 0.6467
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6197 0.2331 0.2382 0.05865 0.1810 0.2047
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5667 0.1522 0.02961 0.2643 0.8088 0.05264
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1258 0.08894 0.4264 4.186e-5 0.1714 0.05298

mode liq bi g mu pl ilm ru ky q
0.1714 0.05298 0.2016 0.08169 0.2006 0.004062 0.004810 0 0.2829

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.92 854.8 0.06076 0.2937 0.7156 0.02254 0.002571 0.6459
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6184 0.2316 0.2378 0.05885 0.1820 0.2036
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5640 0.1518 0.02983 0.2632 0.8078 0.05201
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1235 0.09253 0.4251 4.123e-5 0.1732 0.05093

mode liq bi g mu pl ilm ru ky q
0.1732 0.05093 0.2034 0.08114 0.2005 0.004026 0.004860 0 0.2819

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 856.7 0.06097 0.2945 0.7116 0.02281 0.002593 0.6451
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6171 0.2300 0.2374 0.05905 0.1830 0.2024
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5612 0.1514 0.03005 0.2620 0.8067 0.05141
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1211 0.09627 0.4239 4.060e-5 0.1750 0.04884

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1750	0.04884	0.2053	0.08057	0.2004	0.003989	0.004912	0	0.2810		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.08 858.6 0.06117 0.2952 0.7078 0.02306 0.002615 0.6442
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6159 0.2285 0.2369 0.05925 0.1840 0.2013
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5585 0.1510 0.03026 0.2608 0.8057 0.05085
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1187 0.1002 0.4225 3.999e-5 0.1768 0.04672

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1768	0.04672	0.2072	0.07999	0.2003	0.003952	0.004966	0	0.2800		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.16 860.4 0.06136 0.2959 0.7041 0.02331 0.002634 0.6432
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6148 0.2269 0.2364 0.05946 0.1850 0.2001
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5557 0.1506 0.03048 0.2596 0.8046 0.05032
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1162 0.1042 0.4212 3.938e-5 0.1786 0.04457

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1786	0.04457	0.2091	0.07941	0.2003	0.003914	0.005021	0	0.2791		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.24 862.1 0.06152 0.2965 0.7007 0.02355 0.002653 0.6423
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6137 0.2253 0.2359 0.05966 0.1859 0.1990
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5529 0.1502 0.03070 0.2583 0.8036 0.04983
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1137 0.1085 0.4197 3.877e-5 0.1804 0.04238

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1804	0.04238	0.2110	0.07881	0.2003	0.003876	0.005078	0	0.2781		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.32 863.8 0.06166 0.2971 0.6974 0.02378 0.002670 0.6412
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6127 0.2237 0.2353 0.05986 0.1868 0.1979
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5501 0.1499 0.03092 0.2570 0.8025 0.04936
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1111 0.1129 0.4183 3.817e-5 0.1822 0.04016

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1822	0.04016	0.2130	0.07821	0.2003	0.003838	0.005136	0	0.2772		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
18.40	865.5	0.06178	0.2977	0.6944	0.02400	0.002686	0.6402				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6117	0.2221	0.2347	0.06007	0.1877	0.1968					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.5473	0.1495	0.03114	0.2557	0.8014	0.04893					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1085	0.1176	0.4168	3.758e-5	0.1839	0.03790					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1839	0.03790	0.2150	0.07760	0.2004	0.003799	0.005197	0	0.2762		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
18.48	867.1	0.06188	0.2983	0.6916	0.02421	0.002700	0.6391				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6108	0.2205	0.2341	0.06028	0.1885	0.1958					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.5444	0.1492	0.03137	0.2543	0.8004	0.04853					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1058	0.1225	0.4152	3.700e-5	0.1857	0.03559					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1857	0.03559	0.2171	0.07697	0.2005	0.003759	0.005259	0	0.2752		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
18.56	868.6	0.06195	0.2988	0.6891	0.02440	0.002714	0.6379				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6100	0.2188	0.2334	0.06048	0.1894	0.1947					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.5415	0.1488	0.03159	0.2528	0.7993	0.04816					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1031	0.1276	0.4136	3.642e-5	0.1874	0.03325					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1874	0.03325	0.2192	0.07634	0.2005	0.003718	0.005323	0	0.2743		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
18.64	870.1	0.06199	0.2994	0.6870	0.02459	0.002725	0.6367				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6093	0.2172	0.2327	0.06069	0.1901	0.1936					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.5386	0.1485	0.03182	0.2514	0.7983	0.04782					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.1003	0.1330	0.4120	3.584e-5	0.1891	0.03086					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1891	0.03086	0.2213	0.07570	0.2007	0.003677	0.005388	0	0.2733		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
18.72	871.6	0.06200	0.2998	0.6853	0.02475	0.002735	0.6355				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6086	0.2155	0.2320	0.06090	0.1909	0.1926					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.5357	0.1482	0.03205	0.2499	0.7972	0.04752					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.09742	0.1388	0.4103	3.527e-5	0.1908	0.02843					
mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1908	0.02843	0.2235	0.07505	0.2008	0.003634	0.005456	0	0.2723		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
18.80	873.0	0.06198	0.3003	0.6840	0.02491	0.002744	0.6342				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6080	0.2138	0.2313	0.06112	0.1916	0.1916					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.5327	0.1479	0.03229	0.2483	0.7962	0.04724					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.09450	0.1449	0.4085	3.471e-5	0.1925	0.02595					
mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1925	0.02595	0.2257	0.07439	0.2010	0.003591	0.005526	0	0.2713		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
18.88	874.3	0.06193	0.3008	0.6832	0.02504	0.002750	0.6329				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6075	0.2120	0.2305	0.06133	0.1923	0.1905					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.5297	0.1476	0.03253	0.2467	0.7951	0.04700					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.09150	0.1515	0.4067	3.414e-5	0.1942	0.02342					
mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1942	0.02342	0.2280	0.07373	0.2011	0.003546	0.005598	0	0.2703		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
18.96	875.6	0.06183	0.3012	0.6831	0.02515	0.002755	0.6315				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6070	0.2102	0.2297	0.06155	0.1930	0.1895					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.5266	0.1474	0.03278	0.2451	0.7940	0.04679					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.08843	0.1585	0.4048	3.359e-5	0.1959	0.02083					
mode	liq	bi	g	mu	pl	ilm	ru	ky	q		
	0.1959	0.02083	0.2304	0.07306	0.2013	0.003500	0.005672	0	0.2693		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
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19.04  876.8 0.06168 0.3016 0.6835 0.02524 0.002758 0.6300
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6067 0.2084 0.2288 0.06176 0.1936 0.1885
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.5235 0.1472 0.03303 0.2434 0.7930 0.04663
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.08527 0.1660 0.4029 3.303e-5 0.1975 0.01819

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1975 0.01819 0.2328 0.07240 0.2016 0.003452 0.005748 0 0.2684

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.12  877.9 0.06148 0.3020 0.6848 0.02530 0.002759 0.6285
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6064 0.2066 0.2279 0.06198 0.1942 0.1875
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.5204 0.1470 0.03329 0.2416 0.7919 0.04650
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.08202 0.1740 0.4009 3.248e-5 0.1991 0.01548

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1991 0.01548 0.2353 0.07173 0.2018 0.003402 0.005827 0 0.2674

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20  879.0 0.06123 0.3024 0.6869 0.02534 0.002757 0.6269
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6062 0.2047 0.2270 0.06221 0.1947 0.1865
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.5172 0.1468 0.03356 0.2398 0.7908 0.04641
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.07867 0.1827 0.3988 3.192e-5 0.2006 0.01270

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2006 0.01270 0.2378 0.07106 0.2021 0.003350 0.005908 0 0.2664

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.28  879.9 0.06091 0.3028 0.6899 0.02534 0.002753 0.6252
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6062 0.2028 0.2260 0.06243 0.1952 0.1855
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.5140 0.1467 0.03384 0.2379 0.7897 0.04638
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.07522 0.1921 0.3966 3.137e-5 0.2022 0.009847

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2022 0.009847 0.2405 0.07039 0.2024 0.003296 0.005992 0 0.2654

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.36  880.8 0.06052 0.3032 0.6940 0.02530 0.002746 0.6235
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.6062 0.2009 0.2250 0.06265 0.1957 0.1845
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5107 0.1466 0.03413 0.2360 0.7886 0.04639
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.07167 0.2023 0.3944 3.082e-5 0.2037 0.006920

mode liq bi g mu pl ilm ru ky q
 0.2037 0.006920 0.2432 0.06972 0.2027 0.003240 0.006079 0 0.2645

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.44 881.6 0.06006 0.3037 0.6991 0.02522 0.002736 0.6217
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6063 0.1989 0.2239 0.06288 0.1961 0.1835
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5074 0.1466 0.03442 0.2339 0.7875 0.04647
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.06803 0.2132 0.3921 3.027e-5 0.2051 0.003916

mode liq bi g mu pl ilm ru ky q
 0.2051 0.003916 0.2460 0.06905 0.2030 0.003181 0.006169 0 0.2635

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.52 882.3 0.05953 0.3042 0.7052 0.02510 0.002723 0.6198
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6065 0.1968 0.2228 0.06311 0.1964 0.1826
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5040 0.1466 0.03472 0.2318 0.7864 0.04659
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.06432 0.2250 0.3896 2.972e-5 0.20660.0008346

mode liq bi g mu pl ilm ru ky q
 0.20660.0008346 0.2489 0.06837 0.2033 0.003121 0.006261 0 0.2626

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.00 678.7 0.06725 0.1987 0.8874 0.0064920.0007682 0.6667
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7235 0.3579 0.3456 0.03823 0.09761 0.2532
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7195 0.05316 0.003045 0.3294 0.9730 0.3973
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2671 0.006988 0.7319 0.6114 0 0.1801

mode liq bi g mu pl ilm ru q H2O

0 0.1801 0.07388 0.06167 0.2912 0.012420.0004125 0.3435 0.03672

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.02 678.7 0.06706 0.1986 0.8875 0.0065010.0007686 0.6667
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7237 0.3577 0.3444 0.03830 0.09760 0.2539
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7197 0.05369 0.003073 0.3293 0.9728 0.3968
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2669 0.006983 0.7308 0.6096 0 0.1800

mode liq bi g mu pl ilm ru q H2O
0 0.1800 0.07408 0.06188 0.2911 0.012370.0004412 0.3435 0.03671

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.04 678.6 0.06687 0.1986 0.8877 0.0065100.0007689 0.6667
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7240 0.3575 0.3432 0.03836 0.09759 0.2546
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7199 0.05421 0.003102 0.3292 0.9726 0.3962
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2667 0.006978 0.7296 0.6079 0 0.1798

mode liq bi g mu pl ilm ru q H2O
0 0.1798 0.07427 0.06208 0.2910 0.012310.0004699 0.3434 0.03669

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.06 678.5 0.06669 0.1985 0.8878 0.0065190.0007692 0.6666
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7243 0.3573 0.3420 0.03843 0.09758 0.2552
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7200 0.05475 0.003131 0.3291 0.9724 0.3956
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2665 0.006973 0.7283 0.6061 0 0.1796

mode liq bi g mu pl ilm ru q H2O
0 0.1796 0.07446 0.06229 0.2909 0.012260.0004988 0.3433 0.03668

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.08 678.5 0.06650 0.1984 0.8880 0.0065280.0007695 0.6666
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7246 0.3572 0.3408 0.03850 0.09757 0.2559
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7202 0.05529 0.003160 0.3291 0.9722 0.3951
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2663 0.006968 0.7271 0.6043 0 0.1795

mode liq bi g mu pl ilm ru q H2O
0 0.1795 0.07466 0.06250 0.2907 0.012210.0005279 0.3432 0.03667

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.10    678.4 0.06631 0.1983 0.8881 0.0065370.0007697 0.6666
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7249 0.3570 0.3396 0.03857 0.09756 0.2565
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7204 0.05583 0.003191 0.3290 0.9720 0.3945
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2661 0.006963 0.7259 0.6025 0 0.1793

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1793 0.07486 0.06271 0.2906 0.012150.0005571 0.3431 0.03666

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.12    678.3 0.06613 0.1983 0.8883 0.0065450.0007700 0.6666
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7252 0.3568 0.3384 0.03863 0.09754 0.2572
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7206 0.05639 0.003221 0.3289 0.9718 0.3940
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2659 0.006958 0.7246 0.6006 0 0.1791

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1791 0.07505 0.06292 0.2905 0.012100.0005864 0.3431 0.03665

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.14    678.3 0.06594 0.1982 0.8884 0.0065540.0007703 0.6666
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7255 0.3566 0.3373 0.03870 0.09753 0.2579
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7207 0.05695 0.003253 0.3288 0.9716 0.3935
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2657 0.006953 0.7233 0.5987 0 0.1790

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1790 0.07525 0.06313 0.2904 0.012040.0006158 0.3430 0.03664

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.16    678.2 0.06576 0.1981 0.8886 0.0065630.0007705 0.6665
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7257 0.3564 0.3361 0.03877 0.09752 0.2585
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7209 0.05751 0.003285 0.3287 0.9714 0.3929
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2655 0.006948 0.7220 0.5967 0 0.1788

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1788 0.07545 0.06334 0.2902 0.011980.0006454 0.3429 0.03663

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.18    678.2 0.06557 0.1980 0.8888 0.0065710.0007707 0.6665

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7260 0.3563 0.3349 0.03884 0.09751 0.2592
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7211 0.05809 0.003317 0.3286 0.9712 0.3924
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2653 0.006943 0.7207 0.5948 0 0.1786

mode liq bi g mu pl ilm ru q H2O
 0 0.1786 0.07566 0.06355 0.2901 0.011930.0006752 0.3428 0.03661

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.20 678.1 0.06539 0.1980 0.8889 0.0065790.0007709 0.6665
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7263 0.3561 0.3337 0.03890 0.09750 0.2599
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7213 0.05867 0.003350 0.3285 0.9710 0.3919
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2651 0.006938 0.7193 0.5928 0 0.1785

mode liq bi g mu pl ilm ru q H2O
 0 0.1785 0.07586 0.06377 0.2900 0.011870.0007051 0.3427 0.03660

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.22 678.0 0.06521 0.1979 0.8891 0.0065880.0007711 0.6664
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7266 0.3559 0.3325 0.03897 0.09749 0.2605
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7215 0.05925 0.003383 0.3285 0.9708 0.3914
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2649 0.006934 0.7179 0.5907 0 0.1783

mode liq bi g mu pl ilm ru q H2O
 0 0.1783 0.07606 0.06398 0.2899 0.011810.0007352 0.3427 0.03659

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.24 678.0 0.06502 0.1978 0.8892 0.0065960.0007713 0.6664
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7269 0.3557 0.3313 0.03903 0.09748 0.2612
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7217 0.05985 0.003418 0.3284 0.9706 0.3910
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2647 0.006929 0.7165 0.5886 0 0.1781

mode liq bi g mu pl ilm ru q H2O
 0 0.1781 0.07627 0.06420 0.2897 0.011760.0007654 0.3426 0.03658

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.26 677.9 0.06484 0.1978 0.8894 0.0066040.0007714 0.6664
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7272 0.3555 0.3301 0.03910 0.09746 0.2619

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7218 0.06045 0.003452 0.3283 0.9704 0.3905
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2645 0.006924 0.7151 0.5865 0 0.1780

mode liq bi g mu pl ilm ru q H2O
0 0.1780 0.07648 0.06441 0.2896 0.011700.0007958 0.3425 0.03657

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.28 677.8 0.06465 0.1977 0.8895 0.0066120.0007716 0.6663
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7274 0.3553 0.3289 0.03917 0.09745 0.2625
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7220 0.06106 0.003488 0.3282 0.9702 0.3900
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2642 0.006919 0.7137 0.5843 0 0.1778

mode liq bi g mu pl ilm ru q H2O
0 0.1778 0.07669 0.06463 0.2894 0.011640.0008264 0.3424 0.03655

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.30 677.8 0.06447 0.1976 0.8897 0.0066200.0007717 0.6663
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7277 0.3551 0.3277 0.03923 0.09744 0.2632
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7222 0.06167 0.003524 0.3281 0.9700 0.3896
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2640 0.006914 0.7122 0.5821 0 0.1776

mode liq bi g mu pl ilm ru q H2O
0 0.1776 0.07690 0.06485 0.2893 0.011580.0008572 0.3424 0.03654

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.32 677.7 0.06429 0.1975 0.8899 0.0066280.0007718 0.6663
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7280 0.3550 0.3266 0.03930 0.09743 0.2639
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7224 0.06230 0.003560 0.3280 0.9698 0.3891
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2638 0.006909 0.7107 0.5798 0 0.1775

mode liq bi g mu pl ilm ru q H2O
0 0.1775 0.07711 0.06506 0.2892 0.011530.0008881 0.3423 0.03653

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.34 677.6 0.06411 0.1975 0.8900 0.0066360.0007719 0.6662
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7283 0.3548 0.3254 0.03936 0.09741 0.2646
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7226 0.06293 0.003598 0.3279 0.9696 0.3887

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2635 0.006904 0.7092 0.5775 0 0.1773

mode liq bi g mu pl ilm ru q H2O
0 0.1773 0.07733 0.06528 0.2890 0.011470.0009193 0.3422 0.03652

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.36 677.5 0.06392 0.1974 0.8902 0.0066440.0007720 0.6662
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7286 0.3546 0.3242 0.03943 0.09740 0.2652
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7228 0.06357 0.003636 0.3278 0.9694 0.3882
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2633 0.006899 0.7076 0.5752 0 0.1771

mode liq bi g mu pl ilm ru q H2O
0 0.1771 0.07754 0.06550 0.2889 0.011410.0009507 0.3421 0.03650

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.38 677.5 0.06374 0.1973 0.8903 0.0066520.0007720 0.6662
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7288 0.3544 0.3230 0.03949 0.09739 0.2659
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7230 0.06422 0.003675 0.3277 0.9692 0.3878
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2631 0.006894 0.7060 0.5728 0 0.1769

mode liq bi g mu pl ilm ru q H2O
0 0.1769 0.07776 0.06572 0.2887 0.011350.0009823 0.3420 0.03649

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 677.4 0.06356 0.1972 0.8905 0.0066590.0007721 0.6661
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7291 0.3542 0.3218 0.03956 0.09737 0.2666
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7232 0.06487 0.003714 0.3276 0.9690 0.3874
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2628 0.006889 0.7044 0.5703 0 0.1768

mode liq bi g mu pl ilm ru q H2O
0 0.1768 0.07798 0.06595 0.2886 0.01129 0.001014 0.3420 0.03648

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.42 677.3 0.06338 0.1972 0.8907 0.0066670.0007721 0.6661
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7294 0.3540 0.3206 0.03962 0.09736 0.2672
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7234 0.06554 0.003754 0.3274 0.9688 0.3870
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2626 0.006884 0.7027 0.5678 0 0.1766

```

mode   liq   bi    g    mu    pl   ilm   ru    q    H2O
0  0.1766 0.07820 0.06617 0.2884 0.01123 0.001046 0.3419 0.03646

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```

P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.44  677.2 0.06319 0.1971 0.8908 0.0066740.0007721 0.6660
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7297 0.3538 0.3194 0.03968 0.09735 0.2679
      x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
      0.7236 0.06621 0.003795 0.3273 0.9686 0.3866
      ca(pl) k(pl) x(ilm) Q(ilm) liq   bi
      0.2623 0.006879 0.7011 0.5652    0 0.1764

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```

mode   liq   bi    g    mu    pl   ilm   ru    q    H2O
0  0.1764 0.07842 0.06639 0.2882 0.01117 0.001078 0.3418 0.03645

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P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.46  677.2 0.06301 0.1970 0.8910 0.0066820.0007721 0.6660
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7300 0.3536 0.3183 0.03975 0.09733 0.2686
      x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
      0.7238 0.06689 0.003837 0.3272 0.9684 0.3862
      ca(pl) k(pl) x(ilm) Q(ilm) liq   bi
      0.2620 0.006874 0.6993 0.5625    0 0.1763

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```

mode   liq   bi    g    mu    pl   ilm   ru    q    H2O
0  0.1763 0.07865 0.06662 0.2881 0.01110 0.001111 0.3417 0.03644

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```

P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.48  677.1 0.06283 0.1969 0.8912 0.0066890.0007721 0.6659
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7302 0.3534 0.3171 0.03981 0.09732 0.2692
      x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
      0.7239 0.06758 0.003879 0.3271 0.9682 0.3859
      ca(pl) k(pl) x(ilm) Q(ilm) liq   bi
      0.2618 0.006869 0.6976 0.5598    0 0.1761

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```

mode   liq   bi    g    mu    pl   ilm   ru    q    H2O
0  0.1761 0.07888 0.06684 0.2879 0.01104 0.001144 0.3417 0.03642

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```

P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50  677.0 0.06265 0.1969 0.8913 0.0066960.0007721 0.6659
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7305 0.3532 0.3159 0.03987 0.09730 0.2699
      x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
      0.7241 0.06827 0.003923 0.3270 0.9680 0.3855
      ca(pl) k(pl) x(ilm) Q(ilm) liq   bi
      0.2615 0.006865 0.6958 0.5570    0 0.1759

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```

mode   liq   bi    g    mu    pl   ilm   ru    q    H2O

```

0 0.1759 0.07910 0.06707 0.2878 0.01098 0.001177 0.3416 0.03641

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.52 676.9 0.06247 0.1968 0.8915 0.0067030.0007720 0.6658
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7308 0.3530 0.3147 0.03993 0.09729 0.2706
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7243 0.06898 0.003967 0.3269 0.9678 0.3851
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2612 0.006860 0.6940 0.5541 0 0.1757

mode liq bi g mu pl ilm ru q H2O
0 0.1757 0.07934 0.06730 0.2876 0.01092 0.001210 0.3415 0.03640

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.54 676.9 0.06229 0.1967 0.8917 0.0067100.0007719 0.6658
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7311 0.3528 0.3135 0.04000 0.09727 0.2712
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7246 0.06969 0.004012 0.3268 0.9676 0.3848
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2610 0.006855 0.6921 0.5512 0 0.1756

mode liq bi g mu pl ilm ru q H2O
0 0.1756 0.07957 0.06753 0.2874 0.01085 0.001244 0.3414 0.03638

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.56 676.8 0.06211 0.1967 0.8918 0.0067160.0007719 0.6657
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7313 0.3526 0.3123 0.04006 0.09726 0.2719
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7248 0.07042 0.004058 0.3267 0.9674 0.3845
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2607 0.006850 0.6902 0.5482 0 0.1754

mode liq bi g mu pl ilm ru q H2O
0 0.1754 0.07980 0.06776 0.2872 0.01079 0.001278 0.3414 0.03637

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.58 676.7 0.06193 0.1966 0.8920 0.0067230.0007718 0.6657
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7316 0.3524 0.3112 0.04012 0.09724 0.2726
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7250 0.07115 0.004104 0.3265 0.9672 0.3842
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2604 0.006845 0.6882 0.5451 0 0.1752

mode liq bi g mu pl ilm ru q H2O
0 0.1752 0.08004 0.06799 0.2871 0.01072 0.001312 0.3413 0.03635

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60    676.6 0.06175 0.1965 0.8922 0.0067290.0007716 0.6656
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7319 0.3522 0.3100 0.04018 0.09723 0.2733
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7252 0.07189 0.004152 0.3264 0.9670 0.3838
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2601 0.006841 0.6862 0.5419 0 0.1751

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1751 0.08028 0.06822 0.2869 0.01066 0.001347 0.3412 0.03634

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.62    676.5 0.06157 0.1964 0.8923 0.0067360.0007715 0.6656
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7322 0.3520 0.3088 0.04024 0.09721 0.2739
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7254 0.07264 0.004201 0.3263 0.9668 0.3835
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2598 0.006836 0.6841 0.5386 0 0.1749

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1749 0.08052 0.06846 0.2867 0.01059 0.001382 0.3411 0.03632

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.64    676.5 0.06139 0.1964 0.8925 0.0067420.0007713 0.6655
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7325 0.3518 0.3076 0.04030 0.09719 0.2746
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7256 0.07340 0.004250 0.3262 0.9666 0.3833
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2595 0.006831 0.6820 0.5351 0 0.1747

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1747 0.08077 0.06869 0.2865 0.01052 0.001417 0.3411 0.03631

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.66    676.4 0.06121 0.1963 0.8927 0.0067480.0007712 0.6655
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7327 0.3516 0.3064 0.04036 0.09718 0.2753
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7258 0.07417 0.004301 0.3260 0.9664 0.3830
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2592 0.006826 0.6798 0.5316 0 0.1745

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1745 0.08101 0.06893 0.2863 0.01045 0.001453 0.3410 0.03629

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.68    676.3 0.06103 0.1962 0.8928 0.0067540.0007710 0.6654

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7330 0.3514 0.3053 0.04042 0.09716 0.2759
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7260 0.07496 0.004352 0.3259 0.9662 0.3827
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2588 0.006822 0.6775 0.5280 0 0.1744

mode liq bi g mu pl ilm ru q H2O
0 0.1744 0.08126 0.06917 0.2862 0.01038 0.001490 0.3409 0.03628

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70 676.2 0.06085 0.1961 0.8930 0.0067600.0007708 0.6653
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7333 0.3512 0.3041 0.04047 0.09714 0.2766
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7262 0.07575 0.004405 0.3258 0.9660 0.3825
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2585 0.006817 0.6752 0.5242 0 0.1742

mode liq bi g mu pl ilm ru q H2O
0 0.1742 0.08152 0.06941 0.2860 0.01031 0.001526 0.3408 0.03626

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.72 676.1 0.06067 0.1961 0.8932 0.0067650.0007705 0.6653
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7336 0.3510 0.3029 0.04053 0.09712 0.2773
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7264 0.07655 0.004458 0.3257 0.9658 0.3822
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2582 0.006812 0.6728 0.5203 0 0.1740

mode liq bi g mu pl ilm ru q H2O
0 0.1740 0.08177 0.06965 0.2858 0.01024 0.001564 0.3408 0.03625

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.74 676.0 0.06049 0.1960 0.8934 0.0067710.0007703 0.6652
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7338 0.3508 0.3017 0.04059 0.09711 0.2780
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7267 0.07736 0.004513 0.3255 0.9656 0.3820
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2579 0.006808 0.6703 0.5162 0 0.1738

mode liq bi g mu pl ilm ru q H2O
0 0.1738 0.08203 0.06989 0.2856 0.01017 0.001602 0.3407 0.03623

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.76 675.9 0.06031 0.1959 0.8935 0.0067760.0007700 0.6652
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7341 0.3506 0.3005 0.04065 0.09709 0.2786

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7269	0.07818	0.004569	0.3254	0.9654	0.3818
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2575	0.006803	0.6677	0.5120	0	0.1737

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1737	0.08229	0.07013	0.2854	0.01009	0.001640	0.3406	0.03621	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.78	675.8	0.06014	0.1958	0.8937	0.0067810	0.0007698	0.6651
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7344	0.3504	0.2993	0.04070	0.09707	0.2793	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7271	0.07901	0.004626	0.3253	0.9652	0.3815	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2572	0.006799	0.6651	0.5075	0	0.1735	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1735	0.08255	0.07037	0.2852	0.01002	0.001679	0.3405	0.03620	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.80	675.8	0.05996	0.1958	0.8939	0.0067860	0.0007695	0.6650
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7346	0.3502	0.2982	0.04076	0.09705	0.2800	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7273	0.07985	0.004684	0.3252	0.9650	0.3813	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2568	0.006794	0.6623	0.5029	0	0.1733	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1733	0.08282	0.07062	0.2849	0.009942	0.001719	0.3405	0.03618	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.82	675.7	0.05978	0.1957	0.8941	0.0067910	0.0007692	0.6650
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7349	0.3500	0.2970	0.04081	0.09703	0.2807	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7276	0.08071	0.004743	0.3250	0.9648	0.3811	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2564	0.006790	0.6594	0.4980	0	0.1731	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1731	0.08309	0.07086	0.2847	0.009864	0.001760	0.3404	0.03616	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.84	675.6	0.05960	0.1956	0.8942	0.0067950	0.0007688	0.6649
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7352	0.3498	0.2958	0.04086	0.09701	0.2814	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7278	0.08157	0.004803	0.3249	0.9646	0.3810	

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2561 0.006786 0.6564 0.4929 0 0.1730

mode liq bi g mu pl ilm ru q H2O
0 0.1730 0.08337 0.07111 0.2845 0.009784 0.001802 0.3403 0.03615

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.86 675.5 0.05942 0.1955 0.8944 0.0067990.0007685 0.6648
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7355 0.3496 0.2946 0.04092 0.09699 0.2820
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7280 0.08245 0.004865 0.3248 0.9644 0.3808
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2557 0.006782 0.6533 0.4875 0 0.1728

mode liq bi g mu pl ilm ru q H2O
0 0.1728 0.08365 0.07136 0.2843 0.009701 0.001845 0.3402 0.03613

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.88 675.4 0.05924 0.1955 0.8946 0.0068030.0007681 0.6648
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7357 0.3494 0.2934 0.04097 0.09697 0.2827
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7283 0.08333 0.004928 0.3247 0.9642 0.3806
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2553 0.006777 0.6500 0.4818 0 0.1726

mode liq bi g mu pl ilm ru q H2O
0 0.1726 0.08393 0.07161 0.2841 0.009617 0.001889 0.3402 0.03611

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 675.3 0.05906 0.1954 0.8948 0.0068070.0007677 0.6647
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7360 0.3493 0.2923 0.04102 0.09695 0.2834
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7285 0.08423 0.004992 0.3245 0.9640 0.3805
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2549 0.006773 0.6465 0.4757 0 0.1724

mode liq bi g mu pl ilm ru q H2O
0 0.1724 0.08422 0.07186 0.2838 0.009529 0.001934 0.3401 0.03609

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.92 675.2 0.05889 0.1953 0.8950 0.0068110.0007673 0.6647
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7363 0.3491 0.2911 0.04107 0.09692 0.2841
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7288 0.08514 0.005057 0.3244 0.9638 0.3803
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2545 0.006769 0.6428 0.4691 0 0.1723

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1723	0.08452	0.07211	0.2836	0.009439	0.001981	0.3400	0.03608	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.94	675.1	0.05871	0.1952	0.8951	0.0068140	0.0007669	0.6646
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7366	0.3489	0.2899	0.04112	0.09690	0.2848	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7290	0.08607	0.005124	0.3243	0.9636	0.3802	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2541	0.006766	0.6388	0.4620	0	0.1721	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1721	0.08482	0.07236	0.2834	0.009344	0.002030	0.3399	0.03606	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.96	675.0	0.05853	0.1952	0.8953	0.0068170	0.0007665	0.6645
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7368	0.3487	0.2887	0.04116	0.09688	0.2855	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7293	0.08701	0.005192	0.3242	0.9634	0.3800	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2537	0.006762	0.6346	0.4543	0	0.1719	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1719	0.08513	0.07261	0.2831	0.009245	0.002081	0.3399	0.03604	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.98	674.9	0.05835	0.1951	0.8955	0.0068190	0.0007660	0.6645
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7371	0.3485	0.2875	0.04121	0.09685	0.2862	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7296	0.08796	0.005262	0.3241	0.9632	0.3799	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2532	0.006759	0.6300	0.4458	0	0.1717	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1717	0.08545	0.07286	0.2829	0.009141	0.002134	0.3398	0.03602	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	674.8	0.05817	0.1950	0.8957	0.0068210	0.0007656	0.6645
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7374	0.3484	0.2863	0.04125	0.09683	0.2869	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7299	0.08892	0.005333	0.3240	0.9630	0.3797	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2528	0.006755	0.6249	0.4362	0	0.1716	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
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0 0.1716 0.08578 0.07310 0.2826 0.009029 0.002192 0.3397 0.03601

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.02 674.6 0.05799 0.1949 0.8959 0.0068230.0007651 0.6644
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7377 0.3482 0.2851 0.04129 0.09680 0.2876
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7302 0.08990 0.005406 0.3239 0.9628 0.3795
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2523 0.006753 0.6191 0.4252 0 0.1714

mode liq bi g mu pl ilm ru q H2O
0 0.1714 0.08612 0.07335 0.2824 0.008908 0.002254 0.3396 0.03599

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.04 674.5 0.05781 0.1949 0.8960 0.0068240.0007646 0.6644
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7379 0.3481 0.2839 0.04133 0.09677 0.2883
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7305 0.09090 0.005480 0.3238 0.9626 0.3793
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2518 0.006750 0.6124 0.4120 0 0.1712

mode liq bi g mu pl ilm ru q H2O
0 0.1712 0.08648 0.07359 0.2821 0.008771 0.002324 0.3395 0.03597

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.06 674.4 0.05763 0.1948 0.8962 0.0068240.0007641 0.6644
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7382 0.3480 0.2827 0.04136 0.09674 0.2890
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7309 0.09191 0.005556 0.3238 0.9624 0.3789
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2513 0.006749 0.6040 0.3950 0 0.1710

mode liq bi g mu pl ilm ru q H2O
0 0.1710 0.08688 0.07381 0.2819 0.008609 0.002407 0.3394 0.03596

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.08 674.3 0.05745 0.1947 0.8964 0.0068220.0007637 0.6645
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7385 0.3480 0.2815 0.04138 0.09671 0.2897
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7314 0.09297 0.005633 0.3238 0.9621 0.3783
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2507 0.006750 0.5914 0.3683 0 0.1709

mode liq bi g mu pl ilm ru q H2O
0 0.1709 0.08736 0.07401 0.2816 0.008382 0.002522 0.3393 0.03595

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.18    673.5 0.05652 0.1944 0.8972 0.0068010.0007613 0.6651
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7399 0.3483 0.2752 0.04138 0.09649 0.2937
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7340 0.09846 0.006038 0.3243 0.9606 0.3750
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2473 0.006762 0.4975 0.001139 0 0.1700

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1700 0.09005 0.07492 0.2803 0.007059 0.003194 0.3386 0.03592

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20    673.4 0.05634 0.1943 0.8974 0.0068040.0007605 0.6649
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7402 0.3480 0.2741 0.04142 0.09647 0.2943
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7342 0.09951 0.006123 0.3240 0.9605 0.3755
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2469 0.006755 0.4970 0.001057 0 0.1698

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1698 0.09028 0.07526 0.2800 0.007047 0.003202 0.3385 0.03589

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.22    673.3 0.05617 0.1942 0.8976 0.0068060.0007597 0.6647
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7404 0.3477 0.2729 0.04146 0.09646 0.2950
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7343 0.1006 0.006209 0.3237 0.9604 0.3761
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2465 0.006748 0.49640.0009853 0 0.1696

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1696 0.09050 0.07560 0.2797 0.007034 0.003209 0.3385 0.03586

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.24    673.2 0.05600 0.1942 0.8978 0.0068080.0007589 0.6645
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7407 0.3473 0.2718 0.04150 0.09644 0.2956
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7344 0.1016 0.006298 0.3235 0.9603 0.3767
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2460 0.006742 0.49580.0009225 0 0.1695

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1695 0.09073 0.07594 0.2793 0.007021 0.003217 0.3385 0.03582

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.26    673.1 0.05582 0.1941 0.8981 0.0068100.0007581 0.6643

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7410 0.3470 0.2707 0.04155 0.09642 0.2963
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7346 0.1027 0.006389 0.3232 0.9602 0.3773
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2455 0.006735 0.49520.0008670 0 0.1693

mode liq bi g mu pl ilm ru q H2O
0 0.1693 0.09096 0.07628 0.2790 0.007008 0.003224 0.3384 0.03579

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.28 673.0 0.05565 0.1940 0.8983 0.0068120.0007572 0.6641
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7412 0.3467 0.2695 0.04159 0.09640 0.2969
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7347 0.1038 0.006481 0.3229 0.9601 0.3780
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2451 0.006729 0.49460.0008176 0 0.1691

mode liq bi g mu pl ilm ru q H2O
0 0.1691 0.09119 0.07663 0.2787 0.006995 0.003232 0.3384 0.03575

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.30 672.9 0.05548 0.1939 0.8985 0.0068130.0007564 0.6639
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7415 0.3463 0.2684 0.04163 0.09638 0.2976
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7349 0.1049 0.006576 0.3226 0.9600 0.3787
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2446 0.006722 0.49400.0007736 0 0.1689

mode liq bi g mu pl ilm ru q H2O
0 0.1689 0.09143 0.07698 0.2783 0.006982 0.003239 0.3384 0.03572

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.32 672.8 0.05531 0.1939 0.8987 0.0068150.0007555 0.6638
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7418 0.3460 0.2672 0.04167 0.09635 0.2982
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7350 0.1061 0.006673 0.3223 0.9599 0.3794
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2441 0.006716 0.49340.0007333 0 0.1688

mode liq bi g mu pl ilm ru q H2O
0 0.1688 0.09166 0.07734 0.2780 0.006968 0.003247 0.3384 0.03568

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.34 672.7 0.05513 0.1938 0.8990 0.0068160.0007546 0.6636
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7420 0.3457 0.2661 0.04171 0.09633 0.2989

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7352 0.1072 0.006772 0.3221 0.9599 0.3802
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2436 0.006709 0.49280.0006970 0 0.1686

mode liq bi g mu pl ilm ru q H2O
0 0.1686 0.09190 0.07770 0.2776 0.006955 0.003255 0.3383 0.03565

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.36 672.5 0.05496 0.1937 0.8992 0.0068170.0007536 0.6634
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7423 0.3453 0.2650 0.04175 0.09631 0.2996
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7353 0.1084 0.006873 0.3218 0.9598 0.3810
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2432 0.006703 0.49220.0006641 0 0.1684

mode liq bi g mu pl ilm ru q H2O
0 0.1684 0.09213 0.07806 0.2773 0.006941 0.003262 0.3383 0.03561

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.38 672.4 0.05479 0.1936 0.8994 0.0068170.0007527 0.6632
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7426 0.3450 0.2638 0.04179 0.09629 0.3002
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7355 0.1095 0.006977 0.3215 0.9597 0.3818
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2427 0.006696 0.49160.0006340 0 0.1683

mode liq bi g mu pl ilm ru q H2O
0 0.1683 0.09237 0.07842 0.2769 0.006927 0.003270 0.3383 0.03557

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 672.3 0.05462 0.1936 0.8997 0.0068180.0007517 0.6630
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7428 0.3447 0.2627 0.04183 0.09627 0.3009
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7356 0.1107 0.007083 0.3212 0.9597 0.3827
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2421 0.006690 0.49100.0006073 0 0.1681

mode liq bi g mu pl ilm ru q H2O
0 0.1681 0.09261 0.07879 0.2765 0.006913 0.003278 0.3383 0.03553

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.42 672.2 0.05444 0.1935 0.8999 0.0068180.0007507 0.6628
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7431 0.3443 0.2616 0.04187 0.09624 0.3015
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7358 0.1119 0.007192 0.3209 0.9597 0.3836

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2416 0.006684 0.49040.0005810 0 0.1679

mode liq bi g mu pl ilm ru q H2O
0 0.1679 0.09285 0.07917 0.2761 0.006898 0.003285 0.3383 0.03550

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.44 672.1 0.05427 0.1934 0.9001 0.0068180.0007497 0.6626
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7434 0.3440 0.2604 0.04191 0.09622 0.3022
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7360 0.1131 0.007303 0.3206 0.9596 0.3845
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2411 0.006678 0.48980.0005575 0 0.1678

mode liq bi g mu pl ilm ru q H2O
0 0.1678 0.09309 0.07954 0.2757 0.006884 0.003293 0.3382 0.03545

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.46 672.0 0.05410 0.1933 0.9003 0.0068170.0007487 0.6624
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7436 0.3437 0.2593 0.04195 0.09620 0.3028
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7361 0.1144 0.007417 0.3204 0.9596 0.3855
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2406 0.006672 0.48920.0005358 0 0.1676

mode liq bi g mu pl ilm ru q H2O
0 0.1676 0.09333 0.07992 0.2753 0.006869 0.003301 0.3382 0.03541

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.48 671.8 0.05393 0.1933 0.9006 0.0068160.0007477 0.6622
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7439 0.3433 0.2582 0.04198 0.09617 0.3035
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7363 0.1156 0.007533 0.3201 0.9596 0.3866
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2400 0.006666 0.48860.0005165 0 0.1674

mode liq bi g mu pl ilm ru q H2O
0 0.1674 0.09357 0.08031 0.2749 0.006854 0.003309 0.3382 0.03537

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 671.7 0.05375 0.1932 0.9008 0.0068150.0007466 0.6620
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7442 0.3430 0.2570 0.04202 0.09615 0.3041
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7365 0.1169 0.007653 0.3198 0.9595 0.3877
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2395 0.006660 0.48790.0004973 0 0.1673

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1673	0.09381	0.08070	0.2745	0.006839	0.003316	0.3382	0.03533	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.52	671.6	0.05358	0.1931	0.9010	0.0068140	0.0007455	0.6618
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7444	0.3427	0.2559	0.04205	0.09612	0.3048	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7367	0.1182	0.007775	0.3195	0.9595	0.3888	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2389	0.006654	0.48730	0.0004796	0	0.1671	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1671	0.09405	0.08109	0.2741	0.006824	0.003324	0.3382	0.03528	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.54	671.5	0.05341	0.1930	0.9013	0.0068130	0.0007444	0.6616
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7447	0.3424	0.2547	0.04209	0.09609	0.3055	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7369	0.1195	0.007900	0.3192	0.9595	0.3900	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2383	0.006648	0.48670	0.0004631	0	0.1670	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1670	0.09430	0.08149	0.2737	0.006808	0.003332	0.3382	0.03524	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.56	671.3	0.05324	0.1930	0.9015	0.0068110	0.0007433	0.6615
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7450	0.3421	0.2536	0.04212	0.09607	0.3061	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7371	0.1208	0.008029	0.3190	0.9595	0.3912	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2378	0.006643	0.48610	0.0004478	0	0.1668	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.1668	0.09454	0.08189	0.2732	0.006792	0.003340	0.3382	0.03519	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.58	671.2	0.05307	0.1929	0.9017	0.0068090	0.0007421	0.6613
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7453	0.3417	0.2525	0.04216	0.09604	0.3068	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7373	0.1221	0.008160	0.3187	0.9595	0.3925	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2372	0.006637	0.48550	0.0004335	0	0.1667	

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
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0 0.1667 0.09478 0.08230 0.2728 0.006776 0.003348 0.3382 0.03514

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 671.1 0.05289 0.1928 0.9020 0.0068070.0007409 0.6611
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7455 0.3414 0.2513 0.04219 0.09601 0.3074
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7375 0.1235 0.008295 0.3184 0.9596 0.3939
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2366 0.006632 0.48490.0004200 0 0.1665

mode liq bi g mu pl ilm ru q H2O
0 0.1665 0.09503 0.08271 0.2723 0.006760 0.003356 0.3382 0.03509

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.62 670.9 0.05272 0.1927 0.9022 0.0068040.0007397 0.6609
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7458 0.3411 0.2502 0.04222 0.09598 0.3081
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7377 0.1249 0.008433 0.3181 0.9596 0.3953
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2360 0.006627 0.48420.0004073 0 0.1664

mode liq bi g mu pl ilm ru q H2O
0 0.1664 0.09527 0.08313 0.2719 0.006744 0.003363 0.3382 0.03504

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.64 670.8 0.05255 0.1927 0.9024 0.0068010.0007385 0.6607
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7461 0.3408 0.2491 0.04226 0.09596 0.3088
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7379 0.1263 0.008575 0.3179 0.9596 0.3968
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2354 0.006622 0.48360.0003954 0 0.1663

mode liq bi g mu pl ilm ru q H2O
0 0.1663 0.09551 0.08356 0.2714 0.006727 0.003371 0.3382 0.03499

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.66 670.7 0.05238 0.1926 0.9027 0.0067980.0007373 0.6605
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7463 0.3405 0.2479 0.04229 0.09593 0.3094
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7382 0.1277 0.008721 0.3176 0.9597 0.3984
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2347 0.006617 0.48300.0003841 0 0.1661

mode liq bi g mu pl ilm ru q H2O
0 0.1661 0.09576 0.08398 0.2709 0.006710 0.003379 0.3382 0.03494

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.68    670.5 0.05221 0.1925 0.9029 0.0067940.0007360 0.6603
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7466 0.3402 0.2468 0.04232 0.09590 0.3101
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7384 0.1291 0.008870 0.3173 0.9598 0.4000
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2341 0.006612 0.48240.0003735 0 0.1660

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1660 0.09600 0.08442 0.2704 0.006693 0.003387 0.3382 0.03488

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.70    670.4 0.05204 0.1924 0.9031 0.0067900.0007348 0.6602
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7469 0.3399 0.2456 0.04235 0.09586 0.3108
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7386 0.1306 0.009023 0.3171 0.9598 0.4017
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2335 0.006608 0.48180.0003635 0 0.1659

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1659 0.09624 0.08486 0.2699 0.006675 0.003395 0.3382 0.03483

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.72    670.2 0.05186 0.1923 0.9033 0.0067860.0007335 0.6600
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7471 0.3397 0.2445 0.04237 0.09583 0.3115
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7389 0.1321 0.009181 0.3168 0.9599 0.4035
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2328 0.006603 0.48120.0003539 0 0.1658

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1658 0.09648 0.08531 0.2694 0.006657 0.003402 0.3382 0.03477

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.74    670.1 0.05169 0.1923 0.9036 0.0067820.0007321 0.6598
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7474 0.3394 0.2433 0.04240 0.09580 0.3121
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7392 0.1336 0.009342 0.3166 0.9600 0.4053
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2322 0.006599 0.48060.0003449 0 0.1657

mode     liq  bi  g  mu  pl  ilm  ru  q  H2O
0 0.1657 0.09672 0.08576 0.2688 0.006639 0.003410 0.3382 0.03471

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.76    669.9 0.05152 0.1922 0.9038 0.0067770.0007308 0.6597

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7477 0.3391 0.2422 0.04243 0.09577 0.3128
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7394 0.1351 0.009509 0.3164 0.9602 0.4073
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2315 0.006595 0.48000.0003364 0 0.1656

mode liq bi g mu pl ilm ru q H2O
 0 0.1656 0.09695 0.08622 0.2683 0.006621 0.003418 0.3383 0.03464

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.78 669.8 0.05135 0.1921 0.9040 0.0067720.0007294 0.6595
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7479 0.3389 0.2410 0.04245 0.09573 0.3135
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7397 0.1366 0.009680 0.3161 0.9603 0.4093
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2308 0.006591 0.47940.0003283 0 0.1655

mode liq bi g mu pl ilm ru q H2O
 0 0.1655 0.09718 0.08669 0.2677 0.006602 0.003425 0.3383 0.03458

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.80 669.6 0.05118 0.1920 0.9042 0.0067670.0007280 0.6594
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7482 0.3386 0.2399 0.04247 0.09570 0.3142
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7400 0.1382 0.009856 0.3159 0.9604 0.4115
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2301 0.006588 0.47870.0003206 0 0.1654

mode liq bi g mu pl ilm ru q H2O
 0 0.1654 0.09742 0.08716 0.2672 0.006583 0.003433 0.3383 0.03451

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.82 669.5 0.05101 0.1920 0.9044 0.0067610.0007266 0.6592
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7485 0.3384 0.2387 0.04250 0.09566 0.3149
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7403 0.1398 0.01004 0.3157 0.9606 0.4137
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2294 0.006585 0.47810.0003134 0 0.1653

mode liq bi g mu pl ilm ru q H2O
 0 0.1653 0.09764 0.08764 0.2666 0.006563 0.003441 0.3384 0.03444

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.84 669.3 0.05083 0.1919 0.9046 0.0067550.0007252 0.6591
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7487 0.3382 0.2376 0.04252 0.09563 0.3156

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7407 0.1415 0.01022 0.3155 0.9608 0.4161
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2287 0.006582 0.47760.0003065 0 0.1652

mode liq bi g mu pl ilm ru q H2O
 0 0.1652 0.09787 0.08814 0.2660 0.006543 0.003448 0.3384 0.03437

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.86 669.2 0.05066 0.1918 0.9049 0.0067490.0007237 0.6590
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7490 0.3379 0.2364 0.04254 0.09559 0.3163
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7410 0.1431 0.01042 0.3153 0.9610 0.4186
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2280 0.006580 0.47700.0003005 0 0.1652

mode liq bi g mu pl ilm ru q H2O
 0 0.1652 0.09809 0.08864 0.2654 0.006523 0.003456 0.3385 0.03430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.88 669.0 0.05049 0.1917 0.9051 0.0067420.0007223 0.6588
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7493 0.3377 0.2353 0.04255 0.09555 0.3170
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7414 0.1448 0.01061 0.3151 0.9612 0.4212
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2273 0.006578 0.47640.0002942 0 0.1651

mode liq bi g mu pl ilm ru q H2O
 0 0.1651 0.09830 0.08914 0.2647 0.006503 0.003463 0.3385 0.03422

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.90 668.8 0.05032 0.1917 0.9053 0.0067350.0007208 0.6587
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7496 0.3376 0.2341 0.04257 0.09551 0.3177
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7418 0.1466 0.01082 0.3149 0.9614 0.4239
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2265 0.006576 0.47580.0002882 0 0.1651

mode liq bi g mu pl ilm ru q H2O
 0 0.1651 0.09851 0.08966 0.2641 0.006482 0.003470 0.3386 0.03414

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.92 668.7 0.05015 0.1916 0.9054 0.0067280.0007192 0.6587
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7498 0.3374 0.2329 0.04258 0.09547 0.3184
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7422 0.1484 0.01103 0.3148 0.9617 0.4269

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2258 0.006575 0.47520.0002825 0 0.1651

mode liq bi g mu pl ilm ru q H2O
0 0.1651 0.09871 0.09019 0.2634 0.006460 0.003478 0.3386 0.03406

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.94 668.5 0.04998 0.1915 0.9056 0.0067200.0007177 0.6586
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7501 0.3373 0.2318 0.04259 0.09543 0.3191
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7426 0.1502 0.01125 0.3147 0.9620 0.4299
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2251 0.006575 0.47470.0002771 0 0.1651

mode liq bi g mu pl ilm ru q H2O
0 0.1651 0.09891 0.09073 0.2627 0.006438 0.003485 0.3387 0.03397

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.96 668.3 0.04981 0.1914 0.9058 0.0067120.0007161 0.6585
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7504 0.3371 0.2306 0.04260 0.09539 0.3198
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7430 0.1520 0.01148 0.3146 0.9623 0.4332
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2243 0.006575 0.47410.0002721 0 0.1651

mode liq bi g mu pl ilm ru q H2O
0 0.1651 0.09909 0.09129 0.2620 0.006416 0.003492 0.3388 0.03388

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.98 668.1 0.04964 0.1913 0.9060 0.0067040.0007144 0.6585
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7507 0.3370 0.2294 0.04261 0.09534 0.3206
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7435 0.1539 0.01172 0.3145 0.9627 0.4367
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2235 0.006576 0.47360.0002673 0 0.1651

mode liq bi g mu pl ilm ru q H2O
0 0.1651 0.09927 0.09185 0.2612 0.006393 0.003499 0.3389 0.03378

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 668.0 0.04947 0.1913 0.9061 0.0066960.0007128 0.6585
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7509 0.3370 0.2282 0.04261 0.09530 0.3213
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7440 0.1559 0.01196 0.3144 0.9631 0.4404
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2228 0.006578 0.47300.0002628 0 0.1652

```

mode   liq   bi   g   mu   pl   ilm   ru   q   H2O
      0 0.1652 0.09943 0.09243 0.2604 0.006369 0.003505 0.3390 0.03368
calcs use:

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, q, H2O

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 681.8 0.06866 0.1973 0.8802 0.0071670.0007712 0.6660
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7224 0.3559 0.3522 0.03948 0.09865 0.2478
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7175 0.05667 0.003327 0.3283 0.9660 0.3362
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2930 0.006815 0.5195-0.0007760 0.09875 0.1733

```

```

mode   liq   bi   g   mu   pl   ilm   ru   q   H2O
      0.09875 0.1733 0.08574 0.05321 0.2547 0.007549 0.002903 0.3239 0

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.03 681.7 0.06837 0.1973 0.8805 0.0071800.0007715 0.6659
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7229 0.3555 0.3504 0.03957 0.09865 0.2488
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7176 0.05748 0.003372 0.3280 0.9657 0.3360
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2926 0.006807 0.5189-0.0008216 0.09854 0.1730

```

```

mode   liq   bi   g   mu   pl   ilm   ru   q   H2O
      0.09854 0.1730 0.08598 0.05362 0.2546 0.007536 0.002912 0.3239 0

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.06 681.6 0.06808 0.1972 0.8808 0.0071930.0007718 0.6657
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7233 0.3551 0.3486 0.03965 0.09864 0.2498
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7177 0.05830 0.003417 0.3278 0.9654 0.3358
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.2923 0.006799 0.5182-0.0008734 0.09833 0.1727

```

```

mode   liq   bi   g   mu   pl   ilm   ru   q   H2O
      0.09833 0.1727 0.08621 0.05404 0.2544 0.007524 0.002921 0.3239 0

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.09 681.5 0.06779 0.1971 0.8811 0.0072060.0007721 0.6656
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```


0.7237 0.3547 0.3468 0.03974 0.09863 0.2508
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7179 0.05914 0.003464 0.3275 0.9652 0.3355
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2919 0.006790 0.5176-0.0009329 0.09813 0.1725

mode liq bi g mu pl ilm ru q H2O
0.09813 0.1725 0.08645 0.05446 0.2542 0.007511 0.002931 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.12 681.4 0.06750 0.1970 0.8814 0.0072190.0007723 0.6654
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7242 0.3542 0.3450 0.03982 0.09862 0.2518
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7180 0.05998 0.003512 0.3272 0.9649 0.3354
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2915 0.006782 0.5169-0.001002 0.09792 0.1722

mode liq bi g mu pl ilm ru q H2O
0.09792 0.1722 0.08669 0.05488 0.2540 0.007498 0.002940 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.15 681.3 0.06722 0.1969 0.8817 0.0072310.0007725 0.6653
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7246 0.3538 0.3432 0.03991 0.09861 0.2528
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7181 0.06085 0.003561 0.3269 0.9646 0.3352
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2911 0.006774 0.5162-0.001083 0.09771 0.1719

mode liq bi g mu pl ilm ru q H2O
0.09771 0.1719 0.08694 0.05530 0.2538 0.007485 0.002950 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.18 681.2 0.06693 0.1968 0.8820 0.0072440.0007727 0.6651
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7250 0.3534 0.3415 0.03999 0.09860 0.2538
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7183 0.06173 0.003612 0.3266 0.9644 0.3350
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2907 0.006765 0.5155-0.001179 0.09751 0.1716

mode liq bi g mu pl ilm ru q H2O
0.09751 0.1716 0.08718 0.05573 0.2536 0.007472 0.002959 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.21 681.1 0.06665 0.1967 0.8823 0.0072560.0007728 0.6649
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7255 0.3529 0.3397 0.04008 0.09859 0.2548
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7184 0.06262 0.003664 0.3263 0.9641 0.3349
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2903 0.006757 0.5148-0.001296 0.09730 0.1714

mode liq bi g mu pl ilm ru q H2O
0.09730 0.1714 0.08743 0.05615 0.2534 0.007459 0.002969 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.24 681.0 0.06636 0.1966 0.8826 0.0072680.0007729 0.6648
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7259 0.3525 0.3379 0.04016 0.09858 0.2558
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7185 0.06353 0.003717 0.3261 0.9638 0.3348
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2899 0.006749 0.5142-0.001438 0.09709 0.1711

mode liq bi g mu pl ilm ru q H2O
0.09709 0.1711 0.08768 0.05658 0.2532 0.007446 0.002978 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.27 680.9 0.06608 0.1965 0.8829 0.0072790.0007730 0.6646
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7263 0.3520 0.3361 0.04025 0.09857 0.2568
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7187 0.06445 0.003771 0.3258 0.9636 0.3347
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2894 0.006740 0.5135-0.001620 0.09689 0.1708

mode liq bi g mu pl ilm ru q H2O
0.09689 0.1708 0.08794 0.05701 0.2530 0.007432 0.002988 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.30 680.8 0.06579 0.1964 0.8833 0.0072910.0007730 0.6644
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7267 0.3516 0.3343 0.04033 0.09855 0.2577
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7188 0.06539 0.003827 0.3255 0.9633 0.3346
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2890 0.006732 0.5128-0.001856 0.09668 0.1705

mode liq bi g mu pl ilm ru q H2O
0.09668 0.1705 0.08819 0.05744 0.2528 0.007419 0.002998 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.36 680.6 0.06523 0.1962 0.8839 0.0073130.0007729 0.6640
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7276 0.3507 0.3308 0.04050 0.09853 0.2597
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7191 0.06732 0.003944 0.3248 0.9628 0.3345
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2881 0.006715 0.5113-0.002636 0.09627 0.1700

mode liq bi g mu pl ilm ru q H2O
0.09627 0.1700 0.08871 0.05831 0.2524 0.007391 0.003017 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.39 680.5 0.06494 0.1961 0.8842 0.0073240.0007728 0.6638
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7280 0.3502 0.3290 0.04058 0.09852 0.2607
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7192 0.06831 0.004005 0.3245 0.9625 0.3345
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2876 0.006707 0.5106-0.003355 0.09606 0.1697

mode liq bi g mu pl ilm ru q H2O
0.09606 0.1697 0.08898 0.05875 0.2522 0.007377 0.003027 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.42 680.4 0.06466 0.1960 0.8846 0.0073340.0007727 0.6636
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7284 0.3498 0.3272 0.04067 0.09850 0.2617
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7193 0.06932 0.004067 0.3242 0.9622 0.3345
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2872 0.006698 0.5099-0.004621 0.09585 0.1695

mode liq bi g mu pl ilm ru q H2O
0.09585 0.1695 0.08924 0.05919 0.2520 0.007363 0.003037 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.51 680.0 0.06382 0.1957 0.8856 0.0073660.0007720 0.6630
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7297 0.3483 0.3219 0.04092 0.09846 0.2646
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7197 0.07243 0.004264 0.3231 0.9615 0.3348
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2857 0.006670 0.5116 -0.07410 0.09521 0.1686

mode liq bi g mu pl ilm ru q H2O
0.09521 0.1686 0.09001 0.06055 0.2513 0.007368 0.003043 0.3239 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.54 679.9 0.06354 0.1956 0.8859 0.0073740.0007717 0.6628
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7301 0.3479 0.3201 0.04099 0.09844 0.2657
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7199 0.07354 0.004335 0.3229 0.9612 0.3347
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2852 0.006664 0.5070 0.008348 0.09501 0.1684

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.09501	0.1684	0.09034	0.06098	0.2510	0.007306	0.003077	0.3239		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.57	679.8	0.06326	0.1955	0.8862	0.0073830	0.0007714	0.6626			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7305	0.3475	0.3183	0.04108	0.09842	0.2666				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7201	0.07464	0.004406	0.3225	0.9609	0.3348				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2846	0.006655	0.5062	0.004839	0.09480	0.1681				

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.09480	0.1681	0.09062	0.06143	0.2508	0.007291	0.003087	0.3239		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.60	679.7	0.06298	0.1954	0.8866	0.0073920	0.0007710	0.6624			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7309	0.3470	0.3166	0.04116	0.09840	0.2676				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7202	0.07575	0.004480	0.3222	0.9607	0.3350				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2841	0.006647	0.5054	0.003400	0.09459	0.1678				

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.09459	0.1678	0.09091	0.06189	0.2505	0.007276	0.003097	0.3239		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.63	679.5	0.06270	0.1953	0.8869	0.0074000	0.0007706	0.6621			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7313	0.3465	0.3148	0.04124	0.09839	0.2686				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7203	0.07689	0.004556	0.3218	0.9604	0.3352				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2835	0.006638	0.5046	0.002615	0.09438	0.1675				

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.09438	0.1675	0.09120	0.06235	0.2502	0.007261	0.003107	0.3240		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.66	679.4	0.06243	0.1952	0.8873	0.0074090	0.0007702	0.6619			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7318	0.3460	0.3130	0.04132	0.09837	0.2696				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7205	0.07805	0.004634	0.3214	0.9602	0.3354				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2830	0.006629	0.5038	0.002119	0.09416	0.1672				

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.09416	0.1672	0.09149	0.06281	0.2500	0.007246	0.003118	0.3240		0

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.69    679.3 0.06215 0.1951 0.8876 0.0074160.0007697 0.6617
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7322 0.3455 0.3112 0.04140 0.09835 0.2706
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7206 0.07923 0.004714 0.3211 0.9599 0.3356
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2824 0.006621 0.5030 0.001781 0.09395 0.1670

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.09395 0.1670 0.09179 0.06328 0.2497 0.007230 0.003128 0.3240 0

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.72    679.1 0.06187 0.1950 0.8880 0.0074240.0007691 0.6614
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7326 0.3451 0.3095 0.04148 0.09833 0.2716
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7208 0.08044 0.004797 0.3207 0.9597 0.3358
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2818 0.006612 0.5023 0.001531 0.09373 0.1667

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.09373 0.1667 0.09209 0.06375 0.2494 0.007214 0.003139 0.3240 0

```

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.75    679.0 0.06159 0.1949 0.8883 0.0074310.0007685 0.6612
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7330 0.3446 0.3077 0.04156 0.09831 0.2726
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7209 0.08166 0.004882 0.3203 0.9595 0.3361
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2812 0.006603 0.5015 0.001342 0.09352 0.1664

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.09352 0.1664 0.09239 0.06423 0.2491 0.007199 0.003149 0.3240 0

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.78    678.9 0.06132 0.1948 0.8887 0.0074380.0007679 0.6609
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7334 0.3441 0.3059 0.04163 0.09829 0.2735
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7211 0.08290 0.004969 0.3199 0.9592 0.3365
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2805 0.006595 0.5007 0.001193 0.09330 0.1661

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.09330 0.1661 0.09270 0.06471 0.2488 0.007182 0.003160 0.3240 0

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)

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10.81 678.7 0.06104 0.1947 0.8890 0.0074440.0007672 0.6607
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7338 0.3436 0.3042 0.04171 0.09827 0.2745
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7212 0.08417 0.005060 0.3196 0.9590 0.3368
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2799 0.006586 0.4998 0.001073 0.09308 0.1659

mode liq bi g mu pl ilm ru q H2O
 0.09308 0.1659 0.09301 0.06519 0.2485 0.007166 0.003170 0.3240 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.84 678.6 0.06076 0.1946 0.8894 0.0074500.0007665 0.6604
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7342 0.3431 0.3024 0.04179 0.09824 0.2755
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7214 0.08546 0.005152 0.3192 0.9588 0.3372
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2793 0.006577 0.49900.0009734 0.09286 0.1656

mode liq bi g mu pl ilm ru q H2O
 0.09286 0.1656 0.09332 0.06568 0.2482 0.007150 0.003181 0.3241 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.87 678.5 0.06049 0.1945 0.8898 0.0074550.0007657 0.6602
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7346 0.3426 0.3007 0.04187 0.09822 0.2765
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7216 0.08677 0.005248 0.3188 0.9586 0.3376
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2786 0.006569 0.49820.0008901 0.09264 0.1653

mode liq bi g mu pl ilm ru q H2O
 0.09264 0.1653 0.09364 0.06617 0.2479 0.007133 0.003192 0.3241 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.90 678.3 0.06021 0.1944 0.8902 0.0074600.0007649 0.6599
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7350 0.3421 0.2989 0.04194 0.09819 0.2775
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7217 0.08810 0.005347 0.3184 0.9583 0.3381
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2779 0.006560 0.49740.0008195 0.09242 0.1650

mode liq bi g mu pl ilm ru q H2O
 0.09242 0.1650 0.09396 0.06667 0.2475 0.007116 0.003203 0.3241 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.93 678.2 0.05994 0.1943 0.8905 0.0074650.0007641 0.6596
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7355 0.3416 0.2971 0.04202 0.09817 0.2784
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7219 0.08946 0.005449 0.3180 0.9581 0.3386
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2772 0.006551 0.49650.0007585 0.09220 0.1647

mode liq bi g mu pl ilm ru q H2O
0.09220 0.1647 0.09428 0.06717 0.2472 0.007099 0.003214 0.3241 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.96 678.0 0.05966 0.1942 0.8909 0.0074690.0007632 0.6594
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7359 0.3411 0.2954 0.04210 0.09814 0.2794
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7220 0.09085 0.005553 0.3176 0.9579 0.3391
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2765 0.006542 0.49570.0007054 0.09197 0.1645

mode liq bi g mu pl ilm ru q H2O
0.09197 0.1645 0.09461 0.06767 0.2468 0.007081 0.003225 0.3241 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.99 677.9 0.05939 0.1941 0.8913 0.0074730.0007623 0.6591
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7363 0.3406 0.2936 0.04217 0.09812 0.2804
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7222 0.09225 0.005662 0.3171 0.9577 0.3397
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2758 0.006534 0.49480.0006589 0.09174 0.1642

mode liq bi g mu pl ilm ru q H2O
0.09174 0.1642 0.09494 0.06819 0.2465 0.007063 0.003236 0.3242 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.02 677.7 0.05911 0.1940 0.8917 0.0074760.0007613 0.6588
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7367 0.3400 0.2919 0.04225 0.09809 0.2814
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7224 0.09369 0.005773 0.3167 0.9575 0.3404
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2750 0.006525 0.49400.0006178 0.09151 0.1639

mode liq bi g mu pl ilm ru q H2O
0.09151 0.1639 0.09528 0.06870 0.2461 0.007045 0.003247 0.3242 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.05 677.5 0.05884 0.1939 0.8921 0.0074780.0007602 0.6585
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7371 0.3395 0.2901 0.04232 0.09806 0.2824
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7225 0.09515 0.005888 0.3163 0.9573 0.3410
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2743 0.006517 0.49310.0005812 0.09128 0.1636

mode liq bi g mu pl ilm ru q H2O
0.09128 0.1636 0.09562 0.06922 0.2457 0.007027 0.003258 0.3242 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.08 677.4 0.05856 0.1938 0.8924 0.0074800.0007592 0.6582
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7375 0.3390 0.2883 0.04239 0.09803 0.2833
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7227 0.09663 0.006006 0.3159 0.9572 0.3418
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2735 0.006508 0.49230.0005484 0.09105 0.1633

mode liq bi g mu pl ilm ru q H2O
0.09105 0.1633 0.09596 0.06975 0.2454 0.007009 0.003269 0.3242 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.11 677.2 0.05829 0.1937 0.8928 0.0074820.0007581 0.6579
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7379 0.3385 0.2866 0.04247 0.09800 0.2843
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7229 0.09814 0.006129 0.3154 0.9570 0.3426
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2727 0.006499 0.49140.0005188 0.09081 0.1631

mode liq bi g mu pl ilm ru q H2O
0.09081 0.1631 0.09631 0.07029 0.2450 0.006990 0.003280 0.3243 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.14 677.0 0.05801 0.1936 0.8932 0.0074830.0007569 0.6576
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7383 0.3380 0.2848 0.04254 0.09797 0.2853
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7231 0.09968 0.006255 0.3150 0.9568 0.3434
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2719 0.006491 0.49050.0004927 0.09057 0.1628

mode liq bi g mu pl ilm ru q H2O
0.09057 0.1628 0.09666 0.07082 0.2446 0.006970 0.003292 0.3243 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.17 676.9 0.05774 0.1935 0.8936 0.0074830.0007557 0.6573
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7387 0.3374 0.2831 0.04261 0.09794 0.2863
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7233 0.1012 0.006385 0.3146 0.9567 0.3443
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2710 0.006482 0.48960.0004681 0.09033 0.1625

mode liq bi g mu pl ilm ru q H2O
0.09033 0.1625 0.09701 0.07137 0.2441 0.006951 0.003303 0.3244 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 676.7 0.05747 0.1934 0.8940 0.0074830.0007544 0.6570
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7391 0.3369 0.2813 0.04268 0.09791 0.2873
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7234 0.1028 0.006520 0.3141 0.9565 0.3452
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2702 0.006474 0.48870.0004457 0.09009 0.1623

mode liq bi g mu pl ilm ru q H2O
0.09009 0.1623 0.09737 0.07192 0.2437 0.006931 0.003315 0.3244 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.23 676.5 0.05719 0.1933 0.8944 0.0074820.0007531 0.6567
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7395 0.3364 0.2796 0.04275 0.09787 0.2882
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7236 0.1045 0.006658 0.3137 0.9564 0.3462
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2693 0.006465 0.48780.0004250 0.08984 0.1620

mode liq bi g mu pl ilm ru q H2O
0.08984 0.1620 0.09773 0.07248 0.2433 0.006911 0.003326 0.3244 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.26 676.3 0.05692 0.1932 0.8949 0.0074810.0007518 0.6564
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7399 0.3359 0.2778 0.04282 0.09784 0.2892
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7238 0.1061 0.006802 0.3132 0.9562 0.3473
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2684 0.006457 0.48690.0004063 0.08959 0.1617

mode liq bi g mu pl ilm ru q H2O
0.08959 0.1617 0.09810 0.07305 0.2428 0.006890 0.003338 0.3245 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.29 676.2 0.05665 0.1931 0.8953 0.0074790.0007504 0.6560
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7403 0.3353 0.2761 0.04289 0.09780 0.2902
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7240 0.1078 0.006950 0.3128 0.9561 0.3484
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2675 0.006449 0.48600.0003889 0.08934 0.1614

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.08934	0.1614	0.09847	0.07362	0.2424	0.006869	0.003350	0.3245		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
11.32	676.0	0.05637	0.1930	0.8957	0.0074760	0.0007489	0.6557			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7408	0.3348	0.2743	0.04296	0.09777	0.2912				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7242	0.1095	0.007103	0.3123	0.9560	0.3497				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2666	0.006440	0.48510	0.0003729	0.08909	0.1612				

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.08909	0.1612	0.09884	0.07420	0.2419	0.006848	0.003361	0.3246		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
11.35	675.8	0.05610	0.1929	0.8961	0.0074730	0.0007475	0.6554			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7412	0.3343	0.2725	0.04302	0.09773	0.2922				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7244	0.1112	0.007260	0.3118	0.9559	0.3509				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2656	0.006432	0.48420	0.0003581	0.08883	0.1609				

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.08883	0.1609	0.09921	0.07479	0.2414	0.006826	0.003373	0.3246		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
11.38	675.6	0.05583	0.1928	0.8965	0.0074690	0.0007459	0.6551			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7416	0.3338	0.2708	0.04309	0.09769	0.2931				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7246	0.1130	0.007424	0.3114	0.9558	0.3523				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2646	0.006424	0.48330	0.0003443	0.08857	0.1607				

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.08857	0.1607	0.09959	0.07539	0.2409	0.006804	0.003385	0.3247		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
11.41	675.4	0.05555	0.1927	0.8969	0.0074640	0.0007444	0.6547			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7420	0.3332	0.2690	0.04315	0.09765	0.2941				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7249	0.1148	0.007592	0.3109	0.9558	0.3537				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2636	0.006416	0.48240	0.0003314	0.08830	0.1604				

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O	
	0.08830	0.1604	0.09997	0.07599	0.2404	0.006782	0.003397	0.3247		0

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.44    675.2 0.05528 0.1926 0.8974 0.0074580.0007427 0.6544
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7424 0.3327 0.2673 0.04321 0.09761 0.2951
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7251 0.1166 0.007766 0.3105 0.9557 0.3553
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2626 0.006408 0.48140.0003194 0.08803 0.1602

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.08803 0.1602 0.1004 0.07661 0.2399 0.006759 0.003409 0.3248 0

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.47    675.0 0.05501 0.1925 0.8978 0.0074520.0007411 0.6541
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7428 0.3322 0.2655 0.04328 0.09756 0.2961
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7253 0.1185 0.007947 0.3100 0.9557 0.3569
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2616 0.006401 0.48050.0003082 0.08775 0.1599

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.08775 0.1599 0.1007 0.07723 0.2393 0.006735 0.003421 0.3249 0

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.50    674.8 0.05473 0.1924 0.8982 0.0074450.0007394 0.6537
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7432 0.3317 0.2637 0.04334 0.09752 0.2971
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7256 0.1204 0.008133 0.3095 0.9556 0.3586
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2605 0.006393 0.47960.0002977 0.08747 0.1597

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.08747 0.1597 0.1011 0.07786 0.2388 0.006712 0.003433 0.3249 0

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.53    674.5 0.05446 0.1923 0.8987 0.0074370.0007376 0.6534
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7436 0.3312 0.2620 0.04340 0.09747 0.2981
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7258 0.1224 0.008326 0.3091 0.9556 0.3605
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2594 0.006385 0.47860.0002879 0.08719 0.1594

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.08719 0.1594 0.1015 0.07851 0.2382 0.006687 0.003445 0.3250 0

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)

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11.56 674.3 0.05419 0.1922 0.8991 0.0074280.0007358 0.6531
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7440 0.3307 0.2602 0.04345 0.09742 0.2991
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7261 0.1243 0.008525 0.3086 0.9556 0.3624
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2583 0.006378 0.47770.0002786 0.08690 0.1592

mode liq bi g mu pl ilm ru q H2O
0.08690 0.1592 0.1019 0.07916 0.2376 0.006662 0.003457 0.3251 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.59 674.1 0.05391 0.1921 0.8995 0.0074190.0007340 0.6527
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7444 0.3302 0.2584 0.04351 0.09737 0.3001
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7264 0.1263 0.008732 0.3082 0.9557 0.3644
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2571 0.006371 0.47670.0002699 0.08660 0.1590

mode liq bi g mu pl ilm ru q H2O
0.08660 0.1590 0.1023 0.07982 0.2370 0.006637 0.003469 0.3252 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.62 673.9 0.05364 0.1920 0.9000 0.0074080.0007321 0.6524
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7448 0.3297 0.2567 0.04356 0.09732 0.3011
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7267 0.1284 0.008946 0.3077 0.9557 0.3666
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2560 0.006364 0.47580.0002617 0.08630 0.1588

mode liq bi g mu pl ilm ru q H2O
0.08630 0.1588 0.1027 0.08050 0.2364 0.006611 0.003481 0.3253 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.65 673.6 0.05337 0.1919 0.9004 0.0073970.0007302 0.6521
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7452 0.3292 0.2549 0.04361 0.09727 0.3021
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7270 0.1305 0.009167 0.3073 0.9558 0.3689
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2548 0.006357 0.47490.0002540 0.08599 0.1585

mode liq bi g mu pl ilm ru q H2O
0.08599 0.1585 0.1031 0.08118 0.2357 0.006584 0.003493 0.3254 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.68 673.4 0.05309 0.1918 0.9009 0.0073850.0007282 0.6518
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7457 0.3287 0.2531 0.04366 0.09722 0.3031
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7273 0.1326 0.009397 0.3068 0.9559 0.3714
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2536 0.006351 0.47390.0002467 0.08567 0.1584

mode liq bi g mu pl ilm ru q H2O
 0.08567 0.1584 0.1035 0.08188 0.2351 0.006557 0.003506 0.3255 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.71 673.1 0.05282 0.1917 0.9013 0.0073720.0007262 0.6514
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7461 0.3282 0.2513 0.04371 0.09716 0.3041
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7276 0.1348 0.009635 0.3064 0.9560 0.3740
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2523 0.006345 0.47300.0002399 0.08535 0.1582

mode liq bi g mu pl ilm ru q H2O
 0.08535 0.1582 0.1039 0.08259 0.2344 0.006529 0.003518 0.3256 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.74 672.9 0.05255 0.1916 0.9017 0.0073580.0007242 0.6511
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7465 0.3278 0.2496 0.04376 0.09710 0.3051
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7280 0.1370 0.009882 0.3060 0.9561 0.3768
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2510 0.006339 0.47210.0002334 0.08501 0.1580

mode liq bi g mu pl ilm ru q H2O
 0.08501 0.1580 0.1043 0.08332 0.2337 0.006501 0.003530 0.3257 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.77 672.6 0.05227 0.1916 0.9022 0.0073430.0007221 0.6508
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7469 0.3274 0.2478 0.04380 0.09704 0.3061
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7283 0.1393 0.01014 0.3056 0.9563 0.3797
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2497 0.006334 0.47110.0002273 0.08467 0.1578

mode liq bi g mu pl ilm ru q H2O
 0.08467 0.1578 0.1046 0.08406 0.2329 0.006471 0.003542 0.3259 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.80 672.4 0.05200 0.1915 0.9026 0.0073270.0007200 0.6506
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7473 0.3269 0.2460 0.04384 0.09698 0.3072
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7287 0.1416 0.01041 0.3052 0.9565 0.3829
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2484 0.006329 0.47020.0002215 0.08432 0.1577

mode liq bi g mu pl ilm ru q H2O
0.08432 0.1577 0.1050 0.08481 0.2322 0.006441 0.003554 0.3260 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.83 672.1 0.05173 0.1914 0.9030 0.0073110.0007178 0.6503
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7477 0.3265 0.2442 0.04388 0.09692 0.3082
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7292 0.1439 0.01068 0.3048 0.9568 0.3862
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2471 0.006325 0.46930.0002161 0.08396 0.1575

mode liq bi g mu pl ilm ru q H2O
0.08396 0.1575 0.1054 0.08558 0.2314 0.006411 0.003566 0.3261 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.86 671.9 0.05145 0.1913 0.9035 0.0072930.0007156 0.6500
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7481 0.3262 0.2424 0.04391 0.09685 0.3093
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7296 0.1464 0.01097 0.3044 0.9571 0.3898
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2457 0.006321 0.46840.0002110 0.08358 0.1574

mode liq bi g mu pl ilm ru q H2O
0.08358 0.1574 0.1058 0.08637 0.2306 0.006379 0.003578 0.3263 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.89 671.6 0.05118 0.1912 0.9039 0.0072740.0007134 0.6498
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7485 0.3258 0.2406 0.04394 0.09678 0.3103
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7301 0.1488 0.01127 0.3041 0.9574 0.3937
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2443 0.006318 0.46750.0002062 0.08320 0.1573

mode liq bi g mu pl ilm ru q H2O
0.08320 0.1573 0.1061 0.08718 0.2298 0.006347 0.003589 0.3265 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.92 671.3 0.05091 0.1911 0.9043 0.0072550.0007111 0.6496
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7490 0.3255 0.2387 0.04396 0.09671 0.3114
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7306 0.1514 0.01159 0.3038 0.9578 0.3978
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2428 0.006316 0.46660.0002016 0.08280 0.1573

mode liq bi g mu pl ilm ru q H2O
0.08280 0.1573 0.1065 0.08800 0.2289 0.006314 0.003601 0.3266 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.95 671.0 0.05063 0.1910 0.9047 0.0072340.0007088 0.6494
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7494 0.3252 0.2369 0.04399 0.09664 0.3125
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7312 0.1540 0.01192 0.3035 0.9582 0.4023
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2414 0.006314 0.46570.0001974 0.08238 0.1572

mode liq bi g mu pl ilm ru q H2O
0.08238 0.1572 0.1068 0.08885 0.2280 0.006279 0.003612 0.3268 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.98 670.7 0.05036 0.1909 0.9051 0.0072130.0007064 0.6492
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7498 0.3250 0.2351 0.04400 0.09656 0.3136
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7318 0.1567 0.01226 0.3033 0.9586 0.4071
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2399 0.006314 0.46490.0001934 0.08194 0.1572

mode liq bi g mu pl ilm ru q H2O
0.08194 0.1572 0.1071 0.08973 0.2271 0.006244 0.003624 0.3271 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.01 670.4 0.05008 0.1908 0.9054 0.0071900.0007039 0.6491
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7502 0.3248 0.2332 0.04401 0.09648 0.3148
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7325 0.1595 0.01262 0.3031 0.9592 0.4123
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2384 0.006315 0.46410.0001898 0.08149 0.1572

mode liq bi g mu pl ilm ru q H2O
0.08149 0.1572 0.1074 0.09063 0.2261 0.006207 0.003634 0.3273 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.04 670.1 0.04981 0.1907 0.9058 0.0071660.0007014 0.6490
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7506 0.3246 0.2313 0.04402 0.09640 0.3159
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7333 0.1624 0.01301 0.3029 0.9598 0.4180
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2368 0.006317 0.46330.0001864 0.08101 0.1573

```

mode  liq  bi   g   mu   pl  ilm  ru   q   H2O
      0.08101 0.1573 0.1077 0.09156 0.2251 0.006169 0.003645 0.3275    0
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.07    669.8 0.04954 0.1906 0.9061 0.0071420.0006989 0.6490
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7511 0.3246 0.2295 0.04401 0.09631 0.3171
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7341 0.1654 0.01341 0.3028 0.9605 0.4242
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2353 0.006322 0.46250.0001833 0.08050 0.1574

mode  liq  bi   g   mu   pl  ilm  ru   q   H2O
      0.08050 0.1574 0.1080 0.09253 0.2240 0.006130 0.003655 0.3278    0
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10    669.4 0.04926 0.1905 0.9064 0.0071160.0006963 0.6490
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7515 0.3246 0.2276 0.04400 0.09622 0.3183
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7351 0.1685 0.01384 0.3028 0.9613 0.4311
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2337 0.006328 0.46180.0001805 0.07996 0.1576

mode  liq  bi   g   mu   pl  ilm  ru   q   H2O
      0.07996 0.1576 0.1082 0.09353 0.2228 0.006089 0.003665 0.3281    0
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.13    669.1 0.04899 0.1904 0.9067 0.0070900.0006935 0.6492
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7519 0.3247 0.2256 0.04398 0.09613 0.3196
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7361 0.1718 0.01431 0.3029 0.9622 0.4388
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2321 0.006338 0.46110.0001780 0.07938 0.1579

mode  liq  bi   g   mu   pl  ilm  ru   q   H2O
      0.07938 0.1579 0.1083 0.09459 0.2216 0.006046 0.003674 0.3285    0
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.16    668.7 0.04872 0.1903 0.9069 0.0070630.0006907 0.6494
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7524 0.3250 0.2237 0.04395 0.09603 0.3209
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7374 0.1753 0.01481 0.3032 0.9632 0.4474
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2304 0.006351 0.46050.0001759 0.07875 0.1582

mode  liq  bi   g   mu   pl  ilm  ru   q   H2O
      0.07875 0.1582 0.1084 0.09571 0.2203 0.006000 0.003682 0.3289    0

```



```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.19    668.4 0.04844 0.1901 0.9070 0.0070350.0006876 0.6498
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7528 0.3254 0.2217 0.04390 0.09592 0.3223
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7388 0.1791 0.01536 0.3036 0.9644 0.4574
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2288 0.006370 0.45990.0001743 0.07805 0.1587

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.07805 0.1587 0.1085 0.09690 0.2189 0.005952 0.003689 0.3293 0

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.22    668.0 0.04817 0.1900 0.9070 0.0070070.0006844 0.6504
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7533 0.3261 0.2197 0.04383 0.09581 0.3238
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7406 0.1833 0.01598 0.3042 0.9659 0.4691
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2272 0.006395 0.45950.0001732 0.07726 0.1594

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.07726 0.1594 0.1084 0.09819 0.2173 0.005900 0.003694 0.3299 0

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.25    667.6 0.04790 0.1899 0.9068 0.0069790.0006807 0.6513
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7537 0.3271 0.2176 0.04373 0.09568 0.3254
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7428 0.1880 0.01670 0.3052 0.9677 0.4835
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2255 0.006432 0.45930.0001729 0.07634 0.1603

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.07634 0.1603 0.1081 0.09964 0.2155 0.005842 0.003696 0.3306 0

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.28    667.1 0.04763 0.1897 0.9063 0.0069520.0006764 0.6527
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7542 0.3288 0.2155 0.04358 0.09554 0.3272
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7457 0.1937 0.01758 0.3069 0.9700 0.5023
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2239 0.006489 0.45930.0001740 0.07519 0.1617

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.07519 0.1617 0.1075 0.1013 0.2133 0.005775 0.003695 0.3314 0

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)

```

```

12.31  666.6 0.04737 0.1895 0.9050 0.0069320.0006701 0.6554
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7547 0.3320 0.2132 0.04332 0.09536 0.3294
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.7505 0.2017 0.01885 0.3100 0.9736 0.5318
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.2226 0.006595 0.46000.0001783 0.07351 0.1642

```

```

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.07351 0.1642 0.1062 0.1036 0.2102 0.005686 0.003682 0.3328 0
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
  6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.27   664.9 0.04722 0.1898 0.9025 0.0066120.0006756 0.6669
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7550 0.3470 0.2111 0.04184 0.09440 0.3341
      f(ep) Q(ep) x(g)  z(g)  f(g) fe(mu)
      0.2674 0.2534 0.7638 0.2003 0.01829 0.3244
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9777 0.5681 0.2135 0.006948 0.47000.0002492

```

```

mode  liq  bi  ep  g  mu  pl  ilm  ru  q  H2O
      0 0.1737 0 0.09654 0.1048 0.2413 0.005885 0.003524 0.3436 0.03061
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
  6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.26   667.4 0.04780 0.1898 0.9067 0.0069690.0006792 0.6517
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7539 0.3276 0.2168 0.04368 0.09563 0.3260
      f(ep) Q(ep) x(g)  z(g)  f(g) fe(mu)
      0.2660 0.2521 0.7438 0.1900 0.01701 0.3057
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9685 0.4899 0.2249 0.006451 0.45920.0001731

```

```

mode  liq  bi  ep  g  mu  pl  ilm  ru  q  H2O
      0.07594 0.1608 0 0.1079 0.1002 0.2147 0.005818 0.003696 0.3309 0
calcs use:

```

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.90	654.7	0.05662	0.1774	0.8751	0.007459	0.0005991	0.6918
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7568	0.3961	0.2579	0.03666	0.08914	0.3138	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2475	0.2367	0.7981	0.1873	0.01331	0.3646	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9979	0.8832	0.3105	0.005675	0.7494	0.6477	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06112	0.2103	0	0.05252	0.1002	0.2146	0.012150	0.0002531	0.3489

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	656.7	0.05623	0.1788	0.8738	0.007538	0.0006037	0.6918
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7558	0.3944	0.2587	0.03725	0.08995	0.3123	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2493	0.2382	0.7966	0.1881	0.01367	0.3638	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9977	0.8736	0.3066	0.005898	0.7355	0.6271	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06200	0.2088	0	0.05504	0.09954	0.2144	0.011480	0.0005659	0.3482

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.10	658.5	0.05582	0.1801	0.8728	0.007608	0.0006087	0.6916
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7548	0.3925	0.2590	0.03781	0.09075	0.3111	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2511	0.2396	0.7949	0.1890	0.01405	0.3627	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9974	0.8623	0.3026	0.006117	0.7201	0.6039	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06287	0.2072	0	0.05769	0.09902	0.2141	0.010820	0.0008715	0.3474

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	660.3	0.05538	0.1814	0.8722	0.007660	0.0006141	0.6911
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7539	0.3901	0.2587	0.03836	0.09151	0.3104	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2527	0.2410	0.7930	0.1900	0.01443	0.3613	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9971	0.8488	0.2981	0.006327	0.7029	0.5772	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06377	0.2053	0	0.06054	0.09862	0.2138	0.01018	0.001177	0.3466

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.30	661.9	0.05490	0.1826	0.8723	0.0077040	0.0006200	0.6903
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7531	0.3873	0.2576	0.03889	0.09222	0.3102	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2544	0.2423	0.7908	0.1910	0.01482	0.3594	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9966	0.8321	0.2932	0.006518	0.6826	0.5448	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06469	0.2031	0	0.06371	0.09834	0.2135	0.009532	0.001492	0.3457

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	663.3	0.05435	0.1838	0.8732	0.0077110	0.0006266	0.6889
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7524	0.3839	0.2555	0.03942	0.09286	0.3108	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2560	0.2437	0.7883	0.1920	0.01522	0.3568	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9959	0.8111	0.2875	0.006680	0.6568	0.5016	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06566	0.2004	0	0.06737	0.09822	0.2131	0.008834	0.001840	0.3446

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.50	664.3	0.05368	0.1849	0.8753	0.0076650	0.0006339	0.6869
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7521	0.3798	0.2518	0.03990	0.09335	0.3125	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2576	0.2450	0.7855	0.1930	0.01562	0.3536	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9950	0.7840	0.2803	0.006797	0.6121	0.4200	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06671	0.1970	0	0.07195	0.09824	0.2127	0.007896	0.002322	0.3432

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	664.6	0.05283	0.1857	0.8787	0.0075360	0.0006407	0.6849
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7523	0.3759	0.2461	0.04012	0.09357	0.3157	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2588	0.2461	0.7832	0.1946	0.01603	0.3503	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9936	0.7521	0.2710	0.006872	0.49010	0.008064	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
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0.06775 0.1931 0 0.07796 0.09837 0.2119 0.006263 0.003166 0.3414

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.70 664.9 0.05198 0.1864 0.8842 0.0074220.0006495 0.6794
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7526 0.3675 0.2399 0.04072 0.09387 0.3190
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2602 0.2472 0.7771 0.1943 0.01626 0.3427
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9912 0.7067 0.2627 0.006792 0.48560.0005353

mode liq bi ep g mu pl ilm ru q
0.06907 0.1876 0 0.08317 0.09889 0.2122 0.006186 0.003257 0.3396

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 665.0 0.05106 0.1869 0.8903 0.0072840.0006572 0.6732
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7531 0.3584 0.2334 0.04133 0.09406 0.3222
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2614 0.2483 0.7702 0.1933 0.01639 0.3342
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9878 0.6571 0.2540 0.006659 0.48040.0003884

mode liq bi ep g mu pl ilm ru q
0.07052 0.1816 0 0.08875 0.09929 0.2128 0.006110 0.003357 0.3376

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.90 665.1 0.05020 0.1875 0.8957 0.0071640.0006632 0.6672
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7536 0.3499 0.2281 0.04193 0.09427 0.3244
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2626 0.2493 0.7634 0.1921 0.01647 0.3262
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9838 0.6106 0.2461 0.006540 0.47510.0003022

mode liq bi ep g mu pl ilm ru q
0.07193 0.1759 0 0.09394 0.09954 0.2134 0.006040 0.003451 0.3358

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 665.5 0.04944 0.1880 0.8998 0.0070770.0006682 0.6619
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7539 0.3425 0.2239 0.04247 0.09456 0.3257
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2636 0.2501 0.7572 0.1911 0.01657 0.3193
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9796 0.5701 0.2392 0.006464 0.47020.0002479

mode liq bi ep g mu pl ilm ru q
0.07322 0.1709 0 0.09850 0.09971 0.2140 0.005975 0.003533 0.3341

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10    666.1 0.04876 0.1887 0.9030 0.0070190.0006725 0.6575
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7540 0.3361 0.2207 0.04297 0.09492 0.3262
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2646 0.2509 0.7516 0.1904 0.01670 0.3134
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9752 0.5355 0.2332 0.006431 0.46570.0002115

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.07437 0.1666 0 0.1025 0.09988 0.2144 0.005914 0.003603 0.3327

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20    666.9 0.04815 0.1894 0.9054 0.0069830.0006767 0.6537
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7540 0.3307 0.2182 0.04342 0.09535 0.3262
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2655 0.2516 0.7466 0.1901 0.01688 0.3085
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9710 0.5060 0.2279 0.006435 0.46160.0001856

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.07538 0.1629 0 0.1060 0.1001 0.2146 0.005854 0.003663 0.3315

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30    667.8 0.04759 0.1901 0.9073 0.0069620.0006808 0.6506
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7538 0.3259 0.2160 0.04384 0.09582 0.3259
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2664 0.2524 0.7421 0.1900 0.01710 0.3042
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9669 0.4805 0.2231 0.006465 0.45780.0001664

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.07628 0.1595 0 0.1091 0.1004 0.2147 0.005795 0.003716 0.3305

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40    668.8 0.04707 0.1909 0.9088 0.0069510.0006851 0.6478
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7536 0.3216 0.2142 0.04422 0.09632 0.3254
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2673 0.2531 0.7380 0.1903 0.01736 0.3004
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9629 0.4584 0.2186 0.006517 0.45440.0001512

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.07708 0.1565 0 0.1120 0.1007 0.2147 0.005736 0.003763 0.3295

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50    669.9 0.04657 0.1917 0.9101 0.0069470.0006894 0.6454

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7533 0.3178 0.2125 0.04458 0.09684 0.3248
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2682 0.2538 0.7342 0.1908 0.01766 0.2971
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9591 0.4391 0.2143 0.006586 0.45120.0001392

mode liq bi ep g mu pl ilm ru q
0.07779 0.1538 0 0.1146 0.1011 0.2145 0.005677 0.003806 0.3287

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 671.0 0.04610 0.1926 0.9111 0.0069470.0006939 0.6433
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7529 0.3143 0.2108 0.04491 0.09738 0.3242
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2691 0.2545 0.7308 0.1916 0.01800 0.2941
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9554 0.4221 0.2102 0.006667 0.44820.0001293

mode liq bi ep g mu pl ilm ru q
0.07842 0.1513 0 0.1171 0.1016 0.2141 0.005618 0.003846 0.3280

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.70 672.2 0.04564 0.1934 0.9119 0.0069490.0006984 0.6414
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7525 0.3111 0.2093 0.04522 0.09792 0.3235
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2700 0.2552 0.7276 0.1925 0.01837 0.2914
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9519 0.4071 0.2062 0.006757 0.44540.0001210

mode liq bi ep g mu pl ilm ru q
0.07899 0.1490 0 0.1194 0.1022 0.2137 0.005557 0.003883 0.3274

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 673.4 0.04520 0.1943 0.9127 0.0069510.0007030 0.6397
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7521 0.3081 0.2077 0.04551 0.09846 0.3229
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2709 0.2559 0.7246 0.1935 0.01877 0.2889
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9486 0.3938 0.2022 0.006854 0.44270.0001139

mode liq bi ep g mu pl ilm ru q
0.07949 0.1468 0 0.1216 0.1028 0.2132 0.005496 0.003918 0.3268

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.90 674.5 0.04476 0.1951 0.9134 0.0069520.0007076 0.6381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7518 0.3053 0.2061 0.04578 0.09899 0.3222

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2719 0.2566 0.7218 0.1947 0.01919 0.2867
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9453 0.3819 0.1983 0.006957 0.44020.0001078

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07994	0.1447	0	0.1237	0.1034	0.2126	0.005433	0.003952	0.3262

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 675.7 0.04432 0.1959 0.9141 0.0069510.0007122 0.6367
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7514 0.3027 0.2045 0.04604 0.09952 0.3216
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2728 0.2573 0.7191 0.1960 0.01964 0.2845
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9422 0.3713 0.1945 0.007062 0.43770.0001024

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08033	0.1428	0	0.1257	0.1042	0.2119	0.005369	0.003984	0.3257

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.10 676.8 0.04389 0.1967 0.9147 0.0069470.0007167 0.6353
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7510 0.3002 0.2029 0.04628 0.1000 0.3211
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2738 0.2581 0.7166 0.1975 0.02010 0.2825
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9392 0.3618 0.1906 0.007170 0.4354 9.765e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08068	0.1409	0	0.1277	0.1049	0.2112	0.005304	0.004016	0.3253

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 677.9 0.04346 0.1975 0.9153 0.0069400.0007212 0.6341
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7507 0.2978 0.2012 0.04650 0.1005 0.3206
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2748 0.2588 0.7142 0.1989 0.02059 0.2806
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9364 0.3533 0.1867 0.007279 0.4331 9.339e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08098	0.1391	0	0.1296	0.1058	0.2104	0.005238	0.004047	0.3249

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.30 678.9 0.04303 0.1983 0.9159 0.0069290.0007256 0.6329
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7504 0.2956 0.1995 0.04671 0.1010 0.3201
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2757 0.2596 0.7120 0.2005 0.02110 0.2788

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9336 0.3457 0.1829 0.007387 0.4309 8.957e-5

mode liq bi ep g mu pl ilm ru q
0.08124 0.1374 0 0.1314 0.1066 0.2095 0.005171 0.004078 0.3245

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 679.9 0.04260 0.1990 0.9165 0.0069140.0007298 0.6317
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7501 0.2934 0.1977 0.04690 0.1015 0.3198
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2767 0.2603 0.7098 0.2021 0.02162 0.2770
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9309 0.3389 0.1790 0.007493 0.4287 8.611e-5

mode liq bi ep g mu pl ilm ru q
0.08145 0.1358 0 0.1332 0.1075 0.2086 0.005102 0.004108 0.3242

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50 680.9 0.04216 0.1997 0.9172 0.0068940.0007340 0.6306
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7498 0.2914 0.1959 0.04707 0.1019 0.3194
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2777 0.2611 0.7077 0.2038 0.02216 0.2754
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9284 0.3328 0.1751 0.007598 0.4266 8.296e-5

mode liq bi ep g mu pl ilm ru q
0.08162 0.1342 0 0.1349 0.1085 0.2077 0.005032 0.004137 0.3239

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 681.7 0.04173 0.2004 0.9178 0.0068680.0007379 0.6296
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7496 0.2894 0.1940 0.04724 0.1024 0.3192
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2787 0.2619 0.7058 0.2055 0.02271 0.2738
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9259 0.3275 0.1712 0.007699 0.4245 8.007e-5

mode liq bi ep g mu pl ilm ru q
0.08175 0.1327 0 0.1366 0.1095 0.2067 0.004961 0.004167 0.3236

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 682.6 0.04128 0.2011 0.9185 0.0068370.0007417 0.6286
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7494 0.2875 0.1921 0.04738 0.1028 0.3190
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2797 0.2626 0.7039 0.2072 0.02328 0.2722
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9235 0.3228 0.1673 0.007796 0.4224 7.742e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
0.08184	0.1312		0	0.1383	0.1105	0.2057	0.004890	0.004196	0.3233

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	683.4	0.04084	0.2017	0.9192	0.0068010	0.0007454	0.6276
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7493	0.2857	0.1901	0.04751	0.1031	0.3189	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2807	0.2634	0.7022	0.2090	0.02385	0.2707	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9212	0.3187	0.1634	0.007888	0.4204	7.497e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
0.08188	0.1298		0	0.1399	0.1115	0.2047	0.004817	0.004226	0.3231

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.90	684.1	0.04039	0.2023	0.9199	0.0067590	0.0007488	0.6267
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7493	0.2839	0.1880	0.04762	0.1035	0.3188	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2817	0.2642	0.7005	0.2108	0.02444	0.2693	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9190	0.3151	0.1594	0.007974	0.4184	7.270e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
0.08189	0.1285		0	0.1415	0.1126	0.2036	0.004743	0.004255	0.3229

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	684.7	0.03993	0.2028	0.9207	0.0067110	0.0007520	0.6257
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7492	0.2822	0.1859	0.04772	0.1038	0.3189	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2827	0.2650	0.6989	0.2126	0.02504	0.2679	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9169	0.3121	0.1554	0.008054	0.4164	7.059e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
0.08186	0.1272		0	0.1430	0.1137	0.2026	0.004668	0.004284	0.3227

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.10	685.3	0.03947	0.2033	0.9215	0.0066570	0.0007550	0.6248
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7493	0.2806	0.1837	0.04780	0.1041	0.3190	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2838	0.2657	0.6974	0.2145	0.02565	0.2665	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9149	0.3096	0.1514	0.008128	0.4145	6.863e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
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0.08179 0.1259 0 0.1445 0.1149 0.2015 0.004593 0.004312 0.3225

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 685.8 0.03900 0.2038 0.9223 0.0065980.0007578 0.6240
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7494 0.2791 0.1814 0.04787 0.1044 0.3191
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2848 0.2665 0.6960 0.2163 0.02627 0.2652
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9129 0.3076 0.1475 0.008194 0.4125 6.681e-5

mode liq bi ep g mu pl ilm ru q
0.08169 0.1247 0 0.1459 0.1160 0.2004 0.004517 0.004341 0.3224

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.30 686.2 0.03853 0.2042 0.9232 0.0065320.0007603 0.6231
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7495 0.2776 0.1791 0.04791 0.1046 0.3194
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2858 0.2673 0.6947 0.2182 0.02690 0.2639
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9110 0.3061 0.1435 0.008252 0.4106 6.510e-5

mode liq bi ep g mu pl ilm ru q
0.08154 0.1236 0 0.1473 0.1172 0.1993 0.004440 0.004369 0.3223

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 686.6 0.03805 0.2046 0.9241 0.0064610.0007627 0.6223
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7497 0.2762 0.1767 0.04794 0.1048 0.3197
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2868 0.2681 0.6935 0.2201 0.02753 0.2626
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9093 0.3050 0.1395 0.008301 0.4088 6.350e-5

mode liq bi ep g mu pl ilm ru q
0.08135 0.1225 0 0.1487 0.1184 0.1981 0.004363 0.004397 0.3222

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 686.9 0.03757 0.2049 0.9250 0.0063840.0007648 0.6215
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7500 0.2748 0.1743 0.04795 0.1050 0.3201
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2878 0.2689 0.6924 0.2220 0.02817 0.2615
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9075 0.3043 0.1355 0.008342 0.4069 6.201e-5

mode liq bi ep g mu pl ilm ru q
0.08113 0.1214 0 0.1500 0.1197 0.1970 0.004285 0.004425 0.3221

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60    687.1 0.03708 0.2051 0.9260 0.0063020.0007666 0.6207
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7503 0.2735 0.1718 0.04794 0.1051 0.3207
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2888 0.2697 0.6914 0.2239 0.02883 0.2603
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9059 0.3042 0.1315 0.008373 0.4051 6.060e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08086 0.1204 0 0.1513 0.1209 0.1958 0.004207 0.004453 0.3220

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.70    687.2 0.03659 0.2054 0.9270 0.0062140.0007683 0.6200
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7506 0.2723 0.1692 0.04791 0.1052 0.3213
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2898 0.2705 0.6905 0.2258 0.02949 0.2592
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9044 0.3045 0.1275 0.008395 0.4033 5.929e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08055 0.1195 0 0.1525 0.1222 0.1947 0.004128 0.004480 0.3220

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80    687.3 0.03609 0.2055 0.9280 0.0061210.0007698 0.6193
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7511 0.2712 0.1666 0.04786 0.1053 0.3219
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2908 0.2713 0.6897 0.2278 0.03015 0.2581
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9030 0.3052 0.1236 0.008407 0.4015 5.806e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08021 0.1186 0 0.1536 0.1235 0.1935 0.004049 0.004507 0.3220

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.90    687.2 0.03559 0.2056 0.9290 0.0060230.0007710 0.6186
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7516 0.2702 0.1640 0.04778 0.1053 0.3227
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2919 0.2721 0.6890 0.2297 0.03083 0.2571
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9016 0.3064 0.1197 0.008409 0.3997 5.690e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.07982 0.1178 0 0.1547 0.1248 0.1923 0.003970 0.004533 0.3220

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00    687.1 0.03508 0.2057 0.9300 0.0059210.0007721 0.6180

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7522 0.2692 0.1612 0.04769 0.1053 0.3236
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2929 0.2730 0.6885 0.2317 0.03152 0.2562
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9004 0.3081 0.1158 0.008402 0.3980 5.582e-5

mode liq bi ep g mu pl ilm ru q
 0.07939 0.1171 0 0.1557 0.1262 0.1911 0.003890 0.004558 0.3221

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.10 686.9 0.03457 0.2057 0.9311 0.0058140.0007729 0.6175
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7528 0.2683 0.1585 0.04757 0.1053 0.3246
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2939 0.2738 0.6881 0.2337 0.03222 0.2553
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8993 0.3104 0.1119 0.008385 0.3963 5.482e-5

mode liq bi ep g mu pl ilm ru q
 0.07891 0.1165 0 0.1567 0.1275 0.1899 0.003810 0.004583 0.3221

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 686.7 0.03406 0.2057 0.9321 0.0057020.0007736 0.6169
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7535 0.2676 0.1556 0.04743 0.1052 0.3257
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2949 0.2746 0.6878 0.2358 0.03293 0.2545
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8983 0.3131 0.1081 0.008358 0.3946 5.388e-5

mode liq bi ep g mu pl ilm ru q
 0.07839 0.1159 0 0.1575 0.1289 0.1886 0.003730 0.004608 0.3223

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.30 686.3 0.03354 0.2056 0.9332 0.0055870.0007741 0.6165
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7542 0.2669 0.1528 0.04726 0.1051 0.3269
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2959 0.2755 0.6877 0.2379 0.03366 0.2538
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8975 0.3165 0.1043 0.008322 0.3930 5.300e-5

mode liq bi ep g mu pl ilm ru q
 0.07782 0.1154 0 0.1583 0.1303 0.1874 0.003649 0.004631 0.3224

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 685.9 0.03302 0.2054 0.9342 0.0054680.0007745 0.6161
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7550 0.2664 0.1498 0.04707 0.1050 0.3283

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2970 0.2763 0.6878 0.2401 0.03441 0.2532
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8968 0.3205 0.1005 0.008278 0.3915 5.220e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07720	0.1151	0	0.1590	0.1318	0.1861	0.003567	0.004654	0.3226

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.50 685.4 0.03250 0.2052 0.9353 0.0053450.0007747 0.6158
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7559 0.2659 0.1468 0.04685 0.1048 0.3298
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2980 0.2772 0.6880 0.2423 0.03518 0.2526
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8964 0.3252 0.09679 0.008225 0.3900 5.147e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07652	0.1148	0	0.1597	0.1332	0.1848	0.003484	0.004675	0.3228

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 684.8 0.03197 0.2049 0.9363 0.0052180.0007748 0.6157
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7569 0.2657 0.1438 0.04659 0.1046 0.3314
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2991 0.2781 0.6886 0.2447 0.03599 0.2522
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8961 0.3308 0.09312 0.008164 0.3886 5.081e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07577	0.1147	0	0.1602	0.1347	0.1834	0.003400	0.004695	0.3231

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.70 684.1 0.03144 0.2046 0.9373 0.0050880.0007748 0.6156
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7579 0.2656 0.1406 0.04630 0.1043 0.3333
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3001 0.2789 0.6893 0.2472 0.03684 0.2520
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8961 0.3373 0.08949 0.008098 0.3872 5.022e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07496	0.1147	0	0.1606	0.1363	0.1820	0.003314	0.004714	0.3234

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 683.3 0.03091 0.2042 0.9383 0.0049560.0007747 0.6158
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7589 0.2657 0.1375 0.04598 0.1040 0.3353
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3012 0.2799 0.6904 0.2498 0.03774 0.2519

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8965 0.3450 0.08590 0.008027 0.3860 4.973e-5

mode liq bi ep g mu pl ilm ru q
0.07407 0.1149 0 0.1608 0.1379 0.1805 0.003226 0.004731 0.3238

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 682.4 0.03038 0.2037 0.9392 0.0048190.0007746 0.6162
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7601 0.2661 0.1342 0.04561 0.1037 0.3376
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3023 0.2808 0.6919 0.2527 0.03872 0.2521
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8973 0.3542 0.08236 0.007953 0.3850 4.933e-5

mode liq bi ep g mu pl ilm ru q
0.07307 0.1154 0 0.1609 0.1395 0.1789 0.003133 0.004745 0.3243

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 681.5 0.02985 0.2032 0.9400 0.0046800.0007745 0.6169
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7613 0.2669 0.1309 0.04519 0.1033 0.3403
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3035 0.2818 0.6939 0.2560 0.03980 0.2527
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8986 0.3652 0.07885 0.007881 0.3841 4.906e-5

mode liq bi ep g mu pl ilm ru q
0.07196 0.1161 0 0.1607 0.1413 0.1772 0.003035 0.004757 0.3249

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 680.5 0.02931 0.2026 0.9408 0.0045380.0007744 0.6181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7625 0.2682 0.1274 0.04471 0.1029 0.3433
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3047 0.2829 0.6965 0.2597 0.04102 0.2537
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9007 0.3786 0.07538 0.007816 0.3835 4.896e-5

mode liq bi ep g mu pl ilm ru q
0.07069 0.1173 0 0.1603 0.1431 0.1753 0.002929 0.004765 0.3257

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 679.3 0.02878 0.2020 0.9413 0.0043930.0007746 0.6199
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7639 0.2701 0.1239 0.04416 0.1025 0.3469
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3061 0.2840 0.7001 0.2642 0.04248 0.2554
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9038 0.3956 0.07194 0.007770 0.3834 4.908e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06919	0.1190	0	0.1594	0.1452	0.1730	0.002810	0.004768	0.3266

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.30	678.2	0.02826	0.2014	0.9415	0.0042460	0.0007750	0.6228
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7652	0.2731	0.1202	0.04351	0.1020	0.3512	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3075	0.2852	0.7051	0.2698	0.04430	0.2582	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9085	0.4178	0.06853	0.007764	0.3838	4.955e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06738	0.1215	0	0.1580	0.1475	0.1703	0.002669	0.004763	0.3280

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.40	677.1	0.02777	0.2007	0.9410	0.0041020	0.0007759	0.6275
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7665	0.2779	0.1164	0.04273	0.1016	0.3565	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3092	0.2866	0.7122	0.2773	0.04675	0.2628	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9154	0.4479	0.06519	0.007844	0.3853	5.058e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06509	0.1254	0	0.1556	0.1501	0.1668	0.002493	0.004744	0.3298

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.50	676.3	0.02734	0.2003	0.9394	0.0039740	0.0007770	0.6347
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7675	0.2851	0.1129	0.04184	0.1012	0.3629	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3111	0.2881	0.7220	0.2873	0.05013	0.2702	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9250	0.4878	0.06209	0.008085	0.3882	5.237e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06223	0.1309	0	0.1521	0.1533	0.1623	0.002265	0.004709	0.3322

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	676.0	0.02701	0.2002	0.9367	0.0038800	0.0007776	0.6434
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7681	0.2939	0.1101	0.04098	0.1011	0.3692	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3131	0.2897	0.7331	0.2990	0.05424	0.2793	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9352	0.5315	0.05945	0.008504	0.3918	5.458e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
------	-----	----	----	---	----	----	-----	----	---

0.05917 0.1374 0 0.1478 0.1567 0.1573 0.002002 0.004664 0.3350

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.70 676.2 0.02674 0.2002 0.9335 0.0038150.0007767 0.6517
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7683 0.3022 0.1081 0.04027 0.1012 0.3742
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3150 0.2911 0.7429 0.3100 0.05838 0.2882
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9435 0.5699 0.05726 0.008995 0.3949 5.651e-5

mode liq bi ep g mu pl ilm ru q
0.05644 0.1432 0 0.1439 0.1597 0.1528 0.001745 0.004624 0.3375

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 676.5 0.02649 0.2003 0.9304 0.0037640.0007747 0.6588
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7686 0.3094 0.1065 0.03970 0.1013 0.3781
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3167 0.2924 0.7511 0.3198 0.06226 0.2960
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9497 0.6011 0.05533 0.009478 0.3972 5.795e-5

mode liq bi ep g mu pl ilm ru q
0.05412 0.1481 0 0.1407 0.1625 0.1490 0.001509 0.004592 0.3396

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90 676.7 0.02623 0.2004 0.9276 0.0037160.0007718 0.6650
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7688 0.3156 0.1050 0.03922 0.1015 0.3813
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3183 0.2936 0.7580 0.3286 0.06592 0.3029
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9545 0.6271 0.05352 0.009934 0.3988 5.899e-5

mode liq bi ep g mu pl ilm ru q
0.05209 0.1522 0 0.1379 0.1649 0.1456 0.001291 0.004569 0.3413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 677.0 0.02598 0.2004 0.9249 0.0036700.0007683 0.6704
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7691 0.3212 0.1037 0.03878 0.1016 0.3840
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3197 0.2947 0.7639 0.3366 0.06943 0.3090
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9582 0.6492 0.05179 0.01036 0.3999 5.971e-5

mode liq bi ep g mu pl ilm ru q
0.05028 0.1558 0 0.1355 0.1672 0.1427 0.001085 0.004550 0.3429

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.10    677.1  0.02571 0.2004  0.9223 0.0036220.0007642 0.6752
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7694 0.3263 0.1024 0.03838 0.1017 0.3863
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.3212 0.2957 0.7693 0.3441 0.07284 0.3145
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9613 0.6687 0.05012 0.01077 0.4006 6.019e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.04861 0.1590 0 0.1334 0.1694 0.14000.0008892 0.004537 0.3443

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.20    677.2  0.02544 0.2003  0.9199 0.0035740.0007598 0.6796
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7698 0.3310 0.1010 0.03801 0.1018 0.3885
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.3226 0.2967 0.7741 0.3512 0.07621 0.3197
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9638 0.6860 0.04849 0.01115 0.4011 6.049e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.04706 0.1619 0 0.1314 0.1714 0.13740.0006995 0.004526 0.3455

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.30    677.3  0.02517 0.2002  0.9176 0.0035240.0007549 0.6837
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7702 0.3353 0.09972 0.03764 0.1019 0.3906
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.3239 0.2977 0.7786 0.3580 0.07955 0.3245
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9659 0.7017 0.04689 0.01151 0.4013 6.064e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.04558 0.1646 0 0.1296 0.1734 0.13510.0005146 0.004519 0.3467

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.50    677.2  0.02460 0.1999  0.9132 0.0034180.0007442 0.6911
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7713 0.3435 0.09699 0.03694 0.1019 0.3943
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.3266 0.2997 0.7866 0.3711 0.08626 0.3334
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9694 0.7295 0.04379 0.01218 0.4012 6.060e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.04281 0.1695 0 0.1263 0.1772 0.13070.0001540 0.004510 0.3488

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, mu, pl, ilm, ky, q, H2O
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.67 672.5 0.06096 0.1960 0.8681 0.0065840.0008202 0.7149
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7341 0.4241 0.2925 0.03527 0.09192 0.2837
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7912 0.1028 0.005746 0.3935 0.9352 0.2289
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2541 0.008436 0.7407 0.6273 0 0.2274

mode liq bi g mu pl ilm ky q H2O
0 0.2274 0.03444 0 0.3087 0.01221 0.02970 0.3462 0.04134
calcs use:

```

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, mu, pl, ilm, ky, q, H2O
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.89 675.1 0.06033 0.1939 0.8645 0.0074190.0008083 0.7065
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7360 0.4080 0.2854 0.03611 0.09462 0.2881
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7848 0.1230 0.007380 0.3803 0.9299 0.2141
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2781 0.007994 0.7439 0.6307 0.1040 0.2169

mode liq bi g mu pl ilm ky q H2O
0.1040 0.2169 0.04399 0 0.2644 0.01230 0.02958 0.3289 0
calcs use:

```

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : bi, g, mu, pl, ilm, ky, q, H2O
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.05 646.2 0.4271 0.2810 0.03451 0.08280 0.3015 0.8017
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1009 0.004928 0.3876 0.9700 0.4060 0.2565
k(pl) x(ilm) Q(ilm)
0.006014 0.7505 0.6529

```

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2295	0.03077	0	0.3087	0.01277	0.03096	0.3464	0.04090

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.10	648.0	0.4269	0.2817	0.03456	0.08343	0.3003	0.8011
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1014	0.005004	0.3880	0.9651	0.3721	0.2563
		k(pl)	x(ilm)	Q(ilm)			
		0.006160	0.7499	0.6513			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2293	0.03102	0	0.3087	0.01273	0.03089	0.3464	0.04093

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.15	649.8	0.4266	0.2825	0.03462	0.08408	0.2991	0.8005
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1019	0.005077	0.3885	0.9612	0.3486	0.2561
		k(pl)	x(ilm)	Q(ilm)			
		0.006315	0.7492	0.6495			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2292	0.03128	0	0.3087	0.01269	0.03081	0.3464	0.04096

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.20	651.8	0.4264	0.2833	0.03468	0.08476	0.2977	0.7997
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1022	0.005148	0.3889	0.9579	0.3299	0.2559
		k(pl)	x(ilm)	Q(ilm)			
		0.006480	0.7485	0.6477			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2291	0.03155	0	0.3087	0.01265	0.03072	0.3464	0.04099

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.25	653.8	0.4262	0.2842	0.03473	0.08546	0.2964	0.7990
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1025	0.005218	0.3894	0.9549	0.3140	0.2557
		k(pl)	x(ilm)	Q(ilm)			
		0.006653	0.7478	0.6458			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2289	0.03183	0	0.3086	0.01260	0.03063	0.3464	0.04102

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.30	655.8	0.4260	0.2851	0.03479	0.08618	0.2950	0.7982
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1027	0.005286	0.3898	0.9521	0.3001	0.2555
		k(pl)	x(ilm)	Q(ilm)			
		0.006835	0.7470	0.6438			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2288	0.03212	0	0.3086	0.01256	0.03053	0.3463	0.04106

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.35	658.0	0.4257	0.2860	0.03486	0.08692	0.2935	0.7973
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1028	0.005352	0.3903	0.9495	0.2876	0.2553
		k(pl)	x(ilm)	Q(ilm)			
		0.007025	0.7462	0.6418			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2286	0.03241	0	0.3086	0.01251	0.03043	0.3463	0.04109

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.40	660.1	0.4255	0.2870	0.03492	0.08767	0.2920	0.7964
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1029	0.005417	0.3908	0.9469	0.2763	0.2551
		k(pl)	x(ilm)	Q(ilm)			
		0.007224	0.7454	0.6397			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2284	0.03272	0	0.3086	0.01247	0.03032	0.3463	0.04113

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.45	662.3	0.4252	0.2880	0.03498	0.08843	0.2905	0.7955
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1030	0.005481	0.3913	0.9446	0.2660	0.2549
		k(pl)	x(ilm)	Q(ilm)			
		0.007431	0.7446	0.6375			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2283	0.03302	0	0.3086	0.01242	0.03021	0.3463	0.04117

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.50	664.6	0.4250	0.2890	0.03505	0.08921	0.2890	0.7946
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1030	0.005544	0.3918	0.9423	0.2564	0.2547
		k(pl)	x(ilm)	Q(ilm)			
		0.007647	0.7437	0.6353			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2281	0.03334	0	0.3087	0.01237	0.03010	0.3463	0.04121

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.55	666.9	0.4247	0.2900	0.03511	0.09001	0.2874	0.7936
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1030	0.005605	0.3923	0.9401	0.2476	0.2545
		k(pl)	x(ilm)	Q(ilm)			
		0.007871	0.7429	0.6329			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2279	0.03366	0	0.3087	0.01233	0.02998	0.3462	0.04125

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.60	669.3	0.4244	0.2911	0.03518	0.09081	0.2859	0.7926
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1029	0.005666	0.3928	0.9379	0.2393	0.2543
		k(pl)	x(ilm)	Q(ilm)			
		0.008105	0.7420	0.6306			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2277	0.03399	0	0.3087	0.01228	0.02987	0.3462	0.04129

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.65	671.7	0.4242	0.2921	0.03524	0.09163	0.2843	0.7916
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1028	0.005725	0.3933	0.9359	0.2315	0.2541
		k(pl)	x(ilm)	Q(ilm)			
		0.008348	0.7411	0.6281			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2275	0.03432	0	0.3087	0.01223	0.02974	0.3462	0.04133

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.70	674.1	0.4239	0.2932	0.03531	0.09246	0.2827	0.7905
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1027	0.005784	0.3938	0.9339	0.2242	0.2540
		k(pl)	x(ilm)	Q(ilm)			
		0.008600	0.7401	0.6256			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2273	0.03466	0	0.3087	0.01218	0.02962	0.3461	0.04137

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.75	676.5	0.4236	0.2943	0.03538	0.09330	0.2810	0.7894
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1025	0.005842	0.3943	0.9319	0.2173	0.2538
		k(pl)	x(ilm)	Q(ilm)			
		0.008862	0.7392	0.6231			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2271	0.03501	0	0.3088	0.01213	0.02950	0.3461	0.04141

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.80	679.0	0.4233	0.2954	0.03544	0.09416	0.2794	0.7883
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1023	0.005899	0.3948	0.9301	0.2108	0.2536
		k(pl)	x(ilm)	Q(ilm)			
		0.009134	0.7382	0.6204			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2269	0.03536	0	0.3088	0.01208	0.02937	0.3461	0.04146

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.85	681.5	0.4230	0.2965	0.03551	0.09502	0.2778	0.7872
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1021	0.005955	0.3953	0.9282	0.2046	0.2534
		k(pl)	x(ilm)	Q(ilm)			
		0.009416	0.7372	0.6177			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2266	0.03572	0	0.3088	0.01203	0.02924	0.3460	0.04150

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.90	684.1	0.4227	0.2976	0.03558	0.09589	0.2761	0.7861
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1019	0.006011	0.3959	0.9265	0.1988	0.2532
		k(pl)	x(ilm)	Q(ilm)			
		0.009709	0.7362	0.6150			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2264	0.03608	0	0.3089	0.01197	0.02911	0.3460	0.04155

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.95	686.7	0.4224	0.2987	0.03565	0.09677	0.2745	0.7849
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1016	0.006066	0.3964	0.9247	0.1932	0.2530
		k(pl)	x(ilm)	Q(ilm)			
		0.01001	0.7351	0.6121			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2262	0.03645	0	0.3089	0.01192	0.02897	0.3460	0.04160

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.00	689.3	0.4221	0.2998	0.03572	0.09766	0.2728	0.7838
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1013	0.006121	0.3969	0.9230	0.1879	0.2528
		k(pl)	x(ilm)	Q(ilm)			
		0.01033	0.7341	0.6093			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2259	0.03683	0	0.3090	0.01187	0.02884	0.3459	0.04165

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.05	691.9	0.4218	0.3010	0.03578	0.09856	0.2711	0.7826
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1010	0.006175	0.3974	0.9214	0.1828	0.2526
		k(pl)	x(ilm)	Q(ilm)			
		0.01065	0.7330	0.6063			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2257	0.03721	0	0.3090	0.01182	0.02870	0.3459	0.04170

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.10	694.6	0.4215	0.3021	0.03585	0.09947	0.2695	0.7814
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1007	0.006229	0.3979	0.9198	0.1779	0.2524
		k(pl)	x(ilm)	Q(ilm)			
		0.01099	0.7319	0.6033			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2254	0.03759	0	0.3091	0.01177	0.02856	0.3458	0.04175

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.15	697.2	0.4212	0.3032	0.03592	0.1004	0.2678	0.7802
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1004	0.006282	0.3984	0.9182	0.1733	0.2522
		k(pl)	x(ilm)	Q(ilm)			
		0.01134	0.7308	0.6002			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2251	0.03799	0	0.3092	0.01171	0.02842	0.3458	0.04180

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.20	700.0	0.4208	0.3043	0.03599	0.1013	0.2661	0.7789
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1000	0.006335	0.3989	0.9166	0.1689	0.2520
		k(pl)	x(ilm)	Q(ilm)			
		0.01170	0.7297	0.5971			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2249	0.03839	0	0.3092	0.01166	0.02828	0.3457	0.04185

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.25	702.7	0.4205	0.3055	0.03606	0.1022	0.2645	0.7777
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09966	0.006388	0.3995	0.9151	0.1646	0.2518
		k(pl)	x(ilm)	Q(ilm)			
		0.01207	0.7286	0.5939			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2246	0.03879	0	0.3093	0.01161	0.02814	0.3457	0.04190

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.30	705.4	0.4202	0.3066	0.03613	0.1032	0.2628	0.7764
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09928	0.006440	0.4000	0.9137	0.1605	0.2516
		k(pl)	x(ilm)	Q(ilm)			
		0.01246	0.7274	0.5906			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2243	0.03920	0	0.3094	0.01156	0.02800	0.3456	0.04196

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.35	708.2	0.4198	0.3077	0.03620	0.1041	0.2611	0.7752
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09889	0.006493	0.4005	0.9122	0.1566	0.2514
		k(pl)	x(ilm)	Q(ilm)			
		0.01286	0.7263	0.5873			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2240	0.03962	0	0.3095	0.01150	0.02786	0.3456	0.04201

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.40	711.0	0.4195	0.3088	0.03627	0.1051	0.2595	0.7739
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09849	0.006545	0.4010	0.9108	0.1528	0.2512
		k(pl)	x(ilm)	Q(ilm)			
		0.01327	0.7251	0.5839			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2237	0.04004	0	0.3095	0.01145	0.02771	0.3455	0.04207

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.45	713.8	0.4191	0.3099	0.03634	0.1060	0.2578	0.7726
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09808	0.006597	0.4015	0.9094	0.1492	0.2510
		k(pl)	x(ilm)	Q(ilm)			
		0.01370	0.7239	0.5804			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2234	0.04047	0	0.3096	0.01140	0.02757	0.3454	0.04213

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.50	716.6	0.4188	0.3110	0.03641	0.1070	0.2562	0.7713
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09766	0.006650	0.4019	0.9081	0.1457	0.2508
		k(pl)	x(ilm)	Q(ilm)			
		0.01414	0.7227	0.5769			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2231	0.04091	0	0.3097	0.01135	0.02742	0.3454	0.04219

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.55	719.4	0.4184	0.3121	0.03648	0.1080	0.2545	0.7700
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09724	0.006702	0.4024	0.9068	0.1424	0.2505
		k(pl)	x(ilm)	Q(ilm)			
		0.01459	0.7215	0.5733			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2227	0.04135	0	0.3098	0.01129	0.02728	0.3453	0.04225

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.60	722.3	0.4180	0.3132	0.03655	0.1089	0.2529	0.7687
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09681	0.006754	0.4029	0.9055	0.1391	0.2503
		k(pl)	x(ilm)	Q(ilm)			
		0.01507	0.7202	0.5697			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2224	0.04180	0	0.3099	0.01124	0.02713	0.3452	0.04231

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.65	725.1	0.4176	0.3143	0.03662	0.1099	0.2513	0.7673
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09637	0.006807	0.4034	0.9042	0.1360	0.2501
		k(pl)	x(ilm)	Q(ilm)			
		0.01555	0.7190	0.5660			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2220	0.04226	0	0.3100	0.01119	0.02698	0.3451	0.04237

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.70	728.0	0.4172	0.3154	0.03669	0.1109	0.2496	0.7660
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09594	0.006859	0.4039	0.9030	0.1330	0.2498
		k(pl)	x(ilm)	Q(ilm)			
		0.01605	0.7177	0.5622			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2217	0.04272	0	0.3101	0.01114	0.02684	0.3451	0.04244

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.75	730.9	0.4168	0.3164	0.03676	0.1119	0.2480	0.7646
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09550	0.006912	0.4043	0.9018	0.1301	0.2496
		k(pl)	x(ilm)	Q(ilm)			
		0.01657	0.7165	0.5584			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2213	0.04319	0	0.3103	0.01108	0.02669	0.3450	0.04250

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.80	733.8	0.4164	0.3175	0.03683	0.1129	0.2464	0.7633
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09505	0.006965	0.4048	0.9006	0.1273	0.2494
		k(pl)	x(ilm)	Q(ilm)			
		0.01711	0.7152	0.5545			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2209	0.04367	0	0.3104	0.01103	0.02654	0.3449	0.04257

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.85	736.7	0.4160	0.3185	0.03690	0.1139	0.2448	0.7619
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09461	0.007019	0.4052	0.8994	0.1246	0.2491
		k(pl)	x(ilm)	Q(ilm)			
		0.01766	0.7139	0.5505			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2205	0.04415	0	0.3105	0.01098	0.02639	0.3448	0.04264

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.90	739.6	0.4156	0.3196	0.03697	0.1149	0.2433	0.7606
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09417	0.007072	0.4056	0.8982	0.1220	0.2489
		k(pl)	x(ilm)	Q(ilm)			
		0.01823	0.7126	0.5465			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2201	0.04465	0	0.3106	0.01093	0.02625	0.3447	0.04270

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.95	742.5	0.4152	0.3206	0.03704	0.1159	0.2417	0.7592
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09372	0.007126	0.4061	0.8971	0.1195	0.2486
		k(pl)	x(ilm)	Q(ilm)			
		0.01882	0.7114	0.5424			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2197	0.04514	0	0.3108	0.01088	0.02610	0.3446	0.04277

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.00	745.5	0.4147	0.3216	0.03711	0.1169	0.2402	0.7578
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09328	0.007181	0.4065	0.8960	0.1171	0.2483
		k(pl)	x(ilm)	Q(ilm)			
		0.01942	0.7101	0.5383			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2193	0.04565	0	0.3109	0.01083	0.02595	0.3445	0.04285

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.15 649.5 0.06045 0.1793 0.8888 0.0060520.0006495 0.6991
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7521 0.4153 0.2779 0.03520 0.08365 0.3038
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7961 0.1141 0.005882 0.3780 0.9732 0.4369
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2813 0.005478 0.7534 0.6555 0.09704 0.2218

mode liq bi g mu pl ilm ky q
 0.09704 0.2218 0.03755 0 0.2695 0.01288 0.03057 0.3307

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.20 650.9 0.06035 0.1801 0.8875 0.0061250.0006561 0.6996
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7514 0.4149 0.2782 0.03526 0.08426 0.3029
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7956 0.1150 0.005992 0.3781 0.9663 0.3861
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2811 0.005599 0.7529 0.6543 0.09736 0.2215

mode liq bi g mu pl ilm ky q
 0.09736 0.2215 0.03789 0 0.2692 0.01285 0.03054 0.3306

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.25 652.4 0.06027 0.1809 0.8861 0.0062020.0006637 0.7001
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7505 0.4145 0.2786 0.03531 0.08489 0.3021
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7951 0.1159 0.006099 0.3783 0.9620 0.3588
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2809 0.005729 0.7524 0.6529 0.09772 0.2213

mode liq bi g mu pl ilm ky q
 0.09772 0.2213 0.03825 0 0.2689 0.01281 0.03049 0.3305

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.30 653.9 0.06021 0.1818 0.8846 0.0062820.0006720 0.7006
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7496 0.4141 0.2790 0.03537 0.08556 0.3011
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7945 0.1167 0.006205 0.3785 0.9584 0.3381
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2806 0.005867 0.7518 0.6514 0.09810 0.2210

mode liq bi g mu pl ilm ky q
 0.09810 0.2210 0.03863 0 0.2686 0.01277 0.03044 0.3305

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.35 655.5 0.06016 0.1827 0.8832 0.0063650.0006809 0.7011

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7487 0.4137 0.2795 0.03542 0.08624 0.3001
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7938 0.1175 0.006309 0.3787 0.9552 0.3208
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2804 0.006012 0.7513 0.6499 0.09851 0.2207

mode liq bi g mu pl ilm ky q
 0.09851 0.2207 0.03903 0 0.2683 0.01274 0.03039 0.3304

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.40 657.2 0.06013 0.1836 0.8816 0.006451 0.0006904 0.7016
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7477 0.4132 0.2800 0.03548 0.08694 0.2991
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7932 0.1182 0.006412 0.3789 0.9522 0.3060
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2802 0.006163 0.7506 0.6484 0.09893 0.2204

mode liq bi g mu pl ilm ky q
 0.09893 0.2204 0.03943 0 0.2679 0.01270 0.03033 0.3303

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.45 658.9 0.06010 0.1846 0.8800 0.006539 0.0007004 0.7021
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7466 0.4127 0.2805 0.03554 0.08766 0.2980
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7924 0.1188 0.006514 0.3790 0.9495 0.2928
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2800 0.006320 0.7500 0.6467 0.09937 0.2201

mode liq bi g mu pl ilm ky q
 0.09937 0.2201 0.03985 0 0.2676 0.01266 0.03026 0.3301

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.50 660.6 0.06009 0.1856 0.8784 0.006630 0.0007109 0.7026
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7455 0.4122 0.2810 0.03561 0.08840 0.2970
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7917 0.1195 0.006615 0.3792 0.9469 0.2809
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2797 0.006485 0.7494 0.6451 0.09983 0.2198

mode liq bi g mu pl ilm ky q
 0.09983 0.2198 0.04028 0 0.2673 0.01262 0.03019 0.3300

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.55 662.4 0.06009 0.1866 0.8768 0.006723 0.0007219 0.7031
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7444 0.4117 0.2815 0.03567 0.08915 0.2959

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7909	0.1200	0.006715	0.3794	0.9444	0.2701
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2795	0.006655	0.7487	0.6434	0.1003	0.2194

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1003	0.2194	0.04072		0	0.2669	0.01258	0.03012 0.3299

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	664.2	0.06010	0.1876	0.8751	0.0068180	0.0007333	0.7036
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7433	0.4112	0.2821	0.03573	0.08992	0.2948	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7901	0.1205	0.006814	0.3795	0.9421	0.2601	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2793	0.006832	0.7481	0.6416	0.1008	0.2191	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1008	0.2191	0.04117		0	0.2666	0.01254	0.03005 0.3298

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.65	666.0	0.06012	0.1887	0.8733	0.0069160	0.0007452	0.7041
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7421	0.4107	0.2826	0.03580	0.09070	0.2936	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7892	0.1210	0.006913	0.3797	0.9398	0.2509	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2791	0.007016	0.7474	0.6398	0.1013	0.2187	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1013	0.2187	0.04163		0	0.2662	0.01250	0.02997 0.3296

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.70	667.8	0.06015	0.1897	0.8716	0.0070160	0.0007575	0.7046
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7409	0.4102	0.2832	0.03586	0.09149	0.2925	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7884	0.1215	0.007011	0.3798	0.9376	0.2423	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2789	0.007206	0.7467	0.6380	0.1018	0.2184	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1018	0.2184	0.04210		0	0.2658	0.01246	0.02990 0.3295

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.75	669.7	0.06019	0.1908	0.8697	0.0071190	0.0007702	0.7051
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7396	0.4096	0.2838	0.03593	0.09229	0.2913	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7875	0.1219	0.007108	0.3800	0.9355	0.2342	

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2787 0.007403 0.7460 0.6361 0.1024 0.2180

mode liq bi g mu pl ilm ky q
0.1024 0.2180 0.04258 0 0.2655 0.01242 0.02982 0.3293

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 671.6 0.06023 0.1919 0.8679 0.0072230.0007834 0.7056
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7383 0.4091 0.2843 0.03599 0.09311 0.2902
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7866 0.1223 0.007205 0.3801 0.9335 0.2267
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2785 0.007606 0.7453 0.6342 0.1029 0.2176

mode liq bi g mu pl ilm ky q
0.1029 0.2176 0.04307 0 0.2651 0.01237 0.02974 0.3292

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.85 673.5 0.06028 0.1930 0.8660 0.0073300.0007969 0.7061
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7370 0.4085 0.2849 0.03606 0.09393 0.2890
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7856 0.1227 0.007301 0.3802 0.9315 0.2196
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2782 0.007816 0.7445 0.6323 0.1035 0.2172

mode liq bi g mu pl ilm ky q
0.1035 0.2172 0.04357 0 0.2647 0.01233 0.02965 0.3290

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 675.5 0.06034 0.1941 0.8641 0.0074390.0008109 0.7066
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7357 0.4079 0.2855 0.03612 0.09477 0.2878
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7847 0.1231 0.007397 0.3804 0.9296 0.2129
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2780 0.008033 0.7438 0.6303 0.1041 0.2168

mode liq bi g mu pl ilm ky q
0.1041 0.2168 0.04408 0 0.2643 0.01229 0.02957 0.3288

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.95 677.4 0.06041 0.1953 0.8622 0.0075500.0008252 0.7071
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7344 0.4073 0.2860 0.03619 0.09561 0.2867
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7837 0.1234 0.007493 0.3805 0.9277 0.2065
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2778 0.008257 0.7431 0.6283 0.1047 0.2164

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1047	0.2164	0.04460		0	0.2640	0.01225	0.02948 0.3287

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	679.4	0.06048	0.1964	0.8602	0.0076640.0008400	0.7075	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7330	0.4067	0.2866	0.03626	0.09647	0.2855	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7827	0.1237	0.007588	0.3806	0.9259	0.2005	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2776	0.008488	0.7423	0.6263	0.1053	0.2159	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1053	0.2159	0.04512		0	0.2636	0.01221	0.02940 0.3285

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.05	681.4	0.06056	0.1976	0.8582	0.0077790.0008551	0.7080	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7316	0.4060	0.2872	0.03633	0.09733	0.2843	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7817	0.1240	0.007683	0.3807	0.9242	0.1948	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2773	0.008726	0.7416	0.6242	0.1059	0.2155	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1059	0.2155	0.04566		0	0.2632	0.01216	0.02931 0.3283

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.10	683.4	0.06065	0.1987	0.8561	0.0078970.0008705	0.7084	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7302	0.4054	0.2877	0.03640	0.09820	0.2831	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7806	0.1243	0.007778	0.3807	0.9225	0.1894	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2771	0.008970	0.7408	0.6221	0.1065	0.2150	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1065	0.2150	0.04621		0	0.2628	0.01212	0.02922 0.3281

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.15	685.4	0.06074	0.1999	0.8541	0.0080160.0008864	0.7089	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7288	0.4048	0.2883	0.03646	0.09908	0.2820	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7796	0.1246	0.007873	0.3808	0.9208	0.1842	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2768	0.009222	0.7400	0.6200	0.1072	0.2146	

mode	liq	bi	g	mu	pl	ilm	ky	q
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0.1072 0.2146 0.04676 0 0.2624 0.01208 0.02913 0.3279

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 687.4 0.06083 0.2011 0.8520 0.0081380.0009026 0.7093
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7274 0.4041 0.2888 0.03653 0.09997 0.2808
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7785 0.1248 0.007967 0.3809 0.9192 0.1793
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2766 0.009482 0.7392 0.6179 0.1078 0.2141

mode liq bi g mu pl ilm ky q
0.1078 0.2141 0.04733 0 0.2620 0.01204 0.02904 0.3277

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.25 689.4 0.06093 0.2023 0.8498 0.0082620.0009191 0.7097
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7260 0.4034 0.2893 0.03660 0.1009 0.2796
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7775 0.1251 0.008062 0.3809 0.9176 0.1745
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2763 0.009748 0.7385 0.6157 0.1085 0.2136

mode liq bi g mu pl ilm ky q
0.1085 0.2136 0.04790 0 0.2616 0.01200 0.02895 0.3275

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.30 691.4 0.06104 0.2034 0.8477 0.0083880.0009360 0.7101
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7245 0.4027 0.2899 0.03667 0.1018 0.2785
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7764 0.1253 0.008156 0.3810 0.9160 0.1700
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2761 0.01002 0.7377 0.6135 0.1092 0.2131

mode liq bi g mu pl ilm ky q
0.1092 0.2131 0.04848 0 0.2612 0.01195 0.02886 0.3272

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.35 693.5 0.06115 0.2046 0.8455 0.0085160.0009531 0.7105
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7230 0.4020 0.2904 0.03674 0.1027 0.2773
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7753 0.1255 0.008251 0.3810 0.9145 0.1657
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2758 0.01030 0.7369 0.6113 0.1099 0.2126

mode liq bi g mu pl ilm ky q
0.1099 0.2126 0.04907 0 0.2608 0.01191 0.02877 0.3270

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40    695.5 0.06127 0.2058 0.8433 0.0086460.0009707 0.7109
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7216 0.4013 0.2909 0.03681 0.1036 0.2762
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7742 0.1257 0.008345 0.3810 0.9130 0.1616
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2755 0.01059 0.7361 0.6091 0.1106 0.2120

mode  liq  bi  g  mu  pl  ilm  ky  q
      0.1106 0.2120 0.04967 0 0.2604 0.01187 0.02868 0.3268

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.45    697.5 0.06139 0.2070 0.8410 0.0087770.0009885 0.7113
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7201 0.4006 0.2914 0.03688 0.1045 0.2750
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7730 0.1259 0.008440 0.3810 0.9116 0.1576
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2753 0.01089 0.7353 0.6069 0.1113 0.2115

mode  liq  bi  g  mu  pl  ilm  ky  q
      0.1113 0.2115 0.05028 0 0.2599 0.01183 0.02859 0.3265

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50    699.5 0.06151 0.2082 0.8388 0.008911 0.001007 0.7116
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7186 0.3998 0.2918 0.03695 0.1054 0.2739
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7719 0.1261 0.008535 0.3810 0.9101 0.1538
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2750 0.01119 0.7345 0.6046 0.1120 0.2110

mode  liq  bi  g  mu  pl  ilm  ky  q
      0.1120 0.2110 0.05089 0 0.2595 0.01179 0.02850 0.3263

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.55    701.6 0.06164 0.2094 0.8365 0.009047 0.001025 0.7120
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7171 0.3991 0.2923 0.03702 0.1064 0.2728
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7707 0.1263 0.008630 0.3810 0.9087 0.1502
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.2747 0.01151 0.7338 0.6024 0.1128 0.2104

mode  liq  bi  g  mu  pl  ilm  ky  q
      0.1128 0.2104 0.05152 0 0.2591 0.01175 0.02841 0.3260

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60    703.6 0.06177 0.2106 0.8342 0.009184 0.001044 0.7123

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7156 0.3983 0.2928 0.03708 0.1073 0.2717
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7696 0.1265 0.008725 0.3809 0.9074 0.1467
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2744 0.01183 0.7330 0.6001 0.1135 0.2098

mode liq bi g mu pl ilm ky q
 0.1135 0.2098 0.05215 0 0.2587 0.01171 0.02832 0.3258

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.65 705.6 0.06190 0.2118 0.8318 0.009324 0.001063 0.7126
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7141 0.3975 0.2932 0.03715 0.1082 0.2706
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7684 0.1267 0.008820 0.3809 0.9061 0.1433
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2740 0.01215 0.7322 0.5978 0.1143 0.2093

mode liq bi g mu pl ilm ky q
 0.1143 0.2093 0.05280 0 0.2583 0.01167 0.02824 0.3255

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.70 707.7 0.06204 0.2130 0.8295 0.009465 0.001082 0.7129
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7126 0.3967 0.2936 0.03722 0.1092 0.2695
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7672 0.1268 0.008916 0.3808 0.9048 0.1401
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2737 0.01249 0.7314 0.5956 0.1150 0.2087

mode liq bi g mu pl ilm ky q
 0.1150 0.2087 0.05345 0 0.2578 0.01163 0.02815 0.3253

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.75 709.7 0.06218 0.2142 0.8271 0.009608 0.001101 0.7132
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7110 0.3959 0.2940 0.03729 0.1101 0.2684
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7660 0.1270 0.009012 0.3807 0.9035 0.1370
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2734 0.01283 0.7306 0.5933 0.1158 0.2081

mode liq bi g mu pl ilm ky q
 0.1158 0.2081 0.05411 0 0.2574 0.01159 0.02806 0.3250

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.80 711.7 0.06232 0.2154 0.8247 0.009753 0.001121 0.7135
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7095 0.3951 0.2944 0.03736 0.1111 0.2674

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7648	0.1272	0.009109	0.3806	0.9022	0.1340
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2730	0.01319	0.7299	0.5910	0.1166	0.2074

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1166	0.2074	0.05478		0	0.2570	0.01155	0.02797 0.3247

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.85	713.7	0.06247	0.2166	0.8222	0.009900	0.001141	0.7138
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7080	0.3942	0.2948	0.03743	0.1120	0.2663	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7636	0.1274	0.009206	0.3805	0.9010	0.1311	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2726	0.01354	0.7291	0.5887	0.1174	0.2068	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1174	0.2068	0.05545		0	0.2566	0.01151	0.02789 0.3244

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.90	715.7	0.06262	0.2178	0.8198	0.01005	0.001161	0.7140
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7065	0.3934	0.2951	0.03750	0.1130	0.2653	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7624	0.1275	0.009303	0.3804	0.8998	0.1284	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2723	0.01391	0.7284	0.5864	0.1182	0.2062	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1182	0.2062	0.05614		0	0.2561	0.01148	0.02780 0.3241

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.95	717.7	0.06277	0.2190	0.8173	0.01020	0.001181	0.7143
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7049	0.3925	0.2955	0.03756	0.1139	0.2642	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7612	0.1277	0.009401	0.3802	0.8986	0.1257	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2719	0.01429	0.7276	0.5841	0.1190	0.2055	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1190	0.2055	0.05683		0	0.2557	0.01144	0.02771 0.3238

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	719.7	0.06292	0.2201	0.8149	0.01035	0.001202	0.7145
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7034	0.3916	0.2958	0.03763	0.1149	0.2632	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7600	0.1279	0.009499	0.3801	0.8974	0.1231	

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2715 0.01467 0.7269 0.5818 0.1198 0.2049

mode liq bi g mu pl ilm ky q
0.1198 0.2049 0.05753 0 0.2553 0.01140 0.02763 0.3235

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.05 721.7 0.06307 0.2213 0.8124 0.01050 0.001222 0.7147
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7019 0.3907 0.2961 0.03770 0.1159 0.2622
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7588 0.1281 0.009598 0.3799 0.8963 0.1206
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2711 0.01506 0.7262 0.5795 0.1206 0.2042

mode liq bi g mu pl ilm ky q
0.1206 0.2042 0.05824 0 0.2548 0.01137 0.02755 0.3232

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 723.6 0.06323 0.2225 0.8098 0.01066 0.001243 0.7149
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7004 0.3898 0.2964 0.03776 0.1168 0.2612
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7575 0.1282 0.009698 0.3797 0.8952 0.1183
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2706 0.01546 0.7254 0.5772 0.1214 0.2035

mode liq bi g mu pl ilm ky q
0.1214 0.2035 0.05896 0 0.2544 0.01133 0.02746 0.3229

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.15 725.6 0.06338 0.2237 0.8073 0.01081 0.001264 0.7150
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6988 0.3889 0.2966 0.03783 0.1178 0.2603
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7563 0.1284 0.009798 0.3795 0.8941 0.1159
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2702 0.01587 0.7247 0.5749 0.1223 0.2028

mode liq bi g mu pl ilm ky q
0.1223 0.2028 0.05968 0 0.2540 0.01130 0.02738 0.3226

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 727.5 0.06354 0.2248 0.8048 0.01097 0.001285 0.7152
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6973 0.3880 0.2969 0.03790 0.1188 0.2593
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7550 0.1286 0.009898 0.3793 0.8930 0.1137
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2697 0.01629 0.7240 0.5727 0.1231 0.2021

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1231	0.2021	0.06042		0	0.2535	0.01126	0.02730 0.3223

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.25	729.5	0.06370	0.2260	0.8022	0.01113	0.001306	0.7153
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6958	0.3871	0.2971	0.03796	0.1197	0.2584	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7538	0.1288	0.009999	0.3790	0.8919	0.1116	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2693	0.01671	0.7234	0.5704	0.1240	0.2014	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1240	0.2014	0.06116		0	0.2531	0.01123	0.02723 0.3219

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.30	731.4	0.06386	0.2271	0.7996	0.01129	0.001328	0.7155
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6943	0.3861	0.2973	0.03803	0.1207	0.2574	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7525	0.1290	0.01010	0.3788	0.8909	0.1095	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2688	0.01715	0.7227	0.5682	0.1248	0.2007	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1248	0.2007	0.06190		0	0.2526	0.01120	0.02715 0.3216

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.35	733.3	0.06402	0.2282	0.7971	0.01145	0.001349	0.7156
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6928	0.3851	0.2975	0.03809	0.1217	0.2565	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7512	0.1292	0.01020	0.3785	0.8898	0.1075	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2683	0.01759	0.7220	0.5660	0.1257	0.2000	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1257	0.2000	0.06266		0	0.2522	0.01117	0.02707 0.3213

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	735.2	0.06418	0.2294	0.7945	0.01161	0.001370	0.7157
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6913	0.3842	0.2977	0.03816	0.1226	0.2556	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7500	0.1294	0.01031	0.3782	0.8888	0.1056	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2678	0.01803	0.7214	0.5638	0.1265	0.1992	

mode	liq	bi	g	mu	pl	ilm	ky	q
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0.1265 0.1992 0.06342 0 0.2518 0.01113 0.02700 0.3209

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.45 737.1 0.06434 0.2305 0.7919 0.01178 0.001392 0.7157
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6899 0.3832 0.2978 0.03822 0.1236 0.2547
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7487 0.1296 0.01041 0.3779 0.8878 0.1037
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2673 0.01849 0.7208 0.5616 0.1274 0.1985

mode liq bi g mu pl ilm ky q
0.1274 0.1985 0.06419 0 0.2513 0.01110 0.02692 0.3206

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 738.9 0.06450 0.2316 0.7893 0.01194 0.001413 0.7158
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6884 0.3822 0.2980 0.03828 0.1246 0.2539
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7474 0.1298 0.01051 0.3775 0.8868 0.1019
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2667 0.01896 0.7202 0.5595 0.1283 0.1977

mode liq bi g mu pl ilm ky q
0.1283 0.1977 0.06497 0 0.2509 0.01107 0.02685 0.3202

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.55 740.8 0.06466 0.2327 0.7867 0.01211 0.001435 0.7159
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6869 0.3811 0.2981 0.03835 0.1255 0.2530
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7461 0.1300 0.01062 0.3772 0.8859 0.1002
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2661 0.01943 0.7196 0.5573 0.1292 0.1969

mode liq bi g mu pl ilm ky q
0.1292 0.1969 0.06576 0 0.2505 0.01104 0.02678 0.3199

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 742.6 0.06482 0.2338 0.7840 0.01228 0.001456 0.7159
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6855 0.3801 0.2982 0.03841 0.1265 0.2522
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7448 0.1303 0.01073 0.3768 0.8849 0.09849
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2656 0.01991 0.7190 0.5552 0.1301 0.1961

mode liq bi g mu pl ilm ky q
0.1301 0.1961 0.06655 0 0.2500 0.01102 0.02671 0.3195

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.65    744.4  0.06498 0.2348 0.7814 0.01245 0.001478 0.7159
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6840 0.3791 0.2982 0.03847 0.1275 0.2514
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7435 0.1305 0.01083 0.3765 0.8840 0.09686
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2650 0.02040 0.7185 0.5531 0.1310 0.1954

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1310 0.1954 0.06735 0 0.2496 0.01099 0.02664 0.3191

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.70    746.2  0.06514 0.2359 0.7788 0.01261 0.001499 0.7159
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6826 0.3780 0.2983 0.03853 0.1284 0.2505
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7422 0.1308 0.01094 0.3761 0.8830 0.09529
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2644 0.02090 0.7179 0.5511 0.1318 0.1946

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1318 0.1946 0.06815 0 0.2491 0.01096 0.02657 0.3188

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.75    748.0  0.06530 0.2370 0.7762 0.01279 0.001521 0.7159
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6811 0.3770 0.2984 0.03859 0.1294 0.2497
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7409 0.1310 0.01105 0.3756 0.8821 0.09377
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2637 0.02140 0.7174 0.5491 0.1327 0.1937

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1327 0.1937 0.06896 0 0.2487 0.01094 0.02651 0.3184

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80    749.8  0.06546 0.2380 0.7735 0.01296 0.001542 0.7159
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6797 0.3759 0.2984 0.03865 0.1304 0.2489
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7396 0.1313 0.01116 0.3752 0.8812 0.09230
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2631 0.02191 0.7169 0.5471 0.1336 0.1929

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1336 0.1929 0.06978 0 0.2483 0.01091 0.02644 0.3180

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.85    751.6  0.06561 0.2391 0.7709 0.01313 0.001564 0.7158

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6783 0.3748 0.2984 0.03871 0.1313 0.2482
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7383 0.1315 0.01127 0.3748 0.8803 0.09088
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2624 0.02243 0.7165 0.5452 0.1346 0.1921

mode liq bi g mu pl ilm ky q
 0.1346 0.1921 0.07061 0 0.2478 0.01089 0.02638 0.3176

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.90 753.3 0.06577 0.2401 0.7683 0.01330 0.001585 0.7158
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6769 0.3737 0.2984 0.03877 0.1323 0.2474
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7370 0.1318 0.01138 0.3743 0.8794 0.08950
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2617 0.02296 0.7160 0.5433 0.1355 0.1913

mode liq bi g mu pl ilm ky q
 0.1355 0.1913 0.07144 0 0.2474 0.01086 0.02632 0.3173

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.95 755.0 0.06592 0.2411 0.7656 0.01347 0.001607 0.7157
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6756 0.3726 0.2984 0.03883 0.1333 0.2467
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7357 0.1321 0.01149 0.3738 0.8786 0.08817
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2611 0.02350 0.7156 0.5414 0.1364 0.1904

mode liq bi g mu pl ilm ky q
 0.1364 0.1904 0.07227 0 0.2470 0.01084 0.02626 0.3169

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 756.8 0.06607 0.2421 0.7630 0.01365 0.001628 0.7156
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6742 0.3715 0.2983 0.03888 0.1342 0.2459
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7344 0.1323 0.01160 0.3733 0.8777 0.08688
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2603 0.02404 0.7152 0.5396 0.1373 0.1896

mode liq bi g mu pl ilm ky q
 0.1373 0.1896 0.07311 0 0.2465 0.01082 0.02620 0.3165

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.05 758.4 0.06622 0.2431 0.7604 0.01382 0.001649 0.7155
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6728 0.3703 0.2983 0.03894 0.1352 0.2452

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7331	0.1326	0.01171	0.3728	0.8769	0.08563
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2596	0.02459	0.7148	0.5378	0.1382	0.1887

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1382	0.1887	0.07396		0	0.2461	0.01079	0.02615 0.3161

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.10	760.1	0.06637	0.2441	0.7577	0.01400	0.001670	0.7154
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6715	0.3692	0.2982	0.03899	0.1361	0.2445	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7317	0.1329	0.01182	0.3723	0.8760	0.08443	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2589	0.02515	0.7145	0.5360	0.1391	0.1878	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1391	0.1878	0.07481		0	0.2457	0.01077	0.02609 0.3157

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.15	761.8	0.06652	0.2450	0.7551	0.01417	0.001691	0.7153
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6702	0.3681	0.2981	0.03905	0.1371	0.2438	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7304	0.1332	0.01194	0.3718	0.8752	0.08326	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2581	0.02572	0.7141	0.5343	0.1400	0.1870	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1400	0.1870	0.07567		0	0.2452	0.01075	0.02604 0.3153

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	763.4	0.06667	0.2460	0.7525	0.01435	0.001711	0.7151
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6689	0.3669	0.2980	0.03910	0.1381	0.2431	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7291	0.1335	0.01205	0.3712	0.8744	0.08213	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2573	0.02630	0.7138	0.5326	0.1409	0.1861	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1409	0.1861	0.07653		0	0.2448	0.01073	0.02599 0.3149

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.25	765.1	0.06681	0.2469	0.7499	0.01452	0.001732	0.7150
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6676	0.3657	0.2979	0.03915	0.1390	0.2425	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7277	0.1338	0.01217	0.3707	0.8736	0.08103	

ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2565	0.02688	0.7135	0.5310	0.1419	0.1852

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1419	0.1852	0.07740		0	0.2444	0.01072	0.02594 0.3145

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.30	766.7	0.06695	0.2479	0.7473	0.01470	0.001752	0.7148
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6663	0.3646	0.2977	0.03921	0.1400	0.2418	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7264	0.1342	0.01228	0.3701	0.8728	0.07997	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2557	0.02747	0.7133	0.5295	0.1428	0.1843	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1428	0.1843	0.07828		0	0.2439	0.01070	0.02589 0.3141

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.35	768.3	0.06709	0.2488	0.7447	0.01488	0.001773	0.7146
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6650	0.3634	0.2976	0.03926	0.1409	0.2411	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7250	0.1345	0.01240	0.3695	0.8720	0.07894	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2548	0.02806	0.7131	0.5279	0.1437	0.1834	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1437	0.1834	0.07915		0	0.2435	0.01068	0.02584 0.3137

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	769.8	0.06723	0.2497	0.7422	0.01506	0.001793	0.7144
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6637	0.3622	0.2974	0.03931	0.1418	0.2405	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7237	0.1348	0.01251	0.3689	0.8712	0.07794	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2540	0.02867	0.7128	0.5265	0.1446	0.1825	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1446	0.1825	0.08003		0	0.2431	0.01067	0.02580 0.3133

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.45	771.4	0.06736	0.2506	0.7396	0.01523	0.001813	0.7142
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6625	0.3610	0.2972	0.03936	0.1428	0.2399	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7224	0.1352	0.01263	0.3682	0.8704	0.07697	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2531	0.02928	0.7127	0.5250	0.1455	0.1816	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1455	0.1816	0.08092		0	0.2426	0.01065	0.02575 0.3129

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.50	772.9	0.06749	0.2515	0.7370	0.01541	0.001832	0.7140
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6613	0.3598	0.2970	0.03940	0.1437	0.2392	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7210	0.1355	0.01275	0.3676	0.8696	0.07603	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2522	0.02990	0.7125	0.5237	0.1464	0.1807	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1464	0.1807	0.08181		0	0.2422	0.01063	0.02571 0.3125

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.55	774.5	0.06762	0.2523	0.7345	0.01559	0.001852	0.7138
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6601	0.3586	0.2968	0.03945	0.1447	0.2386	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7197	0.1358	0.01287	0.3670	0.8689	0.07513	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2513	0.03053	0.7124	0.5223	0.1474	0.1798	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1474	0.1798	0.08270		0	0.2418	0.01062	0.02567 0.3121

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	776.0	0.06775	0.2532	0.7320	0.01576	0.001871	0.7135
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6589	0.3574	0.2966	0.03950	0.1456	0.2380	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7183	0.1362	0.01299	0.3663	0.8681	0.07425	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2504	0.03116	0.7123	0.5211	0.1483	0.1788	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1483	0.1788	0.08360		0	0.2414	0.01061	0.02563 0.3117

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.65	777.5	0.06787	0.2541	0.7295	0.01594	0.001890	0.7133
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6577	0.3562	0.2964	0.03954	0.1465	0.2374	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7169	0.1366	0.01311	0.3656	0.8673	0.07339	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2495	0.03181	0.7122	0.5198	0.1492	0.1779	

mode	liq	bi	g	mu	pl	ilm	ky	q
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0.1492 0.1779 0.08450 0 0.2409 0.01060 0.02559 0.3113

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 778.9 0.06799 0.2549 0.7270 0.01612 0.001909 0.7130
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6565 0.3549 0.2961 0.03958 0.1475 0.2369
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7156 0.1369 0.01323 0.3649 0.8666 0.07256
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2485 0.03245 0.7121 0.5187 0.1501 0.1770

mode liq bi g mu pl ilm ky q
0.1501 0.1770 0.08541 0 0.2405 0.01058 0.02556 0.3109

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.75 780.4 0.06811 0.2557 0.7245 0.01630 0.001928 0.7127
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6554 0.3537 0.2958 0.03963 0.1484 0.2363
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7142 0.1373 0.01335 0.3642 0.8658 0.07176
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2475 0.03311 0.7121 0.5175 0.1510 0.1760

mode liq bi g mu pl ilm ky q
0.1510 0.1760 0.08631 0 0.2401 0.01057 0.02552 0.3105

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 781.8 0.06823 0.2565 0.7220 0.01647 0.001946 0.7124
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6542 0.3524 0.2956 0.03967 0.1493 0.2357
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7129 0.1377 0.01347 0.3635 0.8651 0.07098
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2465 0.03378 0.7121 0.5165 0.1519 0.1751

mode liq bi g mu pl ilm ky q
0.1519 0.1751 0.08722 0 0.2397 0.01056 0.02549 0.3100

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.85 783.3 0.06834 0.2573 0.7196 0.01665 0.001964 0.7121
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6531 0.3512 0.2953 0.03971 0.1502 0.2352
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7115 0.1381 0.01359 0.3628 0.8644 0.07022
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2455 0.03445 0.7121 0.5155 0.1528 0.1742

mode liq bi g mu pl ilm ky q
0.1528 0.1742 0.08814 0 0.2392 0.01055 0.02546 0.3096

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90    784.7 0.06845 0.2581 0.7171 0.01683 0.001982 0.7118
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6520 0.3499 0.2950 0.03975 0.1512 0.2346
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7101 0.1384 0.01371 0.3621 0.8637 0.06949
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2445 0.03513 0.7122 0.5145 0.1537 0.1732

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1537 0.1732 0.08905 0 0.2388 0.01054 0.02543 0.3092

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.95    786.1 0.06856 0.2589 0.7147 0.01700 0.002000 0.7115
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6509 0.3487 0.2947 0.03979 0.1521 0.2341
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7088 0.1388 0.01383 0.3613 0.8629 0.06878
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2435 0.03581 0.7122 0.5136 0.1546 0.1723

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1546 0.1723 0.08997 0 0.2384 0.01054 0.02540 0.3088

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00    787.4 0.06866 0.2597 0.7123 0.01718 0.002018 0.7112
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6499 0.3474 0.2944 0.03983 0.1530 0.2335
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7074 0.1392 0.01396 0.3606 0.8622 0.06809
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2424 0.03651 0.7123 0.5127 0.1555 0.1713

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1555 0.1713 0.09089 0 0.2380 0.01053 0.02537 0.3084

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.05    788.8 0.06876 0.2604 0.7099 0.01735 0.002035 0.7108
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6488 0.3462 0.2941 0.03986 0.1539 0.2330
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7060 0.1396 0.01408 0.3598 0.8615 0.06741
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2413 0.03721 0.7125 0.5119 0.1564 0.1703

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1564 0.1703 0.09182 0 0.2376 0.01052 0.02534 0.3080

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10    790.2 0.06886 0.2612 0.7076 0.01753 0.002052 0.7105

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h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.6478	0.3449	0.2937	0.03990	0.1548	0.2325
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7046	0.1400	0.01420	0.3590	0.8608	0.06676
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2402	0.03792	0.7126	0.5112	0.1573	0.1694

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1573	0.1694	0.09274		0	0.2372	0.01052	0.02532 0.3076

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.15	791.5	0.06895	0.2619	0.7052	0.01770	0.002069	0.7101
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.6467	0.3436	0.2934	0.03993	0.1557	0.2320		
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
0.7033	0.1404	0.01433	0.3583	0.8601	0.06613		
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
0.2391	0.03863	0.7128	0.5105	0.1582	0.1684		

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1582	0.1684	0.09367		0	0.2367	0.01051	0.02529 0.3072

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	792.8	0.06905	0.2626	0.7029	0.01788	0.002086	0.7097
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.6457	0.3424	0.2930	0.03996	0.1566	0.2314		
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
0.7019	0.1408	0.01445	0.3575	0.8594	0.06552		
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
0.2380	0.03936	0.7130	0.5098	0.1591	0.1674		

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1591	0.1674	0.09460		0	0.2363	0.01050	0.02527 0.3068

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.25	794.1	0.06913	0.2633	0.7006	0.01805	0.002102	0.7094
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.6447	0.3411	0.2927	0.03999	0.1575	0.2309		
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
0.7005	0.1412	0.01457	0.3567	0.8587	0.06492		
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
0.2369	0.04009	0.7132	0.5093	0.1600	0.1665		

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1600	0.1665	0.09553		0	0.2359	0.01050	0.02525 0.3063

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.30	795.4	0.06922	0.2640	0.6984	0.01823	0.002118	0.7090
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.6438	0.3398	0.2923	0.04002	0.1584	0.2304		

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.6991	0.1417	0.01470	0.3559	0.8580	0.06434
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2357	0.04083	0.7134	0.5087	0.1609	0.1655

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1609	0.1655	0.09646		0	0.2355	0.01050	0.02523 0.3059

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.35	796.7	0.06930	0.2647	0.6961	0.01840	0.002134	0.7086
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6428	0.3385	0.2919	0.04005	0.1593	0.2299	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6978	0.1421	0.01482	0.3550	0.8573	0.06377	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2345	0.04158	0.7137	0.5082	0.1618	0.1645	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1618	0.1645	0.09739		0	0.2351	0.01049	0.02521 0.3055

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	798.0	0.06938	0.2654	0.6939	0.01857	0.002149	0.7082
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6418	0.3373	0.2915	0.04008	0.1602	0.2295	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6964	0.1425	0.01495	0.3542	0.8567	0.06323	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2334	0.04233	0.7140	0.5078	0.1626	0.1636	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1626	0.1636	0.09833		0	0.2347	0.01049	0.02519 0.3051

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.45	799.2	0.06946	0.2661	0.6917	0.01874	0.002165	0.7078
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6409	0.3360	0.2911	0.04011	0.1611	0.2290	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6950	0.1429	0.01507	0.3534	0.8560	0.06269	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2322	0.04309	0.7143	0.5074	0.1635	0.1626	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1635	0.1626	0.09926		0	0.2343	0.01049	0.02518 0.3047

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.60    703.6 0.06177 0.2106 0.8341 0.009185 0.001044 0.7123
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7156 0.3983 0.2928 0.03711 0.1073 0.2717
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7696 0.1264 0.008728 0.3810 0.9074 0.1466
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2743 0.01183 0.7323 0.5991 0.1135 0.2098

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1135 0.2098 0.05220 0 0.2587 0.01168 1.459e-5 0.02831 0.3258

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.70    708.0 0.06212 0.2133 0.8289 0.009474 0.001086 0.7132
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7122 0.3970 0.2938 0.03749 0.1091 0.2692
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7672 0.1265 0.008960 0.3812 0.9046 0.1395
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2735 0.01257 0.7230 0.5823 0.1152 0.2085

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1152 0.2085 0.05401 0 0.2577 0.011280.0001712 0.02802 0.3251

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.80    712.3 0.06248 0.2159 0.8236 0.009771 0.001129 0.7140
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7088 0.3956 0.2948 0.03786 0.1109 0.2668
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7648 0.1265 0.009191 0.3813 0.9020 0.1330
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2726 0.01334 0.7133 0.5644 0.1169 0.2072

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1169 0.2072 0.05584 0 0.2567 0.010900.0003237 0.02774 0.3244

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.90    716.6 0.06286 0.2185 0.8181 0.01008 0.001173 0.7148
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7054 0.3941 0.2957 0.03822 0.1127 0.2645
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7624 0.1265 0.009424 0.3813 0.8994 0.1270
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2717 0.01415 0.7030 0.5450 0.1186 0.2058

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1186 0.2058 0.05771 0 0.2558 0.010520.0004733 0.02746 0.3237

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)

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```

12.00  720.9 0.06324 0.2211 0.8126 0.01039 0.001219 0.7155
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7021 0.3926 0.2965 0.03857 0.1145 0.2623
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.7599 0.1265 0.009657 0.3813 0.8970 0.1214
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.2707 0.01501 0.6920 0.5238 0.1204 0.2043

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1204 0.2043 0.05962 0 0.2548 0.010150 0.0006212 0.02718 0.3229

```

```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10  725.1 0.06364 0.2237 0.8069 0.01071 0.001265 0.7161
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6987 0.3910 0.2972 0.03892 0.1163 0.2601
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.7574 0.1265 0.009891 0.3812 0.8947 0.1162
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.2696 0.01591 0.6803 0.5003 0.1222 0.2028

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1222 0.2028 0.06156 0 0.2538 0.0097870 0.0007689 0.02690 0.3221

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```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20  729.3 0.06405 0.2262 0.8011 0.01103 0.001313 0.7166
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6953 0.3894 0.2979 0.03925 0.1181 0.2579
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.7549 0.1266 0.01012 0.3810 0.8924 0.1114
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.2685 0.01685 0.6674 0.4737 0.1241 0.2012

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1241 0.2012 0.06356 0 0.2528 0.0094220 0.0009181 0.02663 0.3213

```

```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30  733.4 0.06446 0.2288 0.7952 0.01137 0.001361 0.7171
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6919 0.3877 0.2985 0.03958 0.1200 0.2559
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.7523 0.1266 0.01036 0.3808 0.8902 0.1069
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.2673 0.01784 0.6531 0.4429 0.1260 0.1996

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1260 0.1996 0.06561 0 0.2519 0.009053 0.001071 0.02636 0.3204

```

```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40  737.5 0.06489 0.2313 0.7892 0.01171 0.001410 0.7175
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.6885 0.3859 0.2990 0.03990 0.1218 0.2539
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7497 0.1266 0.01059 0.3805 0.8881 0.1028
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2660 0.01888 0.6368 0.4057 0.1280 0.1979

mode liq bi g mu pl ilm ru ky q
 0.1280 0.1979 0.06774 0 0.2509 0.008673 0.001232 0.02608 0.3195

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.50 741.6 0.06532 0.2338 0.7831 0.01205 0.001460 0.7178
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6851 0.3841 0.2994 0.04020 0.1236 0.2519
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7471 0.1266 0.01082 0.3801 0.8861 0.09888
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2647 0.01998 0.6171 0.3570 0.1300 0.1961

mode liq bi g mu pl ilm ru ky q
 0.1300 0.1961 0.06996 0 0.2499 0.008265 0.001409 0.02580 0.3186

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 745.7 0.06578 0.2363 0.7768 0.01240 0.001511 0.7181
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6817 0.3824 0.2999 0.04048 0.1254 0.2500
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7445 0.1266 0.01104 0.3797 0.8841 0.09520
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2632 0.02114 0.5905 0.2808 0.1321 0.1942

mode liq bi g mu pl ilm ru ky q
 0.1321 0.1942 0.07235 0 0.2489 0.007786 0.001625 0.02550 0.3176

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.70 749.8 0.06627 0.2389 0.7700 0.01276 0.001565 0.7185
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6782 0.3807 0.3004 0.04073 0.1273 0.2481
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7419 0.1263 0.01124 0.3794 0.8821 0.09165
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2615 0.02242 0.5444 0.01184 0.1343 0.1921

mode liq bi g mu pl ilm ru ky q
 0.1343 0.1921 0.07513 0 0.2478 0.007110 0.001942 0.02512 0.3165

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 753.4 0.06664 0.2410 0.7643 0.01312 0.001612 0.7184
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6752 0.3784 0.3003 0.04102 0.1290 0.2466
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7391 0.1268 0.01150 0.3784 0.8803 0.08872
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2601 0.02355 0.5437 0.002664 0.1362 0.1903

mode liq bi g mu pl ilm ru ky q
0.1362 0.1903 0.07686 0 0.2469 0.007076 0.001939 0.02499 0.3156

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.90 757.0 0.06700 0.2432 0.7585 0.01347 0.001657 0.7182
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6723 0.3760 0.3002 0.04132 0.1307 0.2451
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7363 0.1272 0.01177 0.3774 0.8785 0.08597
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2587 0.02473 0.5430 0.001487 0.1382 0.1885

mode liq bi g mu pl ilm ru ky q
0.1382 0.1885 0.07863 0 0.2461 0.007041 0.001938 0.02486 0.3148

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 760.5 0.06736 0.2452 0.7527 0.01383 0.001703 0.7179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6694 0.3736 0.3000 0.04163 0.1323 0.2438
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7334 0.1277 0.01205 0.3762 0.8768 0.08340
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2572 0.02594 0.5421 0.001025 0.1401 0.1866

mode liq bi g mu pl ilm ru ky q
0.1401 0.1866 0.08044 0 0.2452 0.007004 0.001940 0.02473 0.3139

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.10 763.9 0.06771 0.2473 0.7468 0.01419 0.001748 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6666 0.3712 0.2997 0.04194 0.1340 0.2424
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7306 0.1282 0.01233 0.3750 0.8751 0.08100
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2556 0.02720 0.54120 0.0007775 0.1421 0.1847

mode liq bi g mu pl ilm ru ky q
0.1421 0.1847 0.08228 0 0.2443 0.006965 0.001944 0.02461 0.3131

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 767.3 0.06806 0.2493 0.7410 0.01455 0.001793 0.7172
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6638 0.3687 0.2994 0.04225 0.1356 0.2412
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7277 0.1287 0.01262 0.3737 0.8734 0.07874
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2539 0.02849 0.54020.0006241 0.1441 0.1827

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1441	0.1827	0.08417		0	0.2435	0.006925	0.001952	0.02449 0.3122

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.30 770.6 0.06840 0.2512 0.7352 0.01491 0.001837 0.7167
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6610 0.3661 0.2990 0.04257 0.1372 0.2399
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7248 0.1293 0.01292 0.3724 0.8718 0.07662
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2521 0.02983 0.53910.0005194 0.1461 0.1807

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1461	0.1807	0.08609		0	0.2426	0.006883	0.001962	0.02438 0.3113

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 773.8 0.06873 0.2531 0.7294 0.01528 0.001880 0.7162
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6584 0.3635 0.2985 0.04290 0.1388 0.2387
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7218 0.1298 0.01322 0.3710 0.8702 0.07463
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2503 0.03121 0.53790.0004435 0.1481 0.1786

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1481	0.1786	0.08805		0	0.2418	0.006839	0.001974	0.02427 0.3104

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50 777.0 0.06905 0.2550 0.7237 0.01564 0.001923 0.7156
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6558 0.3609 0.2980 0.04322 0.1404 0.2376
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7189 0.1304 0.01353 0.3695 0.8686 0.07276
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2484 0.03263 0.53660.0003862 0.1501 0.1766

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1501	0.1766	0.09004		0	0.2409	0.006794	0.001990	0.02416 0.3094

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 780.1 0.06937 0.2568 0.7179 0.01600 0.001964 0.7150
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6532 0.3583 0.2974 0.04355 0.1420 0.2365
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7159 0.1310 0.01384 0.3680 0.8671 0.07101
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2463 0.03409 0.53530.0003418 0.1521 0.1744

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1521	0.1744	0.09206		0	0.2401	0.006747	0.002007	0.02406 0.3085

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.70	783.1	0.06967	0.2585	0.7123	0.01637	0.002005	0.7143
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6507	0.3556	0.2967	0.04389	0.1435	0.2354	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7129	0.1316	0.01416	0.3664	0.8655	0.06935	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2442	0.03559	0.53380	0.0003049	0.1541	0.1723	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1541	0.1723	0.09412		0	0.2392	0.006699	0.002028	0.02396 0.3075

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	786.1	0.06996	0.2602	0.7066	0.01673	0.002045	0.7135
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6483	0.3529	0.2960	0.04422	0.1450	0.2344	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7099	0.1322	0.01449	0.3647	0.8640	0.06780	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2420	0.03714	0.53230	0.0002751	0.1562	0.1701	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1562	0.1701	0.09620		0	0.2384	0.006649	0.002051	0.02387 0.3066

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.90	789.0	0.07024	0.2619	0.7010	0.01709	0.002084	0.7127
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6460	0.3501	0.2952	0.04456	0.1465	0.2334	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7068	0.1329	0.01482	0.3630	0.8626	0.06634	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2398	0.03873	0.53070	0.0002503	0.1582	0.1679	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1582	0.1679	0.09832		0	0.2376	0.006597	0.002076	0.02378 0.3056

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	791.8	0.07051	0.2635	0.6955	0.01745	0.002121	0.7119
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6437	0.3473	0.2944	0.04491	0.1479	0.2324	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7038	0.1335	0.01516	0.3612	0.8611	0.06496	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2374	0.04037	0.52910	0.0002293	0.1602	0.1657	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1602	0.1657	0.1005		0	0.2367	0.006544	0.002104	0.02369 0.3046

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.10 794.6 0.07077 0.2650 0.6901 0.01781 0.002158 0.7110

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6414 0.3445 0.2936 0.04525 0.1494 0.2315

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7007 0.1342 0.01550 0.3594 0.8596 0.06367

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2350 0.04205 0.52740.0002112 0.1622 0.1634

mode liq bi g mu pl ilm ru ky q

0.1622 0.1634 0.1026 0 0.2359 0.006490 0.002134 0.02361 0.3036

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.20 797.3 0.07101 0.2666 0.6847 0.01816 0.002194 0.7100

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6393 0.3417 0.2927 0.04560 0.1508 0.2306

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6976 0.1348 0.01585 0.3576 0.8582 0.06245

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2325 0.04378 0.52560.0001956 0.1642 0.1611

mode liq bi g mu pl ilm ru ky q

0.1642 0.1611 0.1048 0 0.2351 0.006434 0.002166 0.02352 0.3027

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.30 799.9 0.07124 0.2680 0.6794 0.01851 0.002228 0.7090

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6372 0.3389 0.2917 0.04595 0.1522 0.2296

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6945 0.1355 0.01620 0.3556 0.8568 0.06129

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2299 0.04556 0.52380.0001819 0.1662 0.1588

mode liq bi g mu pl ilm ru ky q

0.1662 0.1588 0.1070 0 0.2343 0.006378 0.002201 0.02345 0.3017

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.40 802.5 0.07146 0.2695 0.6742 0.01886 0.002262 0.7080

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6351 0.3360 0.2908 0.04630 0.1536 0.2288

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6913 0.1362 0.01656 0.3537 0.8554 0.06021

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2272 0.04739 0.52190.0001699 0.1682 0.1564

mode liq bi g mu pl ilm ru ky q

0.1682 0.1564 0.1093 0 0.2335 0.006319 0.002238 0.02337 0.3007

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.50 805.0 0.07166 0.2708 0.6690 0.01921 0.002294 0.7069
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6332 0.3332 0.2898 0.04666 0.1549 0.2279
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6881 0.1369 0.01692 0.3517 0.8540 0.05918
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2245 0.04927 0.51990.0001592 0.1701 0.1541

mode liq bi g mu pl ilm ru ky q
 0.1701 0.1541 0.1115 0 0.2327 0.006260 0.002276 0.02330 0.2997

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.60 807.5 0.07185 0.2722 0.6640 0.01955 0.002325 0.7058
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6312 0.3303 0.2887 0.04701 0.1562 0.2270
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6849 0.1375 0.01729 0.3497 0.8526 0.05821
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2216 0.05120 0.51790.0001497 0.1721 0.1517

mode liq bi g mu pl ilm ru ky q
 0.1721 0.1517 0.1138 0 0.2320 0.006200 0.002317 0.02323 0.2987

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.70 809.9 0.07203 0.2735 0.6591 0.01989 0.002355 0.7047
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6294 0.3274 0.2877 0.04737 0.1575 0.2262
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6817 0.1382 0.01766 0.3477 0.8512 0.05730
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2188 0.05319 0.51590.0001411 0.1740 0.1493

mode liq bi g mu pl ilm ru ky q
 0.1740 0.1493 0.1161 0 0.2312 0.006139 0.002360 0.02316 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 812.3 0.07220 0.2747 0.6542 0.02022 0.002384 0.7035
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6276 0.3246 0.2866 0.04772 0.1588 0.2254
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6785 0.1389 0.01804 0.3456 0.8498 0.05644
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2158 0.05524 0.51380.0001333 0.1760 0.1469

mode liq bi g mu pl ilm ru ky q
 0.1760 0.1469 0.1184 0 0.2304 0.006076 0.002404 0.02310 0.2967

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.90 814.6 0.07235 0.2760 0.6495 0.02055 0.002411 0.7023
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6259 0.3217 0.2855 0.04808 0.1601 0.2246
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6753 0.1395 0.01842 0.3435 0.8485 0.05562
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2128 0.05735 0.51160.0001263 0.1779 0.1445

mode liq bi g mu pl ilm ru ky q
 0.1779 0.1445 0.1208 0 0.2297 0.006013 0.002450 0.02303 0.2957

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 816.9 0.07248 0.2772 0.6449 0.02087 0.002438 0.7011
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6242 0.3188 0.2843 0.04844 0.1613 0.2237
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6720 0.1402 0.01880 0.3413 0.8471 0.05485
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2097 0.05952 0.50940.0001199 0.1798 0.1420

mode liq bi g mu pl ilm ru ky q
 0.1798 0.1420 0.1231 0 0.2290 0.005949 0.002498 0.02297 0.2947

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.10 819.1 0.07260 0.2783 0.6404 0.02119 0.002464 0.6998
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6226 0.3159 0.2832 0.04880 0.1626 0.2229
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6687 0.1408 0.01918 0.3392 0.8458 0.05412
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2066 0.06176 0.50720.0001141 0.1817 0.1395

mode liq bi g mu pl ilm ru ky q
 0.1817 0.1395 0.1255 0 0.2282 0.005884 0.002548 0.02291 0.2937

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 821.3 0.07271 0.2794 0.6360 0.02150 0.002488 0.6985
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6210 0.3130 0.2820 0.04915 0.1637 0.2221
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6654 0.1415 0.01957 0.3370 0.8444 0.05343
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2034 0.06406 0.50500.0001087 0.1836 0.1371

mode liq bi g mu pl ilm ru ky q
 0.1836 0.1371 0.1279 0 0.2275 0.005819 0.002599 0.02285 0.2927

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.30 823.4 0.07281 0.2805 0.6318 0.02181 0.002512 0.6971
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6195 0.3101 0.2808 0.04951 0.1649 0.2213
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6621 0.1421 0.01996 0.3348 0.8431 0.05277
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2001 0.06644 0.50270.0001038 0.1854 0.1346

mode liq bi g mu pl ilm ru ky q
0.1854 0.1346 0.1303 0 0.2268 0.005753 0.002652 0.02279 0.2917

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 825.5 0.07289 0.2815 0.6277 0.02211 0.002534 0.6958
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6181 0.3072 0.2796 0.04987 0.1661 0.2205
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6588 0.1427 0.02035 0.3326 0.8417 0.05215
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1968 0.06890 0.5004 9.920e-5 0.1873 0.1321

mode liq bi g mu pl ilm ru ky q
0.1873 0.1321 0.1327 0 0.2262 0.005686 0.002707 0.02273 0.2907

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 827.6 0.07296 0.2825 0.6237 0.02240 0.002556 0.6944
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6167 0.3044 0.2783 0.05023 0.1672 0.2197
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6554 0.1433 0.02074 0.3303 0.8404 0.05157
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1935 0.07144 0.4980 9.498e-5 0.1891 0.1295

mode liq bi g mu pl ilm ru ky q
0.1891 0.1295 0.1351 0 0.2255 0.005619 0.002763 0.02267 0.2897

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 829.6 0.07301 0.2835 0.6198 0.02269 0.002576 0.6930
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6154 0.3015 0.2771 0.05058 0.1683 0.2189
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6520 0.1439 0.02114 0.3281 0.8391 0.05101
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1900 0.07407 0.4957 9.106e-5 0.1909 0.1270

mode liq bi g mu pl ilm ru ky q
0.1909 0.1270 0.1376 0 0.2248 0.005551 0.002820 0.02261 0.2887

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.70 831.6 0.07305 0.2844 0.6161 0.02298 0.002596 0.6915
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6141 0.2986 0.2758 0.05094 0.1694 0.2181
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6486 0.1444 0.02153 0.3258 0.8378 0.05049
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1866 0.07679 0.4933 8.742e-5 0.1927 0.1244

mode liq bi g mu pl ilm ru ky q
0.1927 0.1244 0.1400 0 0.2242 0.005483 0.002879 0.02255 0.2877

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 833.5 0.07308 0.2853 0.6125 0.02325 0.002615 0.6900
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6129 0.2958 0.2746 0.05129 0.1705 0.2173
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6452 0.1450 0.02193 0.3235 0.8364 0.04999
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1831 0.07961 0.4909 8.403e-5 0.1945 0.1218

mode liq bi g mu pl ilm ru ky q
0.1945 0.1218 0.1425 0 0.2236 0.005414 0.002939 0.02249 0.2867

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 835.4 0.07309 0.2862 0.6091 0.02352 0.002632 0.6886
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6118 0.2929 0.2733 0.05165 0.1716 0.2165
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6418 0.1455 0.02233 0.3212 0.8351 0.04953
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1795 0.08253 0.4884 8.085e-5 0.1962 0.1193

mode liq bi g mu pl ilm ru ky q
0.1962 0.1193 0.1450 0 0.2230 0.005345 0.003000 0.02242 0.2857

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 837.3 0.07309 0.2870 0.6058 0.02379 0.002649 0.6870
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6107 0.2901 0.2720 0.05200 0.1726 0.2157
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6384 0.1460 0.02273 0.3189 0.8338 0.04908
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1760 0.08557 0.4860 7.787e-5 0.1980 0.1167

mode liq bi g mu pl ilm ru ky q
0.1980 0.1167 0.1475 0 0.2224 0.005276 0.003063 0.02236 0.2847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 839.1 0.07307 0.2878 0.6027 0.02404 0.002665 0.6855
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6096 0.2873 0.2707 0.05235 0.1736 0.2149
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6349 0.1465 0.02313 0.3165 0.8325 0.04866
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1723 0.08872 0.4835 7.507e-5 0.1997 0.1140

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1997	0.1140	0.1500		0	0.2219	0.005206	0.003128	0.02230 0.2838

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	840.9	0.07304	0.2886	0.5998	0.02429	0.002680	0.6839
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6086	0.2845	0.2694	0.05270	0.1746	0.2141	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6314	0.1470	0.02353	0.3142	0.8312	0.04827	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1687	0.09200	0.4810	7.244e-5	0.2014	0.1114	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2014	0.1114	0.1526		0	0.2213	0.005136	0.003193	0.02223 0.2828

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.30	842.7	0.07299	0.2893	0.5971	0.02454	0.002695	0.6824
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6077	0.2816	0.2681	0.05305	0.1756	0.2132	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6279	0.1474	0.02393	0.3119	0.8299	0.04790	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1649	0.09543	0.4785	6.996e-5	0.2030	0.1087	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2030	0.1087	0.1551		0	0.2208	0.005066	0.003260	0.02216 0.2818

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.40	844.4	0.07293	0.2900	0.5946	0.02477	0.002708	0.6808
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6068	0.2788	0.2668	0.05339	0.1766	0.2124	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6244	0.1479	0.02433	0.3095	0.8285	0.04755	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1612	0.09901	0.4759	6.762e-5	0.2047	0.1060	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2047	0.1060	0.1577		0	0.2203	0.004995	0.003328	0.02209 0.2808

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.50	846.1	0.07285	0.2907	0.5923	0.02500	0.002720	0.6791
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6060	0.2761	0.2655	0.05374	0.1775	0.2116	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6209	0.1483	0.02473	0.3071	0.8272	0.04722	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1574	0.1027	0.4734	6.541e-5	0.2063	0.1033	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2063	0.1033	0.1603		0	0.2199	0.004924	0.003398	0.02202 0.2799

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60    847.8 0.07275 0.2913 0.5902 0.02522 0.002732 0.6775
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6052 0.2733 0.2641 0.05409 0.1784 0.2107
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.6173 0.1487 0.02513 0.3047 0.8259 0.04692
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1536 0.1067 0.4708 6.331e-5 0.2079 0.1006

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2079 0.1006 0.1629 0 0.2194 0.004853 0.003469 0.02194 0.2789

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.70    849.4 0.07264 0.2920 0.5883 0.02543 0.002743 0.6758
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6045 0.2705 0.2628 0.05443 0.1793 0.2098
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.6137 0.1491 0.02553 0.3023 0.8246 0.04664
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1497 0.1108 0.4682 6.132e-5 0.2095 0.09788

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2095 0.09788 0.1655 0 0.2190 0.004781 0.003541 0.02187 0.2779

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80    851.0 0.07251 0.2925 0.5868 0.02563 0.002753 0.6741
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6039 0.2677 0.2615 0.05477 0.1802 0.2090
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.6101 0.1495 0.02594 0.2999 0.8233 0.04637
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1457 0.1151 0.4656 5.942e-5 0.2110 0.09511

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2110 0.09511 0.1682 0 0.2186 0.004708 0.003615 0.02179 0.2770

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90    852.6 0.07235 0.2931 0.5855 0.02582 0.002761 0.6723
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6033 0.2649 0.2601 0.05512 0.1811 0.2081
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.6065 0.1498 0.02634 0.2975 0.8220 0.04613
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1418 0.1197 0.4629 5.762e-5 0.2125 0.09231

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2125 0.09231 0.1709 0 0.2182 0.004636 0.003691 0.02171 0.2760

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)

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17.00  854.1 0.07217 0.2936 0.5846 0.02600 0.002769 0.6706
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6028 0.2622 0.2587 0.05546 0.1819 0.2072
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.6028 0.1502 0.02675 0.2950 0.8206 0.04591
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.1377 0.1246 0.4603 5.589e-5 0.2140 0.08948

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2140 0.08948 0.1736 0 0.2179 0.004562 0.003768 0.02163 0.2751

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10  855.6 0.07197 0.2941 0.5841 0.02617 0.002776 0.6688
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6024 0.2594 0.2574 0.05580 0.1827 0.2064
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5991 0.1505 0.02716 0.2925 0.8193 0.04572
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.1336 0.1297 0.4575 5.425e-5 0.2155 0.08661

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2155 0.08661 0.1763 0 0.2176 0.004488 0.003847 0.02155 0.2741

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20  857.1 0.07174 0.2945 0.5840 0.02632 0.002782 0.6669
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6020 0.2566 0.2560 0.05614 0.1835 0.2055
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5954 0.1509 0.02758 0.2900 0.8180 0.04554
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.1295 0.1353 0.4548 5.267e-5 0.2169 0.08371

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2169 0.08371 0.1791 0 0.2173 0.004412 0.003928 0.02146 0.2732

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.30  858.5 0.07148 0.2949 0.5844 0.02646 0.002786 0.6650
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6017 0.2539 0.2546 0.05648 0.1843 0.2046
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5917 0.1513 0.02800 0.2875 0.8167 0.04540
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.1252 0.1412 0.4520 5.115e-5 0.2183 0.08077

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mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2183 0.08077 0.1819 0 0.2171 0.004335 0.004010 0.02138 0.2723

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40  859.8 0.07118 0.2953 0.5854 0.02659 0.002790 0.6631
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

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0.6016 0.2511 0.2532 0.05683 0.1850 0.2037
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5879 0.1517 0.02843 0.2849 0.8153 0.04528
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1209 0.1475 0.4492 4.969e-5 0.2196 0.07779

mode liq bi g mu pl ilm ru ky q
 0.2196 0.07779 0.1848 0 0.2168 0.004257 0.004095 0.02130 0.2713

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.50 861.1 0.07084 0.2957 0.5870 0.02670 0.002791 0.6611
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6015 0.2483 0.2517 0.05717 0.1857 0.2027
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5841 0.1521 0.02887 0.2823 0.8140 0.04519
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1164 0.1545 0.4463 4.828e-5 0.2209 0.07475

mode liq bi g mu pl ilm ru ky q
 0.2209 0.07475 0.1877 0 0.2166 0.004176 0.004182 0.02121 0.2704

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.60 862.4 0.07046 0.2960 0.5895 0.02678 0.002791 0.6591
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6015 0.2454 0.2503 0.05752 0.1864 0.2018
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5802 0.1525 0.02932 0.2797 0.8127 0.04513
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1119 0.1620 0.4434 4.692e-5 0.2221 0.07166

mode liq bi g mu pl ilm ru ky q
 0.2221 0.07166 0.1907 0 0.2165 0.004094 0.004272 0.02114 0.2695

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.70 863.6 0.07001 0.2962 0.5929 0.02684 0.002789 0.6570
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6016 0.2426 0.2488 0.05786 0.1870 0.2009
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5763 0.1530 0.02979 0.2770 0.8113 0.04512
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1071 0.1703 0.4404 4.559e-5 0.2233 0.06851

mode liq bi g mu pl ilm ru ky q
 0.2233 0.06851 0.1938 0 0.2164 0.004008 0.004365 0.02106 0.2686

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.80 864.7 0.06949 0.2965 0.5974 0.02687 0.002785 0.6548
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6019 0.2397 0.2472 0.05822 0.1876 0.2000
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5723 0.1536 0.03027 0.2742 0.8100 0.04515
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1022 0.1794 0.4373 4.430e-5 0.2244 0.06528

mode liq bi g mu pl ilm ru ky q
0.2244 0.06528 0.1970 0 0.2163 0.003918 0.004461 0.02099 0.2677

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 865.7 0.06889 0.2967 0.6033 0.02686 0.002778 0.6525
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6024 0.2367 0.2456 0.05857 0.1881 0.1990
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5682 0.1542 0.03078 0.2713 0.8086 0.04525
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.09713 0.1896 0.4341 4.304e-5 0.2254 0.06198

mode liq bi g mu pl ilm ru ky q
0.2254 0.06198 0.2002 0 0.2162 0.003824 0.004560 0.02093 0.2669

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 866.6 0.06820 0.2969 0.6108 0.02680 0.002767 0.6501
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6030 0.2337 0.2440 0.05893 0.1886 0.1981
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5641 0.1549 0.03131 0.2683 0.8073 0.04541
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.09179 0.2009 0.4307 4.181e-5 0.2263 0.05858

mode liq bi g mu pl ilm ru ky q
0.2263 0.05858 0.2036 0 0.2162 0.003725 0.004664 0.02089 0.2660

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10 867.3 0.06739 0.2971 0.6201 0.02668 0.002753 0.6477
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6038 0.2307 0.2422 0.05930 0.1890 0.1972
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5599 0.1557 0.03186 0.2652 0.8059 0.04565
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.08622 0.2136 0.4273 4.059e-5 0.2272 0.05508

mode liq bi g mu pl ilm ru ky q
0.2272 0.05508 0.2071 0 0.2161 0.003620 0.004771 0.02085 0.2652

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 867.9 0.06646 0.2973 0.6312 0.02651 0.002734 0.6450
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6047 0.2275 0.2404 0.05967 0.1893 0.1963
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5556 0.1566 0.03244 0.2620 0.8045 0.04598
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.08047 0.2276 0.4237 3.940e-5 0.2279 0.05149

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2279	0.05149	0.2108		0	0.2161	0.003511	0.004883	0.02082 0.2645

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

18.30 868.4 0.06542 0.2976 0.6440 0.02626 0.002712 0.6423

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6058 0.2244 0.2386 0.06003 0.1896 0.1954

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5513 0.1575 0.03302 0.2587 0.8031 0.04640

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.07465 0.2428 0.4200 3.825e-5 0.2286 0.04781

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2286	0.04781	0.2145		0	0.2161	0.003398	0.004998	0.02080 0.2637

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

18.40 868.8 0.06431 0.2980 0.6579 0.02596 0.002687 0.6396

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6069 0.2212 0.2367 0.06040 0.1898 0.1944

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5469 0.1584 0.03360 0.2554 0.8018 0.04689

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.06891 0.2588 0.4162 3.713e-5 0.2293 0.04409

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2293	0.04409	0.2183		0	0.2161	0.003286	0.005114	0.02076 0.2630

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

18.50 869.1 0.06317 0.2985 0.6722 0.02562 0.002661 0.6369

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6079 0.2181 0.2347 0.06074 0.1900 0.1935

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5425 0.1591 0.03414 0.2521 0.8004 0.04742

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.06346 0.2750 0.4125 3.607e-5 0.2300 0.04034

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2300	0.04034	0.2221		0	0.2162	0.003179	0.005230	0.02071 0.2623

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

18.60 869.4 0.06205 0.2991 0.6861 0.02527 0.002634 0.6342

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6089 0.2151 0.2328 0.06108 0.1901 0.1926

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5381 0.1596 0.03463 0.2489 0.7989 0.04797

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.05843 0.2910 0.4089 3.508e-5 0.2308 0.03661

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2308	0.03661	0.2258		0	0.2162	0.003080	0.005343	0.02063 0.2616

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.70	869.8	0.06098	0.2998	0.6991	0.02492	0.002609	0.6316
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6097	0.2121	0.2310	0.06139	0.1903	0.1917	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5338	0.1599	0.03506	0.2458	0.7975	0.04849	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.05387	0.3063	0.4054	3.415e-5	0.2316	0.03291	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2316	0.03291	0.2294		0	0.2163	0.002990	0.005455	0.02050 0.2609

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.80	870.2	0.05997	0.3006	0.7111	0.02458	0.002586	0.6291
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6103	0.2093	0.2292	0.06169	0.1906	0.1907	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5296	0.1599	0.03544	0.2429	0.7961	0.04898	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04977	0.3210	0.4020	3.328e-5	0.2326	0.02923	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2326	0.02923	0.2329		0	0.2164	0.002910	0.005563	0.02034 0.2601

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.90	870.7	0.05904	0.3014	0.7220	0.02426	0.002565	0.6266
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6108	0.2066	0.2275	0.06198	0.1908	0.1897	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5254	0.1598	0.03577	0.2400	0.7947	0.04943	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04611	0.3349	0.3987	3.248e-5	0.2336	0.02559	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2336	0.02559	0.2363		0	0.2165	0.002838	0.005669	0.02014 0.2593

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.00	871.2	0.05818	0.3022	0.7319	0.02396	0.002546	0.6243
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6112	0.2040	0.2258	0.06225	0.1911	0.1887	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5212	0.1595	0.03605	0.2373	0.7933	0.04983	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04283	0.3481	0.3956	3.172e-5	0.2348	0.02196	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2348	0.02196	0.2397		0	0.2166	0.002775	0.005773	0.01991 0.2585

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
19.10	871.8	0.05738	0.3031	0.7408	0.02369	0.002530	0.6220			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.6114	0.2015	0.2242	0.06251	0.1915	0.1877				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.5171	0.1590	0.03630	0.2347	0.7919	0.05019				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.03989	0.3607	0.3926	3.100e-5	0.2360	0.01834				
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q
		0.2360	0.01834	0.2430		0	0.2168	0.002719	0.005876	0.01964 0.2577

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
19.20	872.5	0.05664	0.3040	0.7489	0.02343	0.002514	0.6198			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.6116	0.1991	0.2227	0.06276	0.1918	0.1866				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.5130	0.1584	0.03651	0.2322	0.7905	0.05050				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.03723	0.3727	0.3898	3.033e-5	0.2372	0.01471				
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q
		0.2372	0.01471	0.2462		0	0.2171	0.002669	0.005977	0.01934 0.2568

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
19.30	873.3	0.05595	0.3049	0.7563	0.02320	0.002501	0.6176			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.6117	0.1967	0.2212	0.06300	0.1922	0.1855				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.5089	0.1577	0.03670	0.2298	0.7891	0.05076				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.03482	0.3843	0.3869	2.969e-5	0.2385	0.01109				
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q
		0.2385	0.01109	0.2494		0	0.2173	0.002625	0.006079	0.01902 0.2559

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
19.40	874.1	0.05532	0.3058	0.7630	0.02299	0.002489	0.6155			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.6117	0.1944	0.2198	0.06324	0.1926	0.1844				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.5049	0.1569	0.03686	0.2274	0.7877	0.05098				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.03263	0.3955	0.3842	2.908e-5	0.2399	0.007443				
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q
		0.2399	0.007443	0.2526		0	0.2176	0.002586	0.006179	0.01867 0.2550

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
---------	-------	------	--------	-------	-------	-------	------	--	--	--

```

19.50  875.0 0.05473 0.3067 0.7691 0.02279 0.002478 0.6135
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6116 0.1922 0.2185 0.06347 0.1931 0.1833
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5008 0.1560 0.03700 0.2251 0.7863 0.05117
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.03063 0.4063 0.3816 2.850e-5 0.2413 0.003779

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2413 0.003779 0.2558 0 0.2179 0.002551 0.006280 0.01830 0.2541

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60  875.9 0.05418 0.3075 0.7746 0.02262 0.002469 0.6114
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6115 0.1900 0.2172 0.06369 0.1936 0.1821
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.4968 0.1550 0.03712 0.2229 0.7849 0.05131
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.02880 0.4168 0.3790 2.794e-5 0.2428 8.836e-5

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2428 8.836e-5 0.2589 0 0.2183 0.002519 0.006382 0.01791 0.2531

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.34  520.0 0.04385 0.1140 0.9432 0.002812 8.380e-5 0.6505
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8390 0.4358 0.1923 0.03089 0.04826 0.4198
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.8874 0.3236 0.02483 0.2548 0.001195 0.7899
      Q(ilm)
      0.7447

```

```

mode  liq  bi  g  pl  ilm  ru  ky  q
      0.07032 0.2337 0.02354 0.2786 0.01481 0 0.04238 0.3366

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.41  524.0 0.04398 0.1157 0.9419 0.002889 8.949e-5 0.6526
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8371 0.4352 0.1948 0.03105 0.04928 0.4160
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.8852 0.3177 0.02404 0.2551 0.001264 0.7891
      Q(ilm)
      0.7427

```

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07086	0.2335	0.02397	0.2783	0.01475			0 0.04211 0.3366

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.47	528.0	0.04412	0.1175	0.9405	0.002968	9.551e-5	0.6547
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8350	0.4345	0.1972	0.03121	0.05032	0.4122	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8830	0.3117	0.02327	0.2554	0.001336	0.7883	
	Q(ilm)						
	0.7407						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07140	0.2332	0.02441	0.2779	0.01469			0 0.04183 0.3365

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.53	532.0	0.04427	0.1193	0.9391	0.0030480	0.0001019	0.6567
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8330	0.4339	0.1997	0.03137	0.05136	0.4084	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8807	0.3059	0.02253	0.2557	0.001411	0.7874	
	Q(ilm)						
	0.7387						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07196	0.2330	0.02485	0.2775	0.01462			0 0.04155 0.3365

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.60	536.0	0.04443	0.1211	0.9376	0.0031310	0.0001086	0.6587
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8309	0.4332	0.2021	0.03153	0.05242	0.4047	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8785	0.3001	0.02183	0.2560	0.001490	0.7865	
	Q(ilm)						
	0.7366						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07253	0.2327	0.02530	0.2772	0.01456			0 0.04127 0.3364

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.66	540.0	0.04460	0.1229	0.9361	0.0032160	0.0001157	0.6607
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8288	0.4326	0.2046	0.03169	0.05349	0.4010	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8762	0.2944	0.02115	0.2563	0.001573	0.7857	
	Q(ilm)						
	0.7344						

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.07312 0.2325 0.02574 0.2768 0.01449 0 0.04098 0.3364

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.72 544.0 0.04479 0.1248 0.9346 0.0033030.0001232 0.6627
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8267 0.4319 0.2070 0.03184 0.05457 0.3973
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8739 0.2888 0.02050 0.2567 0.001661 0.7847
Q(ilm)
0.7322

mode liq bi g pl ilm ru ky q
0.07371 0.2322 0.02620 0.2765 0.01443 0 0.04069 0.3363

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.78 548.0 0.04498 0.1266 0.9331 0.0033920.0001312 0.6646
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8245 0.4313 0.2095 0.03200 0.05566 0.3936
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8716 0.2833 0.01988 0.2570 0.001752 0.7838
Q(ilm)
0.73

mode liq bi g pl ilm ru ky q
0.07432 0.2319 0.02666 0.2761 0.01436 0 0.04041 0.3362

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.83 552.0 0.04518 0.1285 0.9315 0.0034830.0001395 0.6664
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8223 0.4306 0.2119 0.03215 0.05676 0.3900
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8692 0.2778 0.01928 0.2574 0.001848 0.7829
Q(ilm)
0.7277

mode liq bi g pl ilm ru ky q
0.07495 0.2316 0.02712 0.2758 0.01430 0 0.04012 0.3362

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.89 556.0 0.04540 0.1304 0.9299 0.0035770.0001483 0.6682
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8201 0.4299 0.2143 0.03230 0.05787 0.3863
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8669 0.2724 0.01871 0.2578 0.001949 0.7819
Q(ilm)
0.7254

mode liq bi g pl ilm ru ky q
0.07558 0.2313 0.02758 0.2754 0.01423 0 0.03982 0.3361

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.95 560.0 0.04562 0.1323 0.9282 0.0036730.0001576 0.6700
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8179 0.4293 0.2167 0.03245 0.05900 0.3827
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8645 0.2671 0.01816 0.2581 0.002055 0.7809
 Q(ilm)
 0.723

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07623	0.2310	0.02806	0.2750	0.01416		0	0.03953 0.3360

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.01 564.0 0.04586 0.1342 0.9265 0.0037710.0001674 0.6718
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8156 0.4286 0.2192 0.03259 0.06013 0.3791
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8621 0.2618 0.01764 0.2585 0.002165 0.7799
 Q(ilm)
 0.7206

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07690	0.2307	0.02854	0.2747	0.01410		0	0.03923 0.3359

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.06 568.0 0.04611 0.1361 0.9248 0.0038710.0001778 0.6735
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8133 0.4279 0.2216 0.03274 0.06128 0.3756
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8597 0.2567 0.01714 0.2589 0.002281 0.7789
 Q(ilm)
 0.7181

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07758	0.2303	0.02902	0.2743	0.01403		0	0.03894 0.3358

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.12 572.0 0.04636 0.1381 0.9230 0.0039740.0001886 0.6752
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8110 0.4272 0.2240 0.03288 0.06244 0.3720
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8573 0.2516 0.01666 0.2593 0.002403 0.7778
 Q(ilm)
 0.7156

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07827	0.2300	0.02951	0.2739	0.01396		0	0.03864 0.3357

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.17 576.0 0.04663 0.1400 0.9212 0.0040790.0002000 0.6768

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8086 0.4266 0.2263 0.03303 0.06361 0.3685
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8549 0.2466 0.01620 0.2598 0.002531 0.7767
Q(ilm)

0.713

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07898	0.2297	0.03001	0.2735	0.01389	0	0.03834	0.3356

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.23 580.0 0.04691 0.1420 0.9194 0.0041870.0002120 0.6785
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8062 0.4259 0.2287 0.03317 0.06480 0.3650
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8524 0.2416 0.01575 0.2602 0.002664 0.7757
Q(ilm)

0.7104

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.07971	0.2293	0.03051	0.2732	0.01382	0	0.03804	0.3355

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.28 584.0 0.04720 0.1440 0.9175 0.0042980.0002247 0.6800
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8038 0.4252 0.2311 0.03331 0.06599 0.3616
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8500 0.2368 0.01533 0.2606 0.002804 0.7746
Q(ilm)

0.7077

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08045	0.2289	0.03103	0.2728	0.01375	0	0.03774	0.3353

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.33 588.0 0.04750 0.1460 0.9155 0.0044110.0002379 0.6816
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8013 0.4245 0.2334 0.03345 0.06720 0.3581
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8475 0.2320 0.01493 0.2611 0.002951 0.7734
Q(ilm)

0.705

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08121	0.2286	0.03155	0.2724	0.01368	0	0.03743	0.3352

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.39 592.0 0.04781 0.1481 0.9135 0.0045270.0002518 0.6831
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7988 0.4237 0.2358 0.03359 0.06841 0.3547

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8450 0.2273 0.01454 0.2615 0.003104 0.7723
Q(ilm)

0.7022

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08199	0.2282	0.03207	0.2720	0.01361		0	0.03713 0.3350

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.44 596.0 0.04814 0.1501 0.9115 0.0046450.0002664 0.6846
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7963 0.4230 0.2381 0.03373 0.06964 0.3514
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8425 0.2227 0.01418 0.2620 0.003265 0.7711
Q(ilm)

0.6994

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08278	0.2278	0.03261	0.2716	0.01354		0	0.03682 0.3349

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.49 600.0 0.04847 0.1522 0.9095 0.0047670.0002818 0.6861
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7937 0.4223 0.2404 0.03386 0.07088 0.3480
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8400 0.2182 0.01383 0.2624 0.003433 0.7699
Q(ilm)

0.6965

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08360	0.2273	0.03316	0.2712	0.01347		0	0.03652 0.3347

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.54 604.0 0.04882 0.1542 0.9073 0.0048910.0002978 0.6875
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7911 0.4216 0.2427 0.03400 0.07214 0.3447
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8374 0.2137 0.01349 0.2629 0.003609 0.7687
Q(ilm)

0.6935

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08443	0.2269	0.03371	0.2708	0.01340		0	0.03621 0.3345

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.59 608.0 0.04917 0.1563 0.9052 0.0050190.0003147 0.6889
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7885 0.4208 0.2450 0.03413 0.07340 0.3414
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8349 0.2094 0.01317 0.2633 0.003794 0.7675

Q(ilm)

0.6905

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08528	0.2265	0.03428	0.2704	0.01333		0	0.03590 0.3344

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.64	612.0	0.04954	0.1584	0.9029	0.0051490	0.0003323	0.6902
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7859	0.4201	0.2472	0.03426	0.07468	0.3381
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8323	0.2051	0.01286	0.2638	0.003987	0.7663

Q(ilm)

0.6875

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08615	0.2260	0.03485	0.2700	0.01326		0	0.03560 0.3342

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.69	616.0	0.04992	0.1605	0.9007	0.0052830	0.0003508	0.6916
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7832	0.4193	0.2495	0.03439	0.07596	0.3349
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8297	0.2009	0.01257	0.2643	0.004189	0.7650

Q(ilm)

0.6843

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08704	0.2256	0.03544	0.2695	0.01319		0	0.03529 0.3340

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.74	620.0	0.05032	0.1627	0.8984	0.0054200	0.0003702	0.6929
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7805	0.4186	0.2517	0.03452	0.07726	0.3317
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8272	0.1967	0.01229	0.2647	0.004400	0.7637

Q(ilm)

0.6812

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08796	0.2251	0.03604	0.2691	0.01312		0	0.03498 0.3337

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.78	624.0	0.05072	0.1648	0.8960	0.0055600	0.0003905	0.6941
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7777	0.4178	0.2539	0.03465	0.07857	0.3285
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8246	0.1927	0.01203	0.2652	0.004621	0.7624

Q(ilm)

0.6779

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08889	0.2246	0.03664	0.2687	0.01305			0 0.03467 0.3335

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.83	628.0	0.05114	0.1670	0.8935	0.0057040	0.0004117	0.6954
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7750	0.4170	0.2561	0.03478	0.07990	0.3253	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8220	0.1887	0.01177	0.2657	0.004852	0.7611	
	Q(ilm)						
	0.6746						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08985	0.2241	0.03726	0.2682	0.01298			0 0.03436 0.3333

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.88	632.0	0.05157	0.1692	0.8910	0.0058510	0.0004339	0.6966
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7721	0.4162	0.2583	0.03491	0.08123	0.3222	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8193	0.1848	0.01153	0.2661	0.005094	0.7597	
	Q(ilm)						
	0.6713						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.09083	0.2235	0.03790	0.2678	0.01291			0 0.03404 0.3330

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.92	636.0	0.05201	0.1714	0.8885	0.0060020	0.0004571	0.6978
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7693	0.4154	0.2604	0.03504	0.08258	0.3191	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8167	0.1810	0.01130	0.2666	0.005347	0.7584	
	Q(ilm)						
	0.6678						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.09183	0.2230	0.03855	0.2673	0.01284			0 0.03373 0.3327

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.97	640.0	0.05246	0.1736	0.8859	0.0061560	0.0004813	0.6989
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7664	0.4145	0.2625	0.03516	0.08394	0.3161	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8140	0.1772	0.01108	0.2671	0.005611	0.7570	
	Q(ilm)						
	0.6644						

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.09286 0.2224 0.03921 0.2669 0.01277 0 0.03342 0.3325

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.01 644.0 0.05293 0.1758 0.8832 0.0063140.0005067 0.7000
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7635 0.4137 0.2646 0.03529 0.08531 0.3131
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8114 0.1735 0.01087 0.2676 0.005888 0.7556
Q(ilm)
0.6608

mode liq bi g pl ilm ru ky q
0.09392 0.2218 0.03988 0.2664 0.01270 0 0.03311 0.3322

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.06 648.0 0.05341 0.1780 0.8804 0.0064760.0005331 0.7011
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7605 0.4128 0.2667 0.03541 0.08670 0.3101
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8087 0.1699 0.01068 0.2680 0.006177 0.7542
Q(ilm)
0.6572

mode liq bi g pl ilm ru ky q
0.09500 0.2212 0.04057 0.2659 0.01263 0 0.03279 0.3319

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.10 652.0 0.05391 0.1803 0.8776 0.0066420.0005608 0.7021
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7576 0.4119 0.2688 0.03553 0.08809 0.3071
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8060 0.1664 0.01049 0.2685 0.006479 0.7527
Q(ilm)
0.6535

mode liq bi g pl ilm ru ky q
0.09612 0.2205 0.04128 0.2655 0.01256 0 0.03248 0.3316

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.14 656.0 0.05442 0.1826 0.8747 0.0068120.0005897 0.7031
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7545 0.4110 0.2708 0.03566 0.08950 0.3042
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8033 0.1629 0.01031 0.2690 0.006795 0.7513
Q(ilm)
0.6498

mode liq bi g pl ilm ru ky q
0.09726 0.2199 0.04200 0.2650 0.01249 0 0.03216 0.3312

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.18 660.0 0.05495 0.1848 0.8718 0.0069860.0006198 0.7041
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7515 0.4101 0.2728 0.03578 0.09092 0.3013
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8006 0.1595 0.01013 0.2695 0.007124 0.7498
 Q(ilm)
 0.6459

mode	liq	bi	g	pl	ilm	ru	ky	q
0.09843	0.2192	0.04274	0.2645	0.01242	0	0.03185	0.3309	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.23 664.0 0.05549 0.1871 0.8687 0.0071640.0006512 0.7050
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7484 0.4091 0.2748 0.03590 0.09236 0.2984
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7978 0.1562 0.009970 0.2699 0.007469 0.7483
 Q(ilm)
 0.6421

mode	liq	bi	g	pl	ilm	ru	ky	q
0.09963	0.2185	0.04350	0.2640	0.01235	0	0.03153	0.3305	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.27 668.0 0.05605 0.1895 0.8656 0.0073470.0006840 0.7059
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7452 0.4082 0.2767 0.03602 0.09380 0.2956
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7951 0.1529 0.009814 0.2704 0.007829 0.7468
 Q(ilm)
 0.6381

mode	liq	bi	g	pl	ilm	ru	ky	q
0.1009	0.2178	0.04427	0.2635	0.01228	0	0.03121	0.3301	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.31 672.0 0.05662 0.1918 0.8624 0.0075340.0007182 0.7068
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7421 0.4072 0.2786 0.03614 0.09526 0.2928
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7923 0.1497 0.009665 0.2709 0.008205 0.7453
 Q(ilm)
 0.6341

mode	liq	bi	g	pl	ilm	ru	ky	q
0.1021	0.2170	0.04507	0.2630	0.01221	0	0.03089	0.3297	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.35 676.0 0.05721 0.1941 0.8592 0.0077260.0007539 0.7076

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7389 0.4062 0.2805 0.03626 0.09674 0.2900
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7895 0.1465 0.009523 0.2713 0.008598 0.7438
 Q(ilm)

0.63

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1034	0.2162	0.04588	0.2625	0.01215		0	0.03057 0.3293

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.38 680.0 0.05782 0.1965 0.8558 0.0079220.0007911 0.7084
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7356 0.4051 0.2824 0.03638 0.09822 0.2872
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7867 0.1434 0.009388 0.2718 0.009008 0.7422
 Q(ilm)

0.6259

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1048	0.2154	0.04672	0.2619	0.01208		0	0.03025 0.3288

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.42 684.0 0.05845 0.1988 0.8524 0.0081230.0008299 0.7092
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7323 0.4041 0.2842 0.03650 0.09972 0.2845
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7838 0.1404 0.009258 0.2722 0.009436 0.7407
 Q(ilm)

0.6217

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1061	0.2145	0.04757	0.2614	0.01202		0	0.02992 0.3284

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.46 688.0 0.05909 0.2012 0.8489 0.0083290.0008703 0.7099
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7290 0.4029 0.2860 0.03662 0.1012 0.2818
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7810 0.1374 0.009134 0.2727 0.009882 0.7391
 Q(ilm)

0.6174

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1076	0.2137	0.04846	0.2609	0.01195		0	0.02960 0.3279

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.49 692.0 0.05976 0.2036 0.8452 0.0085400.0009124 0.7106
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7256 0.4018 0.2878 0.03674 0.1028 0.2792

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7781 0.1345 0.009015 0.2731 0.01035 0.7376
Q(ilm)

0.613

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1090	0.2127	0.04936	0.2603	0.01189		0	0.02927 0.3274

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.53 696.0 0.06045 0.2060 0.8415 0.0087560.0009562 0.7112
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7222 0.4006 0.2896 0.03686 0.1043 0.2766
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7752 0.1316 0.008902 0.2736 0.01083 0.7360
Q(ilm)

0.6086

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1105	0.2118	0.05029	0.2598	0.01183		0	0.02894 0.3269

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.56 700.0 0.06115 0.2084 0.8377 0.008977 0.001002 0.7118
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7187 0.3994 0.2913 0.03698 0.1059 0.2740
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7722 0.1287 0.008792 0.2740 0.01134 0.7344
Q(ilm)

0.6042

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1121	0.2108	0.05124	0.2592	0.01176		0	0.02861 0.3263

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 704.0 0.06189 0.2109 0.8338 0.009203 0.001049 0.7124
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7152 0.3982 0.2930 0.03709 0.1074 0.2714
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7692 0.1259 0.008687 0.2745 0.01187 0.7328
Q(ilm)

0.5997

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1137	0.2097	0.05223	0.2586	0.01171		0	0.02828 0.3257

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.63 708.0 0.06264 0.2133 0.8298 0.009435 0.001099 0.7129
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7116 0.3969 0.2947 0.03721 0.1090 0.2689
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7662 0.1231 0.008586 0.2749 0.01242 0.7312

Q(ilm)

0.5951

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1153	0.2087	0.05324	0.2581	0.01165			0 0.02794 0.3251

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.66	712.0	0.06342	0.2158	0.8257	0.009672	0.001151	0.7133
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7080	0.3956	0.2963	0.03733	0.1106	0.2664
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7631	0.1204	0.008488	0.2754	0.01300	0.7297

Q(ilm)

0.5905

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1170	0.2075	0.05428	0.2575	0.01159			0 0.02760 0.3245

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.69	716.0	0.06423	0.2182	0.8215	0.009915	0.001204	0.7137
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7043	0.3942	0.2979	0.03745	0.1122	0.2639
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7600	0.1177	0.008394	0.2758	0.01360	0.7281

Q(ilm)

0.5858

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1188	0.2064	0.05535	0.2569	0.01154			0 0.02725 0.3238

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.72	720.0	0.06507	0.2207	0.8171	0.01016	0.001260	0.7141
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7006	0.3928	0.2995	0.03756	0.1138	0.2614
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7569	0.1150	0.008302	0.2763	0.01422	0.7265

Q(ilm)

0.5811

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1206	0.2051	0.05646	0.2563	0.01148			0 0.02690 0.3231

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.74	724.0	0.06593	0.2232	0.8127	0.01042	0.001318	0.7144
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6968	0.3913	0.3010	0.03768	0.1155	0.2590
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7536	0.1123	0.008212	0.2767	0.01487	0.7250

Q(ilm)

0.5763

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1225	0.2039	0.05760	0.2557	0.01143		0	0.02655 0.3224

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.77	728.0	0.06683	0.2257	0.8081	0.01068	0.001379	0.7147
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6930	0.3898	0.3025	0.03779	0.1171	0.2566	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7504	0.1097	0.008125	0.2772	0.01555	0.7235	
	Q(ilm)						
	0.5715						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1244	0.2025	0.05877	0.2551	0.01139		0	0.02619 0.3216

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.79	732.0	0.06776	0.2283	0.8034	0.01094	0.001442	0.7148
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6891	0.3882	0.3040	0.03791	0.1188	0.2542	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7471	0.1071	0.008040	0.2776	0.01625	0.7220	
	Q(ilm)						
	0.5667						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1265	0.2011	0.05999	0.2545	0.01134		0	0.02582 0.3208

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.81	736.0	0.06873	0.2308	0.7986	0.01121	0.001507	0.7150
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6851	0.3865	0.3055	0.03803	0.1205	0.2518	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7437	0.1045	0.007955	0.2781	0.01698	0.7205	
	Q(ilm)						
	0.5618						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1286	0.1997	0.06124	0.2539	0.01130		0	0.02545 0.3199

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.83	740.0	0.06973	0.2334	0.7937	0.01149	0.001575	0.7151
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6811	0.3848	0.3070	0.03814	0.1222	0.2495	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7402	0.1019	0.007873	0.2785	0.01774	0.7191	
	Q(ilm)						
	0.557						

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.1307 0.1982 0.06253 0.2532 0.01126 0 0.02507 0.3190

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.85 744.0 0.07078 0.2360 0.7886 0.01177 0.001646 0.7151
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6770 0.3831 0.3084 0.03825 0.1239 0.2472
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7367 0.09927 0.007790 0.2790 0.01853 0.7177
Q(ilm)
0.5521

mode liq bi g pl ilm ru ky q
0.1330 0.1966 0.06387 0.2526 0.01122 0 0.02469 0.3181

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.86 748.0 0.07187 0.2385 0.7834 0.01206 0.001720 0.7150
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6728 0.3812 0.3098 0.03837 0.1257 0.2449
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7331 0.09668 0.007709 0.2795 0.01935 0.7163
Q(ilm)
0.5473

mode liq bi g pl ilm ru ky q
0.1354 0.1949 0.06525 0.2519 0.01119 0 0.02429 0.3171

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.88 752.0 0.07300 0.2412 0.7780 0.01236 0.001797 0.7149
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6685 0.3793 0.3112 0.03848 0.1274 0.2426
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7294 0.09410 0.007628 0.2800 0.02020 0.7151
Q(ilm)
0.5425

mode liq bi g pl ilm ru ky q
0.1378 0.1932 0.06669 0.2513 0.01116 0 0.02389 0.3160

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.89 756.0 0.07419 0.2438 0.7725 0.01266 0.001876 0.7147
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6642 0.3773 0.3125 0.03860 0.1292 0.2403
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7256 0.09151 0.007547 0.2805 0.02109 0.7138
Q(ilm)
0.5377

mode liq bi g pl ilm ru ky q
0.1404 0.1914 0.06817 0.2506 0.01114 0 0.02347 0.3149

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.89 760.0 0.07543 0.2464 0.7669 0.01296 0.001959 0.7144
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6597 0.3752 0.3139 0.03871 0.1310 0.2380
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7217 0.08892 0.007465 0.2810 0.02200 0.7127
 Q(ilm)

0.533

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1430	0.1894	0.06971	0.2499	0.01112		0	0.02304 0.3137

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.89 764.0 0.07672 0.2491 0.7611 0.01327 0.002045 0.7140
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6552 0.3731 0.3152 0.03882 0.1328 0.2358
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7177 0.08631 0.007383 0.2815 0.02295 0.7116
 Q(ilm)

0.5283

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1458	0.1874	0.07131	0.2492	0.01110		0	0.02260 0.3125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.89 768.0 0.07808 0.2518 0.7551 0.01359 0.002135 0.7136
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6505 0.3708 0.3165 0.03893 0.1346 0.2335
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7136 0.08370 0.007301 0.2821 0.02393 0.7106
 Q(ilm)

0.5237

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1487	0.1853	0.07296	0.2485	0.01109		0	0.02214 0.3112

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.89 772.0 0.07951 0.2545 0.7490 0.01391 0.002228 0.7130
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6458 0.3685 0.3178 0.03904 0.1365 0.2313
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7094 0.08107 0.007217 0.2827 0.02495 0.7097
 Q(ilm)

0.5193

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1518	0.1831	0.07469	0.2478	0.01109		0	0.02167 0.3098

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.88 776.0 0.08101 0.2573 0.7428 0.01423 0.002325 0.7123

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6409 0.3660 0.3191 0.03915 0.1384 0.2290
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7050 0.07842 0.007133 0.2833 0.02599 0.7089
Q(ilm)

0.5149

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1550	0.1808	0.07648	0.2471	0.01109		0	0.02118 0.3083

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.86 780.0 0.08258 0.2601 0.7363 0.01456 0.002426 0.7116
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6359 0.3634 0.3204 0.03925 0.1403 0.2267
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7004 0.07575 0.007047 0.2839 0.02707 0.7082
Q(ilm)

0.5108

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1584	0.1784	0.07834	0.2463	0.01110		0	0.02067 0.3068

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.84 784.0 0.08425 0.2629 0.7297 0.01489 0.002530 0.7107
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6307 0.3607 0.3217 0.03936 0.1422 0.2245
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6957 0.07306 0.006959 0.2846 0.02818 0.7077
Q(ilm)

0.5068

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1620	0.1758	0.08029	0.2455	0.01111		0	0.02014 0.3051

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.81 788.0 0.08600 0.2657 0.7229 0.01522 0.002639 0.7097
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6254 0.3579 0.3231 0.03946 0.1441 0.2222
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6909 0.07035 0.006870 0.2854 0.02932 0.7073
Q(ilm)

0.503

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1658	0.1731	0.08232	0.2447	0.01114		0	0.01959 0.3033

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.77 792.0 0.08786 0.2686 0.7160 0.01556 0.002751 0.7086
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6198 0.3550 0.3244 0.03956 0.1461 0.2199

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6858 0.06760 0.006780 0.2862 0.03049 0.7071
Q(ilm)

0.4995

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1699	0.1702	0.08445	0.2439	0.01117			0 0.01900 0.3014

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.73 796.0 0.08984 0.2716 0.7089 0.01589 0.002868 0.7073
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6141 0.3519 0.3258 0.03966 0.1481 0.2175
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6805 0.06483 0.006688 0.2870 0.03169 0.7070
Q(ilm)

0.4963

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1741	0.1672	0.08667	0.2430	0.01121			0 0.01839 0.2994

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.68 800.0 0.09193 0.2746 0.7016 0.01623 0.002990 0.7058
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6082 0.3486 0.3272 0.03976 0.1502 0.2151
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6750 0.06203 0.006594 0.2880 0.03292 0.7072
Q(ilm)

0.4934

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1787	0.1639	0.08900	0.2421	0.01127			0 0.01774 0.2972

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.62 804.0 0.09417 0.2776 0.6941 0.01656 0.003116 0.7042
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6020 0.3452 0.3286 0.03985 0.1522 0.2127
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6693 0.05920 0.006498 0.2890 0.03417 0.7075
Q(ilm)

0.4909

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1836	0.1605	0.09146	0.2411	0.01133			0 0.01706 0.2949

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.55 808.0 0.09656 0.2807 0.6864 0.01689 0.003246 0.7024
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5956 0.3416 0.3301 0.03994 0.1544 0.2102
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6632 0.05634 0.006401 0.2902 0.03543 0.7081

Q(ilm)

0.4887

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1889	0.1569	0.09405	0.2401	0.01141		0	0.01632 0.2923

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.46	812.0	0.09912	0.2840	0.6785	0.01721	0.003382	0.7004
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5888	0.3378	0.3317	0.04002	0.1565	0.2077
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6569	0.05344	0.006302	0.2914	0.03671	0.7090

Q(ilm)

0.4871

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1946	0.1530	0.09678	0.2390	0.01150		0	0.01554 0.2896

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.36	816.0	0.1019	0.2873	0.6705	0.01753	0.003522	0.6981
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5817	0.3338	0.3334	0.04010	0.1587	0.2051
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6502	0.05052	0.006201	0.2929	0.03800	0.7101

Q(ilm)

0.4859

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2007	0.1489	0.09968	0.2378	0.01161		0	0.01470 0.2866

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.25	820.0	0.1048	0.2907	0.6622	0.01784	0.003667	0.6956
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5742	0.3296	0.3351	0.04017	0.1610	0.2023
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6432	0.04757	0.006099	0.2945	0.03929	0.7115

Q(ilm)

0.4854

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2075	0.1444	0.1028	0.2365	0.01174		0	0.01378 0.2833

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.12	824.0	0.1080	0.2942	0.6538	0.01814	0.003818	0.6928
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5663	0.3250	0.3370	0.04023	0.1633	0.1995
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6357	0.04459	0.005995	0.2963	0.04056	0.7132

Q(ilm)

0.4855

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2149	0.1396	0.1061	0.2350	0.01189			0 0.01279 0.2797

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.97	828.0	0.1115	0.2979	0.6452	0.01842	0.003973	0.6896
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5578	0.3202	0.3391	0.04029	0.1657	0.1965	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.6277	0.04158	0.005891	0.2984	0.04181	0.7153	
	Q(ilm)						
	0.4863						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2231	0.1345	0.1096	0.2334	0.01206			0 0.01169 0.2758

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.79	832.0	0.1152	0.3017	0.6364	0.01869	0.004134	0.6861
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5488	0.3151	0.3414	0.04033	0.1682	0.1933	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.6193	0.03858	0.005787	0.3008	0.04300	0.7178	
	Q(ilm)						
	0.4878						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2321	0.1289	0.1134	0.2315	0.01226			0 0.01048 0.2714

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.59	836.0	0.1191	0.3057	0.6277	0.01894	0.004300	0.6822
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5392	0.3096	0.3439	0.04036	0.1707	0.1900	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.6103	0.03561	0.005685	0.3036	0.04412	0.7207	
	Q(ilm)						
	0.4902						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2422	0.1228	0.1175	0.2294	0.01248			0 0.009135 0.2666

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.36	840.0	0.1235	0.3099	0.6186	0.01916	0.004471	0.6776
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5286	0.3036	0.3467	0.04036	0.1734	0.1863	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.6004	0.03255	0.005578	0.3070	0.04514	0.7242	
	Q(ilm)						
	0.4937						

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.2538 0.1160 0.1220 0.2268 0.01276 0 0.007570 0.2610

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.07 844.0 0.1288 0.3145 0.6088 0.01934 0.004647 0.6721
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5165 0.2968 0.3499 0.04035 0.1763 0.1823
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5892 0.02935 0.005463 0.3112 0.04600 0.7284
Q(ilm)
0.4986

mode liq bi g pl ilm ru ky q
0.2678 0.1082 0.1272 0.2238 0.01309 0 0.005679 0.2543

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.69 848.0 0.1352 0.3196 0.5983 0.01945 0.004828 0.6652
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5021 0.2887 0.3537 0.04030 0.1795 0.1777
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5760 0.02593 0.005335 0.3168 0.04659 0.7337
Q(ilm)
0.5056

mode liq bi g pl ilm ru ky q
0.2855 0.09873 0.1334 0.2198 0.01351 0 0.003254 0.2458

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.21 851.8 0.1432 0.3250 0.5868 0.01946 0.005004 0.6563
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4847 0.2791 0.3584 0.04021 0.1830 0.1723
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5603 0.02229 0.005193 0.3246 0.04667 0.7404
Q(ilm)
0.5154

mode liq bi g pl ilm ru ky q
0.3085 0.08715 0.1410 0.2146 0.01407 0 0 0.2347

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.54 700.0 0.09941 0.2108 0.8322 0.0063950.0005562 0.6701
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6577 0.3855 0.5706 0.02922 0.1026 0.1297
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6952 0.01502 0.001478 0.3067 0.009384 0.7180
Q(ilm)
0.579

mode	liq	bi	g	pl	ilm	ru	q
	0.1336	0.2018	0.06383	0.2646	0.01246	0	0.3237

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.59 703.0 0.09980 0.2129 0.8283 0.0065410.0005776 0.6712
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6549 0.3849 0.5686 0.02938 0.1039 0.1299
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6939 0.01513 0.001512 0.3070 0.009767 0.7170
Q(ilm)
0.5758

mode	liq	bi	g	pl	ilm	ru	q
	0.1351	0.2009	0.06449	0.2641	0.01242	0	0.3230

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.63 706.0 0.1002 0.2149 0.8242 0.0066900.0005997 0.6722
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6521 0.3842 0.5665 0.02955 0.1051 0.1300
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6927 0.01525 0.001547 0.3074 0.01016 0.7161
Q(ilm)
0.5725

mode	liq	bi	g	pl	ilm	ru	q
	0.1367	0.2000	0.06517	0.2635	0.01237	0	0.3222

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.68 709.0 0.1006 0.2170 0.8202 0.0068430.0006228 0.6732
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6493 0.3835 0.5644 0.02972 0.1063 0.1302
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6914 0.01536 0.001583 0.3077 0.01057 0.7151
Q(ilm)
0.5693

mode	liq	bi	g	pl	ilm	ru	q
	0.1383	0.1991	0.06588	0.2629	0.01233	0	0.3215

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.73 712.0 0.1010 0.2191 0.8160 0.0070000.0006467 0.6742
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6465 0.3827 0.5622 0.02989 0.1076 0.1303
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6901 0.01548 0.001620 0.3081 0.01100 0.7142
 Q(ilm)
 0.566

mode liq bi g pl ilm ru q
 0.1400 0.1981 0.06661 0.2623 0.01229 0 0.3206

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.78 715.0 0.1015 0.2212 0.8118 0.0071600.0006716 0.6752
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6436 0.3819 0.5600 0.03006 0.1089 0.1305
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6888 0.01560 0.001658 0.3084 0.01144 0.7133
 Q(ilm)
 0.5628

mode liq bi g pl ilm ru q
 0.1417 0.1971 0.06736 0.2617 0.01225 0 0.3198

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.82 718.0 0.1019 0.2233 0.8074 0.0073250.0006975 0.6761
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6407 0.3811 0.5578 0.03023 0.1102 0.1307
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6874 0.01572 0.001696 0.3087 0.01190 0.7124
 Q(ilm)
 0.5595

mode liq bi g pl ilm ru q
 0.1435 0.1961 0.06814 0.2611 0.01221 0 0.3190

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.87 721.0 0.1024 0.2254 0.8031 0.0074930.0007245 0.6770
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6378 0.3802 0.5555 0.03041 0.1115 0.1310
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6860 0.01584 0.001736 0.3091 0.01237 0.7115
 Q(ilm)
 0.5563

mode liq bi g pl ilm ru q
 0.1453 0.1950 0.06895 0.2605 0.01217 0 0.3181

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.92 724.0 0.1029 0.2275 0.7986 0.0076650.0007525 0.6778

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6349 0.3792 0.5531 0.03059 0.1128 0.1312
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6846 0.01597 0.001776 0.3094 0.01286 0.7107
Q(ilm)

0.5531

mode	liq	bi	g	pl	ilm	ru	q
	0.1472	0.1938	0.06979	0.2599	0.01214	0	0.3171

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.96 727.0 0.1034 0.2296 0.7940 0.0078420.0007817 0.6786
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6319 0.3783 0.5507 0.03078 0.1141 0.1315
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6831 0.01609 0.001817 0.3097 0.01337 0.7099
Q(ilm)

0.5498

mode	liq	bi	g	pl	ilm	ru	q
	0.1491	0.1927	0.07065	0.2593	0.01210	0	0.3162

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.01 730.0 0.1039 0.2317 0.7894 0.0080220.0008122 0.6793
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6289 0.3772 0.5483 0.03096 0.1154 0.1318
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6816 0.01622 0.001859 0.3100 0.01389 0.7091
Q(ilm)

0.5466

mode	liq	bi	g	pl	ilm	ru	q
	0.1511	0.1914	0.07155	0.2587	0.01207	0	0.3152

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.06 733.0 0.1044 0.2339 0.7847 0.0082070.0008439 0.6800
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6259 0.3761 0.5457 0.03115 0.1168 0.1321
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6801 0.01634 0.001903 0.3103 0.01443 0.7083
Q(ilm)

0.5435

mode	liq	bi	g	pl	ilm	ru	q
	0.1531	0.1902	0.07248	0.2580	0.01204	0	0.3142

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.10 736.0 0.1050 0.2360 0.7799 0.0083960.0008769 0.6806
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6228 0.3750 0.5431 0.03135 0.1181 0.1325

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6785 0.01647 0.001947 0.3107 0.01499 0.7076
Q(ilm)

0.5403

mode	liq	bi	g	pl	ilm	ru	q
	0.1552	0.1888	0.07344	0.2574	0.01201	0	0.3131

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.15 739.0 0.1056 0.2382 0.7751 0.0085890.0009114 0.6812
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6198 0.3738 0.5405 0.03154 0.1195 0.1329
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6769 0.01660 0.001992 0.3110 0.01557 0.7069
Q(ilm)

0.5372

mode	liq	bi	g	pl	ilm	ru	q
	0.1573	0.1875	0.07444	0.2567	0.01199	0	0.3121

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.19 742.0 0.1062 0.2404 0.7701 0.0087870.0009474 0.6818
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6167 0.3725 0.5377 0.03174 0.1209 0.1333
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6752 0.01673 0.002039 0.3113 0.01616 0.7063
Q(ilm)

0.5342

mode	liq	bi	g	pl	ilm	ru	q
	0.1595	0.1860	0.07547	0.2561	0.01196	0	0.3109

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.24 745.0 0.1068 0.2426 0.7651 0.0089900.0009849 0.6823
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6135 0.3712 0.5349 0.03195 0.1223 0.1337
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6734 0.01686 0.002087 0.3116 0.01678 0.7058
Q(ilm)

0.5312

mode	liq	bi	g	pl	ilm	ru	q
	0.1618	0.1846	0.07653	0.2554	0.01194	0	0.3098

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.28 748.0 0.1074 0.2448 0.7601 0.009197 0.001024 0.6827
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6104 0.3698 0.5320 0.03216 0.1237 0.1342
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6717 0.01699 0.002136 0.3119 0.01741 0.7052

Q(ilm)

0.5283

mode	liq	bi	g	pl	ilm	ru	q
	0.1642	0.1830	0.07764	0.2547	0.01192	0	0.3086

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.33	751.0	0.1081	0.2470	0.7549	0.009408	0.001065	0.6831
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6072	0.3684	0.5291	0.03237	0.1252	0.1346
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6698	0.01713	0.002186	0.3121	0.01807	0.7048

Q(ilm)

0.5254

mode	liq	bi	g	pl	ilm	ru	q
	0.1666	0.1814	0.07878	0.2540	0.01191	0	0.3073

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.37	754.0	0.1087	0.2492	0.7497	0.009625	0.001108	0.6834
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6039	0.3669	0.5260	0.03258	0.1266	0.1352
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6679	0.01726	0.002237	0.3124	0.01874	0.7044

Q(ilm)

0.5227

mode	liq	bi	g	pl	ilm	ru	q
	0.1691	0.1797	0.07996	0.2533	0.01190	0	0.3060

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.41	757.0	0.1094	0.2514	0.7444	0.009846	0.001153	0.6837
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6007	0.3653	0.5228	0.03280	0.1281	0.1357
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6660	0.01739	0.002290	0.3127	0.01943	0.7041

Q(ilm)

0.52

mode	liq	bi	g	pl	ilm	ru	q
	0.1717	0.1780	0.08118	0.2526	0.01189	0	0.3047

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.45	760.0	0.1101	0.2537	0.7391	0.01007	0.001200	0.6839
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5974	0.3636	0.5196	0.03302	0.1296	0.1363
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6639	0.01753	0.002345	0.3130	0.02015	0.7038

Q(ilm)

0.5174

mode	liq	bi	g	pl	ilm	ru	q
	0.1743	0.1762	0.08245	0.2518	0.01188	0	0.3033

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.50 763.0 0.1109 0.2559 0.7337 0.01030 0.001249 0.6841

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5941 0.3619 0.5163 0.03325 0.1311 0.1369

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.6618 0.01766 0.002400 0.3132 0.02088 0.7036

Q(ilm)

0.5149

mode	liq	bi	g	pl	ilm	ru	q
	0.1771	0.1744	0.08375	0.2511	0.01188	0	0.3019

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.54 766.0 0.1117 0.2582 0.7283 0.01054 0.001301 0.6842

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5907 0.3601 0.5128 0.03348 0.1326 0.1376

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.6597 0.01780 0.002458 0.3135 0.02163 0.7035

Q(ilm)

0.5125

mode	liq	bi	g	pl	ilm	ru	q
	0.1799	0.1724	0.08510	0.2503	0.01188	0	0.3004

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.58 769.0 0.1124 0.2605 0.7228 0.01078 0.001355 0.6842

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5874 0.3582 0.5093 0.03371 0.1341 0.1383

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.6574 0.01793 0.002517 0.3138 0.02240 0.7035

Q(ilm)

0.5103

mode	liq	bi	g	pl	ilm	ru	q
	0.1828	0.1704	0.08650	0.2495	0.01188	0	0.2989

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.62 772.0 0.1132 0.2627 0.7172 0.01103 0.001411 0.6841

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5839 0.3563 0.5056 0.03395 0.1357 0.1391

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.6551 0.01807 0.002577 0.3140 0.02319 0.7036

Q(ilm)

0.5082

mode	liq	bi	g	pl	ilm	ru	q
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0.1858 0.1683 0.08794 0.2487 0.01189 0 0.2973

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.65 775.0 0.1141 0.2650 0.7117 0.01128 0.001471 0.6840
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5805 0.3542 0.5018 0.03419 0.1373 0.1398
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6527 0.01821 0.002640 0.3143 0.02400 0.7037
Q(ilm)
0.5063

mode liq bi g pl ilm ru q
0.1889 0.1662 0.08942 0.2479 0.01191 0 0.2957

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.69 778.0 0.1149 0.2673 0.7061 0.01153 0.001534 0.6839
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5770 0.3521 0.4979 0.03444 0.1388 0.1407
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6503 0.01834 0.002704 0.3145 0.02483 0.7040
Q(ilm)
0.5045

mode liq bi g pl ilm ru q
0.1921 0.1640 0.09096 0.2470 0.01192 0 0.2940

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.73 781.0 0.1158 0.2696 0.7005 0.01180 0.001600 0.6836
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5736 0.3499 0.4939 0.03469 0.1404 0.1415
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6477 0.01848 0.002770 0.3148 0.02567 0.7043
Q(ilm)
0.5028

mode liq bi g pl ilm ru q
0.1954 0.1617 0.09253 0.2462 0.01195 0 0.2922

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.76 784.0 0.1167 0.2720 0.6950 0.01206 0.001669 0.6833
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5701 0.3477 0.4898 0.03494 0.1421 0.1424
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6451 0.01862 0.002838 0.3151 0.02653 0.7048
Q(ilm)
0.5014

mode liq bi g pl ilm ru q
0.1988 0.1593 0.09415 0.2453 0.01197 0 0.2905

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.80 787.0 0.1176 0.2743 0.6894 0.01233 0.001743 0.6829
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5665 0.3453 0.4856 0.03519 0.1437 0.1433
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6424 0.01876 0.002909 0.3153 0.02740 0.7053
 Q(ilm)
 0.5

mode liq bi g pl ilm ru q
 0.2023 0.1569 0.09581 0.2443 0.01200 0 0.2886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.83 790.0 0.1185 0.2766 0.6839 0.01261 0.001820 0.6825
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5630 0.3429 0.4812 0.03545 0.1453 0.1443
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6396 0.01891 0.002981 0.3156 0.02829 0.7059
 Q(ilm)
 0.4989

mode liq bi g pl ilm ru q
 0.2059 0.1544 0.09752 0.2434 0.01204 0 0.2867

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.86 793.0 0.1194 0.2790 0.6784 0.01289 0.001901 0.6820
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5594 0.3404 0.4767 0.03571 0.1470 0.1453
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6367 0.01905 0.003056 0.3158 0.02919 0.7067
 Q(ilm)
 0.498

mode liq bi g pl ilm ru q
 0.2096 0.1518 0.09927 0.2424 0.01208 0 0.2848

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.89 796.0 0.1204 0.2813 0.6729 0.01318 0.001987 0.6814
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5558 0.3379 0.4721 0.03597 0.1487 0.1464
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6337 0.01919 0.003133 0.3161 0.03010 0.7075
 Q(ilm)
 0.4972

mode liq bi g pl ilm ru q
 0.2135 0.1491 0.1011 0.2414 0.01213 0 0.2828

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.92 799.0 0.1214 0.2837 0.6674 0.01347 0.002078 0.6807

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5522 0.3352 0.4672 0.03623 0.1504 0.1475
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6306 0.01933 0.003213 0.3164 0.03103 0.7085
Q(ilm)

0.4967

mode	liq	bi	g	pl	ilm	ru	q
	0.2174	0.1464	0.1029	0.2404	0.01218	0	0.2807

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.95 802.0 0.1224 0.2861 0.6619 0.01377 0.002175 0.6799
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5485 0.3325 0.4623 0.03650 0.1521 0.1487
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6274 0.01948 0.003295 0.3166 0.03196 0.7095
Q(ilm)

0.4963

mode	liq	bi	g	pl	ilm	ru	q
	0.2215	0.1435	0.1048	0.2393	0.01224	0	0.2786

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.98 805.0 0.1235 0.2884 0.6565 0.01407 0.002277 0.6791
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5448 0.3297 0.4572 0.03676 0.1539 0.1499
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6241 0.01962 0.003381 0.3169 0.03290 0.7107
Q(ilm)

0.4962

mode	liq	bi	g	pl	ilm	ru	q
	0.2257	0.1406	0.1068	0.2382	0.01230	0	0.2764

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 808.0 0.1246 0.2908 0.6512 0.01438 0.002385 0.6782
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5411 0.3268 0.4519 0.03703 0.1556 0.1511
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6207 0.01977 0.003469 0.3172 0.03385 0.7120
Q(ilm)

0.4962

mode	liq	bi	g	pl	ilm	ru	q
	0.2300	0.1377	0.1087	0.2371	0.01237	0	0.2741

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.02 811.0 0.1257 0.2932 0.6460 0.01470 0.002499 0.6772
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5373 0.3238 0.4465 0.03729 0.1574 0.1524

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6172 0.01991 0.003560 0.3176 0.03479 0.7134
Q(ilm)

0.4964

mode	liq	bi	g	pl	ilm	ru	q
	0.2345	0.1346	0.1108	0.2359	0.01245	0	0.2718

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.05 814.0 0.1268 0.2956 0.6408 0.01501 0.002621 0.6761
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5335 0.3208 0.4409 0.03755 0.1592 0.1538
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6136 0.02006 0.003655 0.3179 0.03574 0.7149
Q(ilm)

0.4969

mode	liq	bi	g	pl	ilm	ru	q
	0.2391	0.1315	0.1128	0.2347	0.01253	0	0.2694

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.07 817.0 0.1280 0.2980 0.6357 0.01534 0.002750 0.6749
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5297 0.3177 0.4351 0.03781 0.1610 0.1551
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6099 0.02021 0.003753 0.3182 0.03669 0.7164
Q(ilm)

0.4975

mode	liq	bi	g	pl	ilm	ru	q
	0.2438	0.1283	0.1149	0.2334	0.01262	0	0.2670

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.09 820.0 0.1292 0.3003 0.6307 0.01566 0.002887 0.6737
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5259 0.3146 0.4292 0.03807 0.1628 0.1565
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6060 0.02037 0.003855 0.3186 0.03763 0.7181
Q(ilm)

0.4983

mode	liq	bi	g	pl	ilm	ru	q
	0.2487	0.1250	0.1171	0.2321	0.01271	0	0.2645

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.10 823.0 0.1304 0.3027 0.6259 0.01600 0.003033 0.6724
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5221 0.3114 0.4232 0.03832 0.1647 0.1579
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6021 0.02053 0.003960 0.3190 0.03857 0.7199

Q(ilm)

0.4992

mode	liq	bi	g	pl	ilm	ru	q
	0.2537	0.1217	0.1192	0.2307	0.01281	0	0.2619

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.12 826.0 0.1317 0.3051 0.6211 0.01634 0.003188 0.6710

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5182 0.3081 0.4170 0.03856 0.1665 0.1594

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5981 0.02069 0.004069 0.3194 0.03950 0.7217

Q(ilm)

0.5004

mode	liq	bi	g	pl	ilm	ru	q
	0.2588	0.1183	0.1214	0.2293	0.01292	0	0.2593

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.14 829.0 0.1329 0.3074 0.6166 0.01668 0.003353 0.6695

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5144 0.3048 0.4106 0.03880 0.1684 0.1609

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5941 0.02085 0.004183 0.3199 0.04041 0.7237

Q(ilm)

0.5017

mode	liq	bi	g	pl	ilm	ru	q
	0.2641	0.1148	0.1237	0.2278	0.01303	0	0.2566

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.15 832.0 0.1342 0.3098 0.6121 0.01703 0.003528 0.6680

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5105 0.3015 0.4041 0.03903 0.1703 0.1624

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5899 0.02102 0.004300 0.3204 0.04131 0.7257

Q(ilm)

0.5031

mode	liq	bi	g	pl	ilm	ru	q
	0.2695	0.1113	0.1259	0.2263	0.01315	0	0.2539

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.16 835.0 0.1355 0.3122 0.6078 0.01738 0.003715 0.6664

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5066 0.2982 0.3975 0.03924 0.1722 0.1639

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5856 0.02120 0.004422 0.3209 0.04219 0.7277

Q(ilm)

0.5047

mode	liq	bi	g	pl	ilm	ru	q
	0.2750	0.1077	0.1282	0.2247	0.01327	0	0.2511

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.17	838.0	0.1369	0.3145	0.6037	0.01774	0.003913	0.6647
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5027	0.2948	0.3907	0.03945	0.1741	0.1654
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5812	0.02138	0.004549	0.3214	0.04305	0.7299
		Q(ilm)					
		0.5063					

mode	liq	bi	g	pl	ilm	ru	q
	0.2807	0.1041	0.1305	0.2230	0.01340	0	0.2483

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.18	841.0	0.1382	0.3168	0.5997	0.01811	0.004125	0.6630
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4988	0.2914	0.3839	0.03964	0.1760	0.1669
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5768	0.02157	0.004680	0.3220	0.04389	0.7321
		Q(ilm)					
		0.5081					

mode	liq	bi	g	pl	ilm	ru	q
	0.2865	0.1005	0.1327	0.2213	0.01354	0	0.2454

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.19	844.0	0.1396	0.3191	0.5959	0.01848	0.004350	0.6612
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4949	0.2880	0.3769	0.03982	0.1780	0.1684
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5723	0.02176	0.004816	0.3227	0.04470	0.7343
		Q(ilm)					
		0.51					

mode	liq	bi	g	pl	ilm	ru	q
	0.2924	0.09682	0.1350	0.2195	0.01368	0	0.2425

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	847.0	0.1409	0.3214	0.5922	0.01885	0.004590	0.6594
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4910	0.2845	0.3698	0.03999	0.1799	0.1699
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5677	0.02196	0.004957	0.3234	0.04549	0.7366
		Q(ilm)					
		0.512					

mode	liq	bi	g	pl	ilm	ru	q
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0.2985 0.09311 0.1373 0.2177 0.01383 0 0.2395

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 850.0 0.1423 0.3237 0.5887 0.01923 0.004845 0.6575
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4870 0.2811 0.3627 0.04013 0.1818 0.1714
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5631 0.02217 0.005104 0.3241 0.04624 0.7390
Q(ilm)
0.5141

mode liq bi g pl ilm ru q
0.3047 0.08937 0.1396 0.2158 0.01398 0 0.2365

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.21 853.0 0.1437 0.3260 0.5854 0.01962 0.005117 0.6555
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4831 0.2777 0.3554 0.04026 0.1838 0.1729
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5584 0.02238 0.005256 0.3249 0.04696 0.7413
Q(ilm)
0.5163

mode liq bi g pl ilm ru q
0.3111 0.08560 0.1419 0.2138 0.01413 0 0.2335

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.21 856.0 0.1452 0.3282 0.5823 0.02001 0.005407 0.6535
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4791 0.2742 0.3481 0.04037 0.1858 0.1743
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5536 0.02261 0.005413 0.3257 0.04764 0.7438
Q(ilm)
0.5185

mode liq bi g pl ilm ru q
0.3176 0.08181 0.1442 0.2117 0.01430 0 0.2304

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.21 859.0 0.1466 0.3304 0.5794 0.02041 0.005716 0.6514
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4752 0.2708 0.3408 0.04045 0.1878 0.1757
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5488 0.02284 0.005576 0.3267 0.04828 0.7462
Q(ilm)
0.5208

mode liq bi g pl ilm ru q
0.3242 0.07801 0.1464 0.2096 0.01446 0 0.2273

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.21 862.0 0.1481 0.3326 0.5766 0.02081 0.006045 0.6493
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4712 0.2674 0.3334 0.04052 0.1897 0.1771
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5439 0.02308 0.005745 0.3276 0.04888 0.7487
Q(ilm)
0.5231

mode	liq	bi	g	pl	ilm	ru	q
	0.3310	0.07418	0.1487	0.2074	0.01463	0	0.2241

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.21 865.0 0.1495 0.3348 0.5740 0.02122 0.006396 0.6471
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4672 0.2639 0.3259 0.04056 0.1917 0.1784
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5390 0.02332 0.005920 0.3287 0.04944 0.7512
Q(ilm)
0.5255

mode	liq	bi	g	pl	ilm	ru	q
	0.3379	0.07034	0.1509	0.2051	0.01481	0	0.2209

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.21 868.0 0.1510 0.3369 0.5716 0.02164 0.006769 0.6449
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4632 0.2605 0.3184 0.04057 0.1937 0.1797
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5339 0.02357 0.006102 0.3298 0.04995 0.7537
Q(ilm)
0.528

mode	liq	bi	g	pl	ilm	ru	q
	0.3451	0.06649	0.1531	0.2027	0.01498	0	0.2177

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.21 871.0 0.1525 0.3391 0.5693 0.02206 0.007167 0.6426
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4592 0.2571 0.3109 0.04056 0.1958 0.1809
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5289 0.02383 0.006290 0.3311 0.05041 0.7563
Q(ilm)
0.5305

mode	liq	bi	g	pl	ilm	ru	q
	0.3524	0.06262	0.1552	0.2003	0.01517	0	0.2144

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 874.0 0.1540 0.3412 0.5672 0.02249 0.007592 0.6402

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4551 0.2537 0.3034 0.04053 0.1978 0.1820
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5238 0.02410 0.006484 0.3324 0.05081 0.7589
Q(ilm)

0.533

mode	liq	bi	g	pl	ilm	ru	q
	0.3598	0.05874	0.1573	0.1977	0.01535	0	0.2110

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.19 877.0 0.1556 0.3432 0.5653 0.02292 0.008045 0.6378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4510 0.2504 0.2960 0.04047 0.1998 0.1830
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5186 0.02437 0.006685 0.3339 0.05116 0.7615
Q(ilm)

0.5356

mode	liq	bi	g	pl	ilm	ru	q
	0.3675	0.05484	0.1594	0.1950	0.01554	0	0.2076

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.18 880.0 0.1572 0.3453 0.5635 0.02336 0.008528 0.6353
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4469 0.2470 0.2885 0.04038 0.2019 0.1840
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5133 0.02464 0.006892 0.3355 0.05144 0.7641
Q(ilm)

0.5382

mode	liq	bi	g	pl	ilm	ru	q
	0.3754	0.05092	0.1614	0.1923	0.01574	0	0.2042

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.16 883.0 0.1588 0.3473 0.5619 0.02381 0.009044 0.6328
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4427 0.2436 0.2810 0.04026 0.2039 0.1849
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5080 0.02491 0.007107 0.3373 0.05166 0.7668
Q(ilm)

0.5409

mode	liq	bi	g	pl	ilm	ru	q
	0.3836	0.04699	0.1634	0.1894	0.01594	0	0.2007

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.15 886.0 0.1604 0.3493 0.5605 0.02426 0.009594 0.6301
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4385 0.2402 0.2736 0.04012 0.2060 0.1857

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5025 0.02519 0.007328 0.3392 0.05181 0.7695
Q(ilm)

0.5436

mode	liq	bi	g	pl	ilm	ru	q
	0.3920	0.04303	0.1653	0.1864	0.01614	0	0.1970

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.12 889.0 0.1622 0.3512 0.5592 0.02472 0.01018 0.6274
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4342 0.2367 0.2662 0.03994 0.2081 0.1864
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4970 0.02546 0.007557 0.3413 0.05188 0.7722
Q(ilm)

0.5464

mode	liq	bi	g	pl	ilm	ru	q
	0.4008	0.03904	0.1672	0.1833	0.01635	0	0.1933

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.10 892.0 0.1639 0.3532 0.5580 0.02519 0.01081 0.6246
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4297 0.2333 0.2588 0.03974 0.2102 0.1870
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4913 0.02573 0.007793 0.3436 0.05186 0.7750
Q(ilm)

0.5492

mode	liq	bi	g	pl	ilm	ru	q
	0.4099	0.03501	0.1690	0.1800	0.01657	0	0.1895

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.07 895.0 0.1657 0.3550 0.5570 0.02567 0.01149 0.6216
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4252 0.2298 0.2514 0.03950 0.2123 0.1875
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4856 0.02600 0.008036 0.3462 0.05175 0.7778
Q(ilm)

0.5521

mode	liq	bi	g	pl	ilm	ru	q
	0.4193	0.03093	0.1707	0.1766	0.01679	0	0.1856

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.03 898.0 0.1676 0.3569 0.5562 0.02615 0.01221 0.6185
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4206 0.2263 0.2441 0.03924 0.2144 0.1879
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4796 0.02625 0.008287 0.3492 0.05154 0.7806

Q(ilm)

0.5551

mode	liq	bi	g	pl	ilm	ru	q
	0.4292	0.02679	0.1724	0.1731	0.01702	0	0.1815

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.98	901.0	0.1696	0.3587	0.5554	0.02665	0.01299	0.6152
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4159	0.2227	0.2369	0.03894	0.2166	0.1881
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4735	0.02649	0.008546	0.3524	0.05121	0.7835
		Q(ilm)					

0.5582

mode	liq	bi	g	pl	ilm	ru	q
	0.4396	0.02258	0.1740	0.1693	0.01726	0	0.1772

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.93	904.0	0.1717	0.3605	0.5548	0.02715	0.01383	0.6117
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4110	0.2190	0.2296	0.03861	0.2188	0.1881
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4671	0.02670	0.008814	0.3561	0.05076	0.7864
		Q(ilm)					

0.5613

mode	liq	bi	g	pl	ilm	ru	q
	0.4506	0.01828	0.1755	0.1654	0.01750	0	0.1727

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.87	907.0	0.1740	0.3622	0.5544	0.02767	0.01474	0.6080
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4059	0.2152	0.2224	0.03825	0.2211	0.1881
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4605	0.02690	0.009089	0.3603	0.05016	0.7894
		Q(ilm)					

0.5646

mode	liq	bi	g	pl	ilm	ru	q
	0.4623	0.01386	0.1769	0.1612	0.01776	0	0.1680

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.79	910.0	0.1764	0.3639	0.5540	0.02820	0.01572	0.6040
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4006	0.2113	0.2151	0.03785	0.2234	0.1878
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4535	0.02706	0.009374	0.3651	0.04940	0.7925
		Q(ilm)					

0.5681

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mode   liq   bi    g    pl   ilm   ru    q
      0.4748 0.009299 0.1782 0.1568 0.01803    0 0.1629
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.70   913.0 0.1790 0.3655 0.5538 0.02875 0.01679 0.5997
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3950 0.2073 0.2079 0.03742 0.2257 0.1873
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4462 0.02719 0.009669 0.3707 0.04846 0.7957
      Q(ilm)
0.5717

mode   liq   bi    g    pl   ilm   ru    q
      0.4882 0.004561 0.1794 0.1521 0.01832    0 0.1575
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, pl, ilm, ru, q
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61   915.8 0.1816 0.3669 0.5537 0.02927 0.01787 0.5953
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3897 0.2033 0.2012 0.03698 0.2279 0.1867
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4390 0.02726 0.009949 0.3766 0.04741 0.7987
      Q(ilm)
0.5752

mode   liq   bi    g    pl   ilm   ru    q
      0.5016    0 0.1804 0.1474 0.01860    0 0.1520
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, g, pl, ilm, ru, q
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.15   800.0 0.1496 0.3300 0.4322 0.01348 0.006313 0.5501
      h2o(L) x(g)  z(g)  f(g)  ca(pl) k(pl)
      0.4950 0.4578 0.02744 0.007017 0.2878 0.07833
      x(ilm) Q(ilm)
      0.7937 0.6414

mode   liq   g    pl   ilm   ru    q

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0.3490 0.2020 0.2347 0.01876 0 0.1955

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.16 802.0 0.1500 0.3308 0.4342 0.01366 0.006427 0.5512
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4934 0.4576 0.02744 0.007063 0.2887 0.07788
x(ilm) Q(ilm)
0.7938 0.6405

mode liq g pl ilm ru q
0.3508 0.2018 0.2336 0.01875 0 0.1950

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.17 804.0 0.1504 0.3315 0.4363 0.01384 0.006543 0.5523
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4918 0.4575 0.02744 0.007108 0.2896 0.07742
x(ilm) Q(ilm)
0.7939 0.6395

mode liq g pl ilm ru q
0.3526 0.2017 0.2325 0.01875 0 0.1945

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.19 806.0 0.1509 0.3323 0.4383 0.01403 0.006662 0.5534
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4903 0.4574 0.02743 0.007154 0.2905 0.07696
x(ilm) Q(ilm)
0.7940 0.6386

mode liq g pl ilm ru q
0.3544 0.2015 0.2314 0.01875 0 0.1940

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 808.0 0.1513 0.3330 0.4403 0.01421 0.006782 0.5544
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4887 0.4572 0.02743 0.007200 0.2914 0.07651
x(ilm) Q(ilm)
0.7941 0.6376

mode liq g pl ilm ru q
0.3562 0.2013 0.2302 0.01874 0 0.1935

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.22 810.0 0.1518 0.3337 0.4423 0.01440 0.006905 0.5555
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4871 0.4571 0.02743 0.007246 0.2923 0.07605
x(ilm) Q(ilm)
0.7942 0.6366

mode liq g pl ilm ru q

0.3581 0.2011 0.2291 0.01874 0 0.1930

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.23 812.0 0.1522 0.3345 0.4444 0.01459 0.007030 0.5565
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4855 0.4569 0.02742 0.007292 0.2933 0.07558
x(ilm) Q(ilm)
0.7943 0.6357

mode liq g pl ilm ru q
0.3600 0.2009 0.2279 0.01874 0 0.1925

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.24 814.0 0.1527 0.3352 0.4464 0.01479 0.007158 0.5576
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4839 0.4568 0.02742 0.007338 0.2942 0.07512
x(ilm) Q(ilm)
0.7944 0.6347

mode liq g pl ilm ru q
0.3619 0.2007 0.2267 0.01873 0 0.1919

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.26 816.0 0.1531 0.3359 0.4484 0.01498 0.007287 0.5586
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4822 0.4566 0.02742 0.007384 0.2952 0.07465
x(ilm) Q(ilm)
0.7945 0.6337

mode liq g pl ilm ru q
0.3638 0.2005 0.2256 0.01873 0 0.1914

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.27 818.0 0.1536 0.3367 0.4505 0.01518 0.007419 0.5597
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4806 0.4565 0.02741 0.007431 0.2962 0.07418
x(ilm) Q(ilm)
0.7946 0.6327

mode liq g pl ilm ru q
0.3658 0.2003 0.2244 0.01873 0 0.1909

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.28 820.0 0.1540 0.3374 0.4525 0.01538 0.007554 0.5607
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4790 0.4563 0.02741 0.007477 0.2972 0.07371
x(ilm) Q(ilm)
0.7948 0.6317

mode liq g pl ilm ru q

0.3677 0.2001 0.2232 0.01872 0 0.1903

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.30 822.0 0.1545 0.3381 0.4546 0.01559 0.007690 0.5617
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4773 0.4561 0.02740 0.007524 0.2982 0.07324
x(ilm) Q(ilm)
0.7949 0.6307

mode liq g pl ilm ru q
0.3697 0.1998 0.2219 0.01872 0 0.1898

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.31 824.0 0.1550 0.3388 0.4566 0.01579 0.007830 0.5627
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4757 0.4560 0.02740 0.007570 0.2993 0.07276
x(ilm) Q(ilm)
0.7950 0.6297

mode liq g pl ilm ru q
0.3718 0.1996 0.2207 0.01872 0 0.1892

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.32 826.0 0.1555 0.3396 0.4587 0.01600 0.007972 0.5637
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4740 0.4558 0.02740 0.007617 0.3003 0.07229
x(ilm) Q(ilm)
0.7951 0.6286

mode liq g pl ilm ru q
0.3738 0.1994 0.2195 0.01871 0 0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.33 828.0 0.1559 0.3403 0.4608 0.01621 0.008116 0.5646
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4723 0.4556 0.02739 0.007664 0.3014 0.07181
x(ilm) Q(ilm)
0.7952 0.6276

mode liq g pl ilm ru q
0.3759 0.1991 0.2182 0.01871 0 0.1880

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.35 830.0 0.1564 0.3410 0.4628 0.01643 0.008263 0.5656
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4707 0.4554 0.02739 0.007711 0.3025 0.07132
x(ilm) Q(ilm)
0.7953 0.6266

mode liq g pl ilm ru q

0.3780 0.1989 0.2169 0.01871 0 0.1875

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.36 832.0 0.1569 0.3417 0.4649 0.01665 0.008412 0.5666
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4690 0.4552 0.02738 0.007759 0.3036 0.07084
x(ilm) Q(ilm)
0.7954 0.6255

mode liq g pl ilm ru q
0.3801 0.1986 0.2157 0.01871 0 0.1869

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.37 834.0 0.1574 0.3424 0.4670 0.01687 0.008565 0.5675
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4673 0.4550 0.02738 0.007806 0.3047 0.07035
x(ilm) Q(ilm)
0.7955 0.6245

mode liq g pl ilm ru q
0.3823 0.1984 0.2144 0.01870 0 0.1863

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.38 836.0 0.1579 0.3432 0.4690 0.01709 0.008720 0.5685
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4656 0.4548 0.02737 0.007853 0.3059 0.06986
x(ilm) Q(ilm)
0.7956 0.6235

mode liq g pl ilm ru q
0.3845 0.1981 0.2131 0.01870 0 0.1856

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.39 838.0 0.1584 0.3439 0.4711 0.01732 0.008878 0.5694
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4639 0.4546 0.02737 0.007901 0.3070 0.06937
x(ilm) Q(ilm)
0.7956 0.6224

mode liq g pl ilm ru q
0.3867 0.1979 0.2117 0.01870 0 0.1850

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.41 840.0 0.1589 0.3446 0.4732 0.01755 0.009038 0.5703
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4621 0.4544 0.02736 0.007949 0.3082 0.06887
x(ilm) Q(ilm)
0.7957 0.6213

mode liq g pl ilm ru q

0.3889 0.1976 0.2104 0.01869 0 0.1844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.42 842.0 0.1594 0.3453 0.4753 0.01778 0.009202 0.5712
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4604 0.4541 0.02736 0.007997 0.3095 0.06837
x(ilm) Q(ilm)
0.7958 0.6203

mode liq g pl ilm ru q
0.3912 0.1973 0.2090 0.01869 0 0.1838

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.43 844.0 0.1599 0.3460 0.4774 0.01802 0.009368 0.5721
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4586 0.4539 0.02736 0.008045 0.3107 0.06787
x(ilm) Q(ilm)
0.7959 0.6192

mode liq g pl ilm ru q
0.3935 0.1970 0.2077 0.01869 0 0.1831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.44 846.0 0.1604 0.3467 0.4795 0.01826 0.009538 0.5730
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4569 0.4537 0.02735 0.008093 0.3119 0.06737
x(ilm) Q(ilm)
0.7960 0.6181

mode liq g pl ilm ru q
0.3958 0.1967 0.2063 0.01868 0 0.1825

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.45 848.0 0.1609 0.3474 0.4816 0.01850 0.009711 0.5738
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4551 0.4534 0.02735 0.008141 0.3132 0.06686
x(ilm) Q(ilm)
0.7961 0.6170

mode liq g pl ilm ru q
0.3982 0.1964 0.2049 0.01868 0 0.1818

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.46 850.0 0.1614 0.3481 0.4837 0.01875 0.009886 0.5747
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4534 0.4532 0.02734 0.008190 0.3145 0.06635
x(ilm) Q(ilm)
0.7962 0.6159

mode liq g pl ilm ru q

0.4006 0.1961 0.2035 0.01868 0 0.1811

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.47 852.0 0.1620 0.3488 0.4858 0.01900 0.01007 0.5755
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4516 0.4529 0.02734 0.008239 0.3159 0.06583
x(ilm) Q(ilm)
0.7963 0.6148

mode liq g pl ilm ru q
0.4030 0.1958 0.2021 0.01867 0 0.1804

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.48 854.0 0.1625 0.3494 0.4879 0.01925 0.01025 0.5764
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4498 0.4526 0.02733 0.008288 0.3172 0.06532
x(ilm) Q(ilm)
0.7964 0.6137

mode liq g pl ilm ru q
0.4055 0.1955 0.2006 0.01867 0 0.1797

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.49 856.0 0.1630 0.3501 0.4900 0.01951 0.01043 0.5772
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4480 0.4524 0.02733 0.008337 0.3186 0.06480
x(ilm) Q(ilm)
0.7965 0.6126

mode liq g pl ilm ru q
0.4080 0.1951 0.1992 0.01867 0 0.1790

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.50 858.0 0.1636 0.3508 0.4921 0.01977 0.01062 0.5780
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4462 0.4521 0.02732 0.008386 0.3200 0.06427
x(ilm) Q(ilm)
0.7966 0.6114

mode liq g pl ilm ru q
0.4105 0.1948 0.1977 0.01867 0 0.1783

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.50 860.0 0.1641 0.3515 0.4942 0.02003 0.01081 0.5788
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4444 0.4518 0.02732 0.008436 0.3214 0.06374
x(ilm) Q(ilm)
0.7967 0.6103

mode liq g pl ilm ru q

0.4131 0.1945 0.1962 0.01866 0 0.1776

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.51 862.0 0.1646 0.3521 0.4963 0.02030 0.01101 0.5796
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4425 0.4515 0.02731 0.008485 0.3229 0.06321
x(ilm) Q(ilm)
0.7968 0.6091

mode liq g pl ilm ru q
0.4157 0.1941 0.1947 0.01866 0 0.1769

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.52 864.0 0.1652 0.3528 0.4985 0.02057 0.01121 0.5804
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4407 0.4512 0.02731 0.008535 0.3244 0.06268
x(ilm) Q(ilm)
0.7969 0.6080

mode liq g pl ilm ru q
0.4183 0.1937 0.1932 0.01866 0 0.1761

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.53 866.0 0.1657 0.3535 0.5006 0.02084 0.01141 0.5812
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4388 0.4509 0.02731 0.008586 0.3259 0.06214
x(ilm) Q(ilm)
0.7969 0.6068

mode liq g pl ilm ru q
0.4210 0.1934 0.1916 0.01865 0 0.1754

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.54 868.0 0.1663 0.3541 0.5027 0.02112 0.01162 0.5819
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4370 0.4505 0.02730 0.008636 0.3275 0.06160
x(ilm) Q(ilm)
0.7970 0.6057

mode liq g pl ilm ru q
0.4237 0.1930 0.1901 0.01865 0 0.1746

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.54 870.0 0.1669 0.3547 0.5048 0.02141 0.01183 0.5826
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4351 0.4502 0.02730 0.008687 0.3291 0.06105
x(ilm) Q(ilm)
0.7971 0.6045

mode liq g pl ilm ru q

0.4264 0.1926 0.1885 0.01865 0 0.1738

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.55 872.0 0.1674 0.3554 0.5070 0.02170 0.01204 0.5834
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4332 0.4498 0.02729 0.008738 0.3307 0.06050
x(ilm) Q(ilm)
0.7972 0.6033

mode liq g pl ilm ru q
0.4292 0.1922 0.1869 0.01865 0 0.1730

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.56 874.0 0.1680 0.3560 0.5091 0.02199 0.01226 0.5841
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4314 0.4495 0.02729 0.008789 0.3324 0.05995
x(ilm) Q(ilm)
0.7973 0.6021

mode liq g pl ilm ru q
0.4320 0.1918 0.1853 0.01864 0 0.1722

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.56 876.0 0.1686 0.3566 0.5112 0.02228 0.01248 0.5848
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4295 0.4491 0.02729 0.008841 0.3340 0.05939
x(ilm) Q(ilm)
0.7974 0.6009

mode liq g pl ilm ru q
0.4349 0.1914 0.1837 0.01864 0 0.1714

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.57 878.0 0.1692 0.3572 0.5134 0.02259 0.01271 0.5855
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4276 0.4487 0.02728 0.008892 0.3358 0.05883
x(ilm) Q(ilm)
0.7974 0.5997

mode liq g pl ilm ru q
0.4378 0.1909 0.1820 0.01864 0 0.1706

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.58 880.0 0.1698 0.3579 0.5155 0.02289 0.01294 0.5861
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4256 0.4483 0.02728 0.008945 0.3375 0.05826
x(ilm) Q(ilm)
0.7975 0.5985

mode liq g pl ilm ru q

0.4407 0.1905 0.1804 0.01864 0 0.1698

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.58 882.0 0.1704 0.3585 0.5176 0.02320 0.01317 0.5868
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4237 0.4479 0.02728 0.008997 0.3393 0.05769
x(ilm) Q(ilm)
0.7976 0.5973

mode liq g pl ilm ru q
0.4437 0.1900 0.1787 0.01863 0 0.1689

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.59 884.0 0.1710 0.3590 0.5198 0.02352 0.01341 0.5874
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4218 0.4475 0.02727 0.009050 0.3412 0.05712
x(ilm) Q(ilm)
0.7977 0.5960

mode liq g pl ilm ru q
0.4468 0.1896 0.1770 0.01863 0 0.1680

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.59 886.0 0.1716 0.3596 0.5219 0.02384 0.01366 0.5880
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4198 0.4471 0.02727 0.009103 0.3430 0.05654
x(ilm) Q(ilm)
0.7978 0.5948

mode liq g pl ilm ru q
0.4498 0.1891 0.1753 0.01863 0 0.1671

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 888.0 0.1722 0.3602 0.5241 0.02416 0.01390 0.5887
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4179 0.4467 0.02727 0.009157 0.3450 0.05595
x(ilm) Q(ilm)
0.7978 0.5935

mode liq g pl ilm ru q
0.4530 0.1886 0.1736 0.01863 0 0.1662

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 890.0 0.1728 0.3608 0.5262 0.02449 0.01416 0.5893
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4159 0.4462 0.02727 0.009211 0.3469 0.05537
x(ilm) Q(ilm)
0.7979 0.5923

mode liq g pl ilm ru q

0.4561 0.1881 0.1718 0.01862 0 0.1653

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 892.0 0.1735 0.3613 0.5283 0.02483 0.01441 0.5898
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4139 0.4458 0.02727 0.009265 0.3489 0.05477
x(ilm) Q(ilm)
0.7980 0.5910

mode liq g pl ilm ru q
0.4594 0.1876 0.1700 0.01862 0 0.1644

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 894.0 0.1741 0.3619 0.5305 0.02517 0.01467 0.5904
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4119 0.4453 0.02726 0.009320 0.3510 0.05418
x(ilm) Q(ilm)
0.7981 0.5897

mode liq g pl ilm ru q
0.4626 0.1871 0.1682 0.01862 0 0.1635

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 896.0 0.1748 0.3624 0.5326 0.02552 0.01494 0.5909
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4099 0.4448 0.02726 0.009375 0.3531 0.05358
x(ilm) Q(ilm)
0.7981 0.5884

mode liq g pl ilm ru q
0.4659 0.1865 0.1664 0.01862 0 0.1625

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 898.0 0.1754 0.3629 0.5348 0.02587 0.01521 0.5915
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4079 0.4443 0.02726 0.009431 0.3552 0.05297
x(ilm) Q(ilm)
0.7982 0.5871

mode liq g pl ilm ru q
0.4693 0.1860 0.1646 0.01861 0 0.1615

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 900.0 0.1761 0.3634 0.5369 0.02623 0.01549 0.5920
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4059 0.4438 0.02726 0.009487 0.3574 0.05236
x(ilm) Q(ilm)
0.7983 0.5858

mode liq g pl ilm ru q

0.4727 0.1854 0.1627 0.01861 0 0.1605

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 902.0 0.1767 0.3639 0.5390 0.02659 0.01577 0.5925
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4039 0.4432 0.02726 0.009544 0.3597 0.05175
x(ilm) Q(ilm)
0.7983 0.5845

mode liq g pl ilm ru q
0.4762 0.1848 0.1609 0.01861 0 0.1595

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 904.0 0.1774 0.3644 0.5412 0.02696 0.01606 0.5929
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4019 0.4427 0.02726 0.009601 0.3620 0.05113
x(ilm) Q(ilm)
0.7984 0.5832

mode liq g pl ilm ru q
0.4797 0.1842 0.1590 0.01861 0 0.1585

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 906.0 0.1781 0.3648 0.5433 0.02734 0.01635 0.5934
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3998 0.4421 0.02726 0.009659 0.3643 0.05051
x(ilm) Q(ilm)
0.7985 0.5818

mode liq g pl ilm ru q
0.4833 0.1836 0.1571 0.01861 0 0.1574

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 908.0 0.1788 0.3653 0.5454 0.02772 0.01665 0.5938
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3978 0.4415 0.02726 0.009717 0.3667 0.04988
x(ilm) Q(ilm)
0.7985 0.5805

mode liq g pl ilm ru q
0.4869 0.1830 0.1551 0.01860 0 0.1564

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 910.0 0.1795 0.3657 0.5476 0.02811 0.01696 0.5943
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3957 0.4409 0.02726 0.009776 0.3692 0.04925
x(ilm) Q(ilm)
0.7986 0.5791

mode liq g pl ilm ru q

0.4906 0.1823 0.1532 0.01860 0 0.1553

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 912.0 0.1802 0.3661 0.5497 0.02851 0.01727 0.5947
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3936 0.4403 0.02726 0.009835 0.3717 0.04861
x(ilm) Q(ilm)
0.7986 0.5778

mode liq g pl ilm ru q
0.4944 0.1817 0.1512 0.01860 0 0.1542

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 914.0 0.1809 0.3665 0.5518 0.02891 0.01758 0.5950
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3915 0.4396 0.02726 0.009896 0.3743 0.04797
x(ilm) Q(ilm)
0.7987 0.5764

mode liq g pl ilm ru q
0.4982 0.1810 0.1492 0.01860 0 0.1530

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.61 916.0 0.1817 0.3669 0.5539 0.02932 0.01791 0.5954
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3894 0.4389 0.02726 0.009956 0.3769 0.04733
x(ilm) Q(ilm)
0.7987 0.5750

mode liq g pl ilm ru q
0.5020 0.1803 0.1472 0.01860 0 0.1519

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 918.0 0.1824 0.3673 0.5561 0.02974 0.01824 0.5957
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3873 0.4383 0.02726 0.01002 0.3796 0.04668
x(ilm) Q(ilm)
0.7988 0.5736

mode liq g pl ilm ru q
0.5060 0.1795 0.1452 0.01860 0 0.1507

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 920.0 0.1832 0.3676 0.5582 0.03016 0.01857 0.5960
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3852 0.4375 0.02726 0.01008 0.3824 0.04603
x(ilm) Q(ilm)
0.7988 0.5722

mode liq g pl ilm ru q

0.5100 0.1788 0.1431 0.01859 0 0.1495

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 922.0 0.1839 0.3679 0.5603 0.03060 0.01892 0.5963
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3831 0.4368 0.02726 0.01014 0.3852 0.04537
x(ilm) Q(ilm)
0.7989 0.5707

mode liq g pl ilm ru q
0.5140 0.1780 0.1410 0.01859 0 0.1483

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.59 924.0 0.1847 0.3682 0.5624 0.03104 0.01926 0.5966
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3809 0.4361 0.02726 0.01021 0.3881 0.04471
x(ilm) Q(ilm)
0.7989 0.5693

mode liq g pl ilm ru q
0.5182 0.1773 0.1389 0.01859 0 0.1470

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.59 926.0 0.1855 0.3685 0.5645 0.03149 0.01962 0.5968
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3788 0.4353 0.02726 0.01027 0.3911 0.04404
x(ilm) Q(ilm)
0.7990 0.5678

mode liq g pl ilm ru q
0.5224 0.1764 0.1368 0.01859 0 0.1458

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.58 928.0 0.1863 0.3687 0.5666 0.03195 0.01999 0.5970
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3766 0.4345 0.02726 0.01034 0.3941 0.04337
x(ilm) Q(ilm)
0.7990 0.5664

mode liq g pl ilm ru q
0.5266 0.1756 0.1347 0.01859 0 0.1445

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.57 930.0 0.1871 0.3690 0.5687 0.03242 0.02036 0.5972
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3744 0.4336 0.02726 0.01040 0.3973 0.04270
x(ilm) Q(ilm)
0.7991 0.5649

mode liq g pl ilm ru q

0.5310 0.1748 0.1325 0.01859 0 0.1431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.56 932.0 0.1880 0.3692 0.5707 0.03289 0.02074 0.5974
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3722 0.4328 0.02726 0.01047 0.4005 0.04202
x(ilm) Q(ilm)
0.7991 0.5634

mode liq g pl ilm ru q
0.5354 0.1739 0.1304 0.01859 0 0.1418

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.55 934.0 0.1888 0.3693 0.5728 0.03338 0.02112 0.5975
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3700 0.4319 0.02726 0.01054 0.4037 0.04134
x(ilm) Q(ilm)
0.7991 0.5619

mode liq g pl ilm ru q
0.5399 0.1730 0.1282 0.01859 0 0.1404

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.54 936.0 0.1897 0.3695 0.5749 0.03387 0.02152 0.5976
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3678 0.4309 0.02726 0.01061 0.4071 0.04066
x(ilm) Q(ilm)
0.7991 0.5604

mode liq g pl ilm ru q
0.5445 0.1721 0.1259 0.01858 0 0.1390

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.53 938.0 0.1906 0.3696 0.5769 0.03438 0.02192 0.5977
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3656 0.4300 0.02726 0.01068 0.4105 0.03997
x(ilm) Q(ilm)
0.7992 0.5588

mode liq g pl ilm ru q
0.5491 0.1711 0.1237 0.01858 0 0.1375

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.52 940.0 0.1915 0.3697 0.5790 0.03489 0.02234 0.5977
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3634 0.4290 0.02725 0.01075 0.4140 0.03928
x(ilm) Q(ilm)
0.7992 0.5573

mode liq g pl ilm ru q

0.5538 0.1701 0.1214 0.01858 0 0.1360

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.51 942.0 0.1924 0.3697 0.5810 0.03542 0.02276 0.5977
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3612 0.4280 0.02725 0.01082 0.4177 0.03858
x(ilm) Q(ilm)
0.7992 0.5557

mode liq g pl ilm ru q
0.5587 0.1691 0.1192 0.01858 0 0.1345

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.50 944.0 0.1933 0.3697 0.5830 0.03595 0.02319 0.5977
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3589 0.4269 0.02725 0.01089 0.4214 0.03789
x(ilm) Q(ilm)
0.7992 0.5541

mode liq g pl ilm ru q
0.5636 0.1680 0.1169 0.01858 0 0.1329

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.48 946.0 0.1943 0.3697 0.5851 0.03650 0.02363 0.5976
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3566 0.4258 0.02724 0.01097 0.4251 0.03719
x(ilm) Q(ilm)
0.7992 0.5525

mode liq g pl ilm ru q
0.5686 0.1670 0.1146 0.01858 0 0.1313

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.47 948.0 0.1953 0.3697 0.5871 0.03705 0.02408 0.5975
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3544 0.4247 0.02724 0.01105 0.4290 0.03649
x(ilm) Q(ilm)
0.7992 0.5509

mode liq g pl ilm ru q
0.5737 0.1658 0.1122 0.01858 0 0.1297

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.45 950.0 0.1963 0.3696 0.5890 0.03762 0.02454 0.5974
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3521 0.4235 0.02723 0.01112 0.4330 0.03578
x(ilm) Q(ilm)
0.7992 0.5492

mode liq g pl ilm ru q

0.5789 0.1647 0.1099 0.01858 0 0.1280

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.43 952.0 0.1973 0.3694 0.5910 0.03820 0.02502 0.5972
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3498 0.4223 0.02722 0.01120 0.4371 0.03508
x(ilm) Q(ilm)
0.7992 0.5476

mode liq g pl ilm ru q
0.5841 0.1635 0.1075 0.01858 0 0.1263

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.41 954.0 0.1983 0.3692 0.5930 0.03880 0.02550 0.5970
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3475 0.4211 0.02721 0.01128 0.4412 0.03437
x(ilm) Q(ilm)
0.7992 0.5459

mode liq g pl ilm ru q
0.5895 0.1623 0.1051 0.01858 0 0.1245

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.39 956.0 0.1994 0.3690 0.5949 0.03940 0.02599 0.5967
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3451 0.4197 0.02719 0.01136 0.4455 0.03366
x(ilm) Q(ilm)
0.7992 0.5442

mode liq g pl ilm ru q
0.5950 0.1610 0.1027 0.01858 0 0.1227

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.37 958.0 0.2005 0.3687 0.5969 0.04002 0.02650 0.5964
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3428 0.4184 0.02717 0.01145 0.4499 0.03295
x(ilm) Q(ilm)
0.7992 0.5425

mode liq g pl ilm ru q
0.6007 0.1597 0.1003 0.01858 0 0.1208

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.35 960.0 0.2017 0.3684 0.5988 0.04065 0.02702 0.5961
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3404 0.4170 0.02715 0.01153 0.4544 0.03224
x(ilm) Q(ilm)
0.7991 0.5407

mode liq g pl ilm ru q

0.6064 0.1583 0.09784 0.01858 0 0.1189

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.32 962.0 0.2028 0.3680 0.6007 0.04129 0.02756 0.5957
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3380 0.4155 0.02713 0.01162 0.4590 0.03153
x(ilm) Q(ilm)
0.7991 0.5389

mode liq g pl ilm ru q
0.6123 0.1569 0.09538 0.01859 0 0.1169

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.29 964.0 0.2040 0.3676 0.6026 0.04195 0.02810 0.5952
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3356 0.4140 0.02710 0.01171 0.4637 0.03082
x(ilm) Q(ilm)
0.7991 0.5371

mode liq g pl ilm ru q
0.6182 0.1555 0.09290 0.01859 0 0.1148

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.27 966.0 0.2053 0.3671 0.6044 0.04262 0.02867 0.5947
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3332 0.4124 0.02707 0.01180 0.4685 0.03010
x(ilm) Q(ilm)
0.7990 0.5353

mode liq g pl ilm ru q
0.6244 0.1539 0.09041 0.01859 0 0.1127

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.24 968.0 0.2065 0.3666 0.6063 0.04330 0.02924 0.5941
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3308 0.4107 0.02704 0.01189 0.4734 0.02939
x(ilm) Q(ilm)
0.7990 0.5334

mode liq g pl ilm ru q
0.6306 0.1524 0.08790 0.01859 0 0.1105

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 970.0 0.2079 0.3660 0.6081 0.04400 0.02984 0.5935
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3283 0.4090 0.02700 0.01198 0.4785 0.02867
x(ilm) Q(ilm)
0.7989 0.5316

mode liq g pl ilm ru q

0.6371 0.1507 0.08537 0.01859 0 0.1082

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.17 972.0 0.2092 0.3653 0.6099 0.04471 0.03045 0.5928
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3259 0.4072 0.02695 0.01208 0.4837 0.02796
x(ilm) Q(ilm)
0.7988 0.5296

mode liq g pl ilm ru q
0.6437 0.1491 0.08283 0.01860 0 0.1059

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.13 974.0 0.2106 0.3645 0.6117 0.04544 0.03108 0.5920
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3234 0.4053 0.02689 0.01218 0.4890 0.02724
x(ilm) Q(ilm)
0.7987 0.5277

mode liq g pl ilm ru q
0.6504 0.1473 0.08026 0.01860 0 0.1034

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.09 976.0 0.2121 0.3637 0.6135 0.04619 0.03172 0.5911
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3208 0.4034 0.02683 0.01228 0.4944 0.02653
x(ilm) Q(ilm)
0.7986 0.5257

mode liq g pl ilm ru q
0.6574 0.1455 0.07768 0.01860 0 0.1009

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.05 978.0 0.2136 0.3628 0.6152 0.04695 0.03239 0.5902
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3183 0.4013 0.02676 0.01239 0.5000 0.02581
x(ilm) Q(ilm)
0.7985 0.5237

mode liq g pl ilm ru q
0.6645 0.1435 0.07508 0.01860 0 0.09826

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.01 980.0 0.2152 0.3619 0.6170 0.04772 0.03308 0.5891
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3157 0.3992 0.02669 0.01250 0.5057 0.02510
x(ilm) Q(ilm)
0.7984 0.5216

mode liq g pl ilm ru q

0.6719 0.1415 0.07246 0.01861 0 0.09551

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.96 982.0 0.2168 0.3608 0.6187 0.04852 0.03379 0.5880
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3130 0.3969 0.02660 0.01261 0.5116 0.02438
x(ilm) Q(ilm)
0.7982 0.5195

mode liq g pl ilm ru q
0.6795 0.1395 0.06982 0.01861 0 0.09264

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.91 984.0 0.2185 0.3597 0.6204 0.04933 0.03453 0.5868
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3104 0.3945 0.02650 0.01272 0.5176 0.02367
x(ilm) Q(ilm)
0.7981 0.5173

mode liq g pl ilm ru q
0.6873 0.1373 0.06716 0.01862 0 0.08964

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.85 986.0 0.2203 0.3584 0.6221 0.05016 0.03530 0.5854
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3076 0.3920 0.02638 0.01284 0.5238 0.02295
x(ilm) Q(ilm)
0.7979 0.5151

mode liq g pl ilm ru q
0.6954 0.1350 0.06447 0.01862 0 0.08648

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.79 988.0 0.2222 0.3570 0.6237 0.05100 0.03609 0.5840
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3049 0.3894 0.02626 0.01296 0.5301 0.02224
x(ilm) Q(ilm)
0.7977 0.5128

mode liq g pl ilm ru q
0.7039 0.1326 0.06176 0.01863 0 0.08317

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.73 990.0 0.2242 0.3556 0.6253 0.05187 0.03692 0.5824
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3020 0.3866 0.02611 0.01309 0.5367 0.02152
x(ilm) Q(ilm)
0.7975 0.5105

mode liq g pl ilm ru q

0.7127 0.1300 0.05902 0.01864 0 0.07967

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.66 992.0 0.2263 0.3540 0.6270 0.05276 0.03778 0.5806
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.2991 0.3836 0.02595 0.01322 0.5434 0.02080
x(ilm) Q(ilm)
0.7972 0.5080

mode liq g pl ilm ru q
0.7218 0.1273 0.05624 0.01865 0 0.07596

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.59 994.0 0.2285 0.3523 0.6286 0.05366 0.03868 0.5787
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.2962 0.3805 0.02577 0.01336 0.5504 0.02007
x(ilm) Q(ilm)
0.7969 0.5055

mode liq g pl ilm ru q
0.7315 0.1245 0.05342 0.01865 0 0.07201

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 996.0 0.2309 0.3504 0.6301 0.05459 0.03963 0.5765
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.2931 0.3771 0.02557 0.01350 0.5576 0.01935
x(ilm) Q(ilm)
0.7966 0.5030

mode liq g pl ilm ru q
0.7416 0.1214 0.05056 0.01866 0 0.06778

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.42 998.0 0.2334 0.3483 0.6317 0.05554 0.04062 0.5742
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.2899 0.3735 0.02534 0.01365 0.5650 0.01861
x(ilm) Q(ilm)
0.7963 0.5003

mode liq g pl ilm ru q
0.7523 0.1181 0.04765 0.01868 0 0.06324

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.32 1000.0 0.2361 0.3461 0.6333 0.05652 0.04168 0.5715
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.2866 0.3696 0.02507 0.01381 0.5728 0.01787
x(ilm) Q(ilm)
0.7959 0.4974

mode liq g pl ilm ru q

0.7637 0.1146 0.04467 0.01869 0 0.05831

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 690.8 0.1153 0.2186 0.8570 0.004685 0.001533 0.6984
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6497 0.4219 0.3806 0.03470 0.08880 0.2307
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7401 0.01744 0.001935 0.2658 0.008551 0.7416
Q(ilm)
0.6197

mode liq bi g pl ilm ky q H2O
0 0.2247 0.03730 0.3137 0.01248 0.02114 0.3493 0.04127

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.10 690.4 0.1138 0.2181 0.8580 0.004710 0.001517 0.6988
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6521 0.4220 0.3785 0.03473 0.08877 0.2320
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7410 0.01803 0.001949 0.2657 0.008515 0.7417
Q(ilm)
0.62

mode liq bi g pl ilm ky q H2O
0 0.2248 0.03715 0.3137 0.01248 0.02132 0.3493 0.04126

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 690.0 0.1122 0.2176 0.8589 0.004735 0.001502 0.6992
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6545 0.4221 0.3764 0.03475 0.08875 0.2332
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7419 0.01864 0.001965 0.2656 0.008481 0.7418
Q(ilm)
0.6203

mode liq bi g pl ilm ky q H2O
0 0.2249 0.03701 0.3137 0.01248 0.02150 0.3492 0.04126

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 689.6 0.1107 0.2171 0.8598 0.004761 0.001487 0.6996
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6569 0.4222 0.3743 0.03477 0.08873 0.2345
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.7428 0.01927 0.001981 0.2656 0.008449 0.7418
Q(ilm)

0.6206

mode liq bi g pl ilm ky q H2O
0 0.2250 0.03686 0.3136 0.01248 0.02168 0.3491 0.04126

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 689.2 0.1092 0.2166 0.8607 0.004788 0.001472 0.7000
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6592 0.4223 0.3722 0.03479 0.08872 0.2357
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7436 0.01992 0.001998 0.2655 0.008418 0.7419
Q(ilm)

0.6209

mode liq bi g pl ilm ky q H2O
0 0.2251 0.03673 0.3136 0.01248 0.02186 0.3490 0.04125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 688.8 0.1078 0.2161 0.8615 0.004816 0.001457 0.7004
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6615 0.4224 0.3701 0.03481 0.08871 0.2369
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7445 0.02060 0.002015 0.2654 0.008389 0.7419
Q(ilm)

0.6212

mode liq bi g pl ilm ky q H2O
0 0.2251 0.03659 0.3135 0.01248 0.02204 0.3490 0.04125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 688.4 0.1063 0.2156 0.8623 0.004844 0.001442 0.7008
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6638 0.4226 0.3681 0.03483 0.08871 0.2381
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7454 0.02130 0.002034 0.2653 0.008362 0.7420
Q(ilm)

0.6214

mode liq bi g pl ilm ky q H2O
0 0.2252 0.03646 0.3135 0.01248 0.02222 0.3489 0.04125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 688.0 0.1049 0.2151 0.8630 0.004874 0.001428 0.7012
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6660 0.4227 0.3660 0.03484 0.08871 0.2393
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7463 0.02204 0.002054 0.2652 0.008337 0.7420
Q(ilm)

0.6217

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2253	0.03633	0.3134	0.01247	0.02240	0.3488	0.04125	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.80	687.7	0.1035	0.2146	0.8637	0.004904	0.001413	0.7016
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6681	0.4228	0.3640	0.03486	0.08872	0.2406	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7472	0.02280	0.002075	0.2651	0.008313	0.7421	
	Q(ilm)						

0.6219

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2254	0.03620	0.3134	0.01247	0.02258	0.3488	0.04125	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.90	687.3	0.1021	0.2142	0.8644	0.004935	0.001399	0.7020
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6703	0.4229	0.3619	0.03488	0.08873	0.2418	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7481	0.02358	0.002097	0.2650	0.008291	0.7421	
	Q(ilm)						

0.6221

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2255	0.03608	0.3133	0.01247	0.02275	0.3487	0.04125	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.00	686.9	0.1007	0.2137	0.8650	0.004967	0.001384	0.7024
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6724	0.4230	0.3599	0.03489	0.08874	0.2430	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7490	0.02441	0.002121	0.2649	0.008270	0.7421	
	Q(ilm)						

0.6223

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2255	0.03596	0.3133	0.01247	0.02293	0.3486	0.04124	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.10	686.6	0.09936	0.2132	0.8656	0.005000	0.001370	0.7028
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6745	0.4231	0.3579	0.03491	0.08876	0.2441	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7499	0.02526	0.002145	0.2648	0.008250	0.7421	
	Q(ilm)						

0.6225

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mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2256 0.03584 0.3132 0.01247 0.02311 0.3485 0.04124
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20  686.2 0.09802 0.2127 0.8662 0.005033 0.001355 0.7033
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6765 0.4231 0.3558 0.03493 0.08879 0.2453
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.7509 0.02615 0.002171 0.2647 0.008232 0.7421
      Q(ilm)
0.6227

```

```

mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2257 0.03572 0.3132 0.01246 0.02329 0.3485 0.04124
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.30  685.9 0.09670 0.2123 0.8668 0.005067 0.001341 0.7037
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6785 0.4232 0.3538 0.03494 0.08882 0.2465
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.7518 0.02707 0.002199 0.2646 0.008216 0.7421
      Q(ilm)
0.6229

```

```

mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2257 0.03561 0.3131 0.01246 0.02346 0.3484 0.04124
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40  685.5 0.09540 0.2118 0.8673 0.005102 0.001327 0.7041
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6805 0.4233 0.3519 0.03495 0.08885 0.2477
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.7527 0.02803 0.002228 0.2645 0.008200 0.7421
      Q(ilm)
0.6231

```

```

mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2258 0.03550 0.3130 0.01246 0.02364 0.3483 0.04124
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50  685.1 0.09412 0.2113 0.8678 0.005138 0.001312 0.7045
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6825 0.4234 0.3499 0.03497 0.08889 0.2489
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.7537 0.02903 0.002258 0.2644 0.008186 0.7421
      Q(ilm)
0.6232

```

```

mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2259 0.03539 0.3130 0.01245 0.02381 0.3482 0.04124

```

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	684.8	0.09286	0.2109	0.8682	0.005175	0.001298	0.7048
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6844	0.4235	0.3479	0.03498	0.08893	0.2500	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7546	0.03007	0.002291	0.2642	0.008173	0.7421	
	Q(ilm)						
	0.6234						

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2259	0.03529	0.3129	0.01245	0.02399	0.3482	0.04124	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.70	684.4	0.09161	0.2104	0.8687	0.005212	0.001284	0.7052
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6863	0.4236	0.3459	0.03499	0.08897	0.2512	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7556	0.03116	0.002325	0.2641	0.008162	0.7421	
	Q(ilm)						
	0.6235						

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2260	0.03519	0.3129	0.01245	0.02416	0.3481	0.04124	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.80	684.1	0.09038	0.2099	0.8691	0.005250	0.001269	0.7056
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6882	0.4237	0.3440	0.03501	0.08902	0.2523	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7565	0.03229	0.002361	0.2639	0.008151	0.7421	
	Q(ilm)						
	0.6236						

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2261	0.03509	0.3128	0.01244	0.02434	0.3480	0.04124	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.90	683.7	0.08916	0.2094	0.8695	0.005289	0.001255	0.7060
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6900	0.4237	0.3420	0.03502	0.08907	0.2535	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7575	0.03347	0.002400	0.2638	0.008142	0.7420	
	Q(ilm)						
	0.6238						

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2261	0.03500	0.3127	0.01244	0.02451	0.3480	0.04124	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

8.00 683.4 0.08796 0.2090 0.8698 0.005328 0.001241 0.7064
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6919 0.4238 0.3401 0.03503 0.08912 0.2547
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7585 0.03470 0.002440 0.2636 0.008134 0.7420
Q(ilm)

0.6239

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2262	0.03491	0.3126	0.01243	0.02469	0.3479	0.04124	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.10 683.0 0.08678 0.2085 0.8701 0.005368 0.001226 0.7068
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6937 0.4239 0.3382 0.03504 0.08918 0.2558
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7595 0.03599 0.002483 0.2635 0.008128 0.7420
Q(ilm)

0.624

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2263	0.03482	0.3126	0.01243	0.02487	0.3478	0.04125	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 682.7 0.08561 0.2080 0.8704 0.005409 0.001212 0.7072
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6955 0.4239 0.3362 0.03505 0.08925 0.2569
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7605 0.03733 0.002529 0.2633 0.008122 0.7419
Q(ilm)

0.6241

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2263	0.03474	0.3125	0.01242	0.02504	0.3477	0.04125	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.30 682.3 0.08446 0.2076 0.8707 0.005451 0.001198 0.7076
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6972 0.4240 0.3343 0.03506 0.08931 0.2581
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7615 0.03873 0.002578 0.2631 0.008118 0.7419
Q(ilm)

0.6242

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2264	0.03466	0.3124	0.01242	0.02522	0.3477	0.04125	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 682.0 0.08332 0.2071 0.8709 0.005494 0.001183 0.7079
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6990 0.4241 0.3324 0.03507 0.08938 0.2592
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7625 0.04020 0.002630 0.2629 0.008115 0.7418
Q(ilm)

0.6243

mode liq bi g pl ilm ky q H2O
0 0.2264 0.03458 0.3123 0.01241 0.02539 0.3476 0.04125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.50 681.6 0.08220 0.2066 0.8711 0.005537 0.001169 0.7083
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7007 0.4241 0.3306 0.03508 0.08945 0.2603
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7636 0.04173 0.002685 0.2627 0.008113 0.7418
Q(ilm)

0.6244

mode liq bi g pl ilm ky q H2O
0 0.2265 0.03451 0.3122 0.01241 0.02557 0.3475 0.04125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 681.3 0.08109 0.2061 0.8713 0.005580 0.001154 0.7087
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7024 0.4242 0.3287 0.03509 0.08953 0.2614
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7646 0.04333 0.002743 0.2625 0.008112 0.7417
Q(ilm)

0.6245

mode liq bi g pl ilm ky q H2O
0 0.2265 0.03444 0.3122 0.01240 0.02575 0.3475 0.04125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.70 680.9 0.08000 0.2057 0.8714 0.005625 0.001139 0.7090
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7041 0.4242 0.3268 0.03510 0.08961 0.2626
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7657 0.04501 0.002806 0.2623 0.008113 0.7417
Q(ilm)

0.6246

mode liq bi g pl ilm ky q H2O
0 0.2266 0.03438 0.3121 0.01239 0.02592 0.3474 0.04126

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 680.5 0.07892 0.2052 0.8716 0.005670 0.001124 0.7094
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7057 0.4243 0.3250 0.03511 0.08969 0.2637
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.7668 0.04677 0.002873 0.2621 0.008115 0.7416

Q(ilm)

0.6247

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2267	0.03432	0.3120	0.01239	0.02610	0.3473	0.04126	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.90	680.2	0.07785	0.2047	0.8717	0.005715	0.001110	0.7097

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.7074	0.4243	0.3231	0.03512	0.08978	0.2648

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.7679	0.04861	0.002944	0.2618	0.008118	0.7415

Q(ilm)

0.6248

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2267	0.03426	0.3119	0.01238	0.02628	0.3473	0.04126	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.00	679.8	0.07680	0.2042	0.8717	0.005762	0.001095	0.7101

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.7090	0.4243	0.3213	0.03513	0.08987	0.2659

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.7690	0.05054	0.003021	0.2615	0.008123	0.7415

Q(ilm)

0.6249

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2268	0.03421	0.3117	0.01237	0.02646	0.3472	0.04126	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.10	679.4	0.07576	0.2038	0.8718	0.005808	0.001079	0.7104

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.7106	0.4244	0.3195	0.03513	0.08996	0.2670

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.7702	0.05257	0.003103	0.2613	0.008128	0.7414

Q(ilm)

0.625

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2268	0.03417	0.3116	0.01237	0.02664	0.3471	0.04127	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	679.0	0.07473	0.2033	0.8718	0.005856	0.001064	0.7108

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.7122	0.4244	0.3176	0.03514	0.09006	0.2681

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.7713	0.05470	0.003191	0.2610	0.008135	0.7414

Q(ilm)

0.6251

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2269	0.03413	0.3115	0.01236	0.02682	0.3471	0.04127	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.30	678.6	0.07372	0.2028	0.8718	0.005904	0.001049	0.7111
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7138	0.4244	0.3158	0.03515	0.09016	0.2692	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7725	0.05694	0.003285	0.2607	0.008144	0.7413	
	Q(ilm)						

0.6252

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2269	0.03410	0.3114	0.01235	0.02700	0.3470	0.04127	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.40	678.3	0.07271	0.2023	0.8717	0.005952	0.001033	0.7114
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7153	0.4244	0.3141	0.03516	0.09027	0.2703	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7737	0.05928	0.003387	0.2604	0.008154	0.7412	
	Q(ilm)						

0.6252

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2270	0.03407	0.3113	0.01235	0.02718	0.3469	0.04128	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.50	677.9	0.07172	0.2018	0.8716	0.006001	0.001018	0.7118
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7169	0.4244	0.3123	0.03516	0.09037	0.2714	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7749	0.06176	0.003497	0.2600	0.008165	0.7412	
	Q(ilm)						

0.6253

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2270	0.03405	0.3111	0.01234	0.02737	0.3469	0.04128	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.60	677.5	0.07075	0.2013	0.8715	0.006050	0.001002	0.7121
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7184	0.4244	0.3105	0.03517	0.09049	0.2724	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7762	0.06436	0.003615	0.2597	0.008178	0.7411	
	Q(ilm)						

0.6254

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mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2270 0.03403 0.3110 0.01233 0.02755 0.3468 0.04129
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.70  677.0 0.06978 0.2009 0.8714 0.0061000 0.0009859 0.7124
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7199 0.4244 0.3088 0.03518 0.09060 0.2735
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.7774 0.06709 0.003743 0.2593 0.008193 0.7410
      Q(ilm)
0.6255

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```

mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2271 0.03403 0.3108 0.01232 0.02774 0.3467 0.04129
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80  676.6 0.06882 0.2004 0.8712 0.0061490 0.0009697 0.7127
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7214 0.4244 0.3070 0.03519 0.09072 0.2746
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.7787 0.06998 0.003882 0.2589 0.008209 0.7410
      Q(ilm)
0.6257

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```

mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2271 0.03403 0.3106 0.01231 0.02793 0.3467 0.04129
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.90  676.2 0.06788 0.1999 0.8710 0.0062000 0.0009533 0.7130
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7229 0.4244 0.3053 0.03520 0.09084 0.2756
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.7801 0.07302 0.004032 0.2585 0.008227 0.7409
      Q(ilm)
0.6258

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```

mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2272 0.03404 0.3105 0.01230 0.02812 0.3466 0.04130
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 675.7 0.06694 0.1994 0.8707 0.0062500 0.0009368 0.7133
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7244 0.4244 0.3036 0.03520 0.09097 0.2767
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.7814 0.07622 0.004195 0.2580 0.008247 0.7409
      Q(ilm)
0.6259

```

```

mode   liq   bi    g    pl   ilm   ky    q    H2O
      0 0.2272 0.03405 0.3103 0.01229 0.02832 0.3465 0.04130

```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.10 675.3 0.06602 0.1989 0.8705 0.0063000.0009200 0.7135
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7259 0.4244 0.3019 0.03521 0.09110 0.2778
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7828 0.07961 0.004373 0.2575 0.008269 0.7408
Q(ilm)
0.6261

mode liq bi g pl ilm ky q H2O
0 0.2272 0.03408 0.3101 0.01228 0.02852 0.3465 0.04131

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 674.8 0.06511 0.1984 0.8701 0.0063510.0009030 0.7138
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7273 0.4243 0.3002 0.03522 0.09124 0.2788
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7842 0.08318 0.004567 0.2570 0.008293 0.7408
Q(ilm)
0.6262

mode liq bi g pl ilm ky q H2O
0 0.2273 0.03412 0.3099 0.01227 0.02872 0.3464 0.04131

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.30 674.4 0.06420 0.1979 0.8698 0.0064010.0008858 0.7141
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7288 0.4243 0.2985 0.03523 0.09137 0.2799
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7856 0.08695 0.004778 0.2564 0.008319 0.7407
Q(ilm)
0.6264

mode liq bi g pl ilm ky q H2O
0 0.2273 0.03416 0.3097 0.01226 0.02892 0.3464 0.04132

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 673.9 0.06331 0.1974 0.8694 0.0064510.0008683 0.7143
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7302 0.4242 0.2969 0.03524 0.09152 0.2809
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7871 0.09094 0.005010 0.2559 0.008347 0.7407
Q(ilm)
0.6266

mode liq bi g pl ilm ky q H2O
0 0.2273 0.03422 0.3094 0.01225 0.02913 0.3463 0.04133

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

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10.50  673.4 0.06242 0.1969 0.8690 0.0065010.0008506 0.7146
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7317 0.4242 0.2952 0.03525 0.09166 0.2820
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.7886 0.09516 0.005264 0.2552 0.008378 0.7407
      Q(ilm)
0.6268

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```

mode  liq  bi   g   pl  ilm   ky   q   H2O
      0  0.2274 0.03429 0.3092 0.01223 0.02934 0.3463 0.04133

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-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60  672.9 0.06155 0.1963 0.8685 0.0065510.0008326 0.7148
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7331 0.4241 0.2936 0.03526 0.09182 0.2830
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.7901 0.09962 0.005542 0.2546 0.008412 0.7407
      Q(ilm)
0.6271

```

```

mode  liq  bi   g   pl  ilm   ky   q   H2O
      0  0.2274 0.03438 0.3089 0.01222 0.02955 0.3462 0.04134

```

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-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70  672.3 0.06068 0.1958 0.8680 0.0066000.0008143 0.7150
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7345 0.4240 0.2920 0.03527 0.09197 0.2840
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.7917 0.1043 0.005849 0.2538 0.008448 0.7407
      Q(ilm)
0.6273

```

```

mode  liq  bi   g   pl  ilm   ky   q   H2O
      0  0.2274 0.03447 0.3086 0.01221 0.02977 0.3461 0.04134

```

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80  671.8 0.05982 0.1953 0.8674 0.0066480.0007957 0.7152
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7359 0.4239 0.2904 0.03528 0.09214 0.2851
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.7933 0.1093 0.006186 0.2531 0.008487 0.7408
      Q(ilm)
0.6277

```

```

mode  liq  bi   g   pl  ilm   ky   q   H2O
      0  0.2275 0.03459 0.3083 0.01219 0.03000 0.3461 0.04135

```

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90  671.2 0.05896 0.1948 0.8668 0.0066950.0007769 0.7154
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.7373 0.4238 0.2888 0.03529 0.09230 0.2861
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7949 0.1146 0.006559 0.2522 0.008529 0.7408
Q(ilm)

0.628

mode liq bi g pl ilm ky q H2O
0 0.2275 0.03472 0.3080 0.01217 0.03023 0.3460 0.04136

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 670.6 0.05812 0.1942 0.8661 0.0067420.0007577 0.7156
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7388 0.4237 0.2873 0.03530 0.09247 0.2871
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7966 0.1202 0.006970 0.2514 0.008575 0.7409
Q(ilm)

0.6284

mode liq bi g pl ilm ky q H2O
0 0.2275 0.03487 0.3076 0.01216 0.03047 0.3460 0.04137

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.10 670.0 0.05728 0.1937 0.8654 0.0067870.0007383 0.7157
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7402 0.4236 0.2857 0.03531 0.09265 0.2882
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7983 0.1261 0.007425 0.2504 0.008624 0.7410
Q(ilm)

0.6289

mode liq bi g pl ilm ky q H2O
0 0.2275 0.03503 0.3073 0.01214 0.03072 0.3460 0.04137

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 669.4 0.05645 0.1932 0.8646 0.0068310.0007185 0.7159
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7416 0.4235 0.2842 0.03533 0.09283 0.2892
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8000 0.1324 0.007930 0.2494 0.008677 0.7412
Q(ilm)

0.6294

mode liq bi g pl ilm ky q H2O
0 0.2275 0.03522 0.3069 0.01212 0.03097 0.3459 0.04138

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.30 668.7 0.05562 0.1926 0.8638 0.0068730.0006984 0.7160
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7430 0.4234 0.2827 0.03534 0.09302 0.2902
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.8018 0.1390 0.008489 0.2483 0.008735 0.7414

Q(ilm)

0.6299

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2275	0.03543	0.3064	0.01210	0.03123	0.3459	0.04139	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	668.0	0.05480	0.1921	0.8629	0.0069130	0.0006780	0.7161
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7444	0.4232	0.2812	0.03535	0.09321	0.2912
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8036	0.1460	0.009110	0.2471	0.008796	0.7416
		Q(ilm)					

0.6306

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2276	0.03566	0.3060	0.01208	0.03150	0.3458	0.04140	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.50	667.3	0.05398	0.1915	0.8619	0.0069500	0.0006573	0.7162
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7458	0.4230	0.2798	0.03537	0.09341	0.2922
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8055	0.1534	0.009800	0.2458	0.008863	0.7419
		Q(ilm)					

0.6313

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2276	0.03592	0.3055	0.01206	0.03179	0.3458	0.04141	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	666.5	0.05317	0.1909	0.8609	0.0069850	0.0006363	0.7163
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7472	0.4229	0.2783	0.03538	0.09362	0.2932
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8073	0.1612	0.01057	0.2444	0.008935	0.7422
		Q(ilm)					

0.6322

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2276	0.03621	0.3049	0.01203	0.03208	0.3458	0.04142	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.70	665.7	0.05236	0.1904	0.8598	0.0070170	0.0006149	0.7163
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7486	0.4227	0.2769	0.03539	0.09383	0.2942
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8092	0.1694	0.01142	0.2429	0.009013	0.7426
		Q(ilm)					

0.6332

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2276	0.03653	0.3043	0.01201	0.03239	0.3457	0.04143	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	664.8	0.05156	0.1898	0.8586	0.0070460	0.0005933	0.7164
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7500	0.4225	0.2755	0.03540	0.09405	0.2953	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8111	0.1780	0.01236	0.2413	0.009096	0.7431	
	Q(ilm)						

0.6342

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2276	0.03688	0.3037	0.01198	0.03271	0.3457	0.04144	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.90	664.0	0.05076	0.1892	0.8573	0.0070710	0.0005714	0.7164
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7515	0.4223	0.2742	0.03542	0.09428	0.2963	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8131	0.1871	0.01341	0.2395	0.009186	0.7437	
	Q(ilm)						

0.6355

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2276	0.03726	0.3031	0.01194	0.03305	0.3457	0.04145	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	663.0	0.04996	0.1886	0.8559	0.0070910	0.0005493	0.7164
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7529	0.4221	0.2728	0.03543	0.09451	0.2973	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8150	0.1966	0.01458	0.2376	0.009283	0.7444	
	Q(ilm)						

0.6369

mode	liq	bi	g	pl	ilm	ky	q	H2O
0	0.2275	0.03768	0.3023	0.01191	0.03340	0.3457	0.04147	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, pl, ilm, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	696.3	0.1186	0.2154	0.8509	0.005548	0.001642	0.6887

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6478 0.4039 0.3754 0.03571 0.09153 0.2331
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7251 0.01904 0.002082 0.3105 0.007610 0.7440
Q(ilm)

0.6205

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1366	0.2100	0.04767	0.2623	0.01273	0.01788	0.3128		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.10 695.9 0.1170 0.2149 0.8519 0.005570 0.001625 0.6892
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6502 0.4042 0.3734 0.03572 0.09148 0.2343
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7262 0.01967 0.002098 0.3101 0.007589 0.7440
Q(ilm)

0.6208

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1355	0.2103	0.04741	0.2625	0.01272	0.01817	0.3134		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 695.4 0.1155 0.2145 0.8528 0.005594 0.001608 0.6897
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6527 0.4045 0.3714 0.03574 0.09144 0.2355
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7272 0.02033 0.002115 0.3097 0.007570 0.7441
Q(ilm)

0.621

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1345	0.2105	0.04716	0.2627	0.01272	0.01845	0.3139		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 695.0 0.1139 0.2141 0.8538 0.005618 0.001591 0.6902
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6550 0.4048 0.3694 0.03575 0.09140 0.2367
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7283 0.02101 0.002133 0.3093 0.007552 0.7441
Q(ilm)

0.6213

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1334	0.2108	0.04691	0.2629	0.01271	0.01873	0.3145		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 694.6 0.1124 0.2136 0.8547 0.005644 0.001575 0.6907
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6574 0.4050 0.3674 0.03576 0.09137 0.2379

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7293 0.02172 0.002152 0.3089 0.007535 0.7441
Q(ilm)

0.6215

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1325	0.2110	0.04668	0.2631	0.01271	0.01900	0.3150	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 694.2 0.1109 0.2132 0.8555 0.005670 0.001558 0.6912
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6597 0.4053 0.3654 0.03577 0.09135 0.2390
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7304 0.02245 0.002172 0.3085 0.007520 0.7441
Q(ilm)

0.6217

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1315	0.2113	0.04645	0.2633	0.01270	0.01927	0.3155	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 693.8 0.1094 0.2128 0.8563 0.005697 0.001542 0.6917
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6619 0.4055 0.3634 0.03578 0.09133 0.2402
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7314 0.02321 0.002193 0.3081 0.007505 0.7441
Q(ilm)

0.6219

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1305	0.2115	0.04623	0.2635	0.01270	0.01953	0.3160	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 693.4 0.1079 0.2123 0.8571 0.005726 0.001525 0.6922
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6642 0.4058 0.3614 0.03579 0.09132 0.2414
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7325 0.02401 0.002216 0.3077 0.007492 0.7441
Q(ilm)

0.6221

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1296	0.2118	0.04601	0.2637	0.01269	0.01979	0.3164	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 693.0 0.1064 0.2119 0.8579 0.005755 0.001509 0.6926
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6664 0.4060 0.3594 0.03580 0.09131 0.2426
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7335 0.02483 0.002239 0.3072 0.007481 0.7441

Q(ilm)

0.6223

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1287	0.2120	0.04580	0.2639	0.01268	0.02004	0.3169	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.90	692.6	0.1050	0.2115	0.8586	0.005785	0.001493	0.6931
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6685	0.4062	0.3575	0.03581	0.09131	0.2437
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7345	0.02568	0.002264	0.3068	0.007470	0.7441

Q(ilm)

0.6225

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1279	0.2122	0.04560	0.2640	0.01268	0.02029	0.3174	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.00	692.2	0.1036	0.2111	0.8593	0.005816	0.001477	0.6936
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6706	0.4064	0.3555	0.03582	0.09131	0.2449
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7356	0.02657	0.002291	0.3064	0.007460	0.7441

Q(ilm)

0.6227

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1270	0.2124	0.04541	0.2642	0.01267	0.02054	0.3178	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.10	691.8	0.1022	0.2106	0.8599	0.005848	0.001461	0.6941
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6727	0.4066	0.3536	0.03583	0.09132	0.2461
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7366	0.02749	0.002319	0.3060	0.007452	0.7441

Q(ilm)

0.6229

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1262	0.2126	0.04522	0.2643	0.01267	0.02079	0.3182	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.20	691.4	0.1008	0.2102	0.8606	0.005880	0.001445	0.6945
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6748	0.4068	0.3516	0.03584	0.09133	0.2472
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7377	0.02845	0.002348	0.3055	0.007444	0.7441

Q(ilm)

0.6231

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1254	0.2128	0.04504	0.2645	0.01266	0.02103	0.3186		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
7.30	691.0	0.09945	0.2098	0.8612	0.005914	0.001429	0.6950	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6768	0.4070	0.3497	0.03585	0.09135	0.2484		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7387	0.02945	0.002379	0.3051	0.007438	0.7441		
	Q(ilm)							
	0.6232							

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1246	0.2130	0.04486	0.2646	0.01266	0.02127	0.3190		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
7.40	690.7	0.09811	0.2094	0.8617	0.005948	0.001413	0.6954	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6788	0.4072	0.3478	0.03586	0.09137	0.2495		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7398	0.03049	0.002412	0.3047	0.007433	0.7441		
	Q(ilm)							
	0.6234							

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1238	0.2132	0.04469	0.2648	0.01265	0.02150	0.3194		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
7.50	690.3	0.09679	0.2090	0.8623	0.005983	0.001397	0.6959	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6808	0.4074	0.3458	0.03586	0.09140	0.2506		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7408	0.03157	0.002447	0.3042	0.007428	0.7440		
	Q(ilm)							
	0.6235							

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1230	0.2134	0.04453	0.2649	0.01264	0.02173	0.3198		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
7.60	689.9	0.09548	0.2085	0.8628	0.006019	0.001381	0.6963	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6827	0.4076	0.3439	0.03587	0.09143	0.2518		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7419	0.03270	0.002484	0.3038	0.007425	0.7440		
	Q(ilm)							
	0.6237							

mode	liq	bi	g	pl	ilm	ky	q	H2O	
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0.1223 0.2135 0.04438 0.2650 0.01264 0.02197 0.3202 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.70 689.5 0.09419 0.2081 0.8633 0.006056 0.001366 0.6968
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6847 0.4077 0.3420 0.03588 0.09146 0.2529
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7430 0.03387 0.002523 0.3033 0.007423 0.7440
Q(ilm)
0.6238

mode liq bi g pl ilm ky q H2O
0.1215 0.2137 0.04423 0.2651 0.01263 0.02219 0.3206 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 689.2 0.09292 0.2077 0.8637 0.006094 0.001350 0.6972
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6866 0.4079 0.3401 0.03589 0.09150 0.2541
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7440 0.03510 0.002564 0.3028 0.007421 0.7439
Q(ilm)
0.6239

mode liq bi g pl ilm ky q H2O
0.1208 0.2139 0.04409 0.2653 0.01262 0.02242 0.3209 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.90 688.8 0.09166 0.2073 0.8642 0.006132 0.001334 0.6976
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6884 0.4080 0.3382 0.03589 0.09154 0.2552
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7451 0.03637 0.002608 0.3024 0.007421 0.7439
Q(ilm)
0.6241

mode liq bi g pl ilm ky q H2O
0.1201 0.2140 0.04395 0.2654 0.01262 0.02265 0.3213 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 688.4 0.09042 0.2068 0.8646 0.006171 0.001318 0.6980
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6903 0.4081 0.3363 0.03590 0.09159 0.2563
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7462 0.03771 0.002655 0.3019 0.007422 0.7439
Q(ilm)
0.6242

mode liq bi g pl ilm ky q H2O
0.1194 0.2142 0.04382 0.2655 0.01261 0.02287 0.3216 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.10 688.0 0.08920 0.2064 0.8649 0.006210 0.001302 0.6984
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6921 0.4083 0.3344 0.03591 0.09164 0.2574
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7473 0.03910 0.002704 0.3014 0.007423 0.7438
 Q(ilm)
 0.6243

mode liq bi g pl ilm ky q H2O
 0.1188 0.2143 0.04370 0.2656 0.01260 0.02309 0.3219 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.20 687.6 0.08799 0.2060 0.8653 0.006251 0.001286 0.6988
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6939 0.4084 0.3326 0.03592 0.09170 0.2586
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7484 0.04055 0.002757 0.3009 0.007426 0.7438
 Q(ilm)
 0.6244

mode liq bi g pl ilm ky q H2O
 0.1181 0.2145 0.04358 0.2657 0.01260 0.02331 0.3223 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.30 687.3 0.08680 0.2056 0.8656 0.006292 0.001270 0.6992
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6956 0.4085 0.3307 0.03592 0.09175 0.2597
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7495 0.04207 0.002813 0.3004 0.007430 0.7437
 Q(ilm)
 0.6245

mode liq bi g pl ilm ky q H2O
 0.1175 0.2146 0.04347 0.2657 0.01259 0.02353 0.3226 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.40 686.9 0.08562 0.2051 0.8659 0.006333 0.001254 0.6996
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6974 0.4086 0.3288 0.03593 0.09182 0.2608
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7507 0.04365 0.002872 0.2998 0.007435 0.7437
 Q(ilm)
 0.6247

mode liq bi g pl ilm ky q H2O
 0.1168 0.2148 0.04337 0.2658 0.01258 0.02375 0.3229 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.50 686.5 0.08446 0.2047 0.8662 0.006375 0.001238 0.7000

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6991 0.4087 0.3270 0.03594 0.09188 0.2619
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7518 0.04531 0.002936 0.2993 0.007440 0.7436
Q(ilm)

0.6248

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1162	0.2149	0.04327	0.2659	0.01257	0.02397	0.3232	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 686.1 0.08331 0.2043 0.8664 0.006418 0.001222 0.7004
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7008 0.4088 0.3252 0.03594 0.09195 0.2630
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7529 0.04705 0.003003 0.2987 0.007447 0.7436
Q(ilm)

0.6249

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1156	0.2150	0.04318	0.2660	0.01257	0.02419	0.3235	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.70 685.7 0.08218 0.2038 0.8666 0.006461 0.001205 0.7008
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7025 0.4089 0.3233 0.03595 0.09203 0.2641
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7541 0.04886 0.003076 0.2982 0.007455 0.7435
Q(ilm)

0.625

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1150	0.2151	0.04310	0.2660	0.01256	0.02440	0.3238	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 685.3 0.08106 0.2034 0.8668 0.006505 0.001189 0.7011
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7042 0.4089 0.3215 0.03596 0.09211 0.2653
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7553 0.05077 0.003153 0.2976 0.007464 0.7435
Q(ilm)

0.6251

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1144	0.2153	0.04303	0.2661	0.01255	0.02462	0.3241	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.90 684.9 0.07996 0.2030 0.8670 0.006549 0.001173 0.7015
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7058 0.4090 0.3197 0.03596 0.09219 0.2664

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7565 0.05276 0.003235 0.2970 0.007474 0.7434
Q(ilm)

0.6253

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1138	0.2154	0.04296	0.2661	0.01254	0.02484	0.3243	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 684.5 0.07886 0.2025 0.8671 0.006594 0.001156 0.7019
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7075 0.4091 0.3179 0.03597 0.09227 0.2675
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7577 0.05485 0.003324 0.2964 0.007485 0.7434
Q(ilm)

0.6254

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1133	0.2155	0.04290	0.2662	0.01253	0.02505	0.3246	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.10 684.1 0.07778 0.2021 0.8672 0.006639 0.001139 0.7022
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7091 0.4091 0.3161 0.03597 0.09236 0.2686
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7589 0.05704 0.003419 0.2957 0.007498 0.7433
Q(ilm)

0.6255

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1127	0.2156	0.04285	0.2662	0.01252	0.02527	0.3249	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 683.7 0.07672 0.2017 0.8673 0.006684 0.001122 0.7025
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7107 0.4091 0.3143 0.03598 0.09246 0.2697
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7602 0.05935 0.003521 0.2950 0.007511 0.7433
Q(ilm)

0.6257

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1122	0.2157	0.04281	0.2662	0.01251	0.02549	0.3251	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.30 683.3 0.07567 0.2012 0.8674 0.006730 0.001105 0.7029
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7123 0.4092 0.3125 0.03599 0.09255 0.2708
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7614 0.06176 0.003630 0.2944 0.007526 0.7433

Q(ilm)

0.6258

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1116	0.2158	0.04278	0.2662	0.01250	0.02571	0.3254	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 682.9 0.07462 0.2008 0.8674 0.006776 0.001088 0.7032
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7139 0.4092 0.3107 0.03599 0.09265 0.2719
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7627 0.06430 0.003749 0.2936 0.007543 0.7432
Q(ilm)

0.626

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1111	0.2159	0.04276	0.2662	0.01249	0.02593	0.3256	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.50 682.4 0.07359 0.2003 0.8674 0.006822 0.001071 0.7035
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7154 0.4092 0.3089 0.03600 0.09276 0.2729
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7640 0.06698 0.003876 0.2929 0.007560 0.7432
Q(ilm)

0.6261

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1106	0.2160	0.04275	0.2662	0.01248	0.02615	0.3259	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 682.0 0.07258 0.1999 0.8674 0.006868 0.001053 0.7038
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7170 0.4092 0.3072 0.03601 0.09286 0.2740
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7654 0.06978 0.004013 0.2921 0.007579 0.7432
Q(ilm)

0.6263

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1100	0.2161	0.04275	0.2662	0.01247	0.02637	0.3261	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.70 681.5 0.07157 0.1994 0.8674 0.006914 0.001036 0.7041
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7185 0.4091 0.3054 0.03601 0.09298 0.2751
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7667 0.07274 0.004162 0.2913 0.007600 0.7431
Q(ilm)

0.6265

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1095	0.2162	0.04276	0.2661	0.01246	0.02660	0.3263	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.80	681.1	0.07058	0.1990	0.8673	0.006960	0.001018	0.7043
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7200	0.4091	0.3037	0.03602	0.09309	0.2762	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7681	0.07585	0.004323	0.2905	0.007622	0.7431	
	Q(ilm)						
	0.6267						

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1090	0.2162	0.04278	0.2661	0.01245	0.02682	0.3266	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.90	680.6	0.06959	0.1985	0.8672	0.0070060	0.0009999	0.7046
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7215	0.4091	0.3020	0.03603	0.09321	0.2773	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7695	0.07913	0.004498	0.2896	0.007646	0.7431	
	Q(ilm)						
	0.6269						

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1085	0.2163	0.04281	0.2660	0.01244	0.02705	0.3268	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	680.1	0.06862	0.1981	0.8670	0.0070510	0.0009816	0.7049
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7230	0.4090	0.3002	0.03604	0.09333	0.2784	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7709	0.08258	0.004688	0.2887	0.007671	0.7431	
	Q(ilm)						
	0.6271						

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1081	0.2164	0.04286	0.2660	0.01243	0.02729	0.3270	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.10	679.6	0.06765	0.1976	0.8669	0.0070960	0.0009632	0.7051
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7245	0.4090	0.2985	0.03604	0.09346	0.2795	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7723	0.08623	0.004895	0.2877	0.007698	0.7431	
	Q(ilm)						
	0.6274						

mode	liq	bi	g	pl	ilm	ky	q	H2O
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0.1076 0.2165 0.04292 0.2659 0.01242 0.02753 0.3272 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 679.1 0.06670 0.1972 0.8667 0.0071400.0009445 0.7053
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7260 0.4089 0.2968 0.03605 0.09359 0.2806
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7738 0.09006 0.005120 0.2867 0.007728 0.7432
Q(ilm)
0.6277

mode liq bi g pl ilm ky q H2O
0.1071 0.2165 0.04299 0.2657 0.01240 0.02777 0.3275 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.30 678.6 0.06575 0.1967 0.8665 0.0071840.0009255 0.7055
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7274 0.4088 0.2951 0.03606 0.09373 0.2816
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7753 0.09411 0.005366 0.2856 0.007759 0.7432
Q(ilm)
0.628

mode liq bi g pl ilm ky q H2O
0.1066 0.2166 0.04308 0.2656 0.01239 0.02801 0.3277 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 678.0 0.06481 0.1963 0.8662 0.0072270.0009063 0.7057
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7289 0.4087 0.2935 0.03607 0.09387 0.2827
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7769 0.09838 0.005635 0.2845 0.007793 0.7433
Q(ilm)
0.6283

mode liq bi g pl ilm ky q H2O
0.1062 0.2166 0.04319 0.2655 0.01238 0.02826 0.3279 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50 677.5 0.06389 0.1958 0.8659 0.0072690.0008869 0.7059
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7303 0.4086 0.2918 0.03608 0.09401 0.2838
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7784 0.1029 0.005929 0.2833 0.007828 0.7434
Q(ilm)
0.6287

mode liq bi g pl ilm ky q H2O
0.1057 0.2167 0.04331 0.2653 0.01236 0.02852 0.3281 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 676.9 0.06297 0.1953 0.8656 0.0073100.0008672 0.7061
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7318 0.4085 0.2901 0.03609 0.09416 0.2849
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7800 0.1076 0.006251 0.2821 0.007867 0.7435
Q(ilm)
0.6291

mode liq bi g pl ilm ky q H2O
0.1053 0.2168 0.04346 0.2651 0.01235 0.02878 0.3283 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70 676.3 0.06205 0.1948 0.8652 0.0073490.0008472 0.7063
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7332 0.4083 0.2885 0.03610 0.09431 0.2860
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7817 0.1127 0.006605 0.2808 0.007908 0.7436
Q(ilm)
0.6296

mode liq bi g pl ilm ky q H2O
0.1048 0.2168 0.04362 0.2649 0.01233 0.02905 0.3285 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 675.7 0.06115 0.1944 0.8648 0.0073870.0008270 0.7064
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7347 0.4082 0.2868 0.03610 0.09447 0.2871
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7833 0.1180 0.006993 0.2794 0.007951 0.7438
Q(ilm)
0.6301

mode liq bi g pl ilm ky q H2O
0.1044 0.2168 0.04380 0.2647 0.01231 0.02933 0.3287 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 675.1 0.06025 0.1939 0.8644 0.0074230.0008065 0.7065
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7361 0.4080 0.2852 0.03611 0.09463 0.2882
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7850 0.1235 0.007420 0.2779 0.007998 0.7440
Q(ilm)
0.6307

mode liq bi g pl ilm ky q H2O
0.1039 0.2169 0.04401 0.2644 0.01230 0.02961 0.3289 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 674.4 0.05936 0.1934 0.8640 0.0074560.0007857 0.7066

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7375 0.4078 0.2836 0.03612 0.09480 0.2892
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7867 0.1294 0.007890 0.2764 0.008048 0.7442
Q(ilm)

0.6314

mode liq bi g pl ilm ky q H2O
0.1035 0.2169 0.04423 0.2641 0.01228 0.02990 0.3291 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.10 673.7 0.05847 0.1929 0.8635 0.0074880.0007647 0.7067
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7389 0.4076 0.2820 0.03613 0.09497 0.2903
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7885 0.1356 0.008407 0.2747 0.008101 0.7445
Q(ilm)

0.6321

mode liq bi g pl ilm ky q H2O
0.1031 0.2169 0.04449 0.2638 0.01226 0.03021 0.3293 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 673.0 0.05760 0.1924 0.8629 0.0075160.0007433 0.7068
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7404 0.4074 0.2804 0.03614 0.09514 0.2914
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7902 0.1421 0.008977 0.2729 0.008158 0.7448
Q(ilm)

0.6329

mode liq bi g pl ilm ky q H2O
0.1027 0.2169 0.04477 0.2634 0.01224 0.03052 0.3295 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.30 672.3 0.05672 0.1919 0.8623 0.0075410.0007217 0.7068
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7418 0.4072 0.2789 0.03615 0.09532 0.2925
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7920 0.1490 0.009605 0.2710 0.008219 0.7452
Q(ilm)

0.6338

mode liq bi g pl ilm ky q H2O
0.1022 0.2170 0.04508 0.2630 0.01221 0.03085 0.3297 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 671.5 0.05585 0.1914 0.8617 0.0075640.0006999 0.7069
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7432 0.4069 0.2773 0.03616 0.09551 0.2936

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7938 0.1562 0.01030 0.2690 0.008284 0.7457
Q(ilm)

0.6348

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1018	0.2170	0.04542	0.2626	0.01219	0.03119	0.3299	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 670.7 0.05498 0.1909 0.8610 0.0075820.0006778 0.7069
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7446 0.4067 0.2757 0.03616 0.09569 0.2947
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7957 0.1637 0.01106 0.2669 0.008354 0.7462
Q(ilm)

0.636

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1014	0.2170	0.04579	0.2621	0.01216	0.03154	0.3301	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 669.8 0.05412 0.1904 0.8603 0.0075960.0006556 0.7069
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7461 0.4064 0.2742 0.03617 0.09589 0.2959
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7975 0.1716 0.01189 0.2646 0.008428 0.7468
Q(ilm)

0.6372

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1010	0.2170	0.04620	0.2615	0.01213	0.03191	0.3303	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.70 668.9 0.05326 0.1899 0.8596 0.0076060.0006331 0.7068
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7475 0.4061 0.2727 0.03617 0.09608 0.2970
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7994 0.1799 0.01281 0.2622 0.008507 0.7475
Q(ilm)

0.6386

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.1005	0.2170	0.04663	0.2610	0.01210	0.03229	0.3305	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 668.0 0.05241 0.1894 0.8588 0.0076100.0006105 0.7068
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7490 0.4058 0.2712 0.03618 0.09629 0.2981
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8013 0.1885 0.01382 0.2596 0.008591 0.7483

Q(ilm)

0.6402

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1001	0.2170	0.04711	0.2604	0.01207	0.03269	0.3307	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.90	667.0	0.05155	0.1889	0.8580	0.0076090	0.0005877	0.7067
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7504	0.4055	0.2697	0.03617	0.09649	0.2993
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8032	0.1974	0.01492	0.2569	0.008680	0.7492

Q(ilm)

0.642

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.09972	0.2170	0.04762	0.2597	0.01203	0.03311	0.3309	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	666.0	0.05070	0.1883	0.8571	0.0076030	0.0005648	0.7066
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7519	0.4052	0.2682	0.03617	0.09670	0.3004
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8051	0.2067	0.01612	0.2540	0.008776	0.7503

Q(ilm)

0.6439

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.09930	0.2169	0.04818	0.2590	0.01200	0.03354	0.3311	0	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, pl, ilm, ky, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	796.4	0.1582	0.2955	0.6721	0.01120	0.004028	0.6723
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4974	0.3343	0.4026	0.03881	0.1420	0.1809
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6230	0.01276	0.003391	0.3410	0.02476	0.7250

Q(ilm)

0.5292

mode	liq	bi	g	pl	ilm	ky	q
0.2612	0.1412	0.1012	0.2275	0.01274	0	0.2562	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.10 798.4 0.1576 0.2968 0.6692 0.01141 0.004070 0.6720
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4968 0.3326 0.4012 0.03889 0.1433 0.1807
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6211 0.01299 0.003441 0.3410 0.02532 0.7251
Q(ilm)
0.5279

mode	liq	bi	g	pl	ilm	ky	q
	0.2628	0.1395	0.1024	0.2270	0.01276	0	0.2555

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 800.3 0.1570 0.2981 0.6663 0.01163 0.004111 0.6718
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4962 0.3309 0.3999 0.03896 0.1446 0.1805
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6193 0.01323 0.003491 0.3409 0.02589 0.7252
Q(ilm)
0.5266

mode	liq	bi	g	pl	ilm	ky	q
	0.2645	0.1379	0.1036	0.2265	0.01278	0	0.2548

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 802.3 0.1565 0.2993 0.6634 0.01185 0.004152 0.6715
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4957 0.3292 0.3985 0.03904 0.1458 0.1802
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6174 0.01348 0.003542 0.3408 0.02647 0.7253
Q(ilm)
0.5254

mode	liq	bi	g	pl	ilm	ky	q
	0.2661	0.1362	0.1048	0.2260	0.01281	0	0.2541

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 804.2 0.1560 0.3005 0.6605 0.01207 0.004192 0.6712
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4951 0.3275 0.3971 0.03911 0.1471 0.1800
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6155 0.01372 0.003593 0.3407 0.02706 0.7255
Q(ilm)
0.5243

mode	liq	bi	g	pl	ilm	ky	q
	0.2677	0.1346	0.1060	0.2255	0.01283	0	0.2534

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 806.1 0.1554 0.3017 0.6576 0.01230 0.004232 0.6708
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4946 0.3258 0.3958 0.03918 0.1484 0.1798
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6136 0.01397 0.003644 0.3405 0.02765 0.7257
Q(ilm)

0.5232

mode	liq	bi	g	pl	ilm	ky	q
	0.2692	0.1329	0.1072	0.2250	0.01286	0	0.2527

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 808.0 0.1549 0.3029 0.6548 0.01253 0.004271 0.6705
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4940 0.3241 0.3944 0.03925 0.1497 0.1796
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6117 0.01423 0.003696 0.3404 0.02825 0.7259
Q(ilm)

0.5222

mode	liq	bi	g	pl	ilm	ky	q
	0.2708	0.1313	0.1084	0.2246	0.01289	0	0.2520

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 809.8 0.1544 0.3040 0.6519 0.01276 0.004309 0.6701
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4935 0.3224 0.3930 0.03931 0.1509 0.1793
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6098 0.01449 0.003748 0.3401 0.02886 0.7261
Q(ilm)

0.5212

mode	liq	bi	g	pl	ilm	ky	q
	0.2724	0.1296	0.1097	0.2241	0.01292	0	0.2513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 811.7 0.1539 0.3051 0.6491 0.01299 0.004346 0.6697
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4930 0.3207 0.3916 0.03938 0.1522 0.1791
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6078 0.01475 0.003801 0.3399 0.02947 0.7264
Q(ilm)

0.5204

mode	liq	bi	g	pl	ilm	ky	q
	0.2740	0.1279	0.1109	0.2236	0.01295	0	0.2506

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 813.5 0.1534 0.3062 0.6463 0.01323 0.004383 0.6693
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4925 0.3190 0.3902 0.03944 0.1535 0.1788
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.6059 0.01501 0.003854 0.3396 0.03009 0.7267
Q(ilm)

0.5195

mode	liq	bi	g	pl	ilm	ky	q
	0.2755	0.1262	0.1121	0.2232	0.01298	0	0.2499

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 815.4 0.1529 0.3073 0.6436 0.01347 0.004419 0.6689
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4920 0.3172 0.3888 0.03950 0.1548 0.1786
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6040 0.01528 0.003907 0.3393 0.03072 0.7270
Q(ilm)

0.5187

mode	liq	bi	g	pl	ilm	ky	q
	0.2771	0.1246	0.1134	0.2227	0.01301	0	0.2492

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.10 817.2 0.1524 0.3083 0.6408 0.01371 0.004454 0.6685
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4916 0.3155 0.3874 0.03955 0.1561 0.1784
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6020 0.01556 0.003961 0.3390 0.03136 0.7274
Q(ilm)

0.518

mode	liq	bi	g	pl	ilm	ky	q
	0.2786	0.1229	0.1146	0.2223	0.01305	0	0.2485

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 819.0 0.1519 0.3093 0.6380 0.01396 0.004489 0.6680
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4911 0.3138 0.3860 0.03961 0.1573 0.1781
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6001 0.01583 0.004016 0.3386 0.03200 0.7278
Q(ilm)

0.5174

mode	liq	bi	g	pl	ilm	ky	q
	0.2802	0.1212	0.1158	0.2219	0.01309	0	0.2479

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.30 820.7 0.1515 0.3103 0.6353 0.01421 0.004522 0.6676
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4907 0.3120 0.3847 0.03966 0.1586 0.1779
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5981 0.01611 0.004070 0.3382 0.03265 0.7282
Q(ilm)

0.5168

mode	liq	bi	g	pl	ilm	ky	q
	0.2817	0.1195	0.1171	0.2215	0.01312	0	0.2472

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 822.5 0.1510 0.3113 0.6326 0.01446 0.004555 0.6671
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4902 0.3103 0.3833 0.03971 0.1599 0.1776
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5962 0.01640 0.004125 0.3378 0.03331 0.7286
Q(ilm)

0.5162

mode	liq	bi	g	pl	ilm	ky	q
	0.2832	0.1178	0.1183	0.2210	0.01316	0	0.2465

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 824.2 0.1505 0.3122 0.6299 0.01471 0.004587 0.6666
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4898 0.3085 0.3819 0.03976 0.1612 0.1774
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5942 0.01669 0.004181 0.3373 0.03398 0.7291
Q(ilm)

0.5157

mode	liq	bi	g	pl	ilm	ky	q
	0.2847	0.1161	0.1196	0.2206	0.01320	0	0.2458

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 826.0 0.1501 0.3131 0.6273 0.01497 0.004618 0.6661
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4894 0.3068 0.3805 0.03981 0.1625 0.1771
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5922 0.01698 0.004237 0.3369 0.03465 0.7295
Q(ilm)

0.5153

mode	liq	bi	g	pl	ilm	ky	q
	0.2862	0.1144	0.1208	0.2202	0.01324	0	0.2451

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.70 827.7 0.1496 0.3140 0.6246 0.01523 0.004649 0.6656
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4890 0.3051 0.3791 0.03985 0.1637 0.1768
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5903 0.01728 0.004293 0.3363 0.03533 0.7301
Q(ilm)

0.5149

mode	liq	bi	g	pl	ilm	ky	q
	0.2877	0.1127	0.1221	0.2198	0.01329	0	0.2444

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.80 829.4 0.1492 0.3149 0.6220 0.01549 0.004678 0.6650

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4887 0.3033 0.3777 0.03989 0.1650 0.1766

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5883 0.01758 0.004350 0.3358 0.03602 0.7306

Q(ilm)

0.5146

mode	liq	bi	g	pl	ilm	ky	q
	0.2891	0.1110	0.1233	0.2194	0.01333	0	0.2438

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.90 831.1 0.1487 0.3158 0.6193 0.01576 0.004707 0.6645

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4883 0.3016 0.3763 0.03993 0.1663 0.1763

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5863 0.01788 0.004407 0.3352 0.03672 0.7311

Q(ilm)

0.5143

mode	liq	bi	g	pl	ilm	ky	q
	0.2906	0.1093	0.1246	0.2191	0.01338	0	0.2431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.00 832.7 0.1483 0.3166 0.6167 0.01602 0.004735 0.6639

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4879 0.2998 0.3749 0.03997 0.1676 0.1760

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5843 0.01819 0.004464 0.3346 0.03743 0.7317

Q(ilm)

0.5141

mode	liq	bi	g	pl	ilm	ky	q
	0.2920	0.1076	0.1258	0.2187	0.01342	0	0.2424

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.10 834.4 0.1478 0.3174 0.6142 0.01629 0.004762 0.6634

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4876 0.2981 0.3736 0.04000 0.1689 0.1757

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5824 0.01851 0.004522 0.3339 0.03814 0.7323

Q(ilm)

0.5139

mode	liq	bi	g	pl	ilm	ky	q
	0.2935	0.1059	0.1271	0.2183	0.01347	0	0.2418

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.20	836.0	0.1474	0.3182	0.6116	0.01657	0.004788	0.6628
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4873	0.2964	0.3722	0.04003	0.1701	0.1754	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5804	0.01883	0.004581	0.3332	0.03887	0.7329	
	Q(ilm)						
0.5138							

mode	liq	bi	g	pl	ilm	ky	q
	0.2949	0.1042	0.1283	0.2179	0.01352	0	0.2411

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.30	837.6	0.1470	0.3189	0.6090	0.01684	0.004814	0.6622
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4870	0.2946	0.3708	0.04006	0.1714	0.1751	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5784	0.01915	0.004640	0.3325	0.03960	0.7336	
	Q(ilm)						
0.5138							

mode	liq	bi	g	pl	ilm	ky	q
	0.2963	0.1025	0.1296	0.2176	0.01357	0	0.2405

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	839.3	0.1465	0.3197	0.6065	0.01712	0.004838	0.6616
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4867	0.2929	0.3694	0.04009	0.1727	0.1749	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5764	0.01948	0.004699	0.3318	0.04034	0.7343	
	Q(ilm)						
0.5137							

mode	liq	bi	g	pl	ilm	ky	q
	0.2977	0.1008	0.1308	0.2172	0.01362	0	0.2398

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.50	840.9	0.1461	0.3204	0.6040	0.01740	0.004862	0.6610
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4864	0.2912	0.3680	0.04011	0.1740	0.1745	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5744	0.01981	0.004759	0.3310	0.04109	0.7350	
	Q(ilm)						
0.5138							

mode	liq	bi	g	pl	ilm	ky	q
	0.2991	0.09912	0.1321	0.2169	0.01367	0	0.2392

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

8.60 842.4 0.1457 0.3211 0.6015 0.01769 0.004885 0.6603
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4861 0.2894 0.3667 0.04013 0.1753 0.1742
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5724 0.02015 0.004819 0.3302 0.04185 0.7357
 Q(ilm)
 0.5139

mode	liq	bi	g	pl	ilm	ky	q
	0.3004	0.09742	0.1333	0.2166	0.01372	0	0.2385

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.70 844.0 0.1453 0.3218 0.5990 0.01797 0.004907 0.6597
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4859 0.2877 0.3653 0.04015 0.1765 0.1739
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5704 0.02049 0.004879 0.3293 0.04262 0.7364
 Q(ilm)
 0.514

mode	liq	bi	g	pl	ilm	ky	q
	0.3018	0.09572	0.1346	0.2162	0.01378	0	0.2379

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.80 845.6 0.1448 0.3225 0.5966 0.01826 0.004928 0.6590
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4856 0.2860 0.3639 0.04017 0.1778 0.1736
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5684 0.02084 0.004940 0.3285 0.04340 0.7371
 Q(ilm)
 0.5142

mode	liq	bi	g	pl	ilm	ky	q
	0.3031	0.09402	0.1359	0.2159	0.01383	0	0.2372

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.90 847.1 0.1444 0.3232 0.5941 0.01855 0.004948 0.6584
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4854 0.2843 0.3626 0.04018 0.1791 0.1733
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5664 0.02119 0.005002 0.3276 0.04419 0.7379
 Q(ilm)
 0.5144

mode	liq	bi	g	pl	ilm	ky	q
	0.3045	0.09233	0.1371	0.2156	0.01389	0	0.2366

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.00 848.7 0.1440 0.3238 0.5917 0.01885 0.004967 0.6577
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4851 0.2826 0.3612 0.04019 0.1804 0.1730
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5644 0.02154 0.005064 0.3266 0.04499 0.7387
Q(ilm)

0.5147

mode	liq	bi	g	pl	ilm	ky	q
	0.3058	0.09063	0.1384	0.2153	0.01395	0	0.2360

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.10 850.2 0.1436 0.3244 0.5893 0.01914 0.004985 0.6570
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4849 0.2809 0.3599 0.04020 0.1817 0.1726
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5624 0.02191 0.005126 0.3256 0.04580 0.7395
Q(ilm)

0.515

mode	liq	bi	g	pl	ilm	ky	q
	0.3071	0.08894	0.1396	0.2149	0.01401	0	0.2354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 851.7 0.1432 0.3250 0.5869 0.01944 0.005003 0.6564
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4847 0.2792 0.3585 0.04021 0.1829 0.1723
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5604 0.02227 0.005189 0.3246 0.04662 0.7403
Q(ilm)

0.5154

mode	liq	bi	g	pl	ilm	ky	q
	0.3084	0.08725	0.1409	0.2146	0.01407	0	0.2348

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.30 853.2 0.1428 0.3256 0.5845 0.01974 0.005019 0.6557
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4845 0.2775 0.3571 0.04021 0.1842 0.1720
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5584 0.02264 0.005252 0.3236 0.04745 0.7411
Q(ilm)

0.5158

mode	liq	bi	g	pl	ilm	ky	q
	0.3097	0.08556	0.1422	0.2143	0.01413	0	0.2342

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 854.7 0.1424 0.3262 0.5822 0.02005 0.005035 0.6550
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4843 0.2758 0.3558 0.04021 0.1855 0.1716
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5565 0.02302 0.005316 0.3225 0.04829 0.7420

Q(ilm)

0.5162

mode	liq	bi	g	pl	ilm	ky	q
	0.3109	0.08387	0.1434	0.2140	0.01419	0	0.2336

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.50 856.1 0.1420 0.3267 0.5798 0.02035 0.005050 0.6543
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4842 0.2741 0.3544 0.04021 0.1868 0.1713
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5545 0.02340 0.005380 0.3214 0.04914 0.7429
Q(ilm)

0.5167

mode	liq	bi	g	pl	ilm	ky	q
	0.3122	0.08218	0.1447	0.2138	0.01425	0	0.2330

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 857.6 0.1415 0.3272 0.5775 0.02066 0.005064 0.6535
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4840 0.2724 0.3531 0.04021 0.1880 0.1709
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5525 0.02379 0.005445 0.3202 0.05001 0.7438
Q(ilm)

0.5172

mode	liq	bi	g	pl	ilm	ky	q
	0.3134	0.08050	0.1459	0.2135	0.01431	0	0.2324

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.70 859.0 0.1411 0.3278 0.5752 0.02097 0.005077 0.6528
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4839 0.2707 0.3518 0.04020 0.1893 0.1705
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5505 0.02418 0.005510 0.3191 0.05089 0.7447
Q(ilm)

0.5178

mode	liq	bi	g	pl	ilm	ky	q
	0.3146	0.07881	0.1472	0.2132	0.01438	0	0.2318

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 860.5 0.1407 0.3283 0.5729 0.02129 0.005089 0.6521
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4837 0.2690 0.3504 0.04019 0.1906 0.1702
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5485 0.02458 0.005576 0.3178 0.05178 0.7456
Q(ilm)

0.5184

mode	liq	bi	g	pl	ilm	ky	q
	0.3158	0.07713	0.1485	0.2129	0.01444	0	0.2312

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.90 861.9 0.1403 0.3288 0.5706 0.02160 0.005101 0.6513
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4836 0.2674 0.3491 0.04018 0.1919 0.1698
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5465 0.02499 0.005642 0.3166 0.05268 0.7465
Q(ilm)

0.5191

mode	liq	bi	g	pl	ilm	ky	q
	0.3170	0.07545	0.1497	0.2127	0.01451	0	0.2307

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 863.3 0.1399 0.3292 0.5684 0.02192 0.005111 0.6506
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4835 0.2657 0.3478 0.04016 0.1932 0.1694
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5445 0.02539 0.005709 0.3153 0.05359 0.7475
Q(ilm)

0.5197

mode	liq	bi	g	pl	ilm	ky	q
	0.3182	0.07378	0.1510	0.2124	0.01458	0	0.2301

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.10 864.7 0.1395 0.3297 0.5661 0.02224 0.005121 0.6498
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4833 0.2640 0.3464 0.04015 0.1944 0.1690
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5425 0.02581 0.005776 0.3140 0.05452 0.7484
Q(ilm)

0.5205

mode	liq	bi	g	pl	ilm	ky	q
	0.3194	0.07210	0.1522	0.2121	0.01465	0	0.2295

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 866.1 0.1391 0.3301 0.5639 0.02256 0.005130 0.6491
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4832 0.2624 0.3451 0.04013 0.1957 0.1687
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5405 0.02623 0.005843 0.3126 0.05547 0.7494
Q(ilm)

0.5212

mode	liq	bi	g	pl	ilm	ky	q
	0.3205	0.07043	0.1535	0.2119	0.01472	0	0.2290

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.30 867.5 0.1387 0.3306 0.5617 0.02289 0.005137 0.6483

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4831 0.2607 0.3438 0.04011 0.1970 0.1683

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5385 0.02666 0.005911 0.3113 0.05642 0.7504

Q(ilm)

0.522

mode	liq	bi	g	pl	ilm	ky	q
	0.3217	0.06876	0.1548	0.2116	0.01479	0	0.2284

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.40 868.8 0.1383 0.3310 0.5595 0.02321 0.005144 0.6475

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4831 0.2591 0.3425 0.04008 0.1983 0.1679

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5366 0.02709 0.005980 0.3098 0.05740 0.7514

Q(ilm)

0.5228

mode	liq	bi	g	pl	ilm	ky	q
	0.3228	0.06709	0.1560	0.2114	0.01486	0	0.2279

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.50 870.2 0.1379 0.3314 0.5573 0.02354 0.005151 0.6467

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4830 0.2575 0.3412 0.04005 0.1996 0.1675

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5346 0.02753 0.006049 0.3084 0.05838 0.7524

Q(ilm)

0.5237

mode	liq	bi	g	pl	ilm	ky	q
	0.3239	0.06542	0.1573	0.2111	0.01493	0	0.2273

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.60 871.5 0.1375 0.3318 0.5552 0.02387 0.005156 0.6459

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4829 0.2558 0.3399 0.04002 0.2008 0.1670

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5326 0.02797 0.006119 0.3069 0.05938 0.7534

Q(ilm)

0.5246

mode	liq	bi	g	pl	ilm	ky	q
	0.3250	0.06376	0.1586	0.2109	0.01500	0	0.2268

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.70	872.9	0.1371	0.3322	0.5530	0.02421	0.005161	0.6451
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4829	0.2542	0.3386	0.03999	0.2021	0.1666	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5306	0.02842	0.006189	0.3054	0.06040	0.7545	
	Q(ilm)						
	0.5255						

mode	liq	bi	g	pl	ilm	ky	q
	0.3261	0.06210	0.1598	0.2107	0.01508	0	0.2263

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.80	874.2	0.1367	0.3325	0.5509	0.02454	0.005164	0.6443
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4828	0.2526	0.3373	0.03996	0.2034	0.1662	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5286	0.02887	0.006259	0.3038	0.06144	0.7555	
	Q(ilm)						
	0.5264						

mode	liq	bi	g	pl	ilm	ky	q
	0.3271	0.06044	0.1611	0.2104	0.01515	0	0.2258

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.90	875.5	0.1363	0.3329	0.5488	0.02488	0.005167	0.6435
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4828	0.2510	0.3360	0.03992	0.2047	0.1658	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5267	0.02934	0.006331	0.3022	0.06249	0.7566	
	Q(ilm)						
	0.5274						

mode	liq	bi	g	pl	ilm	ky	q
	0.3282	0.05878	0.1624	0.2102	0.01523	0	0.2252

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	876.8	0.1359	0.3332	0.5467	0.02522	0.005169	0.6427
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4827	0.2493	0.3347	0.03988	0.2060	0.1654	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5247	0.02980	0.006402	0.3006	0.06356	0.7577	
	Q(ilm)						
	0.5284						

mode	liq	bi	g	pl	ilm	ky	q
	0.3292	0.05712	0.1636	0.2100	0.01530	0	0.2247

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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11.10  878.1  0.1355  0.3336  0.5446  0.02556 0.005171  0.6418
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4827  0.2477  0.3334  0.03984  0.2072  0.1649
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.5227  0.03028 0.006474  0.2989  0.06465  0.7587
      Q(ilm)
0.5295

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mode  liq  bi  g  pl  ilm  ky  q
      0.3303 0.05547 0.1649 0.2098 0.01538  0 0.2242

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.20    879.4  0.1351  0.3339  0.5426  0.02590 0.005171  0.6410
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4827  0.2461  0.3321  0.03979  0.2085  0.1645
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.5208  0.03076 0.006547  0.2972  0.06576  0.7598
      Q(ilm)
0.5305

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mode  liq  bi  g  pl  ilm  ky  q
      0.3313 0.05381 0.1662 0.2095 0.01546  0 0.2237

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.30    880.7  0.1347  0.3342  0.5405  0.02624 0.005171  0.6401
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4827  0.2446  0.3309  0.03974  0.2098  0.1640
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.5188  0.03124 0.006621  0.2955  0.06689  0.7610
      Q(ilm)
0.5316

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mode  liq  bi  g  pl  ilm  ky  q
      0.3323 0.05216 0.1674 0.2093 0.01554  0 0.2232

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.40    882.0  0.1343  0.3345  0.5385  0.02659 0.005170  0.6393
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4827  0.2430  0.3296  0.03969  0.2111  0.1636
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.5168  0.03174 0.006694  0.2938  0.06804  0.7621
      Q(ilm)
0.5328

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mode  liq  bi  g  pl  ilm  ky  q
      0.3333 0.05051 0.1687 0.2091 0.01562  0 0.2227

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.50    883.2  0.1339  0.3348  0.5365  0.02694 0.005168  0.6384
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)

```

0.4827 0.2414 0.3283 0.03964 0.2124 0.1631
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5149 0.03224 0.006769 0.2919 0.06921 0.7632
Q(ilm)

0.5339

mode	liq	bi	g	pl	ilm	ky	q
	0.3343	0.04886	0.1700	0.2089	0.01570	0	0.2223

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 884.5 0.1335 0.3350 0.5345 0.02729 0.005165 0.6376
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4827 0.2398 0.3271 0.03958 0.2137 0.1627
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5129 0.03274 0.006844 0.2901 0.07040 0.7643
Q(ilm)

0.5351

mode	liq	bi	g	pl	ilm	ky	q
	0.3353	0.04721	0.1712	0.2087	0.01578	0	0.2218

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.70 885.7 0.1331 0.3353 0.5325 0.02764 0.005162 0.6367
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4827 0.2382 0.3258 0.03952 0.2149 0.1622
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5109 0.03325 0.006919 0.2882 0.07161 0.7655
Q(ilm)

0.5363

mode	liq	bi	g	pl	ilm	ky	q
	0.3362	0.04556	0.1725	0.2085	0.01587	0	0.2213

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 886.9 0.1327 0.3355 0.5306 0.02799 0.005158 0.6358
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4828 0.2367 0.3246 0.03946 0.2162 0.1617
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5090 0.03377 0.006995 0.2863 0.07285 0.7666
Q(ilm)

0.5375

mode	liq	bi	g	pl	ilm	ky	q
	0.3372	0.04392	0.1738	0.2083	0.01595	0	0.2208

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.90 888.2 0.1323 0.3358 0.5286 0.02834 0.005153 0.6349
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4828 0.2351 0.3233 0.03940 0.2175 0.1613
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5070 0.03430 0.007071 0.2844 0.07411 0.7678

Q(ilm)

0.5388

mode	liq	bi	g	pl	ilm	ky	q
	0.3381	0.04227	0.1751	0.2081	0.01603	0	0.2204

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 889.4 0.1319 0.3360 0.5267 0.02870 0.005147 0.6340
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4828 0.2336 0.3221 0.03933 0.2188 0.1608
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5050 0.03483 0.007148 0.2824 0.07540 0.7690
Q(ilm)

0.54

mode	liq	bi	g	pl	ilm	ky	q
	0.3390	0.04063	0.1764	0.2079	0.01612	0	0.2199

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 890.6 0.1315 0.3362 0.5248 0.02906 0.005141 0.6331
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4829 0.2320 0.3208 0.03927 0.2201 0.1603
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5031 0.03536 0.007226 0.2804 0.07671 0.7702
Q(ilm)

0.5413

mode	liq	bi	g	pl	ilm	ky	q
	0.3399	0.03898	0.1777	0.2078	0.01621	0	0.2195

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 891.8 0.1311 0.3364 0.5229 0.02941 0.005134 0.6322
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4829 0.2305 0.3196 0.03919 0.2214 0.1598
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5011 0.03591 0.007304 0.2783 0.07806 0.7714
Q(ilm)

0.5426

mode	liq	bi	g	pl	ilm	ky	q
	0.3408	0.03734	0.1789	0.2076	0.01629	0	0.2190

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 893.0 0.1307 0.3366 0.5211 0.02977 0.005127 0.6313
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4830 0.2289 0.3183 0.03912 0.2227 0.1593
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4991 0.03646 0.007383 0.2763 0.07943 0.7726
Q(ilm)

0.544

mode	liq	bi	g	pl	ilm	ky	q
	0.3417	0.03569	0.1802	0.2074	0.01638	0	0.2186

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 894.1 0.1302 0.3368 0.5192 0.03013 0.005118 0.6304
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4831 0.2274 0.3171 0.03904 0.2240 0.1588
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4972 0.03702 0.007462 0.2741 0.08083 0.7738
Q(ilm)

0.5454

mode	liq	bi	g	pl	ilm	ky	q
	0.3426	0.03405	0.1815	0.2072	0.01647	0	0.2182

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 895.3 0.1298 0.3370 0.5174 0.03050 0.005109 0.6295
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4832 0.2259 0.3159 0.03897 0.2253 0.1583
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4952 0.03758 0.007542 0.2720 0.08226 0.7750
Q(ilm)

0.5467

mode	liq	bi	g	pl	ilm	ky	q
	0.3434	0.03240	0.1828	0.2071	0.01656	0	0.2177

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 896.5 0.1294 0.3372 0.5156 0.03086 0.005100 0.6285
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4833 0.2243 0.3147 0.03888 0.2266 0.1578
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4933 0.03815 0.007622 0.2698 0.08372 0.7763
Q(ilm)

0.5481

mode	liq	bi	g	pl	ilm	ky	q
	0.3443	0.03076	0.1841	0.2069	0.01666	0	0.2173

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.70 897.6 0.1290 0.3373 0.5138 0.03122 0.005089 0.6276
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4834 0.2228 0.3134 0.03880 0.2279 0.1573
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4913 0.03873 0.007703 0.2675 0.08522 0.7775
Q(ilm)

0.5496

mode	liq	bi	g	pl	ilm	ky	q
	0.3451	0.02911	0.1854	0.2067	0.01675	0	0.2169

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.80 898.8 0.1286 0.3375 0.5121 0.03159 0.005078 0.6266

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4835 0.2213 0.3122 0.03871 0.2292 0.1567

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4893 0.03931 0.007784 0.2653 0.08676 0.7787

Q(ilm)

0.551

mode	liq	bi	g	pl	ilm	ky	q
	0.3460	0.02746	0.1867	0.2066	0.01684	0	0.2165

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.90 899.9 0.1282 0.3376 0.5103 0.03195 0.005067 0.6257

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4836 0.2198 0.3110 0.03863 0.2305 0.1562

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4874 0.03990 0.007866 0.2630 0.08833 0.7800

Q(ilm)

0.5525

mode	liq	bi	g	pl	ilm	ky	q
	0.3468	0.02581	0.1880	0.2064	0.01694	0	0.2160

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.00 901.1 0.1278 0.3378 0.5086 0.03232 0.005054 0.6247

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4837 0.2183 0.3098 0.03853 0.2318 0.1557

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4854 0.04050 0.007949 0.2606 0.08994 0.7813

Q(ilm)

0.554

mode	liq	bi	g	pl	ilm	ky	q
	0.3476	0.02416	0.1893	0.2062	0.01703	0	0.2156

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.10 902.2 0.1274 0.3379 0.5070 0.03269 0.005042 0.6237

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4838 0.2168 0.3086 0.03844 0.2331 0.1551

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4834 0.04111 0.008032 0.2582 0.09159 0.7825

Q(ilm)

0.5555

mode	liq	bi	g	pl	ilm	ky	q
	0.3484	0.02251	0.1907	0.2061	0.01713	0	0.2152

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 903.3 0.1270 0.3380 0.5053 0.03306 0.005028 0.6228
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4839 0.2153 0.3074 0.03834 0.2344 0.1546
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4815 0.04172 0.008115 0.2558 0.09328 0.7838
Q(ilm)
0.557

mode liq bi g pl ilm ky q
0.3492 0.02086 0.1920 0.2059 0.01723 0 0.2148

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.30 904.5 0.1265 0.3381 0.5037 0.03343 0.005014 0.6218
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4841 0.2138 0.3062 0.03824 0.2357 0.1540
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4795 0.04233 0.008199 0.2533 0.09502 0.7851
Q(ilm)
0.5586

mode liq bi g pl ilm ky q
0.3499 0.01920 0.1933 0.2058 0.01733 0 0.2144

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 905.6 0.1261 0.3382 0.5021 0.03380 0.005000 0.6208
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4842 0.2123 0.3050 0.03814 0.2370 0.1535
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4775 0.04296 0.008284 0.2508 0.09681 0.7864
Q(ilm)
0.5601

mode liq bi g pl ilm ky q
0.3507 0.01754 0.1946 0.2057 0.01743 0 0.2141

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50 906.7 0.1257 0.3383 0.5005 0.03417 0.004985 0.6198
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4844 0.2108 0.3038 0.03804 0.2383 0.1529
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4755 0.04359 0.008369 0.2483 0.09864 0.7877
Q(ilm)
0.5617

mode liq bi g pl ilm ky q
0.3514 0.01588 0.1960 0.2055 0.01753 0 0.2137

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.60 907.8 0.1253 0.3384 0.4990 0.03454 0.004969 0.6187
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4845 0.2093 0.3027 0.03793 0.2396 0.1523
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4736 0.04423 0.008454 0.2457 0.1005 0.7890
 Q(ilm)
 0.5633

mode	liq	bi	g	pl	ilm	ky	q
	0.3522	0.01422	0.1973	0.2054	0.01763	0	0.2133

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.70 908.9 0.1249 0.3384 0.4975 0.03491 0.004953 0.6177
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4847 0.2078 0.3015 0.03782 0.2409 0.1518
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4716 0.04487 0.008540 0.2431 0.1025 0.7904
 Q(ilm)
 0.5649

mode	liq	bi	g	pl	ilm	ky	q
	0.3529	0.01255	0.1987	0.2053	0.01773	0	0.2129

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.80 909.9 0.1245 0.3385 0.4960 0.03528 0.004936 0.6167
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4849 0.2063 0.3003 0.03771 0.2422 0.1512
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4696 0.04553 0.008626 0.2404 0.1045 0.7917
 Q(ilm)
 0.5666

mode	liq	bi	g	pl	ilm	ky	q
	0.3536	0.01088	0.2000	0.2051	0.01784	0	0.2125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.90 911.0 0.1240 0.3385 0.4946 0.03565 0.004919 0.6156
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4851 0.2049 0.2991 0.03759 0.2436 0.1506
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4676 0.04618 0.008713 0.2377 0.1065 0.7930
 Q(ilm)
 0.5682

mode	liq	bi	g	pl	ilm	ky	q
	0.3543	0.009199	0.2014	0.2050	0.01794	0	0.2122

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.00 912.1 0.1236 0.3386 0.4932 0.03603 0.004901 0.6146
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4853 0.2034 0.2980 0.03747 0.2449 0.1500
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4656 0.04685 0.008801 0.2350 0.1087 0.7944
Q(ilm)

0.5699

mode	liq	bi	g	pl	ilm	ky	q
	0.3550	0.007518	0.2027	0.2049	0.01805	0	0.2118

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 913.2 0.1232 0.3386 0.4918 0.03640 0.004882 0.6135
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4855 0.2019 0.2968 0.03735 0.2462 0.1494
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4636 0.04752 0.008889 0.2322 0.1109 0.7957
Q(ilm)

0.5716

mode	liq	bi	g	pl	ilm	ky	q
	0.3557	0.005831	0.2041	0.2048	0.01816	0	0.2114

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 914.2 0.1228 0.3386 0.4905 0.03678 0.004864 0.6124
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4857 0.2004 0.2956 0.03723 0.2475 0.1488
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4616 0.04821 0.008977 0.2294 0.1131 0.7971
Q(ilm)

0.5733

mode	liq	bi	g	pl	ilm	ky	q
	0.3563	0.004140	0.2055	0.2047	0.01827	0	0.2111

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.30 915.3 0.1223 0.3387 0.4893 0.03715 0.004845 0.6113
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4859 0.1990 0.2945 0.03710 0.2489 0.1482
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4596 0.04889 0.009066 0.2265 0.1155 0.7985
Q(ilm)

0.575

mode	liq	bi	g	pl	ilm	ky	q
	0.3570	0.002444	0.2069	0.2046	0.01838	0	0.2107

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 916.3 0.1219 0.3387 0.4881 0.03753 0.004826 0.6103
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4862 0.1975 0.2933 0.03698 0.2502 0.1476
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4576 0.04959 0.009155 0.2236 0.1179 0.7998

Q(ilm)

0.5767

mode liq bi g pl ilm ky q

0.35760 0.0007424 0.2082 0.2045 0.01849 0 0.2104

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O

6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.00 859.0 0.1382 0.3270 0.5695 0.02130 0.005012 0.6569

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4891 0.2743 0.3479 0.04286 0.1864 0.1730

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5566 0.02627 0.006024 0.3127 0.05346 0.6784

Q(ilm)

0.3733

mode liq bi g pl ilm ru ky q

0.3102 0.07734 0.1520 0.2149 0.01157 0.001435 0 0.2325

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.10 859.8 0.1375 0.3272 0.5673 0.02154 0.005010 0.6570

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4897 0.2736 0.3466 0.04316 0.1868 0.1731

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5561 0.02682 0.006133 0.3110 0.05438 0.6689

Q(ilm)

0.3474

mode liq bi g pl ilm ru ky q

0.3104 0.07610 0.1534 0.2150 0.01128 0.001608 0 0.2322

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.20 860.7 0.1369 0.3274 0.5652 0.02177 0.005007 0.6569

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4902 0.2730 0.3453 0.04346 0.1872 0.1732

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5556 0.02738 0.006242 0.3094 0.05531 0.6590

Q(ilm)

0.3179

mode liq bi g pl ilm ru ky q

0.3106 0.07487 0.1548 0.2151 0.01099 0.001779 0 0.2319

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.30 861.5 0.1363 0.3276 0.5630 0.02201 0.005003 0.6569
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4908 0.2723 0.3440 0.04374 0.1876 0.1732
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5551 0.02795 0.006351 0.3077 0.05626 0.6484
 Q(ilm)
 0.2837

mode liq bi g pl ilm ru ky q
 0.3107 0.07364 0.1562 0.2151 0.01069 0.001951 0 0.2317

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.40 862.3 0.1357 0.3277 0.5609 0.02225 0.004997 0.6569
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4914 0.2717 0.3427 0.04401 0.1880 0.1733
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5547 0.02853 0.006461 0.3059 0.05723 0.6370
 Q(ilm)
 0.2422

mode liq bi g pl ilm ru ky q
 0.3108 0.07241 0.1576 0.2152 0.01040 0.002122 0 0.2314

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.50 863.1 0.1350 0.3278 0.5587 0.02248 0.004992 0.6569
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4921 0.2710 0.3414 0.04427 0.1884 0.1735
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5542 0.02912 0.006571 0.3042 0.05821 0.6248
 Q(ilm)
 0.188

mode liq bi g pl ilm ru ky q
 0.3109 0.07119 0.1590 0.2153 0.01010 0.002295 0 0.2312

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.60 863.9 0.1344 0.3279 0.5566 0.02272 0.004985 0.6569
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4927 0.2704 0.3401 0.04452 0.1887 0.1736
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5537 0.02973 0.006682 0.3024 0.05921 0.6116
 Q(ilm)
 0.1023

mode liq bi g pl ilm ru ky q
 0.3110 0.06998 0.1604 0.2154 0.009806 0.002470 0 0.2310

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.70 864.8 0.1339 0.3281 0.5543 0.02298 0.004980 0.6565

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4931 0.2693 0.3388 0.04481 0.1892 0.1736
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5527 0.03030 0.006804 0.3006 0.06026 0.6042
Q(ilm)

0.004722

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3115	0.06855	0.1618	0.2154	0.009646	0.002579	0	0.2306

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 865.9 0.1334 0.3284 0.5520 0.02326 0.004976 0.6560
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4934 0.2680 0.3373 0.04512 0.1898 0.1735
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5512 0.03086 0.006934 0.2988 0.06135 0.6014
Q(ilm)

0.001837

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3122	0.06698	0.1632	0.2153	0.009582	0.002645	0	0.2302

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 866.9 0.1329 0.3286 0.5496 0.02354 0.004971 0.6554
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4936 0.2666 0.3359 0.04544 0.1903 0.1733
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5497 0.03143 0.007068 0.2971 0.06246 0.5985
Q(ilm)

0.001137

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3128	0.06540	0.1646	0.2152	0.009518	0.002711	0	0.2297

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 867.9 0.1324 0.3288 0.5473 0.02383 0.004965 0.6547
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4939 0.2653 0.3345 0.04576 0.1909 0.1732
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5482 0.03201 0.007204 0.2952 0.06359 0.5956
Q(ilm)

0.000822

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3135	0.06382	0.1660	0.2152	0.009455	0.002776	0	0.2293

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.10 868.9 0.1319 0.3291 0.5449 0.02411 0.004958 0.6541
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4942 0.2639 0.3331 0.04607 0.1914 0.1731

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5467 0.03260 0.007342 0.2934 0.06475 0.5928
Q(ilm)

0.000642

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3141	0.06224	0.1674	0.2151	0.009393	0.002842	0	0.2289

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 869.9 0.1314 0.3293 0.5426 0.02439 0.004951 0.6535
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4945 0.2626 0.3316 0.04639 0.1919 0.1730
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5453 0.03319 0.007483 0.2915 0.06593 0.5899
Q(ilm)

0.000526

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3148	0.06066	0.1688	0.2151	0.009331	0.002907	0	0.2284

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.30 870.9 0.1309 0.3294 0.5403 0.02468 0.004942 0.6528
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4948 0.2612 0.3302 0.04670 0.1925 0.1729
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5438 0.03380 0.007627 0.2896 0.06713 0.5870
Q(ilm)

0.000445

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3154	0.05907	0.1702	0.2150	0.009269	0.002973	0	0.2280

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 871.8 0.1304 0.3296 0.5380 0.02496 0.004933 0.6522
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4951 0.2598 0.3288 0.04702 0.1930 0.1728
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5423 0.03442 0.007774 0.2876 0.06836 0.5841
Q(ilm)

0.000386

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3160	0.05748	0.1717	0.2150	0.009208	0.003038	0	0.2276

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 872.8 0.1299 0.3298 0.5357 0.02525 0.004923 0.6515
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4954 0.2585 0.3274 0.04733 0.1935 0.1727
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5408 0.03506 0.007923 0.2856 0.06961 0.5813

Q(ilm)

0.00034

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3166	0.05589	0.1731	0.2150	0.009148	0.003104	0	0.2272

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	873.7	0.1294	0.3299	0.5334	0.02553	0.004912	0.6509
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4957	0.2571	0.3259	0.04764	0.1940	0.1725
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5393	0.03570	0.008076	0.2835	0.07090	0.5784

Q(ilm)

0.000303

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3172	0.05430	0.1745	0.2150	0.009087	0.003169	0	0.2268

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.70	874.7	0.1289	0.3301	0.5311	0.02582	0.004900	0.6502
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4961	0.2558	0.3245	0.04795	0.1945	0.1724
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5378	0.03635	0.008231	0.2814	0.07221	0.5755

Q(ilm)

0.000274

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3177	0.05270	0.1760	0.2149	0.009027	0.003235	0	0.2264

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	875.6	0.1284	0.3302	0.5289	0.02610	0.004887	0.6495
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4964	0.2544	0.3231	0.04827	0.1950	0.1723
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5363	0.03702	0.008390	0.2793	0.07355	0.5726

Q(ilm)

0.000249

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3183	0.05110	0.1775	0.2149	0.008968	0.003301	0	0.2260

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.90	876.5	0.1279	0.3303	0.5266	0.02639	0.004874	0.6488
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4968	0.2530	0.3217	0.04858	0.1955	0.1721
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5348	0.03770	0.008552	0.2771	0.07492	0.5697

Q(ilm)

0.000228

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3188	0.04949	0.1789	0.2149	0.008909	0.003367	0	0.2256

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	877.4	0.1274	0.3304	0.5244	0.02668	0.004860	0.6481
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4971	0.2517	0.3203	0.04889	0.1960	0.1720	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5333	0.03839	0.008717	0.2749	0.07633	0.5668	
	Q(ilm)						

0.000211

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3194	0.04788	0.1804	0.2149	0.008850	0.003433	0	0.2252

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.10	878.3	0.1269	0.3305	0.5222	0.02696	0.004845	0.6473
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4975	0.2503	0.3189	0.04920	0.1964	0.1718	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5318	0.03909	0.008886	0.2726	0.07777	0.5639	
	Q(ilm)						

0.000196

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3199	0.04626	0.1819	0.2149	0.008791	0.003499	0	0.2248

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	879.1	0.1264	0.3306	0.5200	0.02725	0.004829	0.6466
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4979	0.2489	0.3175	0.04951	0.1969	0.1717	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5303	0.03981	0.009058	0.2703	0.07925	0.5610	
	Q(ilm)						

0.000182

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3204	0.04464	0.1834	0.2149	0.008732	0.003565	0	0.2244

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.30	880.0	0.1259	0.3307	0.5178	0.02753	0.004812	0.6458
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4983	0.2476	0.3160	0.04982	0.1974	0.1715	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5288	0.04053	0.009233	0.2680	0.08077	0.5581	
	Q(ilm)						

0.000171

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.3209 0.04301 0.1849 0.2149 0.008674 0.003632 0 0.2240

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 880.9 0.1254 0.3307 0.5156 0.02782 0.004795 0.6451
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4987 0.2462 0.3146 0.05013 0.1978 0.1714
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5273 0.04128 0.009413 0.2656 0.08233 0.5552
Q(ilm)
0.00016

mode liq bi g pl ilm ru ky q
0.3214 0.04137 0.1864 0.2149 0.008616 0.003698 0 0.2236

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 881.7 0.1249 0.3308 0.5135 0.02810 0.004777 0.6443
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4991 0.2448 0.3132 0.05044 0.1983 0.1712
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5257 0.04203 0.009596 0.2631 0.08393 0.5523
Q(ilm)
0.000151

mode liq bi g pl ilm ru ky q
0.3219 0.03972 0.1880 0.2149 0.008558 0.003765 0 0.2233

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 882.5 0.1243 0.3308 0.5113 0.02839 0.004758 0.6435
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4996 0.2435 0.3118 0.05075 0.1987 0.1710
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5242 0.04280 0.009783 0.2606 0.08558 0.5494
Q(ilm)
0.000143

mode liq bi g pl ilm ru ky q
0.3223 0.03806 0.1895 0.2149 0.008500 0.003833 0 0.2229

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.70 883.3 0.1238 0.3308 0.5092 0.02867 0.004738 0.6427
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5000 0.2421 0.3104 0.05105 0.1992 0.1708
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5226 0.04358 0.009974 0.2581 0.08728 0.5465
Q(ilm)
0.000135

mode liq bi g pl ilm ru ky q
0.3228 0.03640 0.1911 0.2149 0.008442 0.003900 0 0.2225

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 884.1 0.1233 0.3308 0.5071 0.02895 0.004718 0.6419
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5005 0.2407 0.3090 0.05136 0.1996 0.1707
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5211 0.04437 0.01017 0.2555 0.08903 0.5435
 Q(ilm)
 0.000128

mode liq bi g pl ilm ru ky q
 0.3233 0.03472 0.1926 0.2149 0.008384 0.003968 0 0.2221

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.90 884.9 0.1228 0.3308 0.5051 0.02924 0.004697 0.6411
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5009 0.2393 0.3076 0.05167 0.2001 0.1705
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5195 0.04518 0.01037 0.2529 0.09083 0.5406
 Q(ilm)
 0.000122

mode liq bi g pl ilm ru ky q
 0.3237 0.03304 0.1942 0.2149 0.008326 0.004036 0 0.2218

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 885.7 0.1223 0.3308 0.5031 0.02952 0.004676 0.6402
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5014 0.2379 0.3062 0.05198 0.2005 0.1703
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5179 0.04600 0.01057 0.2502 0.09269 0.5377
 Q(ilm)
 0.000116

mode liq bi g pl ilm ru ky q
 0.3242 0.03134 0.1959 0.2149 0.008268 0.004104 0 0.2214

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.10 886.5 0.1217 0.3308 0.5011 0.02980 0.004654 0.6394
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5019 0.2365 0.3048 0.05228 0.2009 0.1701
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5164 0.04683 0.01078 0.2475 0.09462 0.5348
 Q(ilm)
 0.000111

mode liq bi g pl ilm ru ky q
 0.3246 0.02963 0.1975 0.2149 0.008210 0.004173 0 0.2210

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 887.3 0.1212 0.3308 0.4991 0.03008 0.004632 0.6385

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5024 0.2351 0.3035 0.05259 0.2013 0.1698
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5148 0.04768 0.01099 0.2447 0.09661 0.5318
Q(ilm)

0.000106

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3250	0.02791	0.1991	0.2149	0.008152	0.004242	0	0.2206	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.30 888.1 0.1207 0.3308 0.4972 0.03036 0.004609 0.6376
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5029 0.2337 0.3021 0.05289 0.2017 0.1696
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5132 0.04855 0.01121 0.2418 0.09867 0.5289
Q(ilm)

0.000102

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3254	0.02618	0.2008	0.2150	0.008094	0.004311	0	0.2203	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 888.8 0.1201 0.3308 0.4953 0.03064 0.004586 0.6367
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5034 0.2323 0.3007 0.05320 0.2021 0.1694
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5116 0.04943 0.01144 0.2389 0.1008 0.5260
Q(ilm)

9.75E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3258	0.02444	0.2024	0.2150	0.008036	0.004381	0	0.2199	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50 889.6 0.1195 0.3307 0.4935 0.03092 0.004562 0.6358
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5040 0.2309 0.2994 0.05350 0.2026 0.1691
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5099 0.05032 0.01166 0.2360 0.1030 0.5231
Q(ilm)

9.37E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3262	0.02267	0.2041	0.2150	0.007978	0.004451	0	0.2196	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 890.3 0.1190 0.3307 0.4917 0.03120 0.004538 0.6348
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5045 0.2295 0.2980 0.05381 0.2030 0.1689

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5083 0.05123 0.01190 0.2330 0.1053 0.5201
Q(ilm)

9.01E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3266	0.02089	0.2059	0.2150	0.007919	0.004522	0	0.2192

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 891.1 0.1184 0.3306 0.4900 0.03148 0.004513 0.6339
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5051 0.2281 0.2966 0.05411 0.2033 0.1686
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5066 0.05216 0.01214 0.2299 0.1078 0.5172
Q(ilm)

8.67E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3269	0.01909	0.2076	0.2151	0.007860	0.004593	0	0.2188

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 891.8 0.1178 0.3305 0.4884 0.03176 0.004488 0.6329
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5057 0.2266 0.2953 0.05441 0.2037 0.1683
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5049 0.05310 0.01238 0.2267 0.1103 0.5143
Q(ilm)

8.35E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3273	0.01727	0.2094	0.2151	0.007800	0.004665	0	0.2185

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90 892.5 0.1173 0.3304 0.4868 0.03203 0.004463 0.6319
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5063 0.2252 0.2939 0.05472 0.2041 0.1680
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5033 0.05406 0.01263 0.2235 0.1129 0.5113
Q(ilm)

8.05E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3277	0.01543	0.2112	0.2151	0.007741	0.004738	0	0.2181

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 893.3 0.1167 0.3303 0.4852 0.03231 0.004436 0.6309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5069 0.2237 0.2926 0.05502 0.2045 0.1678
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5015 0.05504 0.01289 0.2202 0.1156 0.5083

Q(ilm)

7.77E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3280	0.01357	0.2130	0.2152	0.007680	0.004811	0	0.2178

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.10	894.0	0.1161	0.3302	0.4838	0.03258	0.004410	0.6299
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5075	0.2223	0.2912	0.05533	0.2049	0.1674
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4998	0.05603	0.01315	0.2169	0.1185	0.5054

Q(ilm)

7.51E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3283	0.01168	0.2148	0.2152	0.007619	0.004886	0	0.2174

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	894.7	0.1155	0.3301	0.4824	0.03285	0.004382	0.6288
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5082	0.2208	0.2899	0.05563	0.2052	0.1671
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4980	0.05704	0.01342	0.2134	0.1216	0.5024

Q(ilm)

7.26E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3287	0.009757	0.2167	0.2153	0.007558	0.004961	0	0.2170

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.30	895.4	0.1149	0.3299	0.4811	0.03313	0.004354	0.6277
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5088	0.2193	0.2885	0.05594	0.2056	0.1668
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4963	0.05808	0.01370	0.2099	0.1248	0.4994

Q(ilm)

7.02E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3290	0.007805	0.2186	0.2153	0.007496	0.005037	0	0.2167

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	896.1	0.1143	0.3298	0.4800	0.03340	0.004326	0.6266
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5095	0.2178	0.2871	0.05625	0.2059	0.1665
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4944	0.05913	0.01399	0.2063	0.1282	0.4964

Q(ilm)

6.79E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3293	0.005819	0.2206	0.2154	0.007432	0.005115	0	0.2163

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.50	896.7	0.1136	0.3296	0.4789	0.03367	0.004297	0.6254
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5103	0.2163	0.2858	0.05656	0.2063	0.1661
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4926	0.06021	0.01428	0.2026	0.1318	0.4933
		Q(ilm)					

6.58E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3296	0.003794	0.2226	0.2155	0.007368	0.005194	0	0.2159

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	897.4	0.1130	0.3294	0.4780	0.03393	0.004267	0.6243
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5110	0.2147	0.2844	0.05687	0.2066	0.1657
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4907	0.06132	0.01459	0.1987	0.1356	0.4903
		Q(ilm)					

6.37E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3299	0.001725	0.2247	0.2156	0.007303	0.005274	0	0.2156

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, pl, ilm, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	900.1	0.2127	0.3607	0.5717	0.02562	0.02431	0.5800
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3583	0.2022	0.1804	0.03717	0.2130	0.1988
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4295	0.01933	0.009629	0.4454	0.02980	0.7959
		Q(ilm)					

0.5815

mode	liq	bi	g	pl	ilm	q
	0.5654	0	0.1645	0.1335	0.01869	0.1179

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.10	900.8	0.2114	0.3611	0.5711	0.02576	0.02406	0.5806
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)

0.3595 0.2022 0.1811 0.03716 0.2136 0.1983
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4299 0.01959 0.009643 0.4429 0.03034 0.7960
Q(ilm)

0.5812

mode	liq	bi	g	pl	ilm	q
	0.5628	0	0.1652	0.1340	0.01868	0.1194

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 901.5 0.2101 0.3615 0.5705 0.02589 0.02380 0.5813
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3606 0.2023 0.1819 0.03716 0.2142 0.1979
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4303 0.01987 0.009656 0.4405 0.03088 0.7961
Q(ilm)

0.5809

mode	liq	bi	g	pl	ilm	q
	0.5603	0	0.1658	0.1344	0.01868	0.1208

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 902.2 0.2088 0.3619 0.5699 0.02603 0.02355 0.5819
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3618 0.2024 0.1827 0.03715 0.2148 0.1974
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4306 0.02014 0.009669 0.4380 0.03144 0.7963
Q(ilm)

0.5806

mode	liq	bi	g	pl	ilm	q
	0.5577	0	0.1664	0.1349	0.01868	0.1223

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 902.9 0.2075 0.3623 0.5693 0.02617 0.02330 0.5826
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3630 0.2025 0.1834 0.03714 0.2154 0.1970
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4310 0.02042 0.009682 0.4355 0.03200 0.7964
Q(ilm)

0.5803

mode	liq	bi	g	pl	ilm	q
	0.5552	0	0.1671	0.1353	0.01867	0.1238

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 903.6 0.2062 0.3627 0.5687 0.02630 0.02305 0.5832
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3641 0.2025 0.1842 0.03714 0.2160 0.1965
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4314 0.02070 0.009695 0.4329 0.03258 0.7965
Q(ilm)

0.58

mode	liq	bi	g	pl	ilm	q
	0.5526	0	0.1677	0.1358	0.01867	0.1252

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 904.3 0.2049 0.3630 0.5681 0.02644 0.02280 0.5839
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3653 0.2026 0.1849 0.03713 0.2166 0.1961
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4318 0.02098 0.009708 0.4304 0.03316 0.7966
Q(ilm)

0.5797

mode	liq	bi	g	pl	ilm	q
	0.5501	0	0.1684	0.1362	0.01867	0.1266

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 904.9 0.2037 0.3634 0.5675 0.02658 0.02255 0.5845
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3665 0.2026 0.1857 0.03712 0.2172 0.1956
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4321 0.02127 0.009721 0.4278 0.03376 0.7967
Q(ilm)

0.5795

mode	liq	bi	g	pl	ilm	q
	0.5476	0	0.1690	0.1367	0.01866	0.1280

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 905.6 0.2024 0.3637 0.5668 0.02672 0.02230 0.5851
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3677 0.2027 0.1865 0.03712 0.2178 0.1951
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4325 0.02156 0.009734 0.4253 0.03437 0.7968
Q(ilm)

0.5792

mode	liq	bi	g	pl	ilm	q
	0.5451	0	0.1696	0.1372	0.01866	0.1294

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 906.2 0.2012 0.3640 0.5662 0.02685 0.02205 0.5858
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3689 0.2028 0.1873 0.03711 0.2183 0.1947
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4329 0.02185 0.009747 0.4227 0.03499 0.7969
Q(ilm)

0.5789

mode	liq	bi	g	pl	ilm	q
	0.5427	0	0.1702	0.1377	0.01866	0.1308

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.00	906.8	0.2000	0.3643	0.5655	0.02699	0.02180	0.5864
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3700	0.2028	0.1880	0.03710	0.2189	0.1942
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4332	0.02214	0.009760	0.4201	0.03562	0.7970
		Q(ilm)					

0.5787

mode	liq	bi	g	pl	ilm	q
	0.5402	0	0.1708	0.1382	0.01865	0.1321

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.10	907.5	0.1988	0.3646	0.5648	0.02713	0.02155	0.5870
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3712	0.2029	0.1888	0.03709	0.2195	0.1938
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4336	0.02244	0.009773	0.4175	0.03626	0.7971
		Q(ilm)					

0.5784

mode	liq	bi	g	pl	ilm	q
	0.5377	0	0.1715	0.1387	0.01865	0.1334

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.20	908.1	0.1976	0.3648	0.5642	0.02727	0.02131	0.5876
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3724	0.2029	0.1896	0.03709	0.2201	0.1933
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4340	0.02274	0.009786	0.4148	0.03691	0.7973
		Q(ilm)					

0.5781

mode	liq	bi	g	pl	ilm	q
	0.5353	0	0.1721	0.1392	0.01864	0.1348

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.30	908.7	0.1964	0.3651	0.5635	0.02741	0.02106	0.5882
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3736	0.2030	0.1904	0.03708	0.2206	0.1928
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4343	0.02304	0.009798	0.4122	0.03757	0.7974
		Q(ilm)					

0.5779

mode	liq	bi	g	pl	ilm	q
	0.5329	0	0.1727	0.1398	0.01864	0.1361

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.40 909.3 0.1952 0.3653 0.5628 0.02755 0.02081 0.5888

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3748 0.2030 0.1912 0.03707 0.2212 0.1924

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4347 0.02335 0.009811 0.4095 0.03825 0.7975

Q(ilm)

0.5776

mode	liq	bi	g	pl	ilm	q
	0.5304	0	0.1733	0.1403	0.01864	0.1374

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.50 909.9 0.1940 0.3655 0.5621 0.02769 0.02057 0.5893

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3760 0.2030 0.1920 0.03706 0.2218 0.1919

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4351 0.02366 0.009823 0.4069 0.03893 0.7976

Q(ilm)

0.5774

mode	liq	bi	g	pl	ilm	q
	0.5280	0	0.1739	0.1408	0.01863	0.1386

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.60 910.5 0.1929 0.3657 0.5614 0.02783 0.02032 0.5899

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3772 0.2031 0.1928 0.03706 0.2224 0.1915

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4354 0.02397 0.009835 0.4042 0.03963 0.7977

Q(ilm)

0.5772

mode	liq	bi	g	pl	ilm	q
	0.5256	0	0.1745	0.1414	0.01863	0.1399

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.70 911.0 0.1917 0.3659 0.5607 0.02798 0.02008 0.5905

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3784 0.2031 0.1936 0.03705 0.2229 0.1910

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4358 0.02428 0.009847 0.4015 0.04035 0.7978

Q(ilm)

0.5769

mode	liq	bi	g	pl	ilm	q
	0.5232	0	0.1751	0.1419	0.01863	0.1412

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.80	911.6	0.1906	0.3661	0.5599	0.02812	0.01983	0.5911
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3796	0.2031	0.1944	0.03704	0.2235	0.1905	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4361	0.02460	0.009859	0.3988	0.04107	0.7979	
	Q(ilm)						
	0.5767						

mode	liq	bi	g	pl	ilm	q
	0.5208	0	0.1757	0.1425	0.01862	0.1424

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.90	912.1	0.1894	0.3662	0.5592	0.02826	0.01959	0.5916
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3809	0.2032	0.1952	0.03703	0.2240	0.1901	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4365	0.02492	0.009871	0.3961	0.04181	0.7980	
	Q(ilm)						
	0.5765						

mode	liq	bi	g	pl	ilm	q
	0.5184	0	0.1763	0.1431	0.01862	0.1436

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.00	912.7	0.1883	0.3664	0.5584	0.02840	0.01934	0.5922
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3821	0.2032	0.1960	0.03703	0.2246	0.1896	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4369	0.02524	0.009883	0.3934	0.04256	0.7981	
	Q(ilm)						
	0.5763						

mode	liq	bi	g	pl	ilm	q
	0.5160	0	0.1768	0.1437	0.01862	0.1449

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.10	913.2	0.1872	0.3665	0.5577	0.02854	0.01910	0.5927
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3833	0.2032	0.1969	0.03702	0.2252	0.1891	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4372	0.02556	0.009894	0.3906	0.04332	0.7982	
	Q(ilm)						
	0.5761						

mode	liq	bi	g	pl	ilm	q
	0.5136	0	0.1774	0.1443	0.01861	0.1461

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

8.20 913.7 0.1861 0.3666 0.5569 0.02869 0.01886 0.5932
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3846 0.2033 0.1977 0.03701 0.2257 0.1887
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4376 0.02589 0.009906 0.3879 0.04410 0.7983
 Q(ilm)
 0.5759

mode	liq	bi	g	pl	ilm	q
	0.5113	0	0.1780	0.1449	0.01861	0.1473

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.30 914.3 0.1849 0.3667 0.5561 0.02883 0.01861 0.5938
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3858 0.2033 0.1985 0.03700 0.2263 0.1882
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4379 0.02622 0.009917 0.3851 0.04489 0.7984
 Q(ilm)
 0.5757

mode	liq	bi	g	pl	ilm	q
	0.5089	0	0.1786	0.1455	0.01861	0.1484

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.40 914.8 0.1838 0.3668 0.5554 0.02897 0.01837 0.5943
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3870 0.2033 0.1994 0.03700 0.2268 0.1877
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4383 0.02656 0.009927 0.3824 0.04569 0.7985
 Q(ilm)
 0.5755

mode	liq	bi	g	pl	ilm	q
	0.5065	0	0.1792	0.1461	0.01860	0.1496

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.50 915.2 0.1828 0.3668 0.5546 0.02912 0.01813 0.5948
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3883 0.2033 0.2003 0.03699 0.2273 0.1872
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4386 0.02689 0.009938 0.3796 0.04651 0.7986
 Q(ilm)
 0.5753

mode	liq	bi	g	pl	ilm	q
	0.5041	0	0.1797	0.1467	0.01860	0.1508

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.60 915.7 0.1817 0.3669 0.5538 0.02926 0.01789 0.5953
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3896 0.2033 0.2011 0.03698 0.2279 0.1868
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4390 0.02723 0.009948 0.3768 0.04734 0.7987
Q(ilm)

0.5752

mode	liq	bi	g	pl	ilm	q
	0.5018	0	0.1803	0.1474	0.01860	0.1519

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.70 916.2 0.1806 0.3669 0.5529 0.02940 0.01765 0.5958
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3908 0.2033 0.2020 0.03698 0.2284 0.1863
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4394 0.02757 0.009958 0.3740 0.04819 0.7988
Q(ilm)

0.575

mode	liq	bi	g	pl	ilm	q
	0.4994	0	0.1809	0.1480	0.01859	0.1531

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 916.6 0.1795 0.3669 0.5521 0.02955 0.01741 0.5963
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3921 0.2033 0.2029 0.03697 0.2290 0.1858
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4397 0.02792 0.009968 0.3712 0.04905 0.7989
Q(ilm)

0.5748

mode	liq	bi	g	pl	ilm	q
	0.4970	0	0.1814	0.1487	0.01859	0.1542

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.90 917.1 0.1784 0.3669 0.5513 0.02969 0.01716 0.5968
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3934 0.2033 0.2038 0.03696 0.2295 0.1853
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4401 0.02826 0.009977 0.3684 0.04992 0.7990
Q(ilm)

0.5747

mode	liq	bi	g	pl	ilm	q
	0.4947	0	0.1820	0.1494	0.01859	0.1554

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 917.5 0.1774 0.3669 0.5504 0.02984 0.01692 0.5973
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3947 0.2033 0.2047 0.03696 0.2300 0.1848
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4404 0.02861 0.009987 0.3656 0.05081 0.7991
Q(ilm)

0.5745

mode	liq	bi	g	pl	ilm	q
	0.4923	0	0.1826	0.1501	0.01859	0.1565

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.10 918.0 0.1763 0.3668 0.5496 0.02998 0.01668 0.5977
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3960 0.2033 0.2056 0.03695 0.2305 0.1843
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4408 0.02896 0.009995 0.3628 0.05171 0.7992
Q(ilm)

0.5744

mode	liq	bi	g	pl	ilm	q
	0.4899	0	0.1831	0.1508	0.01858	0.1576

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 918.4 0.1753 0.3668 0.5487 0.03013 0.01644 0.5982
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3973 0.2033 0.2065 0.03694 0.2310 0.1838
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4411 0.02932 0.01000 0.3600 0.05263 0.7993
Q(ilm)

0.5743

mode	liq	bi	g	pl	ilm	q
	0.4876	0	0.1837	0.1515	0.01858	0.1587

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.30 918.8 0.1742 0.3667 0.5478 0.03027 0.01621 0.5987
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3986 0.2033 0.2075 0.03694 0.2316 0.1833
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4415 0.02968 0.01001 0.3572 0.05356 0.7994
Q(ilm)

0.5741

mode	liq	bi	g	pl	ilm	q
	0.4852	0	0.1842	0.1522	0.01858	0.1598

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 919.2 0.1732 0.3666 0.5469 0.03042 0.01597 0.5991
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4000 0.2033 0.2084 0.03693 0.2321 0.1828
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4418 0.03004 0.01002 0.3543 0.05451 0.7995
Q(ilm)

0.574

mode	liq	bi	g	pl	ilm	q
	0.4828	0	0.1848	0.1529	0.01857	0.1609

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.50	919.5	0.1721	0.3665	0.5460	0.03056	0.01573	0.5996
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4013	0.2033	0.2094	0.03693	0.2326	0.1823
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4422	0.03040	0.01003	0.3515	0.05548	0.7996
		Q(ilm)					

0.5739

mode	liq	bi	g	pl	ilm	q
	0.4805	0	0.1853	0.1537	0.01857	0.1620

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.60	919.9	0.1711	0.3664	0.5451	0.03071	0.01549	0.6000
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4027	0.2033	0.2104	0.03692	0.2331	0.1818
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4425	0.03076	0.01003	0.3487	0.05646	0.7997
		Q(ilm)					

0.5738

mode	liq	bi	g	pl	ilm	q
	0.4781	0	0.1859	0.1544	0.01857	0.1630

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.70	920.2	0.1701	0.3662	0.5442	0.03085	0.01525	0.6004
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4040	0.2032	0.2114	0.03692	0.2336	0.1813
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4428	0.03113	0.01004	0.3458	0.05745	0.7998
		Q(ilm)					

0.5737

mode	liq	bi	g	pl	ilm	q
	0.4757	0	0.1864	0.1552	0.01856	0.1641

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.80	920.6	0.1691	0.3661	0.5433	0.03100	0.01501	0.6009
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4054	0.2032	0.2124	0.03692	0.2341	0.1808
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4432	0.03150	0.01005	0.3430	0.05846	0.7999
		Q(ilm)					

0.5736

mode	liq	bi	g	pl	ilm	q
	0.4733	0	0.1870	0.1560	0.01856	0.1652

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.90	920.9	0.1680	0.3659	0.5423	0.03115	0.01478	0.6013
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4068	0.2032	0.2134	0.03691	0.2345	0.1803	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4435	0.03187	0.01005	0.3402	0.05949	0.8000	
	Q(ilm)						
	0.5735						

mode	liq	bi	g	pl	ilm	q
	0.4709	0	0.1875	0.1567	0.01856	0.1662

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	921.2	0.1670	0.3657	0.5414	0.03129	0.01454	0.6017
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4082	0.2032	0.2144	0.03691	0.2350	0.1798	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4439	0.03225	0.01006	0.3373	0.06053	0.8000	
	Q(ilm)						
	0.5735						

mode	liq	bi	g	pl	ilm	q
	0.4686	0	0.1881	0.1575	0.01856	0.1673

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.10	921.5	0.1660	0.3655	0.5404	0.03144	0.01430	0.6021
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4096	0.2031	0.2155	0.03690	0.2355	0.1793	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4442	0.03263	0.01006	0.3345	0.06159	0.8001	
	Q(ilm)						
	0.5734						

mode	liq	bi	g	pl	ilm	q
	0.4662	0	0.1886	0.1583	0.01855	0.1683

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	921.8	0.1650	0.3653	0.5394	0.03158	0.01406	0.6025
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4110	0.2031	0.2166	0.03690	0.2360	0.1787	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4445	0.03301	0.01006	0.3316	0.06266	0.8002	
	Q(ilm)						
	0.5733						

mode	liq	bi	g	pl	ilm	q
	0.4638	0	0.1891	0.1592	0.01855	0.1694

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.30	922.1	0.1640	0.3650	0.5384	0.03173	0.01383	0.6029
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4125	0.2030	0.2177	0.03690	0.2364	0.1782
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4449	0.03339	0.01007	0.3288	0.06375	0.8003
		Q(ilm)					
		0.5733					

mode	liq	bi	g	pl	ilm	q
	0.4614	0	0.1897	0.1600	0.01855	0.1704

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	922.3	0.1630	0.3648	0.5374	0.03188	0.01359	0.6032
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4139	0.2030	0.2188	0.03690	0.2369	0.1776
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4452	0.03377	0.01007	0.3260	0.06486	0.8004
		Q(ilm)					
		0.5732					

mode	liq	bi	g	pl	ilm	q
	0.4590	0	0.1902	0.1608	0.01855	0.1714

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.50	922.6	0.1619	0.3645	0.5364	0.03202	0.01336	0.6036
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4154	0.2029	0.2199	0.03690	0.2374	0.1771
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4456	0.03416	0.01007	0.3231	0.06598	0.8004
		Q(ilm)					
		0.5732					

mode	liq	bi	g	pl	ilm	q
	0.4565	0	0.1907	0.1617	0.01854	0.1725

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	922.8	0.1609	0.3642	0.5354	0.03217	0.01312	0.6040
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4169	0.2029	0.2211	0.03689	0.2378	0.1766
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4459	0.03454	0.01007	0.3203	0.06712	0.8005
		Q(ilm)					
		0.5731					

mode	liq	bi	g	pl	ilm	q
	0.4541	0	0.1913	0.1626	0.01854	0.1735

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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10.70  923.0  0.1599  0.3639  0.5344  0.03231  0.01288  0.6043
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4184  0.2028  0.2222  0.03689  0.2383  0.1760
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.4462  0.03493 0.01007  0.3175  0.06827  0.8006
      Q(ilm)
0.5731

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mode  liq  bi  g  pl  ilm  q
      0.4517  0  0.1918  0.1635  0.01854  0.1745

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.80  923.2  0.1589  0.3635  0.5333  0.03246  0.01265  0.6047
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4199  0.2028  0.2234  0.03689  0.2387  0.1754
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.4466  0.03533 0.01007  0.3147  0.06944  0.8007
      Q(ilm)
0.5731

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mode  liq  bi  g  pl  ilm  q
      0.4493  0  0.1923  0.1644  0.01854  0.1755

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.90  923.4  0.1579  0.3632  0.5323  0.03261  0.01242  0.6050
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4214  0.2027  0.2246  0.03689  0.2392  0.1749
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.4469  0.03572 0.01007  0.3119  0.07063  0.8007
      Q(ilm)
0.5731

```

```

mode  liq  bi  g  pl  ilm  q
      0.4469  0  0.1928  0.1653  0.01853  0.1765

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.00  923.5  0.1569  0.3628  0.5312  0.03275  0.01218  0.6053
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4229  0.2026  0.2259  0.03689  0.2396  0.1743
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.4472  0.03612 0.01006  0.3090  0.07183  0.8008
      Q(ilm)
0.5731

```

```

mode  liq  bi  g  pl  ilm  q
      0.4444  0  0.1934  0.1662  0.01853  0.1775

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O

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6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 918.9 0.1660 0.3655 0.5398 0.03064 0.01543 0.6102
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4104 0.2112 0.2064 0.04110 0.2265 0.1879
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4572 0.03466 0.01160 0.3321 0.06207 0.7348
Q(ilm)
0.4425

mode liq bi g pl ilm ru q
0.4654 0 0.1927 0.1585 0.01399 0.002211 0.1672

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.10 919.0 0.1649 0.3652 0.5388 0.03073 0.01524 0.6111
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4120 0.2117 0.2068 0.04139 0.2263 0.1879
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4584 0.03525 0.01172 0.3289 0.06328 0.7290
Q(ilm)
0.4289

mode liq bi g pl ilm ru q
0.4628 0 0.1935 0.1594 0.01368 0.002355 0.1683

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 919.1 0.1638 0.3650 0.5377 0.03083 0.01504 0.6120
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4136 0.2121 0.2072 0.04168 0.2262 0.1879
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4595 0.03585 0.01184 0.3256 0.06451 0.7230
Q(ilm)
0.4145

mode liq bi g pl ilm ru q
0.4601 0 0.1944 0.1603 0.01338 0.002498 0.1693

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.30 919.2 0.1627 0.3647 0.5366 0.03092 0.01485 0.6129
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4152 0.2126 0.2077 0.04197 0.2260 0.1879
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4607 0.03645 0.01197 0.3223 0.06577 0.7168
Q(ilm)
0.399

mode liq bi g pl ilm ru q

0.4575 0 0.1953 0.1611 0.01309 0.002640 0.1703

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 919.3 0.1617 0.3644 0.5356 0.03101 0.01466 0.6137
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4168 0.2130 0.2082 0.04225 0.2258 0.1879
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4618 0.03706 0.01209 0.3191 0.06706 0.7103
Q(ilm)
0.3824

mode liq bi g pl ilm ru q
0.4549 0 0.1962 0.1620 0.01279 0.002780 0.1713

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50 919.3 0.1606 0.3641 0.5345 0.03111 0.01446 0.6146
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4185 0.2134 0.2087 0.04253 0.2257 0.1879
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4630 0.03768 0.01221 0.3158 0.06836 0.7036
Q(ilm)
0.3643

mode liq bi g pl ilm ru q
0.4522 0 0.1971 0.1629 0.01250 0.002918 0.1724

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 919.4 0.1595 0.3638 0.5334 0.03120 0.01426 0.6154
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4202 0.2139 0.2092 0.04281 0.2255 0.1879
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4641 0.03830 0.01233 0.3126 0.06970 0.6966
Q(ilm)
0.3446

mode liq bi g pl ilm ru q
0.4496 0 0.1979 0.1639 0.01221 0.003055 0.1734

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70 919.4 0.1584 0.3634 0.5323 0.03129 0.01406 0.6162
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4219 0.2143 0.2097 0.04309 0.2253 0.1879
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4652 0.03894 0.01245 0.3093 0.07106 0.6892
Q(ilm)
0.3228

mode liq bi g pl ilm ru q
0.4469 0 0.1988 0.1648 0.01192 0.003192 0.1744

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.80 919.4 0.1574 0.3631 0.5312 0.03138 0.01385 0.6170
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4236 0.2147 0.2103 0.04336 0.2251 0.1879
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4663 0.03958 0.01257 0.3060 0.07245 0.6815
 Q(ilm)
 0.2983

mode liq bi g pl ilm ru q
 0.4442 0 0.1997 0.1657 0.01164 0.003327 0.1754

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.90 919.4 0.1563 0.3627 0.5300 0.03147 0.01365 0.6177
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4253 0.2151 0.2109 0.04364 0.2249 0.1878
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4674 0.04023 0.01269 0.3027 0.07386 0.6734
 Q(ilm)
 0.2705

mode liq bi g pl ilm ru q
 0.4415 0 0.2006 0.1667 0.01135 0.003462 0.1764

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.00 919.4 0.1552 0.3623 0.5289 0.03156 0.01344 0.6185
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4270 0.2154 0.2114 0.04390 0.2246 0.1878
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4685 0.04088 0.01280 0.2994 0.07530 0.6649
 Q(ilm)
 0.2379

mode liq bi g pl ilm ru q
 0.4388 0 0.2015 0.1676 0.01107 0.003596 0.1774

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.10 919.4 0.1541 0.3618 0.5278 0.03164 0.01323 0.6192
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4288 0.2158 0.2121 0.04417 0.2244 0.1878
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4696 0.04155 0.01292 0.2962 0.07677 0.6559
 Q(ilm)
 0.198

mode liq bi g pl ilm ru q
 0.4361 0 0.2023 0.1686 0.01079 0.003729 0.1784

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.20 919.3 0.1531 0.3614 0.5266 0.03173 0.01302 0.6199

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4306 0.2162 0.2127 0.04443 0.2242 0.1877
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4707 0.04222 0.01303 0.2929 0.07827 0.6463
Q(ilm)

0.1445

mode	liq	bi	g	pl	ilm	ru	q
	0.4334	0	0.2032	0.1696	0.01051	0.003863	0.1794

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.30 919.2 0.1520 0.3609 0.5255 0.03181 0.01280 0.6206
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4324 0.2165 0.2134 0.04468 0.2239 0.1876
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4718 0.04290 0.01314 0.2896 0.07980 0.6364
Q(ilm)

0.04756

mode	liq	bi	g	pl	ilm	ru	q
	0.4307	0	0.2041	0.1706	0.01023	0.003993	0.1804

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 919.1 0.1509 0.3604 0.5243 0.03190 0.01255 0.6211
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4343 0.2166 0.2143 0.04500 0.2237 0.1874
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4724 0.04349 0.01325 0.2864 0.08131 0.6320
Q(ilm)

0.003322

mode	liq	bi	g	pl	ilm	ru	q
	0.4279	0	0.2049	0.1717	0.01010	0.004052	0.1814

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 918.9 0.1498 0.3598 0.5231 0.03199 0.01228 0.6214
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4362 0.2167 0.2154 0.04534 0.2234 0.1870
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4731 0.04407 0.01335 0.2833 0.08284 0.6284
Q(ilm)

0.001608

mode	liq	bi	g	pl	ilm	ru	q
	0.4250	0	0.2056	0.1728	0.009991	0.004101	0.1825

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 918.8 0.1488 0.3593 0.5218 0.03208 0.01202 0.6218
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4381 0.2168 0.2165 0.04567 0.2231 0.1867

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4737 0.04466 0.01345 0.2801 0.08439 0.6248
Q(ilm)

0.001054

mode	liq	bi	g	pl	ilm	ru	q
	0.4222	0	0.2064	0.1739	0.009882	0.004149	0.1835

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.70 918.6 0.1477 0.3587 0.5206 0.03216 0.01175 0.6221
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4401 0.2168 0.2177 0.04601 0.2228 0.1863
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4743 0.04525 0.01355 0.2770 0.08597 0.6211
Q(ilm)

0.000779

mode	liq	bi	g	pl	ilm	ru	q
	0.4194	0	0.2071	0.1750	0.009774	0.004196	0.1846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 918.3 0.1466 0.3580 0.5193 0.03225 0.01148 0.6224
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4420 0.2169 0.2189 0.04635 0.2225 0.1859
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4749 0.04584 0.01365 0.2739 0.08757 0.6174
Q(ilm)

0.000616

mode	liq	bi	g	pl	ilm	ru	q
	0.4165	0	0.2078	0.1762	0.009667	0.004243	0.1856

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.90 918.1 0.1455 0.3574 0.5180 0.03233 0.01122 0.6228
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4440 0.2169 0.2201 0.04670 0.2221 0.1855
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4755 0.04644 0.01375 0.2708 0.08919 0.6136
Q(ilm)

0.000507

mode	liq	bi	g	pl	ilm	ru	q
	0.4136	0	0.2086	0.1773	0.009561	0.004290	0.1866

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 917.8 0.1444 0.3567 0.5167 0.03241 0.01095 0.6230
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4461 0.2169 0.2214 0.04705 0.2218 0.1851
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4761 0.04703 0.01384 0.2677 0.09084 0.6098

Q(ilm)

0.000429

mode	liq	bi	g	pl	ilm	ru	q
	0.4107	0	0.2093	0.1785	0.009457	0.004335	0.1877

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 917.5 0.1433 0.3560 0.5154 0.03249 0.01068 0.6233

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4481 0.2169 0.2227 0.04740 0.2214 0.1847

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4767 0.04763 0.01394 0.2646 0.09251 0.6060

Q(ilm)

0.000371

mode	liq	bi	g	pl	ilm	ru	q
	0.4078	0	0.2100	0.1797	0.009354	0.004381	0.1887

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 917.1 0.1422 0.3553 0.5141 0.03257 0.01041 0.6236

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4502 0.2169 0.2241 0.04776 0.2211 0.1843

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4773 0.04823 0.01403 0.2616 0.09420 0.6020

Q(ilm)

0.000326

mode	liq	bi	g	pl	ilm	ru	q
	0.4049	0	0.2108	0.1810	0.009252	0.004425	0.1897

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 916.8 0.1411 0.3546 0.5128 0.03265 0.01014 0.6238

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4524 0.2169 0.2255 0.04812 0.2207 0.1838

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4779 0.04883 0.01411 0.2585 0.09591 0.5981

Q(ilm)

0.00029

mode	liq	bi	g	pl	ilm	ru	q
	0.4019	0	0.2115	0.1822	0.009152	0.004469	0.1908

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 916.3 0.1400 0.3538 0.5114 0.03272 0.009869 0.6240

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4545 0.2169 0.2270 0.04848 0.2203 0.1833

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4785 0.04943 0.01420 0.2555 0.09764 0.5941

Q(ilm)

0.000261

mode	liq	bi	g	pl	ilm	ru	q
	0.3990	0	0.2122	0.1835	0.009052	0.004513	0.1918

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.50 915.9 0.1389 0.3530 0.5101 0.03280 0.009599 0.6242

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4567 0.2169 0.2286 0.04884 0.2198 0.1828

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4790 0.05003 0.01428 0.2525 0.09939 0.5900

Q(ilm)

0.000236

mode	liq	bi	g	pl	ilm	ru	q
	0.3960	0	0.2129	0.1847	0.008955	0.004556	0.1928

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.60 915.4 0.1377 0.3522 0.5087 0.03287 0.009329 0.6244

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4589 0.2169 0.2302 0.04921 0.2194 0.1823

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4796 0.05063 0.01436 0.2495 0.1012 0.5859

Q(ilm)

0.000215

mode	liq	bi	g	pl	ilm	ru	q
	0.3930	0	0.2136	0.1860	0.008859	0.004598	0.1939

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.70 914.9 0.1366 0.3513 0.5073 0.03294 0.009060 0.6245

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4612 0.2168 0.2319 0.04958 0.2190 0.1818

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4801 0.05123 0.01443 0.2466 0.1029 0.5817

Q(ilm)

0.000197

mode	liq	bi	g	pl	ilm	ru	q
	0.3900	0	0.2143	0.1873	0.008764	0.004640	0.1949

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.80 914.4 0.1355 0.3504 0.5059 0.03301 0.008792 0.6247

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4635 0.2168 0.2337 0.04996 0.2185 0.1812

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4807 0.05183 0.01450 0.2437 0.1047 0.5774

Q(ilm)

0.000182

mode	liq	bi	g	pl	ilm	ru	q
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0.3870 0 0.2150 0.1886 0.008670 0.004682 0.1959

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.90 913.8 0.1343 0.3495 0.5045 0.03308 0.008524 0.6248
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4658 0.2167 0.2355 0.05033 0.2180 0.1807
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4812 0.05243 0.01457 0.2408 0.1066 0.5731
Q(ilm)
0.000168

mode liq bi g pl ilm ru q
0.3840 0 0.2157 0.1900 0.008579 0.004722 0.1970

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 913.2 0.1332 0.3486 0.5031 0.03314 0.008257 0.6249
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4681 0.2166 0.2374 0.05071 0.2175 0.1801
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4818 0.05302 0.01463 0.2379 0.1084 0.5687
Q(ilm)
0.000156

mode liq bi g pl ilm ru q
0.3810 0 0.2164 0.1913 0.008488 0.004762 0.1980

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.10 912.6 0.1320 0.3476 0.5017 0.03321 0.007992 0.6250
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4705 0.2165 0.2394 0.05110 0.2170 0.1794
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4823 0.05362 0.01469 0.2351 0.1102 0.5643
Q(ilm)
0.000146

mode liq bi g pl ilm ru q
0.3780 0 0.2171 0.1927 0.008400 0.004802 0.1990

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 911.9 0.1309 0.3466 0.5002 0.03327 0.007729 0.6250
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4729 0.2164 0.2415 0.05148 0.2165 0.1788
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4828 0.05420 0.01474 0.2323 0.1121 0.5598
Q(ilm)
0.000136

mode liq bi g pl ilm ru q
0.3749 0 0.2178 0.1941 0.008313 0.004841 0.2001

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.30 911.1 0.1297 0.3456 0.4988 0.03333 0.007467 0.6250
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4753 0.2163 0.2436 0.05187 0.2159 0.1781
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4833 0.05479 0.01479 0.2295 0.1139 0.5553
 Q(ilm)
 0.000128

mode	liq	bi	g	pl	ilm	ru	q
	0.3719	0	0.2184	0.1955	0.008227	0.004879	0.2011

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.40 910.4 0.1285 0.3445 0.4973 0.03339 0.007207 0.6250
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4778 0.2162 0.2458 0.05226 0.2153 0.1774
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4838 0.05537 0.01483 0.2267 0.1158 0.5507
 Q(ilm)
 0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.3688	0	0.2191	0.1969	0.008144	0.004917	0.2021

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.50 909.6 0.1273 0.3434 0.4958 0.03345 0.006950 0.6250
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4803 0.2160 0.2482 0.05265 0.2148 0.1767
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4843 0.05595 0.01486 0.2240 0.1176 0.5460
 Q(ilm)
 0.000113

mode	liq	bi	g	pl	ilm	ru	q
	0.3658	0	0.2197	0.1984	0.008062	0.004954	0.2031

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.60 908.8 0.1262 0.3423 0.4943 0.03351 0.006696 0.6250
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4828 0.2159 0.2506 0.05304 0.2142 0.1759
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4847 0.05652 0.01490 0.2214 0.1195 0.5413
 Q(ilm)
 0.000107

mode	liq	bi	g	pl	ilm	ru	q
	0.3627	0	0.2204	0.1998	0.007982	0.004991	0.2042

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.70 907.9 0.1250 0.3412 0.4928 0.03356 0.006445 0.6249

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4854 0.2157 0.2531 0.05343 0.2135 0.1751
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4852 0.05708 0.01492 0.2188 0.1213 0.5365
 Q(ilm)

0.000101

mode	liq	bi	g	pl	ilm	ru	q
	0.3596	0	0.2210	0.2013	0.007904	0.005027	0.2052

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.80 907.0 0.1238 0.3400 0.4912 0.03362 0.006197 0.6248
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4880 0.2155 0.2557 0.05382 0.2129 0.1743
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4857 0.05764 0.01494 0.2162 0.1232 0.5317
 Q(ilm)

9.52E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3566	0	0.2216	0.2027	0.007827	0.005062	0.2062

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.90 906.0 0.1225 0.3389 0.4897 0.03367 0.005953 0.6247
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4906 0.2153 0.2584 0.05421 0.2123 0.1734
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4861 0.05820 0.01495 0.2136 0.1250 0.5268
 Q(ilm)

9.03E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3535	0	0.2222	0.2042	0.007753	0.005097	0.2072

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.00 905.1 0.1213 0.3377 0.4881 0.03373 0.005716 0.6246
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4932 0.2151 0.2612 0.05460 0.2116 0.1725
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4865 0.05874 0.01496 0.2112 0.1268 0.5219
 Q(ilm)

8.57E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3505	0	0.2228	0.2057	0.007681	0.005130	0.2083

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.10 904.1 0.1200 0.3365 0.4866 0.03379 0.005484 0.6245
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4959 0.2149 0.2641 0.05498 0.2110 0.1716

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4870 0.05928 0.01496 0.2087 0.1287 0.5170
Q(ilm)

8.15E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3474	0	0.2234	0.2072	0.007612	0.005163	0.2093

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 903.1 0.1188 0.3353 0.4850 0.03385 0.005257 0.6243
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4986 0.2147 0.2672 0.05536 0.2103 0.1706
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4874 0.05981 0.01496 0.2063 0.1305 0.5120
Q(ilm)

7.75E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3444	0	0.2239	0.2086	0.007544	0.005196	0.2103

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.30 902.1 0.1175 0.3341 0.4835 0.03391 0.005036 0.6241
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5013 0.2144 0.2703 0.05574 0.2096 0.1696
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4878 0.06033 0.01494 0.2040 0.1323 0.5071
Q(ilm)

7.39E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3414	0	0.2245	0.2101	0.007479	0.005227	0.2113

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 901.0 0.1162 0.3328 0.4819 0.03397 0.004820 0.6239
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5040 0.2142 0.2736 0.05611 0.2089 0.1686
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4881 0.06084 0.01493 0.2017 0.1341 0.5020
Q(ilm)

7.05E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3384	0	0.2250	0.2116	0.007416	0.005258	0.2124

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 899.9 0.1149 0.3316 0.4803 0.03404 0.004610 0.6237
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5067 0.2139 0.2769 0.05648 0.2082 0.1675
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4885 0.06135 0.01490 0.1995 0.1358 0.4970

Q(ilm)

6.73E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3354	0	0.2255	0.2130	0.007355	0.005288	0.2134

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	898.8	0.1135	0.3303	0.4787	0.03410	0.004405	0.6235
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5094	0.2137	0.2804	0.05684	0.2075	0.1664
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4889	0.06185	0.01487	0.1973	0.1375	0.4919

Q(ilm)

6.44E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3325	0	0.2260	0.2145	0.007296	0.005317	0.2144

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.70	897.7	0.1122	0.3290	0.4771	0.03416	0.004206	0.6232
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5121	0.2134	0.2840	0.05719	0.2068	0.1652
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4892	0.06233	0.01483	0.1951	0.1393	0.4868

Q(ilm)

6.16E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3296	0	0.2265	0.2159	0.007239	0.005346	0.2154

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	896.6	0.1109	0.3277	0.4755	0.03423	0.004013	0.6229
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5149	0.2131	0.2877	0.05754	0.2060	0.1640
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4895	0.06281	0.01479	0.1930	0.1409	0.4817

Q(ilm)

5.90E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3266	0	0.2269	0.2174	0.007184	0.005374	0.2164

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.90	895.4	0.1096	0.3264	0.4738	0.03429	0.003827	0.6226
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5176	0.2128	0.2914	0.05787	0.2053	0.1628
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4899	0.06328	0.01474	0.1910	0.1426	0.4766

Q(ilm)

5.65E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3238	0	0.2274	0.2189	0.007131	0.005401	0.2174

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.00 894.2 0.1082 0.3251 0.4722 0.03436 0.003646 0.6223

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5204 0.2125 0.2953 0.05820 0.2046 0.1615

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4902 0.06374 0.01469 0.1890 0.1442 0.4715

Q(ilm)

5.42E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3209	0	0.2278	0.2203	0.007080	0.005428	0.2184

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.10 893.0 0.1069 0.3238 0.4704 0.03443 0.003471 0.6220

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5231 0.2122 0.2993 0.05852 0.2038 0.1602

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4905 0.06419 0.01463 0.1870 0.1457 0.4663

Q(ilm)

5.21E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3181	0	0.2283	0.2217	0.007031	0.005454	0.2194

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.20 891.8 0.1056 0.3224 0.4687 0.03450 0.003303 0.6217

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5259 0.2119 0.3034 0.05883 0.2030 0.1589

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4908 0.06463 0.01456 0.1851 0.1472 0.4612

Q(ilm)

5.00E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3153	0	0.2287	0.2231	0.006985	0.005479	0.2204

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.30 890.5 0.1042 0.3211 0.4670 0.03457 0.003141 0.6213

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5286 0.2116 0.3076 0.05912 0.2023 0.1576

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4910 0.06506 0.01449 0.1833 0.1487 0.4561

Q(ilm)

4.81E-05

mode	liq	bi	g	pl	ilm	ru	q
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0.3126 0 0.2291 0.2246 0.006940 0.005504 0.2213

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 889.3 0.1029 0.3197 0.4652 0.03464 0.002985 0.6209
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5314 0.2112 0.3119 0.05940 0.2015 0.1562
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4913 0.06548 0.01441 0.1815 0.1501 0.4509
Q(ilm)
4.63E-05

mode liq bi g pl ilm ru q
0.3099 0 0.2295 0.2260 0.006897 0.005528 0.2223

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 888.0 0.1016 0.3184 0.4633 0.03471 0.002835 0.6206
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5341 0.2109 0.3162 0.05967 0.2008 0.1547
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4916 0.06589 0.01433 0.1797 0.1515 0.4458
Q(ilm)
4.45E-05

mode liq bi g pl ilm ru q
0.3072 0 0.2298 0.2273 0.006855 0.005552 0.2232

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 886.7 0.1003 0.3171 0.4615 0.03478 0.002692 0.6202
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5368 0.2106 0.3207 0.05992 0.2000 0.1533
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4918 0.06629 0.01424 0.1780 0.1528 0.4407
Q(ilm)
4.29E-05

mode liq bi g pl ilm ru q
0.3046 0 0.2302 0.2287 0.006816 0.005575 0.2242

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.70 885.4 0.09896 0.3157 0.4596 0.03486 0.002554 0.6198
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5395 0.2102 0.3252 0.06016 0.1992 0.1518
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4920 0.06668 0.01415 0.1763 0.1541 0.4356
Q(ilm)
4.14E-05

mode liq bi g pl ilm ru q
0.3020 0 0.2305 0.2301 0.006778 0.005597 0.2251

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 884.1 0.09766 0.3144 0.4576 0.03493 0.002422 0.6193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5422 0.2099 0.3298 0.06039 0.1984 0.1503
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4923 0.06706 0.01406 0.1747 0.1553 0.4305
Q(ilm)
3.99E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2994	0	0.2308	0.2314	0.006742	0.005618	0.2260

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 882.8 0.09636 0.3130 0.4557 0.03501 0.002297 0.6189
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5448 0.2095 0.3345 0.06060 0.1977 0.1488
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4925 0.06743 0.01396 0.1731 0.1565 0.4255
Q(ilm)
3.85E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2969	0	0.2311	0.2327	0.006708	0.005640	0.2269

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 881.5 0.09507 0.3117 0.4536 0.03509 0.002177 0.6185
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5475 0.2091 0.3393 0.06079 0.1969 0.1473
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4927 0.06780 0.01386 0.1716 0.1576 0.4205
Q(ilm)
3.72E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2945	0	0.2314	0.2340	0.006675	0.005660	0.2277

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 880.1 0.09379 0.3103 0.4516 0.03517 0.002062 0.6180
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5501 0.2088 0.3441 0.06097 0.1961 0.1457
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4929 0.06815 0.01375 0.1701 0.1587 0.4155
Q(ilm)
3.60E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2921	0	0.2317	0.2353	0.006644	0.005680	0.2286

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 878.8 0.09252 0.3090 0.4494 0.03525 0.001953 0.6176

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5527 0.2084 0.3490 0.06113 0.1953 0.1441
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4931 0.06850 0.01364 0.1687 0.1597 0.4105
Q(ilm)

3.48E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2897	0	0.2320	0.2365	0.006614	0.005700	0.2294

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.30 877.5 0.09126 0.3077 0.4473 0.03534 0.001849 0.6171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5553 0.2081 0.3539 0.06127 0.1946 0.1425
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4933 0.06884 0.01353 0.1672 0.1606 0.4056
Q(ilm)

3.36E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2874	0	0.2323	0.2378	0.006586	0.005718	0.2303

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 876.2 0.09001 0.3064 0.4450 0.03543 0.001751 0.6167
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5578 0.2077 0.3589 0.06139 0.1938 0.1409
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4934 0.06917 0.01342 0.1659 0.1615 0.4008
Q(ilm)

3.26E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2851	0	0.2325	0.2390	0.006559	0.005737	0.2311

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 874.8 0.08878 0.3051 0.4428 0.03551 0.001657 0.6162
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5603 0.2073 0.3639 0.06150 0.1930 0.1393
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4936 0.06949 0.01330 0.1645 0.1623 0.3960
Q(ilm)

3.16E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2829	0	0.2328	0.2402	0.006533	0.005755	0.2319

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 873.5 0.08756 0.3038 0.4404 0.03560 0.001568 0.6157
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5628 0.2070 0.3690 0.06159 0.1923 0.1376

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4938 0.06981 0.01318 0.1632 0.1630 0.3912
Q(ilm)

3.06E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2807	0	0.2330	0.2413	0.006508	0.005772	0.2327

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.70 872.2 0.08635 0.3025 0.4380 0.03570 0.001484 0.6153
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5652 0.2066 0.3741 0.06167 0.1915 0.1360
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4939 0.07012 0.01306 0.1620 0.1637 0.3865
Q(ilm)

2.97E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2786	0	0.2332	0.2425	0.006485	0.005789	0.2334

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 870.9 0.08515 0.3012 0.4356 0.03579 0.001404 0.6148
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5676 0.2063 0.3792 0.06172 0.1907 0.1343
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4941 0.07042 0.01294 0.1608 0.1644 0.3818
Q(ilm)

2.88E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2765	0	0.2334	0.2436	0.006463	0.005806	0.2342

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90 869.6 0.08397 0.2999 0.4331 0.03589 0.001328 0.6143
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5700 0.2059 0.3844 0.06176 0.1900 0.1327
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4942 0.07071 0.01282 0.1596 0.1650 0.3772
Q(ilm)

2.79E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2745	0	0.2336	0.2447	0.006442	0.005822	0.2349

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 868.3 0.08281 0.2987 0.4305 0.03599 0.001256 0.6138
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5723 0.2055 0.3896 0.06178 0.1892 0.1310
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4944 0.07100 0.01270 0.1584 0.1655 0.3726

Q(ilm)

2.71E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2725	0	0.2338	0.2457	0.006422	0.005837	0.2356

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.10	867.0	0.08165	0.2975	0.4279	0.03609	0.001189	0.6133
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5746	0.2052	0.3948	0.06178	0.1885	0.1293
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4945	0.07128	0.01257	0.1573	0.1659	0.3681

Q(ilm)

2.64E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2706	0	0.2340	0.2468	0.006403	0.005853	0.2363

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	865.7	0.08052	0.2963	0.4252	0.03619	0.001124	0.6129
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5769	0.2048	0.4000	0.06177	0.1878	0.1276
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4946	0.07155	0.01245	0.1562	0.1663	0.3637

Q(ilm)

2.56E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2687	0	0.2342	0.2478	0.006385	0.005867	0.2370

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.30	864.4	0.07940	0.2951	0.4224	0.03630	0.001064	0.6124
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5791	0.2045	0.4052	0.06174	0.1870	0.1260
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4947	0.07182	0.01232	0.1551	0.1667	0.3593

Q(ilm)

2.49E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2669	0	0.2344	0.2488	0.006367	0.005882	0.2377

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	863.2	0.07829	0.2939	0.4196	0.03640	0.001006	0.6119
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5813	0.2041	0.4105	0.06170	0.1863	0.1243
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4948	0.07208	0.01219	0.1540	0.1669	0.3550

Q(ilm)

2.43E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2651	0	0.2346	0.2497	0.006351	0.005896	0.2384

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.50 861.9 0.07720 0.2927 0.4167 0.036510.0009520 0.6114

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5834 0.2038 0.4157 0.06163 0.1856 0.1226

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4950 0.07234 0.01207 0.1530 0.1672 0.3507

Q(ilm)

2.36E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2633	0	0.2347	0.2507	0.006335	0.005909	0.2390

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.60 860.7 0.07612 0.2916 0.4137 0.036630.0009007 0.6109

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5855 0.2034 0.4210 0.06156 0.1849 0.1209

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4951 0.07259 0.01194 0.1520 0.1673 0.3465

Q(ilm)

2.30E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2616	0	0.2349	0.2516	0.006321	0.005923	0.2396

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.70 859.4 0.07506 0.2905 0.4107 0.036740.0008522 0.6105

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5876 0.2031 0.4262 0.06147 0.1842 0.1193

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4952 0.07283 0.01182 0.1510 0.1674 0.3424

Q(ilm)

2.24E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2600	0	0.2350	0.2525	0.006307	0.005936	0.2403

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.80 858.2 0.07402 0.2894 0.4076 0.036860.0008065 0.6100

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5896 0.2028 0.4314 0.06136 0.1835 0.1176

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4953 0.07307 0.01169 0.1501 0.1675 0.3383

Q(ilm)

2.18E-05

mode	liq	bi	g	pl	ilm	ru	q
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0.2584 0 0.2352 0.2534 0.006293 0.005948 0.2409

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 857.0 0.07299 0.2883 0.4044 0.036970.0007633 0.6095
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5916 0.2024 0.4366 0.06124 0.1828 0.1159
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4954 0.07331 0.01157 0.1491 0.1675 0.3342
Q(ilm)
2.13E-05

mode liq bi g pl ilm ru q
0.2568 0 0.2353 0.2542 0.006280 0.005961 0.2415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 855.8 0.07197 0.2872 0.4011 0.037100.0007224 0.6091
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5936 0.2021 0.4418 0.06111 0.1821 0.1143
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4954 0.07353 0.01144 0.1482 0.1675 0.3303
Q(ilm)
2.08E-05

mode liq bi g pl ilm ru q
0.2552 0 0.2354 0.2550 0.006268 0.005973 0.2421

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10 854.6 0.07097 0.2862 0.3978 0.037220.0006839 0.6086
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5955 0.2018 0.4470 0.06096 0.1814 0.1127
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4955 0.07376 0.01132 0.1473 0.1673 0.3264
Q(ilm)
2.03E-05

mode liq bi g pl ilm ru q
0.2538 0 0.2355 0.2558 0.006257 0.005984 0.2426

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 853.4 0.06999 0.2851 0.3944 0.037340.0006474 0.6081
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5974 0.2015 0.4521 0.06080 0.1807 0.1110
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4956 0.07398 0.01119 0.1465 0.1672 0.3225
Q(ilm)
1.98E-05

mode liq bi g pl ilm ru q
0.2523 0 0.2357 0.2566 0.006246 0.005996 0.2432

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.30 852.3 0.06902 0.2841 0.3910 0.037470.0006130 0.6077
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5992 0.2012 0.4573 0.06063 0.1801 0.1094
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4957 0.07420 0.01107 0.1456 0.1670 0.3187
 Q(ilm)
 1.93E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2509	0	0.2358	0.2574	0.006235	0.006007	0.2437

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.40 851.1 0.06806 0.2831 0.3875 0.037600.0005805 0.6072
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6010 0.2008 0.4624 0.06044 0.1794 0.1078
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4958 0.07441 0.01095 0.1448 0.1667 0.3150
 Q(ilm)
 1.89E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2495	0	0.2359	0.2581	0.006225	0.006018	0.2443

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.50 850.0 0.06712 0.2822 0.3839 0.037730.0005498 0.6068
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6027 0.2005 0.4675 0.06025 0.1788 0.1062
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4959 0.07461 0.01083 0.1440 0.1664 0.3113
 Q(ilm)
 1.85E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2482	0	0.2360	0.2588	0.006216	0.006028	0.2448

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.60 848.9 0.06619 0.2812 0.3802 0.037860.0005209 0.6064
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6045 0.2002 0.4725 0.06004 0.1781 0.1046
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4959 0.07482 0.01071 0.1432 0.1661 0.3077
 Q(ilm)
 1.81E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2469	0	0.2361	0.2595	0.006207	0.006039	0.2453

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.70 847.8 0.06528 0.2803 0.3765 0.038000.0004935 0.6059

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6061 0.1999 0.4775 0.05983 0.1775 0.1031
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4960 0.07502 0.01059 0.1424 0.1657 0.3041
 Q(ilm)

1.77E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2456	0	0.2362	0.2601	0.006198	0.006049	0.2458

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.80 846.7 0.06438 0.2794 0.3727 0.038140.0004676 0.6055
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6078 0.1997 0.4825 0.05960 0.1768 0.1015
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4961 0.07521 0.01047 0.1416 0.1652 0.3006
 Q(ilm)

1.73E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2444	0	0.2363	0.2608	0.006190	0.006059	0.2463

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.90 845.6 0.06349 0.2785 0.3688 0.038270.0004431 0.6051
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6094 0.1994 0.4875 0.05936 0.1762 0.09996
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4961 0.07541 0.01035 0.1409 0.1647 0.2972
 Q(ilm)

1.69E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2432	0	0.2364	0.2614	0.006182	0.006068	0.2467

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.00 844.5 0.06262 0.2777 0.3649 0.038420.0004199 0.6047
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6110 0.1991 0.4924 0.05912 0.1756 0.09844
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4962 0.07559 0.01023 0.1402 0.1642 0.2938
 Q(ilm)

1.65E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2420	0	0.2365	0.2620	0.006174	0.006078	0.2472

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.10 843.4 0.06175 0.2768 0.3610 0.038560.0003981 0.6042
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6125 0.1988 0.4973 0.05886 0.1750 0.09692

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4963 0.07578 0.01012 0.1394 0.1636 0.2904
Q(ilm)

1.62E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2409	0	0.2366	0.2626	0.006167	0.006087	0.2477

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 842.4 0.06091 0.2760 0.3569 0.038700.0003774 0.6038
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6140 0.1985 0.5021 0.05860 0.1744 0.09542
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4963 0.07596 0.01000 0.1387 0.1630 0.2871
Q(ilm)

1.59E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2398	0	0.2367	0.2631	0.006160	0.006096	0.2481

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.30 841.4 0.06007 0.2752 0.3529 0.038850.0003578 0.6034
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6154 0.1982 0.5070 0.05833 0.1738 0.09394
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4964 0.07614 0.009890 0.1380 0.1623 0.2839
Q(ilm)

1.55E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2388	0	0.2368	0.2637	0.006154	0.006105	0.2486

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40 840.3 0.05924 0.2744 0.3487 0.039000.0003393 0.6030
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6169 0.1980 0.5117 0.05806 0.1732 0.09247
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4964 0.07632 0.009777 0.1374 0.1617 0.2807
Q(ilm)

1.52E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2377	0	0.2368	0.2642	0.006147	0.006114	0.2490

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.50 839.3 0.05843 0.2737 0.3445 0.039150.0003218 0.6026
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6182 0.1977 0.5165 0.05777 0.1726 0.09102
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4965 0.07649 0.009665 0.1367 0.1609 0.2775

Q(ilm)

1.49E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2367	0	0.2369	0.2647	0.006141	0.006122	0.2494

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.60	838.3	0.05763	0.2730	0.3403	0.039300	0.0003052	0.6023
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6196	0.1974	0.5212	0.05748	0.1720	0.08958
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4965	0.07666	0.009555	0.1360	0.1602	0.2744

Q(ilm)

1.46E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2358	0	0.2370	0.2652	0.006136	0.006130	0.2498

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.70	837.3	0.05684	0.2722	0.3360	0.039460	0.0002895	0.6019
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6209	0.1972	0.5258	0.05718	0.1714	0.08816
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4966	0.07683	0.009445	0.1354	0.1594	0.2714

Q(ilm)

1.44E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2348	0	0.2371	0.2656	0.006130	0.006138	0.2502

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.80	836.4	0.05606	0.2715	0.3317	0.039610	0.0002746	0.6015
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6222	0.1969	0.5305	0.05688	0.1708	0.08675
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4967	0.07700	0.009337	0.1347	0.1586	0.2684

Q(ilm)

1.41E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2339	0	0.2371	0.2661	0.006125	0.006146	0.2506

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.90	835.4	0.05529	0.2709	0.3274	0.039770	0.0002606	0.6011
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6234	0.1967	0.5350	0.05657	0.1702	0.08536
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4967	0.07716	0.009230	0.1341	0.1577	0.2654

Q(ilm)

1.38E-05


```

mode   liq   bi    g    pl   ilm   ru    q
      0.2330   0  0.2372  0.2665 0.006120 0.006154  0.2510
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00   834.4 0.05453 0.2702 0.3230 0.039930.0002472 0.6008
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6247 0.1964 0.5396 0.05625 0.1697 0.08398
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.4968 0.07733 0.009123 0.1335 0.1568 0.2625
      Q(ilm)
1.36E-05

mode   liq   bi    g    pl   ilm   ru    q
      0.2321   0  0.2373  0.2669 0.006115 0.006162  0.2514
calcs use:

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2   O
  6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, ksp, pl, ilm, ru, ky, q
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.03   877.7 0.1272 0.3304 0.5237 0.02676 0.004855 0.6478
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.4973 0.2513 0.3198 0.04898 0.1961 0.1719
      x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
      0.5329 0.03860 0.008768 0.3066 0.02226 0.2742
      k(pl) x(ilm) Q(ilm)
      0.07677 0.56590.0002058

mode   liq   bi    g    ksp   pl   ilm   ru   ky   q
      0.3195 0.04739 0.1809   0  0.2149 0.008832 0.003453   0  0.2251
calcs use:

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2   O
  6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, ksp, pl, ilm, ru, ky, q
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.05   877.8 0.1271 0.3304 0.5239 0.02681 0.004850 0.6476
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.4975 0.2509 0.3195 0.04906 0.1961 0.1719
      x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
      0.5325 0.03876 0.008803 0.3066 0.02226 0.2740
      k(pl) x(ilm) Q(ilm)
      0.07681 0.56530.0002025

```

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3194	0.04701	0.18120	0.0003859	0.2146	0.008819	0.003469	0	0.2250		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
12.10	878.0	0.1266	0.3301	0.5243	0.02694	0.004837	0.6471		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.4982	0.2501	0.3187	0.04924	0.1963	0.1719		
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
		0.5316	0.03917	0.008894	0.3067	0.02225	0.2735		
		k(pl)	x(ilm)	Q(ilm)					
		0.07691	0.56360	0.0001945					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3193	0.04603	0.1821	0.001375	0.2140	0.008786	0.003509	0	0.2249		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
12.15	878.3	0.1262	0.3299	0.5248	0.02707	0.004824	0.6465		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.4989	0.2493	0.3179	0.04942	0.1964	0.1719		
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
		0.5307	0.03958	0.008985	0.3067	0.02225	0.2731		
		k(pl)	x(ilm)	Q(ilm)					
		0.07702	0.56190	0.0001870					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3191	0.04506	0.1830	0.002365	0.2133	0.008753	0.003549	0	0.2248		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
12.20	878.6	0.1258	0.3296	0.5253	0.02719	0.004810	0.6460		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.4996	0.2484	0.3170	0.04960	0.1965	0.1719		
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
		0.5298	0.04000	0.009078	0.3067	0.02224	0.2726		
		k(pl)	x(ilm)	Q(ilm)					
		0.07713	0.56020	0.0001800					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3189	0.04409	0.1839	0.003357	0.2127	0.008720	0.003589	0	0.2247		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
12.25	878.8	0.1253	0.3294	0.5257	0.02732	0.004796	0.6454		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.5003	0.2476	0.3162	0.04979	0.1966	0.1719		
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
		0.5289	0.04042	0.009172	0.3068	0.02223	0.2721		
		k(pl)	x(ilm)	Q(ilm)					
		0.07724	0.55850	0.0001735					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
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0.3188 0.04311 0.1848 0.004350 0.2120 0.008688 0.003629 0 0.2246

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 879.1 0.1249 0.3292 0.5262 0.02744 0.004782 0.6449
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5010 0.2468 0.3154 0.04997 0.1967 0.1719
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5280 0.04085 0.009267 0.3068 0.02222 0.2716
k(pl) x(ilm) Q(ilm)
0.07736 0.55680.0001674

mode liq bi g ksp pl ilm ru ky q
0.3186 0.04214 0.1857 0.005345 0.2114 0.008655 0.003669 0 0.2245

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.35 879.4 0.1245 0.3289 0.5267 0.02757 0.004768 0.6443
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5017 0.2459 0.3146 0.05015 0.1968 0.1718
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5271 0.04128 0.009363 0.3069 0.02222 0.2710
k(pl) x(ilm) Q(ilm)
0.07747 0.55510.0001618

mode liq bi g ksp pl ilm ru ky q
0.3184 0.04116 0.1866 0.006341 0.2107 0.008623 0.003709 0 0.2244

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 879.6 0.1241 0.3287 0.5272 0.02769 0.004754 0.6438
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5024 0.2451 0.3137 0.05033 0.1969 0.1718
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5262 0.04171 0.009460 0.3069 0.02221 0.2705
k(pl) x(ilm) Q(ilm)
0.07759 0.55340.0001564

mode liq bi g ksp pl ilm ru ky q
0.3183 0.04018 0.1876 0.007339 0.2100 0.008590 0.003749 0 0.2243

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.45 879.9 0.1236 0.3284 0.5277 0.02782 0.004740 0.6432
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5031 0.2443 0.3129 0.05051 0.1970 0.1718
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5253 0.04215 0.009559 0.3070 0.02220 0.2700
k(pl) x(ilm) Q(ilm)
0.07771 0.55170.0001514

mode liq bi g ksp pl ilm ru ky q
0.3181 0.03921 0.1885 0.008340 0.2094 0.008558 0.003789 0 0.2242

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50    880.1  0.1232 0.3282 0.5282 0.02794 0.004726 0.6426
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5038 0.2434 0.3121 0.05069 0.1971 0.1718
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.5244 0.04260 0.009659 0.3071 0.02219 0.2694
        k(pl) x(ilm) Q(ilm)
        0.07784 0.55000.0001466

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.3179 0.03823 0.1894 0.009342 0.2087 0.008526 0.003829 0 0.2241

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.55    880.4  0.1228 0.3280 0.5287 0.02806 0.004711 0.6421
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5044 0.2426 0.3113 0.05087 0.1972 0.1717
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.5235 0.04305 0.009760 0.3071 0.02219 0.2689
        k(pl) x(ilm) Q(ilm)
        0.07796 0.54830.0001422

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.3178 0.03724 0.1903 0.01035 0.2080 0.008493 0.003869 0 0.2240

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60    880.6  0.1224 0.3277 0.5293 0.02819 0.004696 0.6415
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5051 0.2418 0.3105 0.05105 0.1973 0.1717
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.5226 0.04350 0.009862 0.3072 0.02218 0.2683
        k(pl) x(ilm) Q(ilm)
        0.07809 0.54660.0001379

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.3176 0.03626 0.1912 0.01136 0.2073 0.008461 0.003908 0 0.2239

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.65    880.9  0.1219 0.3275 0.5298 0.02831 0.004682 0.6409
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5058 0.2410 0.3097 0.05123 0.1974 0.1716
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.5217 0.04396 0.009965 0.3073 0.02217 0.2677
        k(pl) x(ilm) Q(ilm)
        0.07822 0.54490.0001339

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.3175 0.03528 0.1922 0.01237 0.2066 0.008429 0.003948 0 0.2238

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.70    881.1  0.1215 0.3273 0.5303 0.02843 0.004667 0.6403

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5065 0.2401 0.3088 0.05141 0.1975 0.1716
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5208 0.04442 0.01007 0.3074 0.02216 0.2671
 k(pl) x(ilm) Q(ilm)
 0.07835 0.54320.0001301

mode liq bi g ksp pl ilm ru ky q
 0.3173 0.03429 0.1931 0.01338 0.2059 0.008397 0.003988 0 0.2236

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.75 881.4 0.1211 0.3270 0.5309 0.02855 0.004652 0.6398
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5072 0.2393 0.3080 0.05158 0.1976 0.1716
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5199 0.04489 0.01018 0.3075 0.02215 0.2665
 k(pl) x(ilm) Q(ilm)
 0.07849 0.54150.0001265

mode liq bi g ksp pl ilm ru ky q
 0.3172 0.03330 0.1940 0.01440 0.2052 0.008365 0.004028 0 0.2235

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 881.6 0.1207 0.3268 0.5314 0.02867 0.004636 0.6392
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5078 0.2385 0.3072 0.05176 0.1977 0.1715
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5190 0.04536 0.01028 0.3076 0.02214 0.2659
 k(pl) x(ilm) Q(ilm)
 0.07863 0.53980.0001231

mode liq bi g ksp pl ilm ru ky q
 0.3170 0.03231 0.1950 0.01541 0.2044 0.008333 0.004068 0 0.2234

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.85 881.9 0.1202 0.3266 0.5320 0.02879 0.004621 0.6386
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5085 0.2376 0.3064 0.05194 0.1978 0.1715
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5181 0.04584 0.01039 0.3077 0.02213 0.2653
 k(pl) x(ilm) Q(ilm)
 0.07877 0.53810.0001198

mode liq bi g ksp pl ilm ru ky q
 0.3169 0.03132 0.1959 0.01644 0.2037 0.008301 0.004108 0 0.2233

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.90 882.1 0.1198 0.3264 0.5326 0.02892 0.004606 0.6380
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5092 0.2368 0.3056 0.05212 0.1979 0.1714

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5172 0.04632 0.01050 0.3079 0.02212 0.2646
 k(pl) x(ilm) Q(ilm)
 0.07891 0.53640.0001167

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3167	0.03033	0.1969	0.01746	0.2030	0.008269	0.004147	0	0.2232		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.95 882.4 0.1194 0.3261 0.5332 0.02904 0.004591 0.6374
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5098 0.2360 0.3048 0.05229 0.1980 0.1713
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5162 0.04680 0.01061 0.3080 0.02211 0.2640
 k(pl) x(ilm) Q(ilm)
 0.07906 0.53470.0001137

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3166	0.02933	0.1978	0.01849	0.2022	0.008237	0.004187	0	0.2231		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 882.6 0.1189 0.3259 0.5338 0.02916 0.004576 0.6368
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5105 0.2351 0.3040 0.05247 0.1981 0.1713
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5153 0.04729 0.01073 0.3081 0.02210 0.2633
 k(pl) x(ilm) Q(ilm)
 0.07921 0.53300.0001109

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3165	0.02833	0.1988	0.01953	0.2015	0.008205	0.004227	0	0.2230		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.05 882.9 0.1185 0.3257 0.5344 0.02928 0.004560 0.6362
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5111 0.2343 0.3032 0.05265 0.1982 0.1712
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5144 0.04779 0.01084 0.3083 0.02210 0.2626
 k(pl) x(ilm) Q(ilm)
 0.07937 0.53130.0001082

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3163	0.02733	0.1998	0.02056	0.2007	0.008173	0.004267	0	0.2229		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.10 883.1 0.1181 0.3255 0.5350 0.02939 0.004545 0.6356
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5118 0.2335 0.3024 0.05282 0.1983 0.1711
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5135 0.04829 0.01096 0.3084 0.02209 0.2620

k(pl) x(ilm) Q(ilm)
0.07952 0.52960.0001056

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3162	0.02633	0.2007	0.02160	0.2000	0.008141	0.004307			0	0.2228

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.15 883.4 0.1176 0.3253 0.5357 0.02951 0.004530 0.6350
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5125 0.2327 0.3017 0.05300 0.1984 0.1710
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5126 0.04879 0.01107 0.3086 0.02208 0.2613
k(pl) x(ilm) Q(ilm)
0.07969 0.52800.0001031

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3161	0.02533	0.2017	0.02265	0.1992	0.008109	0.004346			0	0.2227

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 883.6 0.1172 0.3251 0.5363 0.02963 0.004514 0.6344
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5131 0.2318 0.3009 0.05317 0.1985 0.1709
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5116 0.04930 0.01119 0.3088 0.02207 0.2606
k(pl) x(ilm) Q(ilm)
0.07985 0.52630.0001007

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3159	0.02432	0.2027	0.02370	0.1984	0.008077	0.004386			0	0.2225

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.25 883.9 0.1168 0.3248 0.5370 0.02975 0.004499 0.6338
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5138 0.2310 0.3001 0.05334 0.1986 0.1709
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5107 0.04981 0.01131 0.3090 0.02206 0.2598
k(pl) x(ilm) Q(ilm)
0.08002 0.5246 9.841e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3158	0.02330	0.2036	0.02475	0.1976	0.008045	0.004426			0	0.2224

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.30 884.1 0.1164 0.3246 0.5376 0.02987 0.004483 0.6332
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5144 0.2302 0.2993 0.05352 0.1987 0.1708
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5098 0.05033 0.01144 0.3091 0.02205 0.2591
k(pl) x(ilm) Q(ilm)
0.08019 0.5229 9.621e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3157	0.02229	0.2046	0.02582	0.1968	0.008013	0.004466	0	0.2223		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.35	884.4	0.1159	0.3244	0.5383	0.02998	0.004468	0.6326				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.5150	0.2294	0.2985	0.05369	0.1988	0.1707					
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)					
	0.5088	0.05085	0.01156	0.3093	0.02204	0.2584					
	k(pl)	x(ilm)	Q(ilm)								
	0.08036	0.5212	9.410e-5								

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3156	0.02127	0.2056	0.02688	0.1960	0.007981	0.004506	0	0.2222		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.40	884.6	0.1155	0.3242	0.5390	0.03010	0.004452	0.6320				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.5157	0.2285	0.2978	0.05386	0.1989	0.1706					
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)					
	0.5079	0.05138	0.01168	0.3095	0.02203	0.2576					
	k(pl)	x(ilm)	Q(ilm)								
	0.08054	0.5196	9.206e-5								

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3155	0.02024	0.2066	0.02795	0.1951	0.007949	0.004546	0	0.2221		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.45	884.9	0.1151	0.3240	0.5397	0.03021	0.004436	0.6314				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.5163	0.2277	0.2970	0.05404	0.1990	0.1705					
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)					
	0.5069	0.05191	0.01181	0.3098	0.02202	0.2568					
	k(pl)	x(ilm)	Q(ilm)								
	0.08072	0.5179	9.010e-5								

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3154	0.01922	0.2076	0.02903	0.1943	0.007917	0.004587	0	0.2220		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.50	885.1	0.1146	0.3238	0.5405	0.03033	0.004420	0.6308				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.5170	0.2269	0.2962	0.05421	0.1991	0.1704					
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)					
	0.5060	0.05245	0.01194	0.3100	0.02201	0.2561					
	k(pl)	x(ilm)	Q(ilm)								
	0.08091	0.5162	8.821e-5								

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
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0.3153 0.01818 0.2086 0.03012 0.1934 0.007884 0.004627 0 0.2219

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.55 885.4 0.1142 0.3236 0.5412 0.03044 0.004405 0.6301
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5176 0.2260 0.2954 0.05438 0.1992 0.1702
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5050 0.05299 0.01207 0.3102 0.02200 0.2553
k(pl) x(ilm) Q(ilm)
0.08110 0.5145 8.639e-5

mode liq bi g ksp pl ilm ru ky q
0.3152 0.01715 0.2096 0.03121 0.1926 0.007852 0.004667 0 0.2218

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 885.6 0.1138 0.3234 0.5420 0.03055 0.004389 0.6295
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5182 0.2252 0.2947 0.05455 0.1994 0.1701
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5041 0.05353 0.01220 0.3105 0.02199 0.2545
k(pl) x(ilm) Q(ilm)
0.08129 0.5129 8.463e-5

mode liq bi g ksp pl ilm ru ky q
0.3151 0.01611 0.2106 0.03230 0.1917 0.007820 0.004708 0 0.2216

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.65 885.9 0.1133 0.3233 0.5427 0.03066 0.004373 0.6289
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5188 0.2244 0.2939 0.05473 0.1995 0.1700
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5031 0.05408 0.01233 0.3107 0.02198 0.2537
k(pl) x(ilm) Q(ilm)
0.08149 0.5112 8.293e-5

mode liq bi g ksp pl ilm ru ky q
0.3150 0.01506 0.2117 0.03341 0.1908 0.007787 0.004748 0 0.2215

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 886.1 0.1129 0.3231 0.5435 0.03077 0.004357 0.6282
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5195 0.2235 0.2931 0.05490 0.1996 0.1699
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5021 0.05463 0.01247 0.3110 0.02197 0.2528
k(pl) x(ilm) Q(ilm)
0.08169 0.5095 8.129e-5

mode liq bi g ksp pl ilm ru ky q
0.3149 0.01401 0.2127 0.03452 0.1899 0.007755 0.004789 0 0.2214

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.75    886.4  0.1125 0.3229 0.5443 0.03088 0.004341 0.6276
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5201 0.2227 0.2924 0.05507 0.1997 0.1697
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.5012 0.05519 0.01261 0.3112 0.02196 0.2520
        k(pl) x(ilm) Q(ilm)
        0.08189 0.5079 7.970e-5

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.3148 0.01295 0.2137 0.03564 0.1890 0.007722 0.004830 0 0.2213

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80    886.6  0.1120 0.3227 0.5451 0.03099 0.004325 0.6269
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5207 0.2219 0.2916 0.05524 0.1998 0.1696
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.5002 0.05575 0.01274 0.3115 0.02195 0.2511
        k(pl) x(ilm) Q(ilm)
        0.08210 0.5062 7.817e-5

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.3147 0.01189 0.2148 0.03676 0.1881 0.007690 0.004871 0 0.2211

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.85    886.8  0.1116 0.3225 0.5459 0.03110 0.004308 0.6263
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5213 0.2210 0.2909 0.05541 0.1999 0.1695
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.4992 0.05632 0.01288 0.3118 0.02194 0.2503
        k(pl) x(ilm) Q(ilm)
        0.08231 0.5045 7.668e-5

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.3147 0.01083 0.2158 0.03790 0.1872 0.007657 0.004912 0 0.2210

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90    887.1  0.1112 0.3223 0.5468 0.03121 0.004292 0.6256
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5219 0.2202 0.2901 0.05558 0.2000 0.1693
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.4982 0.05688 0.01303 0.3121 0.02193 0.2494
        k(pl) x(ilm) Q(ilm)
        0.08253 0.5028 7.524e-5

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.3146 0.009757 0.2169 0.03904 0.1863 0.007624 0.004953 0 0.2209

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.95    887.3  0.1107 0.3222 0.5476 0.03131 0.004276 0.6250

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5226 0.2193 0.2893 0.05575 0.2001 0.1692
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4973 0.05746 0.01317 0.3124 0.02192 0.2485
k(pl) x(ilm) Q(ilm)
0.08275 0.5012 7.385e-5

mode liq bi g ksp pl ilm ru ky q
0.3145 0.008681 0.2179 0.04019 0.1853 0.007591 0.004994 0 0.2208

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 887.6 0.1103 0.3220 0.5485 0.03142 0.004260 0.6243
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5232 0.2185 0.2886 0.05592 0.2002 0.1690
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4963 0.05803 0.01331 0.3127 0.02190 0.2476
k(pl) x(ilm) Q(ilm)
0.08298 0.4995 7.250e-5

mode liq bi g ksp pl ilm ru ky q
0.3145 0.007599 0.2190 0.04135 0.1843 0.007558 0.005036 0 0.2206

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.05 887.8 0.1099 0.3218 0.5494 0.03152 0.004243 0.6236
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5238 0.2177 0.2878 0.05609 0.2003 0.1689
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4953 0.05861 0.01346 0.3130 0.02189 0.2466
k(pl) x(ilm) Q(ilm)
0.08321 0.4978 7.119e-5

mode liq bi g ksp pl ilm ru ky q
0.3144 0.006511 0.2201 0.04252 0.1834 0.007524 0.005077 0 0.2205

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 888.1 0.1095 0.3216 0.5503 0.03162 0.004227 0.6230
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5244 0.2168 0.2871 0.05626 0.2005 0.1687
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4943 0.05920 0.01361 0.3134 0.02188 0.2457
k(pl) x(ilm) Q(ilm)
0.08345 0.4962 6.992e-5

mode liq bi g ksp pl ilm ru ky q
0.3144 0.005418 0.2212 0.04370 0.1824 0.007491 0.005119 0 0.2204

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.15 888.3 0.1090 0.3215 0.5512 0.03172 0.004211 0.6223
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5250 0.2160 0.2863 0.05643 0.2006 0.1685

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4933 0.05979 0.01376 0.3137 0.02187 0.2448
 k(pl) x(ilm) Q(ilm)
 0.08369 0.4945 6.868e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3143	0.004318	0.2223	0.04489	0.1814	0.007457	0.005161	0	0.2202		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.20 888.6 0.1086 0.3213 0.5521 0.03182 0.004194 0.6216
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5256 0.2151 0.2856 0.05659 0.2007 0.1684
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4922 0.06038 0.01391 0.3141 0.02186 0.2438
 k(pl) x(ilm) Q(ilm)
 0.08393 0.4928 6.748e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3143	0.003213	0.2234	0.04609	0.1803	0.007424	0.005203	0	0.2201		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.25 888.8 0.1082 0.3211 0.5531 0.03192 0.004178 0.6209
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5262 0.2143 0.2848 0.05676 0.2008 0.1682
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4912 0.06097 0.01407 0.3144 0.02185 0.2428
 k(pl) x(ilm) Q(ilm)
 0.08418 0.4912 6.632e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.3142	0.002102	0.2245	0.04730	0.1793	0.007390	0.005245	0	0.2200		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.30 889.1 0.1077 0.3210 0.5541 0.03202 0.004161 0.6202
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5268 0.2135 0.2841 0.05693 0.2009 0.1680
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4902 0.06157 0.01422 0.3148 0.02183 0.2418
 k(pl) x(ilm) Q(ilm)
 0.08444 0.4895 6.519e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.31420	0.0009847	0.2256	0.04852	0.1782	0.007356	0.005287	0	0.2198		

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, q

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.10	877.0	0.1262	0.3295	0.5252	0.02675	0.004825	0.6491
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4996	0.2525	0.3192	0.04898	0.1956	0.1728
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.5352	0.03950	0.008826	0.3063	0.02211	0.2730
		k(pl)	x(ilm)	Q(ilm)			
		0.07675	0.56530	0.0002042			

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.3160	0.04940	0.1795		0	0.2156	0.008785	0.0034180	0.0004808 0.2268

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	876.0	0.1247	0.3282	0.5273	0.02674	0.004780	0.6508
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5030	0.2542	0.3181	0.04897	0.1948	0.1741
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.5386	0.04083	0.008916	0.3058	0.02188	0.2712
		k(pl)	x(ilm)	Q(ilm)			
		0.07672	0.56430	0.0002017			

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.3112	0.05224	0.1777		0	0.2165	0.008717	0.003369	0.001159 0.2291

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.30	875.0	0.1231	0.3269	0.5294	0.02672	0.004734	0.6525
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5063	0.2559	0.3171	0.04897	0.1941	0.1753
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.5419	0.04222	0.009013	0.3053	0.02166	0.2695
		k(pl)	x(ilm)	Q(ilm)			
		0.07668	0.56320	0.0001988			

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.3064	0.05500	0.1759		0	0.2174	0.008648	0.003324	0.001822 0.2315

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	874.0	0.1217	0.3256	0.5315	0.02670	0.004686	0.6541
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5097	0.2575	0.3160	0.04897	0.1933	0.1765
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.5452	0.04366	0.009118	0.3048	0.02144	0.2678
		k(pl)	x(ilm)	Q(ilm)			
		0.07665	0.56200	0.0001958			

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.3018	0.05769	0.1742		0	0.2183	0.008578	0.003282	0.002472 0.2337

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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12.50 873.0 0.1202 0.3243 0.5337 0.02668 0.004636 0.6557
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5130 0.2591 0.3149 0.04898 0.1926 0.1778
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5484 0.04516 0.009230 0.3043 0.02121 0.2660
 k(pl) x(ilm) Q(ilm)
 0.07660 0.56080.0001925

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2973	0.06031	0.1725		0	0.2191	0.008507	0.003242	0.003109 0.2359

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 872.0 0.1187 0.3230 0.5358 0.02666 0.004586 0.6572
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5163 0.2607 0.3139 0.04900 0.1919 0.1790
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5517 0.04672 0.009350 0.3038 0.02099 0.2642
 k(pl) x(ilm) Q(ilm)
 0.07656 0.55950.0001892

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2929	0.06287	0.1709		0	0.2199	0.008436	0.003205	0.003732 0.2380

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.70 871.0 0.1171 0.3217 0.5379 0.02664 0.004536 0.6587
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5195 0.2622 0.3128 0.04901 0.1912 0.1802
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5548 0.04834 0.009479 0.3033 0.02077 0.2625
 k(pl) x(ilm) Q(ilm)
 0.07652 0.55810.0001858

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2887	0.06536	0.1694		0	0.2206	0.008365	0.003169	0.004345 0.2401

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 870.0 0.1156 0.3205 0.5401 0.02662 0.004485 0.6602
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5228 0.2637 0.3117 0.04904 0.1904 0.1814
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5580 0.05002 0.009617 0.3028 0.02054 0.2607
 k(pl) x(ilm) Q(ilm)
 0.07649 0.55680.0001822

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2845	0.06780	0.1678		0	0.2213	0.008292	0.003136	0.004948 0.2421

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.90 869.0 0.1141 0.3192 0.5422 0.02660 0.004433 0.6616
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5260 0.2652 0.3107 0.04906 0.1897 0.1826
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5611 0.05177 0.009765 0.3023 0.02032 0.2589
k(pl) x(ilm) Q(ilm)
0.07645 0.55530.0001786

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2805	0.07018	0.1664		0	0.2220	0.008219	0.003106	0.005542 0.2441

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 868.0 0.1126 0.3180 0.5444 0.02657 0.004380 0.6630
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5292 0.2666 0.3096 0.04909 0.1891 0.1838
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5642 0.05360 0.009922 0.3018 0.02010 0.2570
k(pl) x(ilm) Q(ilm)
0.07641 0.55380.0001750

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2765	0.07251	0.1650		0	0.2226	0.008145	0.003077	0.006130 0.2461

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.10 867.0 0.1111 0.3167 0.5466 0.02654 0.004326 0.6644
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5324 0.2680 0.3085 0.04913 0.1884 0.1849
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5673 0.05550 0.01009 0.3013 0.01988 0.2552
k(pl) x(ilm) Q(ilm)
0.07637 0.55230.0001713

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2726	0.07479	0.1636		0	0.2231	0.008069	0.003050	0.006711 0.2480

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 865.9 0.1096 0.3155 0.5488 0.02651 0.004270 0.6657
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5356 0.2694 0.3074 0.04917 0.1877 0.1861
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5703 0.05748 0.01027 0.3008 0.01965 0.2533
k(pl) x(ilm) Q(ilm)
0.07634 0.55070.0001675

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2689	0.07703	0.1623		0	0.2237	0.007993	0.003025	0.007288 0.2499

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.30 864.9 0.1081 0.3143 0.5510 0.02648 0.004214 0.6670
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5387 0.2708 0.3062 0.04921 0.1870 0.1873
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)

0.5734 0.05954 0.01046 0.3002 0.01943 0.2514
k(pl) x(ilm) Q(ilm)
0.07630 0.54900.0001638

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2652	0.07923	0.1610		0	0.2241	0.007915	0.003002	0.007861 0.2517

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 863.8 0.1066 0.3130 0.5532 0.02644 0.004157 0.6683
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5419 0.2721 0.3051 0.04926 0.1863 0.1885
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5764 0.06169 0.01067 0.2997 0.01920 0.2494
k(pl) x(ilm) Q(ilm)
0.07627 0.54730.0001600

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2616	0.08138	0.1597		0	0.2246	0.007837	0.002980	0.008430 0.2535

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50 862.7 0.1051 0.3118 0.5555 0.02639 0.004098 0.6695
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5450 0.2734 0.3040 0.04931 0.1856 0.1896
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5794 0.06394 0.01088 0.2992 0.01897 0.2474
k(pl) x(ilm) Q(ilm)
0.07624 0.54550.0001562

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2580	0.08350	0.1585		0	0.2250	0.007757	0.002960	0.008998 0.2552

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 861.6 0.1036 0.3106 0.5578 0.02634 0.004039 0.6707
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5481 0.2747 0.3028 0.04936 0.1849 0.1908
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5824 0.06628 0.01112 0.2987 0.01874 0.2454
k(pl) x(ilm) Q(ilm)
0.07621 0.54370.0001525

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2545	0.08559	0.1574		0	0.2254	0.007675	0.002942	0.009565 0.2570

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 860.5 0.1021 0.3093 0.5601 0.02629 0.003978 0.6719
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5513 0.2760 0.3017 0.04941 0.1842 0.1920
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5855 0.06872 0.01136 0.2982 0.01851 0.2433
k(pl) x(ilm) Q(ilm)

0.07619 0.54180.0001488

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2511	0.08764	0.1562		0	0.2257	0.007592	0.002926	0.01013 0.2587

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 859.3 0.1007 0.3081 0.5624 0.02622 0.003917 0.6731
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5544 0.2772 0.3005 0.04947 0.1836 0.1932
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5885 0.07126 0.01163 0.2977 0.01827 0.2412
k(pl) x(ilm) Q(ilm)
0.07617 0.53990.0001451

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2478	0.08967	0.1551		0	0.2260	0.007507	0.002911	0.01070 0.2603

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90 858.2 0.09918 0.3069 0.5648 0.02615 0.003854 0.6742
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5575 0.2784 0.2993 0.04954 0.1829 0.1944
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5915 0.07392 0.01191 0.2973 0.01803 0.2390
k(pl) x(ilm) Q(ilm)
0.07615 0.53790.0001415

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2445	0.09166	0.1541		0	0.2262	0.007421	0.002897	0.01127 0.2620

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 857.0 0.09770 0.3056 0.5672 0.02607 0.003790 0.6753
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5606 0.2796 0.2981 0.04960 0.1822 0.1956
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5945 0.07668 0.01221 0.2968 0.01779 0.2367
k(pl) x(ilm) Q(ilm)
0.07614 0.53590.0001379

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2413	0.09363	0.1530		0	0.2264	0.007333	0.002885	0.01184 0.2636

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 855.7 0.09623 0.3044 0.5696 0.02599 0.003726 0.6764
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5637 0.2808 0.2969 0.04967 0.1815 0.1968
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5976 0.07957 0.01253 0.2963 0.01755 0.2344
k(pl) x(ilm) Q(ilm)
0.07614 0.53380.0001344

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2381	0.09558	0.1521		0	0.2266	0.007243	0.002874	0.01241 0.2651

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	854.5	0.09476	0.3032	0.5721	0.02589	0.003660	0.6775
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5668	0.2820	0.2957	0.04974	0.1808	0.1980	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6006	0.08258	0.01287	0.2959	0.01731	0.2321	
	k(pl)	x(ilm)	Q(ilm)				
	0.07614	0.53170	0.0001309				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2350	0.09750	0.1511		0	0.2268	0.007152	0.002865	0.01299 0.2667

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.30	853.2	0.09330	0.3019	0.5746	0.02578	0.003594	0.6785
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5699	0.2831	0.2945	0.04981	0.1801	0.1992	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6037	0.08572	0.01323	0.2954	0.01706	0.2296	
	k(pl)	x(ilm)	Q(ilm)				
	0.07614	0.52950	0.0001275				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2319	0.09939	0.1502		0	0.2269	0.007058	0.002857	0.01357 0.2682

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	851.9	0.09184	0.3007	0.5772	0.02567	0.003527	0.6795
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5730	0.2843	0.2932	0.04989	0.1794	0.2005	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6067	0.08899	0.01362	0.2950	0.01681	0.2271	
	k(pl)	x(ilm)	Q(ilm)				
	0.07615	0.52720	0.0001242				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2288	0.1013	0.1493		0	0.2269	0.006962	0.002850	0.01416 0.2697

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.50	850.6	0.09038	0.2995	0.5798	0.02554	0.003458	0.6805
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5761	0.2854	0.2920	0.04996	0.1787	0.2017	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6098	0.09239	0.01404	0.2946	0.01655	0.2245	
	k(pl)	x(ilm)	Q(ilm)				
	0.07618	0.52490	0.0001209				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2259	0.1031	0.1484		0	0.2269	0.006864	0.002845	0.01476 0.2712

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	849.2	0.08893	0.2982	0.5825	0.02540	0.003390	0.6815
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5792	0.2865	0.2907	0.05004	0.1780	0.2030	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6129	0.09593	0.01448	0.2941	0.01630	0.2218	
	k(pl)	x(ilm)	Q(ilm)				
	0.07620	0.52250	0.0001177				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2229	0.1050	0.1476		0	0.2269	0.006763	0.002841	0.01536 0.2727

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.70	847.8	0.08747	0.2970	0.5852	0.02525	0.003320	0.6825
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5824	0.2876	0.2894	0.05012	0.1772	0.2042	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6160	0.09961	0.01495	0.2937	0.01603	0.2191	
	k(pl)	x(ilm)	Q(ilm)				
	0.07624	0.52010	0.0001146				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2200	0.1068	0.1467		0	0.2269	0.006660	0.002839	0.01597 0.2741

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	846.4	0.08602	0.2958	0.5880	0.02509	0.003250	0.6834
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5855	0.2887	0.2881	0.05020	0.1765	0.2055	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6192	0.1034	0.01544	0.2934	0.01577	0.2162	
	k(pl)	x(ilm)	Q(ilm)				
	0.07628	0.51770	0.0001115				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2172	0.1086	0.1460		0	0.2268	0.006555	0.002838	0.01658 0.2755

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.90	844.9	0.08458	0.2945	0.5909	0.02492	0.003179	0.6843
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5886	0.2898	0.2868	0.05029	0.1758	0.2068	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6223	0.1074	0.01597	0.2930	0.01550	0.2133	
	k(pl)	x(ilm)	Q(ilm)				
	0.07634	0.51520	0.0001085				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2143	0.1104	0.1452		0	0.2266	0.006447	0.002838	0.01720 0.2770

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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15.00 843.4 0.08314 0.2933 0.5937 0.02473 0.003108 0.6853
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5917 0.2908 0.2855 0.05037 0.1750 0.2082
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6255 0.1115 0.01654 0.2926 0.01523 0.2103
 k(pl) x(ilm) Q(ilm)
 0.07640 0.51260.0001056

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2116	0.1121	0.1445		0	0.2264	0.006336	0.002839	0.01784 0.2783

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.10 841.9 0.08170 0.2921 0.5967 0.02453 0.003036 0.6862
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5948 0.2919 0.2841 0.05046 0.1743 0.2095
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6286 0.1158 0.01714 0.2923 0.01495 0.2071
 k(pl) x(ilm) Q(ilm)
 0.07647 0.51000.0001028

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2088	0.1139	0.1438		0	0.2262	0.006223	0.002842	0.01848 0.2797

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 840.3 0.08027 0.2908 0.5997 0.02431 0.002965 0.6870
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5980 0.2930 0.2828 0.05054 0.1735 0.2108
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6318 0.1201 0.01777 0.2919 0.01467 0.2039
 k(pl) x(ilm) Q(ilm)
 0.07655 0.50730.0001000

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2061	0.1156	0.1432		0	0.2260	0.006107	0.002846	0.01912 0.2810

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.30 838.7 0.07884 0.2896 0.6027 0.02409 0.002893 0.6879
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6011 0.2940 0.2814 0.05063 0.1728 0.2122
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6350 0.1247 0.01844 0.2916 0.01438 0.2006
 k(pl) x(ilm) Q(ilm)
 0.07664 0.5046 9.733e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2035	0.1173	0.1426		0	0.2257	0.005989	0.002851	0.01978 0.2824

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 837.1 0.07742 0.2884 0.6058 0.02384 0.002821 0.6888
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6042 0.2951 0.2801 0.05071 0.1720 0.2136
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6383 0.1293 0.01914 0.2913 0.01410 0.1973
 k(pl) x(ilm) Q(ilm)
 0.07674 0.5019 9.471e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2008	0.1190	0.1420		0	0.2254	0.005868	0.002857	0.02044 0.2837

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.50 835.4 0.07601 0.2871 0.6090 0.02359 0.002749 0.6896
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6074 0.2961 0.2787 0.05080 0.1712 0.2150
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6415 0.1341 0.01989 0.2910 0.01380 0.1938
 k(pl) x(ilm) Q(ilm)
 0.07685 0.4991 9.216e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1982	0.1207	0.1414		0	0.2250	0.005744	0.002865	0.02111 0.2849

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 833.7 0.07460 0.2859 0.6121 0.02332 0.002677 0.6904
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6105 0.2972 0.2773 0.05088 0.1704 0.2164
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6447 0.1390 0.02067 0.2907 0.01351 0.1902
 k(pl) x(ilm) Q(ilm)
 0.07696 0.4962 8.969e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1957	0.1223	0.1409		0	0.2246	0.005618	0.002874	0.02178 0.2862

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.70 832.0 0.07321 0.2846 0.6153 0.02304 0.002606 0.6913
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6136 0.2982 0.2759 0.05097 0.1696 0.2179
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6479 0.1439 0.02149 0.2904 0.01321 0.1866
 k(pl) x(ilm) Q(ilm)
 0.07708 0.4933 8.729e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1932	0.1240	0.1404		0	0.2242	0.005490	0.002884	0.02246 0.2874

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 830.2 0.07182 0.2834 0.6186 0.02275 0.002535 0.6921
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6168 0.2992 0.2744 0.05105 0.1688 0.2193
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)

0.6511 0.1490 0.02234 0.2901 0.01290 0.1829
k(pl) x(ilm) Q(ilm)
0.07721 0.4904 8.496e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1907	0.1256	0.1399		0	0.2237	0.005359	0.002895	0.02315 0.2887

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 828.4 0.07045 0.2822 0.6218 0.02244 0.002465 0.6929
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6199 0.3003 0.2730 0.05113 0.1681 0.2208
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6543 0.1542 0.02323 0.2898 0.01260 0.1791
k(pl) x(ilm) Q(ilm)
0.07734 0.4875 8.271e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1883	0.1271	0.1395		0	0.2233	0.005227	0.002908	0.02384 0.2898

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 826.6 0.06909 0.2810 0.6250 0.02213 0.002396 0.6936
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6230 0.3013 0.2715 0.05121 0.1673 0.2223
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6575 0.1594 0.02416 0.2895 0.01229 0.1753
k(pl) x(ilm) Q(ilm)
0.07748 0.4845 8.052e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1859	0.1287	0.1390		0	0.2228	0.005093	0.002921	0.02453 0.2910

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 824.8 0.06774 0.2797 0.6283 0.02180 0.002328 0.6944
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6261 0.3023 0.2700 0.05129 0.1664 0.2238
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6607 0.1646 0.02512 0.2892 0.01198 0.1715
k(pl) x(ilm) Q(ilm)
0.07761 0.4815 7.841e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1836	0.1302	0.1386		0	0.2223	0.004957	0.002935	0.02522 0.2921

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 822.9 0.06642 0.2785 0.6315 0.02147 0.002261 0.6952
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6291 0.3033 0.2686 0.05137 0.1656 0.2253
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6638 0.1699 0.02611 0.2889 0.01167 0.1675
k(pl) x(ilm) Q(ilm)

0.07775 0.4785 7.636e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1814	0.1317	0.1383	0	0.2218	0.004820	0.002950	0.02592	0.2932

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.30 821.1 0.06510 0.2773 0.6347 0.02113 0.002196 0.6959
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6322 0.3043 0.2671 0.05145 0.1648 0.2269
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6669 0.1752 0.02713 0.2885 0.01136 0.1636
k(pl) x(ilm) Q(ilm)
0.07788 0.4755 7.439e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1791	0.1331	0.1379	0	0.2212	0.004683	0.002966	0.02661	0.2943

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 819.2 0.06381 0.2761 0.6379 0.02078 0.002131 0.6967
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6352 0.3053 0.2656 0.05152 0.1640 0.2284
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6700 0.1806 0.02818 0.2882 0.01105 0.1596
k(pl) x(ilm) Q(ilm)
0.07801 0.4724 7.248e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1770	0.1346	0.1376	0	0.2207	0.004545	0.002983	0.02730	0.2954

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 817.3 0.06254 0.2749 0.6410 0.02043 0.002068 0.6974
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6382 0.3063 0.2640 0.05159 0.1632 0.2300
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6730 0.1859 0.02925 0.2878 0.01073 0.1557
k(pl) x(ilm) Q(ilm)
0.07813 0.4694 7.064e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1748	0.1359	0.1373	0	0.2201	0.004406	0.003000	0.02798	0.2964

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 815.4 0.06129 0.2737 0.6441 0.02007 0.002007 0.6981
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6412 0.3073 0.2625 0.05166 0.1625 0.2315
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6760 0.1912 0.03035 0.2874 0.01042 0.1517
k(pl) x(ilm) Q(ilm)
0.07825 0.4663 6.886e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1728	0.1373	0.1370		0	0.2196	0.004268	0.003018	0.02866 0.2974

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.70	813.5	0.06006	0.2725	0.6472	0.01971	0.001947	0.6988
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6441	0.3083	0.2610	0.05172	0.1617	0.2331	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6790	0.1964	0.03146	0.2869	0.01011	0.1478	
	k(pl)	x(ilm)	Q(ilm)				
	0.07835	0.4632	6.714e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1707	0.1386	0.1368		0	0.2190	0.004130	0.003036	0.02933 0.2984

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.80	811.6	0.05885	0.2713	0.6501	0.01935	0.001889	0.6995
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6470	0.3092	0.2594	0.05178	0.1609	0.2347	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6819	0.2016	0.03258	0.2865	0.009805	0.1438	
	k(pl)	x(ilm)	Q(ilm)				
	0.07845	0.4602	6.549e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1688	0.1399	0.1365		0	0.2185	0.003993	0.003055	0.03000 0.2993

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.90	809.7	0.05766	0.2701	0.6530	0.01899	0.001833	0.7002
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6499	0.3102	0.2578	0.05184	0.1601	0.2363	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6847	0.2067	0.03372	0.2859	0.009500	0.1399	
	k(pl)	x(ilm)	Q(ilm)				
	0.07852	0.4571	6.389e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1669	0.1412	0.1363		0	0.2179	0.003856	0.003074	0.03065 0.3002

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	807.9	0.05650	0.2689	0.6558	0.01863	0.001779	0.7008
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6527	0.3111	0.2563	0.05189	0.1593	0.2379	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6875	0.2118	0.03487	0.2854	0.009198	0.1361	
	k(pl)	x(ilm)	Q(ilm)				
	0.07858	0.4541	6.236e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1650	0.1424	0.1360		0	0.2174	0.003721	0.003093	0.03130 0.3011

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.10	806.0	0.05537	0.2678	0.6585	0.01827	0.001726	0.7015
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6555	0.3120	0.2547	0.05195	0.1586	0.2394	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6902	0.2167	0.03602	0.2848	0.008900	0.1323	
	k(pl)	x(ilm)	Q(ilm)				
	0.07863	0.4510	6.088e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1632	0.1435	0.1358		0	0.2169	0.003588	0.003113	0.03194 0.3019

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	804.1	0.05426	0.2666	0.6611	0.01791	0.001675	0.7021
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6583	0.3130	0.2531	0.05199	0.1578	0.2410	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6929	0.2216	0.03718	0.2842	0.008606	0.1285	
	k(pl)	x(ilm)	Q(ilm)				
	0.07865	0.4480	5.945e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1614	0.1447	0.1356		0	0.2164	0.003456	0.003132	0.03257 0.3027

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.30	802.3	0.05317	0.2654	0.6636	0.01755	0.001626	0.7028
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6610	0.3139	0.2515	0.05204	0.1571	0.2426	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6956	0.2264	0.03834	0.2835	0.008317	0.1248	
	k(pl)	x(ilm)	Q(ilm)				
	0.07865	0.4450	5.808e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1597	0.1458	0.1354		0	0.2159	0.003326	0.003151	0.03319 0.3035

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	800.4	0.05211	0.2643	0.6660	0.01720	0.001578	0.7034
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6637	0.3147	0.2499	0.05208	0.1564	0.2442	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6981	0.2311	0.03950	0.2828	0.008032	0.1212	
	k(pl)	x(ilm)	Q(ilm)				
	0.07863	0.4420	5.676e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1580	0.1469	0.1352		0	0.2154	0.003198	0.003171	0.03379 0.3043

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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17.50 798.6 0.05107 0.2632 0.6683 0.01685 0.001533 0.7040
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6663 0.3156 0.2483 0.05211 0.1557 0.2458
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7007 0.2358 0.04066 0.2820 0.007753 0.1176
k(pl) x(ilm) Q(ilm)
0.07859 0.4391 5.549e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1564	0.1479	0.1351		0	0.2149	0.003072	0.003190	0.03439 0.3050

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 796.8 0.05006 0.2620 0.6705 0.01651 0.001489 0.7046
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6689 0.3165 0.2467 0.05215 0.1550 0.2474
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7031 0.2403 0.04182 0.2812 0.007480 0.1141
k(pl) x(ilm) Q(ilm)
0.07852 0.4361 5.426e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1548	0.1490	0.1349		0	0.2145	0.002949	0.003209	0.03497 0.3057

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.70 795.0 0.04907 0.2609 0.6726 0.01617 0.001446 0.7052
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6714 0.3173 0.2451 0.05218 0.1543 0.2490
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7055 0.2447 0.04297 0.2803 0.007212 0.1107
k(pl) x(ilm) Q(ilm)
0.07843 0.4332 5.308e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1533	0.1500	0.1347		0	0.2140	0.002828	0.003227	0.03554 0.3064

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 793.2 0.04810 0.2598 0.6745 0.01584 0.001405 0.7058
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6740 0.3182 0.2435 0.05220 0.1536 0.2506
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7079 0.2490 0.04411 0.2794 0.006950 0.1074
k(pl) x(ilm) Q(ilm)
0.07831 0.4303 5.195e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1518	0.1509	0.1345		0	0.2136	0.002710	0.003246	0.03610 0.3071

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 791.5 0.04716 0.2586 0.6764 0.01551 0.001366 0.7064
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6764 0.3190 0.2418 0.05222 0.1529 0.2522
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7102 0.2532 0.04524 0.2784 0.006695 0.1041
k(pl) x(ilm) Q(ilm)
0.07816 0.4274 5.085e-5

mode liq bi g ksp pl ilm ru ky q
0.1503 0.1519 0.1343 0 0.2132 0.002594 0.003264 0.03665 0.3077

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 789.7 0.04624 0.2575 0.6781 0.01519 0.001328 0.7070
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6789 0.3198 0.2402 0.05224 0.1522 0.2538
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7125 0.2573 0.04637 0.2774 0.006446 0.1010
k(pl) x(ilm) Q(ilm)
0.07799 0.4246 4.979e-5

mode liq bi g ksp pl ilm ru ky q
0.1489 0.1528 0.1342 0 0.2128 0.002481 0.003282 0.03718 0.3084

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10 788.0 0.04534 0.2564 0.6797 0.01488 0.001291 0.7075
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6813 0.3207 0.2386 0.05225 0.1516 0.2554
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7147 0.2613 0.04749 0.2764 0.006203 0.09789
k(pl) x(ilm) Q(ilm)
0.07779 0.4217 4.877e-5

mode liq bi g ksp pl ilm ru ky q
0.1475 0.1537 0.1340 0 0.2125 0.002370 0.003299 0.03771 0.3089

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 786.3 0.04447 0.2553 0.6812 0.01457 0.001256 0.7081
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6836 0.3215 0.2370 0.05226 0.1509 0.2570
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7169 0.2652 0.04859 0.2752 0.005967 0.09489
k(pl) x(ilm) Q(ilm)
0.07757 0.4189 4.778e-5

mode liq bi g ksp pl ilm ru ky q
0.1462 0.1545 0.1338 0 0.2121 0.002262 0.003317 0.03822 0.3095

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.30 784.6 0.04361 0.2542 0.6826 0.01427 0.001222 0.7086
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6860 0.3223 0.2354 0.05227 0.1503 0.2586
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)

0.7191 0.2690 0.04969 0.2741 0.005738 0.09197
k(pl) x(ilm) Q(ilm)
0.07731 0.4162 4.683e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1449	0.1554	0.1336		0	0.2118	0.002157	0.003334	0.03872 0.3101

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 782.9 0.04278 0.2531 0.6839 0.01397 0.001190 0.7092
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6883 0.3230 0.2337 0.05227 0.1497 0.2601
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7212 0.2727 0.05077 0.2729 0.005516 0.08914
k(pl) x(ilm) Q(ilm)
0.07704 0.4134 4.591e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1436	0.1562	0.1335		0	0.2115	0.002054	0.003350	0.03922 0.3106

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50 781.3 0.04196 0.2520 0.6851 0.01368 0.001158 0.7097
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6905 0.3238 0.2321 0.05227 0.1491 0.2617
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7232 0.2763 0.05185 0.2716 0.005300 0.08638
k(pl) x(ilm) Q(ilm)
0.07674 0.4107 4.503e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1423	0.1570	0.1333		0	0.2112	0.001953	0.003366	0.03970 0.3111

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 779.6 0.04117 0.2509 0.6862 0.01340 0.001128 0.7103
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6928 0.3246 0.2305 0.05226 0.1485 0.2633
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7253 0.2799 0.05291 0.2703 0.005091 0.08370
k(pl) x(ilm) Q(ilm)
0.07641 0.4080 4.417e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1411	0.1578	0.1331		0	0.2109	0.001855	0.003382	0.04017 0.3116

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.70 778.0 0.04039 0.2499 0.6871 0.01312 0.001099 0.7108
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6950 0.3253 0.2288 0.05226 0.1479 0.2649
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7272 0.2833 0.05396 0.2690 0.004888 0.08110
k(pl) x(ilm) Q(ilm)

0.07606 0.4053 4.334e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1399	0.1586	0.1329		0	0.2107	0.001760	0.003397	0.04063 0.3121

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 776.4 0.03963 0.2488 0.6880 0.01285 0.001071 0.7113
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6971 0.3261 0.2272 0.05224 0.1473 0.2664
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7292 0.2867 0.05500 0.2677 0.004692 0.07858
k(pl) x(ilm) Q(ilm)
0.07569 0.4027 4.253e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1388	0.1593	0.1327		0	0.2104	0.001667	0.003413	0.04108 0.3126

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.90 774.8 0.03889 0.2477 0.6887 0.01259 0.001044 0.7118
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6993 0.3268 0.2256 0.05223 0.1467 0.2680
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7311 0.2900 0.05603 0.2663 0.004503 0.07614
k(pl) x(ilm) Q(ilm)
0.07529 0.4001 4.176e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1377	0.1600	0.1325		0	0.2102	0.001577	0.003427	0.04152 0.3131

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 773.3 0.03817 0.2466 0.6893 0.01233 0.001018 0.7123
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7014 0.3275 0.2240 0.05221 0.1461 0.2696
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7330 0.2932 0.05705 0.2648 0.004320 0.07376
k(pl) x(ilm) Q(ilm)
0.07488 0.3975 4.100e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1365	0.1608	0.1324		0	0.2100	0.001489	0.003442	0.04196 0.3135

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.10 771.7 0.03747 0.2456 0.6899 0.012080 0.0009925 0.7129
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7034 0.3283 0.2223 0.05219 0.1456 0.2711
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.7348 0.2964 0.05805 0.2633 0.004143 0.07146
k(pl) x(ilm) Q(ilm)
0.07444 0.3949 4.027e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1355	0.1615	0.1322		0	0.2097	0.001403	0.003456	0.04238 0.3139

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.20 770.2 0.03678 0.2445 0.6903 0.011830.0009682 0.7134

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7055 0.3290 0.2207 0.05216 0.1450 0.2727

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)

0.7367 0.2994 0.05905 0.2618 0.003973 0.06923

k(pl) x(ilm) Q(ilm)

0.07399 0.3923 3.956e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1344	0.1621	0.1320		0	0.2096	0.001319	0.003469	0.04280 0.3143

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.30 768.6 0.03610 0.2434 0.6906 0.011590.0009447 0.7138

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7075 0.3297 0.2191 0.05213 0.1445 0.2742

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)

0.7384 0.3024 0.06003 0.2603 0.003808 0.06707

k(pl) x(ilm) Q(ilm)

0.07351 0.3898 3.888e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1334	0.1628	0.1318		0	0.2094	0.001238	0.003483	0.04320 0.3147

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.40 767.1 0.03545 0.2424 0.6909 0.011360.0009220 0.7143

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7095 0.3304 0.2175 0.05210 0.1440 0.2758

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)

0.7402 0.3054 0.06100 0.2588 0.003650 0.06497

k(pl) x(ilm) Q(ilm)

0.07302 0.3873 3.821e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1324	0.1635	0.1316		0	0.2092	0.001159	0.003496	0.04360 0.3151

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.50 765.6 0.03480 0.2413 0.6910 0.011130.0009001 0.7148

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7115 0.3310 0.2159 0.05206 0.1434 0.2773

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)

0.7419 0.3082 0.06195 0.2572 0.003498 0.06294

k(pl) x(ilm) Q(ilm)

0.07252 0.3848 3.756e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1314	0.1641	0.1314		0	0.2091	0.001081	0.003509	0.04399 0.3155

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.60 764.2 0.03418 0.2403 0.6910 0.010910.0008790 0.7153
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7134 0.3317 0.2142 0.05203 0.1429 0.2788
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.7436 0.3110 0.06290 0.2556 0.003351 0.06098
 k(pl) x(ilm) Q(ilm)
 0.07200 0.3823 3.693e-5

mode liq bi g ksp pl ilm ru ky q
 0.1304 0.1647 0.1312 0 0.2089 0.001006 0.003521 0.04438 0.3159

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.70 762.7 0.03356 0.2392 0.6909 0.010690.0008586 0.7158
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7153 0.3324 0.2126 0.05198 0.1424 0.2804
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.7453 0.3137 0.06383 0.2539 0.003210 0.05907
 k(pl) x(ilm) Q(ilm)
 0.07146 0.3799 3.632e-5

mode liq bi g ksp pl ilm ru ky q
 0.1295 0.1653 0.1310 0 0.20880.0009335 0.003533 0.04475 0.3162

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.80 761.2 0.03297 0.2382 0.6908 0.010480.0008389 0.7162
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7172 0.3330 0.2110 0.05194 0.1419 0.2819
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.7469 0.3164 0.06476 0.2523 0.003074 0.05722
 k(pl) x(ilm) Q(ilm)
 0.07092 0.3775 3.573e-5

mode liq bi g ksp pl ilm ru ky q
 0.1286 0.1659 0.1308 0 0.20870.0008624 0.003545 0.04512 0.3166

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.90 759.8 0.03238 0.2371 0.6905 0.010270.0008199 0.7167
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7191 0.3337 0.2094 0.05189 0.1414 0.2834
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.7485 0.3190 0.06567 0.2506 0.002944 0.05543
 k(pl) x(ilm) Q(ilm)
 0.07036 0.3751 3.515e-5

mode liq bi g ksp pl ilm ru ky q
 0.1276 0.1665 0.1306 0 0.20860.0007933 0.003557 0.04548 0.3169

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

```

20.00  758.4 0.03181 0.2361 0.6902 0.010070.0008015 0.7171
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7209 0.3343 0.2078 0.05184 0.1409 0.2849
      x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
      0.7501 0.3215 0.06656 0.2490 0.002819 0.05370
      k(pl) x(ilm) Q(ilm)
      0.06979 0.3727 3.459e-5

```

```

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.1268 0.1670 0.1304 0 0.20850.0007262 0.003568 0.04583 0.3172
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
  6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>

```

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phases : liq, bi, g, ksp, pl, ilm, ru, q

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.93    742.0 0.03183 0.2094 0.4987 0.02812 5.233e-5 0.6629
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7217 0.3056 0.6960 0.03436 0.1219 0.05984
      x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
      0.6670 0.1222 0.006012 0.1811 0.005620 0.1893
      k(pl) x(ilm) Q(ilm)
      0.04184 0.2231 1.145e-5

```

```

mode  liq  bi  g  ksp  pl  ilm  ru  q
      0.1279 0.1470 0.1328 0 0.2581 0.005328 0.003825 0.3250

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.67    745.0 0.03327 0.2117 0.5048 0.02779 6.014e-5 0.6643
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7181 0.3065 0.6881 0.03505 0.1232 0.06232
      x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
      0.6656 0.1179 0.005978 0.1837 0.005863 0.1933
      k(pl) x(ilm) Q(ilm)
      0.04249 0.2302 1.204e-5

```

```

mode  liq  bi  g  ksp  pl  ilm  ru  q
      0.1295 0.1465 0.1323 0 0.2585 0.005347 0.003792 0.3240

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.42    748.0 0.03475 0.2141 0.5103 0.02749 6.887e-5 0.6656
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7144 0.3073 0.6803 0.03571 0.1245 0.06480
      x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
      0.6641 0.1137 0.005939 0.1864 0.006110 0.1971
      k(pl) x(ilm) Q(ilm)
      0.04313 0.2374 1.265e-5

```


mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.1313	0.1459	0.1319		0	0.2588	0.005369	0.003761 0.3229

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.17	751.0	0.03626	0.2165	0.5153	0.02720	7.863e-5	0.6668
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7106	0.3080	0.6725	0.03636	0.1259	0.06726	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6625	0.1096	0.005896	0.1891	0.006361	0.2008	
	k(pl)	x(ilm)	Q(ilm)				
	0.04377	0.2446	1.330e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.1331	0.1453	0.1315		0	0.2591	0.005394	0.003731 0.3218

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.92	754.0	0.03781	0.2189	0.5199	0.02693	8.950e-5	0.6680
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7067	0.3086	0.6648	0.03698	0.1272	0.06970	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6609	0.1055	0.005850	0.1918	0.006617	0.2044	
	k(pl)	x(ilm)	Q(ilm)				
	0.04442	0.2519	1.398e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.1350	0.1445	0.1312		0	0.2594	0.005421	0.003701 0.3207

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.68	757.0	0.03940	0.2214	0.5241	0.026670	0.0001016	0.6691
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7027	0.3091	0.6572	0.03758	0.1285	0.07214	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6592	0.1015	0.005803	0.1945	0.006878	0.2079	
	k(pl)	x(ilm)	Q(ilm)				
	0.04507	0.2592	1.469e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.1370	0.1438	0.1310		0	0.2596	0.005450	0.003672 0.3195

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.44	760.0	0.04104	0.2238	0.5279	0.026420	0.0001151	0.6702
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6987	0.3096	0.6495	0.03816	0.1298	0.07456	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6574	0.09765	0.005754	0.1972	0.007144	0.2113	
	k(pl)	x(ilm)	Q(ilm)				
	0.04573	0.2667	1.544e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
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0.1391 0.1429 0.1308 0 0.2598 0.005483 0.003644 0.3183

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.21 763.0 0.04272 0.2263 0.5313 0.026170.0001300 0.6711
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6945 0.3100 0.6420 0.03873 0.1311 0.07698
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6556 0.09385 0.005707 0.1999 0.007416 0.2145
k(pl) x(ilm) Q(ilm)
0.04639 0.2742 1.624e-5

mode liq bi g ksp pl ilm ru q
0.1412 0.1420 0.1307 0 0.2599 0.005518 0.003616 0.3170

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.97 766.0 0.04445 0.2288 0.5345 0.025940.0001466 0.6720
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6903 0.3103 0.6344 0.03927 0.1325 0.07938
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6537 0.09015 0.005660 0.2027 0.007693 0.2177
k(pl) x(ilm) Q(ilm)
0.04706 0.2819 1.708e-5

mode liq bi g ksp pl ilm ru q
0.1435 0.1410 0.1307 0 0.2600 0.005555 0.003589 0.3157

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.74 769.0 0.04623 0.2314 0.5373 0.025710.0001650 0.6728
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6859 0.3105 0.6269 0.03979 0.1338 0.08178
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6518 0.08656 0.005615 0.2055 0.007976 0.2207
k(pl) x(ilm) Q(ilm)
0.04774 0.2896 1.798e-5

mode liq bi g ksp pl ilm ru q
0.1458 0.1400 0.1307 0 0.2600 0.005595 0.003562 0.3143

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.51 772.0 0.04806 0.2340 0.5398 0.025490.0001853 0.6736
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6815 0.3106 0.6194 0.04029 0.1352 0.08418
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6498 0.08309 0.005573 0.2083 0.008265 0.2236
k(pl) x(ilm) Q(ilm)
0.04842 0.2974 1.893e-5

mode liq bi g ksp pl ilm ru q
0.1482 0.1389 0.1308 0 0.2599 0.005638 0.003536 0.3129

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.28 775.0 0.04995 0.2366 0.5421 0.025280.0002078 0.6743
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6769 0.3106 0.6119 0.04078 0.1365 0.08658
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6477 0.07973 0.005534 0.2111 0.008560 0.2265
k(pl) x(ilm) Q(ilm)
0.04911 0.3054 1.994e-5

mode liq bi g ksp pl ilm ru q
0.1508 0.1377 0.1310 0 0.2598 0.005684 0.003511 0.3115

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.05 778.0 0.05190 0.2392 0.5441 0.025080.0002327 0.6749
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6722 0.3105 0.6043 0.04125 0.1379 0.08898
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6456 0.07650 0.005499 0.2140 0.008862 0.2292
k(pl) x(ilm) Q(ilm)
0.04982 0.3134 2.102e-5

mode liq bi g ksp pl ilm ru q
0.1535 0.1365 0.1312 0 0.2597 0.005733 0.003486 0.3099

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.82 781.0 0.05390 0.2419 0.5459 0.024880.0002602 0.6754
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6675 0.3104 0.5968 0.04171 0.1393 0.09139
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6434 0.07340 0.005469 0.2169 0.009171 0.2319
k(pl) x(ilm) Q(ilm)
0.05053 0.3215 2.218e-5

mode liq bi g ksp pl ilm ru q
0.1563 0.1351 0.1316 0 0.2594 0.005785 0.003462 0.3083

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 784.0 0.05597 0.2446 0.5474 0.024690.0002906 0.6758
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6626 0.3101 0.5892 0.04215 0.1407 0.09381
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6411 0.07043 0.005443 0.2198 0.009487 0.2344
k(pl) x(ilm) Q(ilm)
0.05125 0.3298 2.343e-5

mode liq bi g ksp pl ilm ru q
0.1592 0.1337 0.1319 0 0.2592 0.005840 0.003438 0.3067

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.37 787.0 0.05809 0.2473 0.5486 0.024500.0003242 0.6762

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6576 0.3098 0.5816 0.04257 0.1422 0.09625
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6388 0.06759 0.005423 0.2228 0.009811 0.2369
k(pl) x(ilm) Q(ilm)
0.05198 0.3381 2.476e-5

mode liq bi g ksp pl ilm ru q
0.1623 0.1322 0.1324 0 0.2588 0.005899 0.003415 0.3050

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.15 790.0 0.06028 0.2501 0.5496 0.024330.0003612 0.6764
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6525 0.3093 0.5740 0.04298 0.1436 0.09871
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6363 0.06488 0.005409 0.2257 0.01014 0.2392
k(pl) x(ilm) Q(ilm)
0.05273 0.3466 2.620e-5

mode liq bi g ksp pl ilm ru q
0.1655 0.1307 0.1330 0 0.2584 0.005960 0.003392 0.3032

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.92 793.0 0.06252 0.2529 0.5504 0.024160.0004020 0.6766
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6472 0.3087 0.5662 0.04338 0.1451 0.1012
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6339 0.06231 0.005401 0.2287 0.01048 0.2415
k(pl) x(ilm) Q(ilm)
0.05348 0.3551 2.776e-5

mode liq bi g ksp pl ilm ru q
0.1688 0.1290 0.1336 0 0.2579 0.006026 0.003370 0.3013

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.70 796.0 0.06483 0.2557 0.5510 0.024000.0004469 0.6767
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6419 0.3080 0.5584 0.04376 0.1467 0.1037
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6313 0.05988 0.005399 0.2318 0.01083 0.2438
k(pl) x(ilm) Q(ilm)
0.05424 0.3637 2.944e-5

mode liq bi g ksp pl ilm ru q
0.1723 0.1272 0.1343 0 0.2573 0.006094 0.003349 0.2994

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.48 799.0 0.06720 0.2586 0.5514 0.023860.0004964 0.6766
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6365 0.3072 0.5505 0.04414 0.1482 0.1062

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6286 0.05758 0.005404 0.2348 0.01118 0.2459
k(pl) x(ilm) Q(ilm)
0.05500 0.3725 3.126e-5

mode liq bi g ksp pl ilm ru q
0.1760 0.1254 0.1351 0 0.2567 0.006167 0.003329 0.2974

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.27 802.0 0.06962 0.2614 0.5515 0.023720.0005507 0.6765
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6310 0.3062 0.5425 0.04450 0.1498 0.1088
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6259 0.05543 0.005416 0.2379 0.01154 0.2479
k(pl) x(ilm) Q(ilm)
0.05578 0.3812 3.324e-5

mode liq bi g ksp pl ilm ru q
0.1798 0.1234 0.1360 0 0.2560 0.006243 0.003310 0.2953

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.05 805.0 0.07209 0.2643 0.5514 0.023600.0006104 0.6763
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6253 0.3052 0.5343 0.04484 0.1514 0.1114
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6231 0.05341 0.005436 0.2409 0.01191 0.2499
k(pl) x(ilm) Q(ilm)
0.05656 0.3901 3.539e-5

mode liq bi g ksp pl ilm ru q
0.1838 0.1214 0.1369 0 0.2552 0.006324 0.003291 0.2931

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.84 808.0 0.07461 0.2673 0.5512 0.023500.0006760 0.6760
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6197 0.3040 0.5261 0.04518 0.1530 0.1140
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6202 0.05152 0.005464 0.2440 0.01229 0.2518
k(pl) x(ilm) Q(ilm)
0.05735 0.3990 3.773e-5

mode liq bi g ksp pl ilm ru q
0.1880 0.1192 0.1380 0 0.2543 0.006408 0.003274 0.2908

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.63 811.0 0.07717 0.2702 0.5507 0.023410.0007477 0.6756
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6139 0.3026 0.5177 0.04551 0.1546 0.1167
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6172 0.04977 0.005499 0.2471 0.01267 0.2536

k(pl) x(ilm) Q(ilm)
0.05815 0.4079 4.028e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.1923	0.1169	0.1391		0	0.2534	0.006495	0.003258	0.2885

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.43 814.0 0.07976 0.2732 0.5501 0.023340.0008262 0.6751
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6081 0.3012 0.5092 0.04582 0.1563 0.1194
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6141 0.04815 0.005543 0.2501 0.01306 0.2554
k(pl) x(ilm) Q(ilm)
0.05895 0.4168 4.306e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.1969	0.1146	0.1404		0	0.2523	0.006587	0.003243	0.2860

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.23 817.0 0.08239 0.2762 0.5493 0.023280.0009119 0.6745
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6022 0.2996 0.5006 0.04612 0.1581 0.1221
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6110 0.04666 0.005595 0.2532 0.01346 0.2571
k(pl) x(ilm) Q(ilm)
0.05976 0.4257 4.609e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.2016	0.1121	0.1417		0	0.2512	0.006682	0.003230	0.2835

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.04 820.0 0.08503 0.2791 0.5484 0.02325 0.001005 0.6738
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5963 0.2979 0.4919 0.04641 0.1598 0.1248
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6077 0.04529 0.005655 0.2562 0.01386 0.2587
k(pl) x(ilm) Q(ilm)
0.06056 0.4345 4.941e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.2064	0.1095	0.1431		0	0.2501	0.006781	0.003218	0.2809

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.86 823.0 0.08767 0.2821 0.5474 0.02323 0.001107 0.6730
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5905 0.2960 0.4830 0.04669 0.1616 0.1276
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6043 0.04406 0.005725 0.2592 0.01427 0.2602
k(pl) x(ilm) Q(ilm)
0.06138 0.4433 5.302e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2115	0.1068	0.1446		0	0.2488	0.006883	0.003208 0.2782

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.68	826.0	0.09032	0.2851	0.5462	0.02324	0.001217	0.6721
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5846	0.2941	0.4741	0.04695	0.1634	0.1304	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6009	0.04294	0.005803	0.2622	0.01469	0.2617	
	k(pl)	x(ilm)	Q(ilm)				
	0.06219	0.4519	5.697e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2167	0.1040	0.1461		0	0.2475	0.006989	0.003200 0.2755

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.51	829.0	0.09295	0.2880	0.5449	0.02327	0.001336	0.6712
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5787	0.2920	0.4650	0.04720	0.1652	0.1332	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.5973	0.04194	0.005891	0.2651	0.01511	0.2630	
	k(pl)	x(ilm)	Q(ilm)				
	0.06300	0.4604	6.128e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2220	0.1012	0.1478		0	0.2461	0.007097	0.003194 0.2727

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.35	832.0	0.09556	0.2910	0.5436	0.02332	0.001465	0.6701
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5729	0.2899	0.4559	0.04744	0.1671	0.1360	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.5937	0.04105	0.005989	0.2680	0.01553	0.2643	
	k(pl)	x(ilm)	Q(ilm)				
	0.06382	0.4687	6.596e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2275	0.09820	0.1495		0	0.2446	0.007207	0.003190 0.2698

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	835.0	0.09814	0.2939	0.5422	0.02340	0.001603	0.6690
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5672	0.2876	0.4467	0.04766	0.1689	0.1388	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.5900	0.04028	0.006096	0.2709	0.01596	0.2656	
	k(pl)	x(ilm)	Q(ilm)				
	0.06464	0.4769	7.107e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
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0.2331 0.09515 0.1513 0 0.2430 0.007319 0.003188 0.2669

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.06 838.0 0.1007 0.2968 0.5407 0.02349 0.001752 0.6678
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5615 0.2853 0.4375 0.04787 0.1708 0.1416
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5862 0.03961 0.006213 0.2737 0.01639 0.2667
k(pl) x(ilm) Q(ilm)
0.06546 0.4849 7.657e-5

mode liq bi g ksp pl ilm ru q
0.2388 0.09203 0.1532 0 0.2414 0.007433 0.003189 0.2640

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.93 841.0 0.1032 0.2996 0.5392 0.02361 0.001912 0.6665
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5559 0.2829 0.4282 0.04806 0.1727 0.1443
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5824 0.03903 0.006340 0.2764 0.01682 0.2678
k(pl) x(ilm) Q(ilm)
0.06628 0.4926 8.268e-5

mode liq bi g ksp pl ilm ru q
0.2446 0.08884 0.1551 0 0.2397 0.007547 0.003192 0.2610

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 844.0 0.1056 0.3024 0.5377 0.02376 0.002083 0.6652
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5504 0.2804 0.4189 0.04823 0.1746 0.1470
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5785 0.03856 0.006477 0.2791 0.01726 0.2688
k(pl) x(ilm) Q(ilm)
0.06710 0.5001 8.923e-5

mode liq bi g ksp pl ilm ru q
0.2505 0.08560 0.1571 0 0.2380 0.007662 0.003198 0.2580

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.69 847.0 0.1079 0.3052 0.5362 0.02392 0.002265 0.6638
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5450 0.2779 0.4097 0.04839 0.1765 0.1496
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5745 0.03818 0.006625 0.2818 0.01769 0.2697
k(pl) x(ilm) Q(ilm)
0.06793 0.5073 9.629e-5

mode liq bi g ksp pl ilm ru q
0.2565 0.08230 0.1591 0 0.2362 0.007777 0.003206 0.2550

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.59 850.0 0.1102 0.3079 0.5348 0.02411 0.002458 0.6624
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5398 0.2754 0.4004 0.04853 0.1784 0.1522
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5705 0.03789 0.006783 0.2844 0.01813 0.2705
 k(pl) x(ilm) Q(ilm)
 0.06876 0.51430.0001040

mode liq bi g ksp pl ilm ru q
 0.2626 0.07896 0.1611 0 0.2343 0.007891 0.003217 0.2519

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.49 853.0 0.1124 0.3105 0.5333 0.02432 0.002664 0.6609
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5346 0.2728 0.3913 0.04866 0.1804 0.1547
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5665 0.03767 0.006952 0.2869 0.01857 0.2713
 k(pl) x(ilm) Q(ilm)
 0.06959 0.52100.0001122

mode liq bi g ksp pl ilm ru q
 0.2687 0.07558 0.1632 0 0.2324 0.008004 0.003231 0.2489

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.40 856.0 0.1145 0.3131 0.5319 0.02455 0.002882 0.6594
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5296 0.2701 0.3822 0.04876 0.1823 0.1572
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5624 0.03754 0.007132 0.2894 0.01902 0.2719
 k(pl) x(ilm) Q(ilm)
 0.07043 0.52740.0001211

mode liq bi g ksp pl ilm ru q
 0.2748 0.07217 0.1653 0 0.2304 0.008116 0.003248 0.2459

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.33 859.0 0.1166 0.3157 0.5306 0.02480 0.003113 0.6578
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5248 0.2675 0.3731 0.04885 0.1842 0.1595
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5584 0.03749 0.007323 0.2919 0.01946 0.2725
 k(pl) x(ilm) Q(ilm)
 0.07128 0.53350.0001306

mode liq bi g ksp pl ilm ru q
 0.2810 0.06875 0.1675 0 0.2284 0.008225 0.003267 0.2429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.26 862.0 0.1185 0.3182 0.5293 0.02507 0.003357 0.6563

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5200 0.2649 0.3642 0.04892 0.1861 0.1618
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5543 0.03750 0.007525 0.2943 0.01991 0.2730
k(pl) x(ilm) Q(ilm)
0.07213 0.53940.0001409

mode liq bi g ksp pl ilm ru q
0.2871 0.06532 0.1696 0 0.2263 0.008332 0.003290 0.2400

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 865.0 0.1204 0.3207 0.5281 0.02536 0.003614 0.6547
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5154 0.2622 0.3554 0.04897 0.1881 0.1640
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5502 0.03759 0.007738 0.2967 0.02035 0.2734
k(pl) x(ilm) Q(ilm)
0.07299 0.54500.0001518

mode liq bi g ksp pl ilm ru q
0.2933 0.06188 0.1718 0 0.2242 0.008435 0.003315 0.2370

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.15 868.0 0.1221 0.3231 0.5269 0.02567 0.003884 0.6531
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5110 0.2596 0.3468 0.04900 0.1900 0.1660
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5461 0.03774 0.007962 0.2991 0.02080 0.2737
k(pl) x(ilm) Q(ilm)
0.07387 0.55030.0001634

mode liq bi g ksp pl ilm ru q
0.2995 0.05847 0.1739 0 0.2221 0.008535 0.003342 0.2342

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.11 871.0 0.1238 0.3254 0.5259 0.02599 0.004168 0.6515
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5066 0.2570 0.3384 0.04902 0.1919 0.1679
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5420 0.03795 0.008197 0.3014 0.02125 0.2740
k(pl) x(ilm) Q(ilm)
0.07475 0.55540.0001757

mode liq bi g ksp pl ilm ru q
0.3056 0.05505 0.1761 0 0.2199 0.008631 0.003373 0.2313

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.07 874.0 0.1254 0.3277 0.5249 0.02633 0.004468 0.6499
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5023 0.2544 0.3300 0.04901 0.1938 0.1698

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5379 0.03821 0.008446 0.3038 0.02170 0.2741
 k(pl) x(ilm) Q(ilm)
 0.07565 0.56030.0001888

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3119	0.05161	0.1782		0	0.2177	0.008724	0.003407 0.2285

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.04 877.0 0.1269 0.3300 0.5239 0.02668 0.004784 0.6482
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4982 0.2518 0.3217 0.04899 0.1957 0.1716
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5338 0.03852 0.008708 0.3061 0.02216 0.2742
 k(pl) x(ilm) Q(ilm)
 0.07656 0.56500.0002027

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3181	0.04815	0.1804		0	0.2154	0.008813	0.003444 0.2257

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.01 880.0 0.1284 0.3322 0.5230 0.02705 0.005115 0.6465
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4941 0.2492 0.3135 0.04895 0.1976 0.1732
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5296 0.03889 0.008985 0.3084 0.02262 0.2742
 k(pl) x(ilm) Q(ilm)
 0.07750 0.56940.0002173

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3244	0.04468	0.1826		0	0.2130	0.008897	0.003485 0.2229

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.99 883.0 0.1299 0.3343 0.5221 0.02743 0.005464 0.6448
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4900 0.2466 0.3054 0.04890 0.1995 0.1748
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5255 0.03931 0.009275 0.3108 0.02308 0.2741
 k(pl) x(ilm) Q(ilm)
 0.07845 0.57360.0002327

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3308	0.04120	0.1847		0	0.2107	0.008976	0.003530 0.2201

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.97 886.0 0.1313 0.3364 0.5213 0.02781 0.005830 0.6431
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4861 0.2440 0.2974 0.04883 0.2014 0.1763
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5213 0.03978 0.009581 0.3131 0.02355 0.2739

k(pl) x(ilm) Q(ilm)
0.07942 0.57760.0002486

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3372	0.03770	0.1869		0	0.2082	0.009050	0.003578 0.2173

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.96 889.0 0.1327 0.3385 0.5206 0.02821 0.006213 0.6413
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4821 0.2414 0.2895 0.04874 0.2033 0.1776
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5171 0.04030 0.009902 0.3154 0.02402 0.2736
k(pl) x(ilm) Q(ilm)
0.08041 0.58140.0002651

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3437	0.03420	0.1891		0	0.2057	0.009119	0.003630 0.2145

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.96 892.0 0.1340 0.3405 0.5199 0.02862 0.006615 0.6395
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4783 0.2389 0.2818 0.04863 0.2052 0.1789
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5129 0.04086 0.01024 0.3178 0.02450 0.2733
k(pl) x(ilm) Q(ilm)
0.08143 0.58500.0002820

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3502	0.03069	0.1912		0	0.2032	0.009181	0.003686 0.2118

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.95 895.0 0.1353 0.3425 0.5192 0.02904 0.007035 0.6377
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4745 0.2363 0.2742 0.04851 0.2071 0.1800
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5087 0.04146 0.01059 0.3202 0.02498 0.2728
k(pl) x(ilm) Q(ilm)
0.08247 0.58840.0002989

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3568	0.02717	0.1934		0	0.2006	0.009237	0.003746 0.2090

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.96 898.0 0.1365 0.3445 0.5187 0.02947 0.007474 0.6359
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4707 0.2337 0.2668 0.04838 0.2091 0.1811
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5045 0.04210 0.01096 0.3226 0.02547 0.2723
k(pl) x(ilm) Q(ilm)
0.08353 0.59160.0003161

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3635	0.02363	0.1956		0	0.1980	0.009287	0.003810 0.2062

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.96	901.0	0.1378	0.3464	0.5182	0.02990	0.007934	0.6341
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4670	0.2311	0.2595	0.04823	0.2110	0.1820	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.5003	0.04278	0.01135	0.3250	0.02596	0.2717	
	k(pl)	x(ilm)	Q(ilm)				
	0.08463	0.59470	0.003331				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3703	0.02009	0.1977		0	0.1952	0.009330	0.003879 0.2035

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.97	904.0	0.1389	0.3483	0.5177	0.03035	0.008413	0.6322
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4633	0.2286	0.2524	0.04806	0.2129	0.1828	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4960	0.04350	0.01176	0.3275	0.02646	0.2710	
	k(pl)	x(ilm)	Q(ilm)				
	0.08575	0.59760	0.003496				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3771	0.01653	0.1998		0	0.1925	0.009365	0.003952 0.2007

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.98	907.0	0.1401	0.3501	0.5173	0.03079	0.008913	0.6303
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4596	0.2260	0.2454	0.04788	0.2148	0.1835	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4918	0.04426	0.01218	0.3300	0.02697	0.2702	
	k(pl)	x(ilm)	Q(ilm)				
	0.08691	0.60030	0.003655				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3841	0.01295	0.2020		0	0.1896	0.009393	0.004029 0.1979

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.99	910.0	0.1413	0.3520	0.5170	0.03125	0.009434	0.6283
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4560	0.2235	0.2385	0.04769	0.2167	0.1841	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4875	0.04504	0.01263	0.3325	0.02749	0.2694	
	k(pl)	x(ilm)	Q(ilm)				
	0.08809	0.60290	0.003804				

mode	liq	bi	g	ksp	pl	ilm	ru	q
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0.3912 0.009356 0.2041 0 0.1867 0.009414 0.004112 0.1952

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 913.0 0.1424 0.3538 0.5167 0.03171 0.009977 0.6263
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4523 0.2209 0.2319 0.04749 0.2187 0.1845
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4831 0.04586 0.01310 0.3351 0.02801 0.2685
k(pl) x(ilm) Q(ilm)
0.08931 0.60530.0003939

mode liq bi g ksp pl ilm ru q
0.3983 0.005735 0.2062 0 0.1837 0.009426 0.004200 0.1924

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.02 916.0 0.1435 0.3555 0.5165 0.03217 0.01054 0.6243
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4487 0.2184 0.2254 0.04727 0.2206 0.1849
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4788 0.04671 0.01358 0.3377 0.02855 0.2675
k(pl) x(ilm) Q(ilm)
0.09057 0.60760.0004058

mode liq bi g ksp pl ilm ru q
0.4057 0.002088 0.2083 0 0.1806 0.009430 0.004293 0.1896

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.03 917.7 0.1441 0.3565 0.5164 0.03243 0.01087 0.6231
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4466 0.2169 0.2217 0.04715 0.2217 0.1850
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4763 0.04720 0.01387 0.3392 0.02886 0.2669
k(pl) x(ilm) Q(ilm)
0.09129 0.60880.0004117

mode liq bi g ksp pl ilm ru q
0.4099 0 0.2095 0 0.1789 0.009428 0.004348 0.1879

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.10	917.1	0.1430	0.3555	0.5176	0.03246	0.01063	0.6232
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4491	0.2169	0.2229	0.04745	0.2211	0.1848
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4768	0.04774	0.01393	0.3387	0.02867	0.2660
		k(pl)	x(ilm)	Q(ilm)			
		0.09120	0.60550	0.0003677			

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.4065	0	0.2102	0.001881	0.1786	0.009343	0.004385	0.1891

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	916.2	0.1414	0.3541	0.5194	0.03249	0.01030	0.6233
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4525	0.2169	0.2246	0.04786	0.2203	0.1844
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4775	0.04848	0.01402	0.3380	0.02841	0.2649
		k(pl)	x(ilm)	Q(ilm)			
		0.09107	0.60100	0.0003194			

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.4018	0	0.2111	0.004446	0.1783	0.009228	0.004437	0.1906

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.30	915.3	0.1398	0.3527	0.5212	0.03251	0.009974	0.6234
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4559	0.2169	0.2263	0.04829	0.2195	0.1840
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4783	0.04922	0.01410	0.3373	0.02815	0.2637
		k(pl)	x(ilm)	Q(ilm)			
		0.09092	0.59630	0.0002813			

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3972	0	0.2120	0.006975	0.1781	0.009115	0.004487	0.1922

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	914.4	0.1382	0.3512	0.5230	0.03253	0.009646	0.6235
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4593	0.2168	0.2281	0.04871	0.2187	0.1835
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4790	0.04996	0.01418	0.3366	0.02787	0.2626
		k(pl)	x(ilm)	Q(ilm)			
		0.09075	0.59160	0.0002505			

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3926	0	0.2129	0.009468	0.1778	0.009003	0.004537	0.1937

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.50 913.4 0.1366 0.3498 0.5247 0.03254 0.009319 0.6235
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4627 0.2168 0.2300 0.04914 0.2178 0.1831
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4796 0.05068 0.01425 0.3358 0.02760 0.2614
 k(pl) x(ilm) Q(ilm)
 0.09058 0.58680.0002251

mode liq bi g ksp pl ilm ru q
 0.3881 0 0.2137 0.01192 0.1775 0.008894 0.004585 0.1952

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 912.4 0.1350 0.3483 0.5265 0.03255 0.008994 0.6235
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4662 0.2167 0.2320 0.04958 0.2170 0.1826
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4803 0.05141 0.01431 0.3350 0.02731 0.2603
 k(pl) x(ilm) Q(ilm)
 0.09038 0.58200.0002038

mode liq bi g ksp pl ilm ru q
 0.3836 0 0.2146 0.01434 0.1773 0.008786 0.004634 0.1967

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.70 911.3 0.1335 0.3468 0.5283 0.03255 0.008672 0.6235
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4696 0.2166 0.2341 0.05001 0.2161 0.1821
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4810 0.05212 0.01437 0.3341 0.02702 0.2591
 k(pl) x(ilm) Q(ilm)
 0.09017 0.57700.0001857

mode liq bi g ksp pl ilm ru q
 0.3792 0 0.2154 0.01672 0.1771 0.008681 0.004681 0.1982

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 910.2 0.1319 0.3453 0.5300 0.03255 0.008352 0.6235
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4731 0.2165 0.2363 0.05045 0.2152 0.1815
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4816 0.05283 0.01443 0.3333 0.02673 0.2580
 k(pl) x(ilm) Q(ilm)
 0.08995 0.57200.0001701

mode liq bi g ksp pl ilm ru q
 0.3748 0 0.2163 0.01907 0.1769 0.008578 0.004727 0.1996

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.90 909.1 0.1303 0.3438 0.5318 0.03254 0.008036 0.6234

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4766 0.2163 0.2386 0.05089 0.2143 0.1809
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4822 0.05352 0.01448 0.3323 0.02643 0.2568
 k(pl) x(ilm) Q(ilm)
 0.08971 0.56690.0001566

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3705	0	0.2171	0.02137	0.1768	0.008478	0.004773	0.2010

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 907.9 0.1287 0.3423 0.5335 0.03253 0.007724 0.6233
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4801 0.2162 0.2410 0.05134 0.2135 0.1803
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4828 0.05421 0.01452 0.3314 0.02613 0.2557
 k(pl) x(ilm) Q(ilm)
 0.08946 0.56180.0001447

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3662	0	0.2179	0.02363	0.1767	0.008380	0.004817	0.2024

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.10 906.7 0.1271 0.3407 0.5352 0.03251 0.007416 0.6232
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4836 0.2160 0.2434 0.05178 0.2126 0.1796
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4834 0.05488 0.01455 0.3304 0.02582 0.2545
 k(pl) x(ilm) Q(ilm)
 0.08919 0.55660.0001342

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3620	0	0.2186	0.02584	0.1766	0.008284	0.004861	0.2038

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 905.4 0.1255 0.3392 0.5369 0.03249 0.007113 0.6230
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4871 0.2158 0.2460 0.05223 0.2117 0.1789
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4840 0.05554 0.01458 0.3294 0.02551 0.2534
 k(pl) x(ilm) Q(ilm)
 0.08890 0.55130.0001249

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3578	0	0.2194	0.02802	0.1765	0.008191	0.004904	0.2052

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.30 904.1 0.1240 0.3376 0.5386 0.03246 0.006815 0.6228
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4906 0.2156 0.2487 0.05267 0.2107 0.1781

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4846 0.05619 0.01460 0.3283 0.02519 0.2523
 k(pl) x(ilm) Q(ilm)
 0.08860 0.54590.0001165

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3537	0	0.2201	0.03015	0.1764	0.008100	0.004946	0.2065

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.40 902.8 0.1224 0.3360 0.5403 0.03243 0.006523 0.6226
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4942 0.2154 0.2515 0.05312 0.2098 0.1774
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4851 0.05682 0.01461 0.3272 0.02487 0.2511
 k(pl) x(ilm) Q(ilm)
 0.08828 0.54050.0001090

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3496	0	0.2209	0.03223	0.1764	0.008013	0.004987	0.2079

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.50 901.4 0.1208 0.3344 0.5419 0.03240 0.006237 0.6224
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4977 0.2152 0.2544 0.05356 0.2089 0.1765
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4856 0.05745 0.01461 0.3260 0.02455 0.2500
 k(pl) x(ilm) Q(ilm)
 0.08794 0.53500.0001022

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3456	0	0.2216	0.03427	0.1764	0.007927	0.005027	0.2092

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.60 900.1 0.1193 0.3328 0.5435 0.03236 0.005957 0.6221
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5013 0.2149 0.2574 0.05400 0.2080 0.1757
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4861 0.05805 0.01461 0.3248 0.02422 0.2489
 k(pl) x(ilm) Q(ilm)
 0.08759 0.5295 9.608e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3416	0	0.2222	0.03627	0.1765	0.007845	0.005067	0.2105

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.70 898.7 0.1177 0.3312 0.5451 0.03232 0.005687 0.6219
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5048 0.2147 0.2605 0.05444 0.2070 0.1748
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4866 0.05864 0.01460 0.3236 0.02390 0.2478

k(pl) x(ilm) Q(ilm)
0.08723 0.5240 9.051e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.3377	0	0.2229	0.03822	0.1765	0.007766	0.005105	0.2118	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 897.2 0.1161 0.3296 0.5467 0.03229 0.005425 0.6216
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5083 0.2144 0.2638 0.05487 0.2061 0.1738
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4871 0.05922 0.01458 0.3224 0.02357 0.2467
k(pl) x(ilm) Q(ilm)
0.08686 0.5185 8.543e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.3339	0	0.2235	0.04011	0.1766	0.007690	0.005142	0.2130	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90 895.8 0.1145 0.3280 0.5483 0.03226 0.005172 0.6213
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5118 0.2141 0.2671 0.05529 0.2052 0.1728
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4875 0.05978 0.01456 0.3211 0.02325 0.2456
k(pl) x(ilm) Q(ilm)
0.08648 0.5129 8.079e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.3301	0	0.2241	0.04196	0.1767	0.007617	0.005177	0.2143	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 894.4 0.1129 0.3264 0.5498 0.03222 0.004927 0.6209
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5153 0.2138 0.2706 0.05571 0.2042 0.1718
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4880 0.06033 0.01453 0.3198 0.02293 0.2445
k(pl) x(ilm) Q(ilm)
0.08609 0.5073 7.652e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.3264	0	0.2247	0.04377	0.1768	0.007547	0.005212	0.2155	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 892.9 0.1113 0.3248 0.5514 0.03219 0.004690 0.6206
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5188 0.2135 0.2742 0.05612 0.2033 0.1707
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4884 0.06086 0.01449 0.3185 0.02261 0.2435
k(pl) x(ilm) Q(ilm)
0.08569 0.5017 7.260e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3228	0	0.2253	0.04552	0.1769	0.007479	0.005246	0.2168

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	891.5	0.1097	0.3232	0.5528	0.03215	0.004461	0.6202
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5223	0.2132	0.2779	0.05652	0.2023	0.1696	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4888	0.06138	0.01444	0.3172	0.02228	0.2424	
	k(pl)	x(ilm)	Q(ilm)				
	0.08527	0.4961	6.897e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3192	0	0.2258	0.04723	0.1771	0.007414	0.005279	0.2180

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.30	890.0	0.1081	0.3215	0.5543	0.03212	0.004241	0.6198
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5258	0.2129	0.2817	0.05691	0.2014	0.1684	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4892	0.06188	0.01439	0.3158	0.02196	0.2414	
	k(pl)	x(ilm)	Q(ilm)				
	0.08485	0.4905	6.562e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3157	0	0.2264	0.04888	0.1772	0.007352	0.005311	0.2192

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	888.5	0.1065	0.3199	0.5557	0.03208	0.004028	0.6194
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5292	0.2125	0.2857	0.05729	0.2005	0.1672	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4895	0.06237	0.01433	0.3144	0.02164	0.2404	
	k(pl)	x(ilm)	Q(ilm)				
	0.08442	0.4849	6.250e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3122	0	0.2269	0.05049	0.1774	0.007293	0.005342	0.2203

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.50	886.9	0.1049	0.3183	0.5571	0.03205	0.003824	0.6190
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5327	0.2122	0.2897	0.05766	0.1995	0.1659	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4899	0.06284	0.01426	0.3129	0.02132	0.2393	
	k(pl)	x(ilm)	Q(ilm)				
	0.08398	0.4793	5.961e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
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0.3089 0 0.2273 0.05205 0.1777 0.007236 0.005372 0.2215

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 885.4 0.1033 0.3167 0.5584 0.03202 0.003628 0.6185
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5361 0.2118 0.2938 0.05802 0.1986 0.1646
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4902 0.06330 0.01419 0.3115 0.02101 0.2383
k(pl) x(ilm) Q(ilm)
0.08353 0.4737 5.691e-5

mode liq bi g ksp pl ilm ru q
0.3055 0 0.2278 0.05356 0.1779 0.007182 0.005402 0.2226

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.70 883.9 0.1018 0.3151 0.5597 0.03198 0.003440 0.6181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5395 0.2115 0.2981 0.05836 0.1977 0.1633
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4905 0.06375 0.01411 0.3100 0.02069 0.2373
k(pl) x(ilm) Q(ilm)
0.08308 0.4681 5.440e-5

mode liq bi g ksp pl ilm ru q
0.3023 0 0.2282 0.05502 0.1782 0.007130 0.005430 0.2237

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 882.3 0.1002 0.3135 0.5610 0.03195 0.003260 0.6176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5428 0.2111 0.3024 0.05869 0.1967 0.1620
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4908 0.06418 0.01402 0.3085 0.02038 0.2363
k(pl) x(ilm) Q(ilm)
0.08261 0.4625 5.204e-5

mode liq bi g ksp pl ilm ru q
0.2991 0 0.2287 0.05644 0.1785 0.007080 0.005458 0.2248

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.90 880.7 0.09868 0.3119 0.5621 0.03192 0.003087 0.6171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5462 0.2107 0.3069 0.05901 0.1958 0.1606
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4911 0.06460 0.01393 0.3070 0.02006 0.2353
k(pl) x(ilm) Q(ilm)
0.08214 0.4569 4.984e-5

mode liq bi g ksp pl ilm ru q
0.2960 0 0.2291 0.05781 0.1788 0.007032 0.005485 0.2259

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 879.2 0.09715 0.3103 0.5633 0.03189 0.002923 0.6166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5495 0.2103 0.3114 0.05931 0.1949 0.1591
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4914 0.06501 0.01384 0.3055 0.01976 0.2343
k(pl) x(ilm) Q(ilm)
0.08167 0.4514 4.778e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2929	0	0.2295	0.05913	0.1791	0.006987	0.005511	0.2269

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.10 877.6 0.09564 0.3087 0.5644 0.03187 0.002765 0.6161
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5528 0.2099 0.3160 0.05960 0.1940 0.1577
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4917 0.06541 0.01374 0.3040 0.01945 0.2333
k(pl) x(ilm) Q(ilm)
0.08119 0.4458 4.584e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2899	0	0.2298	0.06041	0.1795	0.006944	0.005536	0.2279

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 876.0 0.09415 0.3071 0.5654 0.03184 0.002615 0.6156
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5560 0.2095 0.3208 0.05987 0.1930 0.1562
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4919 0.06579 0.01364 0.3024 0.01914 0.2323
k(pl) x(ilm) Q(ilm)
0.08070 0.4403 4.402e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2869	0	0.2302	0.06164	0.1798	0.006903	0.005561	0.2289

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.30 874.4 0.09267 0.3055 0.5664 0.03182 0.002472 0.6151
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5592 0.2091 0.3256 0.06012 0.1921 0.1547
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4922 0.06617 0.01353 0.3008 0.01884 0.2313
k(pl) x(ilm) Q(ilm)
0.08021 0.4348 4.231e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2841	0	0.2305	0.06283	0.1802	0.006863	0.005585	0.2299

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 872.8 0.09121 0.3039 0.5673 0.03180 0.002336 0.6145

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5624 0.2087 0.3304 0.06036 0.1912 0.1531
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4924 0.06653 0.01342 0.2992 0.01855 0.2304
k(pl) x(ilm) Q(ilm)
0.07972 0.4294 4.070e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2812	0	0.2309	0.06397	0.1806	0.006826	0.005608	0.2309

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 871.2 0.08976 0.3023 0.5682 0.03178 0.002207 0.6139
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5656 0.2083 0.3354 0.06057 0.1903 0.1516
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4926 0.06688 0.01330 0.2977 0.01825 0.2294
k(pl) x(ilm) Q(ilm)
0.07922 0.4240 3.917e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2785	0	0.2312	0.06508	0.1810	0.006791	0.005631	0.2318

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 869.6 0.08833 0.3007 0.5690 0.03176 0.002084 0.6134
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5687 0.2079 0.3405 0.06077 0.1894 0.1500
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4928 0.06723 0.01318 0.2961 0.01796 0.2284
k(pl) x(ilm) Q(ilm)
0.07872 0.4186 3.773e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2758	0	0.2315	0.06614	0.1814	0.006757	0.005653	0.2327

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.70 868.0 0.08692 0.2991 0.5697 0.03175 0.001967 0.6128
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5718 0.2075 0.3456 0.06095 0.1885 0.1483
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4930 0.06756 0.01306 0.2944 0.01767 0.2274
k(pl) x(ilm) Q(ilm)
0.07822 0.4133 3.637e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2732	0	0.2317	0.06716	0.1819	0.006724	0.005674	0.2336

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 866.4 0.08553 0.2975 0.5704 0.03174 0.001856 0.6122
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5749 0.2071 0.3508 0.06111 0.1876 0.1467

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4932 0.06789 0.01293 0.2928 0.01739 0.2265
 k(pl) x(ilm) Q(ilm)
 0.07772 0.4080 3.509e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2706	0	0.2320	0.06814	0.1823	0.006694	0.005695	0.2345

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.90 864.8 0.08415 0.2960 0.5711 0.03173 0.001751 0.6116
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5779 0.2066 0.3560 0.06125 0.1867 0.1450
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4934 0.06821 0.01281 0.2912 0.01711 0.2255
 k(pl) x(ilm) Q(ilm)
 0.07722 0.4027 3.387e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2681	0	0.2323	0.06908	0.1828	0.006665	0.005715	0.2354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 863.2 0.08280 0.2944 0.5716 0.03173 0.001652 0.6110
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5809 0.2062 0.3613 0.06138 0.1858 0.1433
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4936 0.06852 0.01268 0.2896 0.01683 0.2245
 k(pl) x(ilm) Q(ilm)
 0.07672 0.3975 3.272e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2656	0	0.2325	0.06999	0.1833	0.006637	0.005734	0.2362

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.10 861.6 0.08146 0.2928 0.5721 0.03173 0.001558 0.6104
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5838 0.2058 0.3667 0.06148 0.1849 0.1416
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4938 0.06882 0.01255 0.2880 0.01656 0.2235
 k(pl) x(ilm) Q(ilm)
 0.07622 0.3924 3.162e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2632	0	0.2328	0.07085	0.1838	0.006610	0.005753	0.2370

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 860.0 0.08014 0.2913 0.5726 0.03173 0.001469 0.6098
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5868 0.2054 0.3721 0.06156 0.1840 0.1399
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4939 0.06912 0.01241 0.2863 0.01629 0.2226

k(pl) x(ilm) Q(ilm)
0.07572 0.3873 3.058e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2609	0	0.2330	0.07169	0.1843	0.006585	0.005772	0.2378

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.30 858.4 0.07885 0.2898 0.5729 0.03173 0.001385 0.6092
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5896 0.2050 0.3776 0.06162 0.1832 0.1382
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4941 0.06941 0.01228 0.2847 0.01603 0.2216
k(pl) x(ilm) Q(ilm)
0.07522 0.3823 2.959e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2586	0	0.2332	0.07248	0.1848	0.006561	0.005790	0.2386

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 856.8 0.07757 0.2882 0.5733 0.03174 0.001305 0.6086
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5925 0.2046 0.3831 0.06167 0.1823 0.1364
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4942 0.06970 0.01214 0.2831 0.01577 0.2206
k(pl) x(ilm) Q(ilm)
0.07472 0.3773 2.865e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2563	0	0.2334	0.07325	0.1853	0.006539	0.005808	0.2394

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 855.3 0.07631 0.2867 0.5735 0.03176 0.001230 0.6080
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5953 0.2042 0.3887 0.06169 0.1814 0.1346
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4944 0.06998 0.01201 0.2815 0.01551 0.2197
k(pl) x(ilm) Q(ilm)
0.07422 0.3724 2.775e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2541	0	0.2336	0.07398	0.1858	0.006517	0.005825	0.2401

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 853.7 0.07507 0.2852 0.5737 0.03177 0.001159 0.6074
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5980 0.2037 0.3943 0.06169 0.1806 0.1329
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4945 0.07025 0.01187 0.2799 0.01526 0.2187
k(pl) x(ilm) Q(ilm)
0.07373 0.3675 2.690e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2520	0	0.2338	0.07467	0.1863	0.006496	0.005841	0.2409

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.70	852.1	0.07385	0.2837	0.5738	0.03179	0.001092	0.6067
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6007	0.2033	0.3999	0.06167	0.1797	0.1311	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4946	0.07052	0.01173	0.2782	0.01501	0.2177	
	k(pl)	x(ilm)	Q(ilm)				
	0.07324	0.3627	2.609e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2499	0	0.2340	0.07534	0.1869	0.006477	0.005857	0.2416

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.80	850.6	0.07265	0.2822	0.5739	0.03182	0.001029	0.6061
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6034	0.2029	0.4056	0.06164	0.1789	0.1293	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4948	0.07079	0.01159	0.2766	0.01477	0.2167	
	k(pl)	x(ilm)	Q(ilm)				
	0.07275	0.3579	2.531e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2479	0	0.2341	0.07598	0.1874	0.006458	0.005873	0.2423

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.90	849.1	0.07147	0.2808	0.5738	0.031850	0.0009696	0.6055
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6060	0.2025	0.4113	0.06158	0.1780	0.1275	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4949	0.07105	0.01146	0.2750	0.01453	0.2158	
	k(pl)	x(ilm)	Q(ilm)				
	0.07226	0.3533	2.457e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2459	0	0.2343	0.07658	0.1879	0.006440	0.005889	0.2429

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	847.6	0.07031	0.2793	0.5738	0.031880	0.0009136	0.6049
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6086	0.2021	0.4170	0.06151	0.1772	0.1257	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4950	0.07131	0.01132	0.2734	0.01430	0.2148	
	k(pl)	x(ilm)	Q(ilm)				
	0.07178	0.3486	2.386e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
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0.2439 0 0.2345 0.07716 0.1885 0.006423 0.005904 0.2436

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 846.0 0.06917 0.2779 0.5736 0.031920.0008607 0.6042
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6112 0.2017 0.4227 0.06141 0.1764 0.1239
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4951 0.07156 0.01118 0.2719 0.01407 0.2138
k(pl) x(ilm) Q(ilm)
0.07130 0.3441 2.319e-5

mode liq bi g ksp pl ilm ru q
0.2421 0 0.2346 0.07771 0.1890 0.006407 0.005918 0.2442

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 844.5 0.06805 0.2764 0.5734 0.031960.0008110 0.6036
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6137 0.2013 0.4285 0.06130 0.1756 0.1221
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4952 0.07181 0.01104 0.2703 0.01384 0.2128
k(pl) x(ilm) Q(ilm)
0.07082 0.3396 2.254e-5

mode liq bi g ksp pl ilm ru q
0.2402 0 0.2348 0.07824 0.1896 0.006392 0.005932 0.2449

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.30 843.1 0.06695 0.2750 0.5731 0.032000.0007641 0.6030
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6162 0.2009 0.4342 0.06117 0.1748 0.1202
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4953 0.07206 0.01091 0.2687 0.01362 0.2118
k(pl) x(ilm) Q(ilm)
0.07035 0.3351 2.192e-5

mode liq bi g ksp pl ilm ru q
0.2384 0 0.2349 0.07874 0.1901 0.006377 0.005946 0.2455

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 841.6 0.06587 0.2736 0.5728 0.032050.0007200 0.6024
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6186 0.2006 0.4400 0.06103 0.1739 0.1184
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4954 0.07231 0.01077 0.2671 0.01340 0.2108
k(pl) x(ilm) Q(ilm)
0.06989 0.3308 2.133e-5

mode liq bi g ksp pl ilm ru q
0.2366 0 0.2351 0.07921 0.1907 0.006363 0.005960 0.2461

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.50 840.1 0.06481 0.2722 0.5723 0.032110.0006784 0.6017
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6210 0.2002 0.4457 0.06086 0.1731 0.1166
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4955 0.07255 0.01063 0.2656 0.01319 0.2098
 k(pl) x(ilm) Q(ilm)
 0.06942 0.3265 2.076e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2349	0	0.2352	0.07966	0.1912	0.006350	0.005973	0.2467

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.60 838.7 0.06376 0.2708 0.5719 0.032160.0006393 0.6011
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6233 0.1998 0.4515 0.06068 0.1724 0.1148
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4956 0.07279 0.01050 0.2641 0.01298 0.2088
 k(pl) x(ilm) Q(ilm)
 0.06896 0.3222 2.021e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2333	0	0.2353	0.08008	0.1918	0.006337	0.005986	0.2472

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.70 837.2 0.06274 0.2694 0.5713 0.032230.0006025 0.6005
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6257 0.1994 0.4572 0.06049 0.1716 0.1130
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4957 0.07303 0.01037 0.2625 0.01277 0.2078
 k(pl) x(ilm) Q(ilm)
 0.06851 0.3180 1.969e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2316	0	0.2355	0.08048	0.1923	0.006325	0.005998	0.2478

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.80 835.8 0.06173 0.2681 0.5707 0.032290.0005679 0.5999
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6279 0.1991 0.4630 0.06028 0.1708 0.1112
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4958 0.07327 0.01023 0.2610 0.01257 0.2068
 k(pl) x(ilm) Q(ilm)
 0.06806 0.3139 1.919e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2300	0	0.2356	0.08086	0.1929	0.006314	0.006010	0.2483

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.90 834.4 0.06074 0.2667 0.5700 0.032370.0005353 0.5993

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6302 0.1987 0.4687 0.06005 0.1700 0.1095
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4959 0.07351 0.01010 0.2595 0.01237 0.2058
k(pl) x(ilm) Q(ilm)
0.06761 0.3098 1.871e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2285	0	0.2357	0.08122	0.1934	0.006302	0.006022	0.2489

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 833.0 0.05977 0.2654 0.5692 0.032440.0005046 0.5987
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6324 0.1984 0.4744 0.05981 0.1693 0.1077
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4959 0.07374 0.009969 0.2580 0.01218 0.2048
k(pl) x(ilm) Q(ilm)
0.06717 0.3058 1.824e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2269	0	0.2358	0.08156	0.1940	0.006292	0.006034	0.2494

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10 831.7 0.05881 0.2640 0.5684 0.032520.0004757 0.5981
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6345 0.1980 0.4801 0.05956 0.1685 0.1059
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4960 0.07398 0.009840 0.2565 0.01199 0.2038
k(pl) x(ilm) Q(ilm)
0.06674 0.3019 1.780e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2255	0	0.2359	0.08187	0.1945	0.006282	0.006045	0.2499

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 830.3 0.05788 0.2627 0.5675 0.032610.0004486 0.5975
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6366 0.1977 0.4858 0.05929 0.1677 0.1042
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4961 0.07421 0.009711 0.2551 0.01180 0.2028
k(pl) x(ilm) Q(ilm)
0.06631 0.2980 1.737e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2240	0	0.2360	0.08217	0.1951	0.006272	0.006056	0.2504

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.30 829.0 0.05696 0.2614 0.5665 0.032690.0004230 0.5969
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6387 0.1973 0.4914 0.05901 0.1670 0.1024

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4962 0.07444 0.009584 0.2536 0.01162 0.2018
 k(pl) x(ilm) Q(ilm)
 0.06588 0.2942 1.696e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2226	0	0.2361	0.08244	0.1956	0.006263	0.006067	0.2508

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.40 827.6 0.05606 0.2602 0.5655 0.032790.0003990 0.5963
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6408 0.1970 0.4970 0.05872 0.1663 0.1007
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4962 0.07467 0.009459 0.2522 0.01144 0.2007
 k(pl) x(ilm) Q(ilm)
 0.06546 0.2905 1.656e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2212	0	0.2363	0.08270	0.1962	0.006254	0.006078	0.2513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.50 826.3 0.05517 0.2589 0.5644 0.032890.0003764 0.5957
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6428 0.1966 0.5026 0.05842 0.1655 0.09898
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4963 0.07490 0.009335 0.2507 0.01126 0.1997
 k(pl) x(ilm) Q(ilm)
 0.06504 0.2868 1.618e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2199	0	0.2364	0.08294	0.1967	0.006245	0.006088	0.2518

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.60 825.0 0.05430 0.2576 0.5632 0.032990.0003551 0.5951
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6447 0.1963 0.5081 0.05810 0.1648 0.09728
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4964 0.07513 0.009212 0.2493 0.01109 0.1987
 k(pl) x(ilm) Q(ilm)
 0.06463 0.2831 1.581e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2186	0	0.2365	0.08316	0.1973	0.006237	0.006098	0.2522

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.70 823.7 0.05345 0.2564 0.5619 0.033090.0003350 0.5945
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6467 0.1960 0.5136 0.05778 0.1641 0.09559
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4964 0.07536 0.009091 0.2479 0.01092 0.1977

k(pl) x(ilm) Q(ilm)
0.06423 0.2796 1.545e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2173	0	0.2366	0.08336	0.1978	0.006229	0.006108	0.2526

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 822.5 0.05261 0.2552 0.5606 0.033200.0003162 0.5939
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6486 0.1957 0.5191 0.05745 0.1634 0.09392
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4965 0.07559 0.008971 0.2465 0.01075 0.1966
k(pl) x(ilm) Q(ilm)
0.06383 0.2761 1.511e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2161	0	0.2366	0.08355	0.1983	0.006221	0.006118	0.2531

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.90 821.2 0.05179 0.2540 0.5592 0.033320.0002985 0.5934
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6504 0.1954 0.5245 0.05711 0.1627 0.09227
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4966 0.07581 0.008853 0.2451 0.01059 0.1956
k(pl) x(ilm) Q(ilm)
0.06343 0.2726 1.478e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2148	0	0.2367	0.08372	0.1989	0.006214	0.006127	0.2535

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 820.0 0.05098 0.2528 0.5577 0.033440.0002818 0.5928
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6523 0.1950 0.5299 0.05675 0.1620 0.09064
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4966 0.07604 0.008736 0.2438 0.01043 0.1945
k(pl) x(ilm) Q(ilm)
0.06304 0.2692 1.446e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2137	0	0.2368	0.08387	0.1994	0.006207	0.006136	0.2539

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.10 818.8 0.05019 0.2516 0.5562 0.033560.0002661 0.5923
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6540 0.1947 0.5352 0.05640 0.1613 0.08902
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4967 0.07627 0.008621 0.2424 0.01027 0.1935
k(pl) x(ilm) Q(ilm)
0.06265 0.2658 1.415e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2125	0	0.2369	0.08401	0.1999	0.006201	0.006145	0.2543

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.20	817.6	0.04942	0.2504	0.5545	0.033690	0.0002513	0.5917
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6558	0.1944	0.5405	0.05603	0.1606	0.08743	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4967	0.07649	0.008507	0.2411	0.01012	0.1924	
	k(pl)	x(ilm)	Q(ilm)				
	0.06227	0.2625	1.385e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2114	0	0.2370	0.08413	0.2005	0.006194	0.006154	0.2547

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.30	816.4	0.04865	0.2492	0.5528	0.033820	0.0002373	0.5912
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6575	0.1941	0.5458	0.05566	0.1599	0.08585	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4968	0.07672	0.008395	0.2398	0.009970	0.1914	
	k(pl)	x(ilm)	Q(ilm)				
	0.06189	0.2593	1.357e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2103	0	0.2371	0.08423	0.2010	0.006188	0.006163	0.2551

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.40	815.2	0.04790	0.2481	0.5511	0.033960	0.0002242	0.5906
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6592	0.1938	0.5509	0.05528	0.1592	0.08429	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4968	0.07694	0.008285	0.2385	0.009822	0.1903	
	k(pl)	x(ilm)	Q(ilm)				
	0.06152	0.2561	1.329e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2092	0	0.2372	0.08432	0.2015	0.006182	0.006171	0.2554

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.50	814.0	0.04717	0.2470	0.5492	0.034100	0.0002119	0.5901
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6609	0.1936	0.5561	0.05490	0.1586	0.08275	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4969	0.07717	0.008176	0.2372	0.009677	0.1892	
	k(pl)	x(ilm)	Q(ilm)				
	0.06115	0.2530	1.302e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
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0.2081 0 0.2373 0.08440 0.2020 0.006176 0.006179 0.2558

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 812.9 0.04645 0.2458 0.5473 0.034250.0002002 0.5896
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6625 0.1933 0.5612 0.05451 0.1579 0.08123
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4969 0.07739 0.008069 0.2359 0.009534 0.1882
k(pl) x(ilm) Q(ilm)
0.06079 0.2499 1.276e-5

mode liq bi g ksp pl ilm ru q
0.2071 0 0.2374 0.08446 0.2026 0.006171 0.006187 0.2561

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.70 811.8 0.04574 0.2447 0.5452 0.034400.0001893 0.5890
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6641 0.1930 0.5662 0.05411 0.1572 0.07973
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4970 0.07762 0.007963 0.2346 0.009394 0.1871
k(pl) x(ilm) Q(ilm)
0.06043 0.2469 1.250e-5

mode liq bi g ksp pl ilm ru q
0.2061 0 0.2374 0.08451 0.2031 0.006165 0.006195 0.2565

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.80 810.7 0.04504 0.2436 0.5431 0.034550.0001789 0.5885
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6657 0.1927 0.5712 0.05371 0.1566 0.07826
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4970 0.07784 0.007859 0.2334 0.009257 0.1860
k(pl) x(ilm) Q(ilm)
0.06007 0.2439 1.226e-5

mode liq bi g ksp pl ilm ru q
0.2051 0 0.2375 0.08454 0.2036 0.006160 0.006203 0.2568

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.90 809.6 0.04436 0.2426 0.5410 0.034710.0001692 0.5880
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6672 0.1924 0.5761 0.05331 0.1559 0.07680
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4971 0.07807 0.007756 0.2321 0.009122 0.1850
k(pl) x(ilm) Q(ilm)
0.05972 0.2410 1.202e-5

mode liq bi g ksp pl ilm ru q
0.2042 0 0.2376 0.08456 0.2041 0.006155 0.006211 0.2571

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
20.00    808.5  0.04369  0.2415  0.5387  0.034870.0001600  0.5875
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.6687  0.1922  0.5809  0.05291  0.1553  0.07537
          x(g)   z(g)   f(g)   na(ksp)  ca(ksp)  ca(pl)
          0.4971  0.07829 0.007655  0.2309  0.008989  0.1839
          k(pl)  x(ilm)  Q(ilm)
          0.05937  0.2381 1.179e-5

```

```

mode  liq  bi  g  ksp  pl  ilm  ru  q
0.2033  0  0.2377  0.08457  0.2047  0.006150  0.006218  0.2575

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, g, ksp, pl, ilm, ru, q

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
8.50     852.6  0.1617  0.3488  0.4860  0.01909  0.01008  0.5761
          h2o(L)  x(g)   z(g)   f(g)  na(ksp)  ca(ksp)
          0.4516  0.4532  0.02752  0.008286  0.2959  0.02154
          ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  g
          0.3155  0.06604  0.7951  0.6123  0.4029  0.1960

```

```

mode  liq  g  ksp  pl  ilm  ru  q
0.4029  0.1960  0  0.2019  0.01855  5.771e-5  0.1805

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
8.60     854.5  0.1611  0.3491  0.4867  0.01940  0.01015  0.5778
          h2o(L)  x(g)   z(g)   f(g)  na(ksp)  ca(ksp)
          0.4516  0.4542  0.02807  0.008438  0.2969  0.02173
          ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  g
          0.3144  0.06661  0.7911  0.6045  0.4030  0.1964

```

```

mode  liq  g  ksp  pl  ilm  ru  q
0.4030  0.1964  0  0.2014  0.018190.0002343  0.1808

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
8.70     856.4  0.1605  0.3493  0.4875  0.01972  0.01022  0.5795
          h2o(L)  x(g)   z(g)   f(g)  na(ksp)  ca(ksp)
          0.4516  0.4552  0.02863  0.008591  0.2980  0.02192
          ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  g
          0.3132  0.06720  0.7871  0.5964  0.4030  0.1968

```

```

mode  liq  g  ksp  pl  ilm  ru  q
0.4030  0.1968  0  0.2008  0.017820.0004086  0.1811

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

```

8.80 858.3 0.1600 0.3496 0.4883 0.02004 0.01028 0.5811
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4516 0.4562 0.02920 0.008746 0.2990 0.02211
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3121 0.06779 0.7829 0.5879 0.4031 0.1973

mode liq g ksp pl ilm ru q
0.4031 0.1973 0 0.2002 0.017470.0005808 0.1813

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.90 860.2 0.1594 0.3498 0.4890 0.02037 0.01035 0.5828
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4515 0.4571 0.02976 0.008903 0.3000 0.02230
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3109 0.06838 0.7786 0.5791 0.4032 0.1977

mode liq g ksp pl ilm ru q
0.4032 0.1977 0 0.1997 0.017110.0007508 0.1816

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 862.1 0.1588 0.3501 0.4898 0.02070 0.01041 0.5844
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4515 0.4580 0.03033 0.009060 0.3011 0.02250
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3097 0.06899 0.7742 0.5700 0.4033 0.1982

mode liq g ksp pl ilm ru q
0.4033 0.1982 0 0.1991 0.016760.0009184 0.1818

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.10 864.0 0.1582 0.3503 0.4906 0.02103 0.01046 0.5860
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4514 0.4589 0.03091 0.009219 0.3022 0.02269
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3085 0.06960 0.7697 0.5605 0.4033 0.1986

mode liq g ksp pl ilm ru q
0.4033 0.1986 0 0.1985 0.01641 0.001084 0.1821

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 865.9 0.1577 0.3505 0.4914 0.02137 0.01052 0.5875
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4514 0.4598 0.03148 0.009379 0.3033 0.02289
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3073 0.07022 0.7650 0.5506 0.4034 0.1990

mode liq g ksp pl ilm ru q
0.4034 0.1990 0 0.1979 0.01607 0.001247 0.1823

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.30 867.8 0.1571 0.3508 0.4922 0.02171 0.01057 0.5891
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4513 0.4607 0.03206 0.009540 0.3044 0.02308
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3061 0.07085 0.7602 0.5403 0.4035 0.1995

mode liq g ksp pl ilm ru q
0.4035 0.1995 0 0.1973 0.01574 0.001407 0.1825

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 869.6 0.1566 0.3510 0.4930 0.02206 0.01062 0.5906
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4512 0.4616 0.03264 0.009702 0.3055 0.02328
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3048 0.07149 0.7552 0.5295 0.4037 0.1999

mode liq g ksp pl ilm ru q
0.4037 0.1999 0 0.1967 0.01540 0.001566 0.1828

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.50 871.5 0.1560 0.3512 0.4938 0.02240 0.01067 0.5922
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4512 0.4624 0.03323 0.009864 0.3066 0.02348
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3036 0.07213 0.7501 0.5182 0.4038 0.2004

mode liq g ksp pl ilm ru q
0.4038 0.2004 0 0.1961 0.01508 0.001722 0.1830

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 873.4 0.1555 0.3515 0.4946 0.02275 0.01071 0.5937
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4511 0.4633 0.03381 0.01003 0.3078 0.02367
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3023 0.07278 0.7449 0.5064 0.4039 0.2008

mode liq g ksp pl ilm ru q
0.4039 0.2008 0 0.1954 0.01475 0.001875 0.1832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.70 875.3 0.1550 0.3517 0.4955 0.02311 0.01075 0.5951
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4510 0.4641 0.03440 0.01019 0.3089 0.02387
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3010 0.07344 0.7394 0.4940 0.4041 0.2012

mode liq g ksp pl ilm ru q
0.4041 0.2012 0 0.1948 0.01444 0.002026 0.1834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.80 877.1 0.1544 0.3519 0.4963 0.02347 0.01079 0.5966
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4509 0.4649 0.03499 0.01036 0.3101 0.02407
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2997 0.07411 0.7338 0.4809 0.4042 0.2016

mode liq g ksp pl ilm ru q
0.4042 0.2016 0 0.1942 0.01412 0.002175 0.1837

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.90 879.0 0.1539 0.3521 0.4971 0.02383 0.01083 0.5981
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4507 0.4657 0.03558 0.01052 0.3113 0.02428
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2983 0.07479 0.7281 0.4671 0.4044 0.2021

mode liq g ksp pl ilm ru q
0.4044 0.2021 0 0.1935 0.01381 0.002322 0.1839

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 880.8 0.1534 0.3524 0.4980 0.02420 0.01086 0.5995
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4506 0.4664 0.03617 0.01068 0.3124 0.02448
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2970 0.07548 0.7221 0.4525 0.4046 0.2025

mode liq g ksp pl ilm ru q
0.4046 0.2025 0 0.1929 0.01351 0.002466 0.1841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.10 882.7 0.1529 0.3526 0.4988 0.02457 0.01090 0.6009
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4505 0.4672 0.03676 0.01085 0.3137 0.02469
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2956 0.07617 0.7160 0.4371 0.4048 0.2029

mode liq g ksp pl ilm ru q
0.4048 0.2029 0 0.1922 0.01321 0.002607 0.1843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 884.5 0.1524 0.3528 0.4997 0.02494 0.01093 0.6023
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4504 0.4680 0.03735 0.01101 0.3149 0.02489
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2942 0.07688 0.7097 0.4206 0.4049 0.2034

mode liq g ksp pl ilm ru q
0.4049 0.2034 0 0.1916 0.01291 0.002747 0.1845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.30 886.4 0.1519 0.3530 0.5006 0.02532 0.01096 0.6037
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4502 0.4687 0.03794 0.01118 0.3161 0.02510
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2928 0.07759 0.7031 0.4029 0.4052 0.2038

mode liq g ksp pl ilm ru q
0.4052 0.2038 0 0.1909 0.01262 0.002884 0.1847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 888.2 0.1514 0.3532 0.5015 0.02570 0.01098 0.6050
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4501 0.4694 0.03853 0.01134 0.3174 0.02531
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2914 0.07832 0.6963 0.3840 0.4054 0.2042

mode liq g ksp pl ilm ru q
0.4054 0.2042 0 0.1902 0.01234 0.003019 0.1849

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50 890.1 0.1509 0.3535 0.5023 0.02608 0.01101 0.6064
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4499 0.4701 0.03913 0.01151 0.3186 0.02552
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2899 0.07905 0.6893 0.3634 0.4056 0.2046

mode liq g ksp pl ilm ru q
0.4056 0.2046 0 0.1895 0.01205 0.003152 0.1851

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 891.9 0.1504 0.3537 0.5032 0.02647 0.01103 0.6077
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4497 0.4708 0.03972 0.01167 0.3199 0.02573
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2884 0.07980 0.6820 0.3409 0.4058 0.2050

mode liq g ksp pl ilm ru q
0.4058 0.2050 0 0.1888 0.01178 0.003284 0.1852

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70 893.8 0.1500 0.3539 0.5042 0.02686 0.01105 0.6090
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4495 0.4715 0.04031 0.01183 0.3212 0.02594
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2870 0.08056 0.6744 0.3160 0.4061 0.2054

mode liq g ksp pl ilm ru q
0.4061 0.2054 0 0.1881 0.01150 0.003413 0.1854

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.80 895.6 0.1495 0.3541 0.5051 0.02725 0.01107 0.6103
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4493 0.4721 0.04090 0.01199 0.3226 0.02616
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2855 0.08132 0.6666 0.2881 0.4064 0.2058

mode liq g ksp pl ilm ru q
0.4064 0.2058 0 0.1874 0.01123 0.003540 0.1856

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 897.4 0.1490 0.3543 0.5060 0.02765 0.01109 0.6116
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4491 0.4728 0.04150 0.01215 0.3239 0.02637
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2840 0.08210 0.6584 0.2560 0.4066 0.2063

mode liq g ksp pl ilm ru q
0.4066 0.2063 0 0.1867 0.01096 0.003666 0.1858

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 899.3 0.1486 0.3546 0.5069 0.02806 0.01111 0.6129
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4489 0.4735 0.04209 0.01231 0.3253 0.02659
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2824 0.08289 0.6498 0.2178 0.4069 0.2067

mode liq g ksp pl ilm ru q
0.4069 0.2067 0 0.1860 0.01070 0.003790 0.1859

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.10 901.1 0.1481 0.3548 0.5079 0.02846 0.01113 0.6142
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4487 0.4741 0.04268 0.01247 0.3266 0.02681
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2809 0.08370 0.6409 0.1694 0.4072 0.2071

mode liq g ksp pl ilm ru q
0.4072 0.2071 0 0.1852 0.01043 0.003913 0.1861

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 902.9 0.1477 0.3550 0.5089 0.02887 0.01114 0.6154
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4485 0.4747 0.04327 0.01263 0.3280 0.02703
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2793 0.08451 0.6316 0.09668 0.4075 0.2075

mode liq g ksp pl ilm ru q
0.4075 0.2075 0 0.1845 0.01018 0.004034 0.1863

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.30 904.7 0.1472 0.3552 0.5098 0.02929 0.01113 0.6165
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4483 0.4751 0.04379 0.01278 0.3294 0.02725
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2778 0.08531 0.6258 0.005682 0.4078 0.2078

mode liq g ksp pl ilm ru q
0.4078 0.2078 0 0.1838 0.01001 0.004109 0.1865

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 906.5 0.1468 0.3554 0.5106 0.02971 0.01110 0.6174
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4481 0.4753 0.04426 0.01293 0.3307 0.02747
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2764 0.08610 0.6234 0.002071 0.4081 0.2080

mode liq g ksp pl ilm ru q
0.4081 0.2080 0 0.1831 0.009928 0.004144 0.1867

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 908.3 0.1464 0.3556 0.5115 0.03013 0.01106 0.6184
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4479 0.4754 0.04473 0.01308 0.3320 0.02768
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2749 0.08689 0.6211 0.001264 0.4083 0.2083

mode liq g ksp pl ilm ru q
0.4083 0.2083 0 0.1825 0.009846 0.004178 0.1869

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 910.1 0.1459 0.3558 0.5124 0.03056 0.01102 0.6193
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4477 0.4756 0.04520 0.01323 0.3333 0.02790
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2734 0.08770 0.61870 0.0009101 0.4086 0.2085

mode liq g ksp pl ilm ru q
0.4086 0.2085 0 0.1818 0.009764 0.004211 0.1871

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.70 911.9 0.1455 0.3559 0.5133 0.03099 0.01099 0.6202
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4474 0.4758 0.04567 0.01338 0.3347 0.02812
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2719 0.08852 0.61640 0.0007095 0.4089 0.2087

mode liq g ksp pl ilm ru q
0.4089 0.2087 0 0.1811 0.009684 0.004244 0.1873

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.80 913.7 0.1451 0.3561 0.5142 0.03143 0.01095 0.6211
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4472 0.4759 0.04614 0.01353 0.3360 0.02835
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2704 0.08935 0.61400.0005814 0.4092 0.2090

mode liq g ksp pl ilm ru q
0.4092 0.2090 0 0.1805 0.009605 0.004276 0.1875

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.90 915.4 0.1446 0.3563 0.5152 0.03187 0.01092 0.6220
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4470 0.4761 0.04660 0.01368 0.3374 0.02857
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2688 0.09020 0.61170.0004924 0.4095 0.2092

mode liq g ksp pl ilm ru q
0.4095 0.2092 0 0.1798 0.009527 0.004308 0.1877

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 917.2 0.1442 0.3565 0.5161 0.03231 0.01088 0.6229
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4467 0.4762 0.04707 0.01383 0.3388 0.02880
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2673 0.09106 0.60940.0004268 0.4098 0.2094

mode liq g ksp pl ilm ru q
0.4098 0.2094 0 0.1791 0.009449 0.004339 0.1879

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 919.0 0.1438 0.3567 0.5170 0.03276 0.01085 0.6238
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4464 0.4764 0.04754 0.01398 0.3402 0.02902
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2657 0.09193 0.60710.0003766 0.4102 0.2097

mode liq g ksp pl ilm ru q
0.4102 0.2097 0 0.1783 0.009373 0.004370 0.1881

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 920.8 0.1434 0.3569 0.5180 0.03321 0.01081 0.6246
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4462 0.4765 0.04800 0.01413 0.3417 0.02925
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2641 0.09281 0.60480.0003369 0.4105 0.2099

mode liq g ksp pl ilm ru q
0.4105 0.2099 0 0.1776 0.009298 0.004400 0.1883

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.30 922.6 0.1430 0.3571 0.5190 0.03366 0.01078 0.6255
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4459 0.4767 0.04846 0.01428 0.3431 0.02949
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2625 0.09371 0.60260.0003047 0.4109 0.2101

mode liq g ksp pl ilm ru q
0.4109 0.2101 0 0.1769 0.009224 0.004430 0.1884

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 924.3 0.1426 0.3572 0.5200 0.03412 0.01075 0.6264
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4456 0.4768 0.04893 0.01443 0.3446 0.02972
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2609 0.09462 0.60030.0002781 0.4113 0.2103

mode liq g ksp pl ilm ru q
0.4113 0.2103 0 0.1762 0.009150 0.004459 0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 926.1 0.1422 0.3574 0.5210 0.03458 0.01071 0.6273
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4453 0.4770 0.04939 0.01459 0.3461 0.02996
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2593 0.09555 0.59810.0002557 0.4117 0.2106

mode liq g ksp pl ilm ru q
0.4117 0.2106 0 0.1754 0.009078 0.004488 0.1888

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 927.9 0.1418 0.3576 0.5220 0.03505 0.01068 0.6281
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4450 0.4771 0.04985 0.01474 0.3476 0.03020
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2576 0.09650 0.59590.0002367 0.4121 0.2108

mode liq g ksp pl ilm ru q
0.4121 0.2108 0 0.1746 0.009007 0.004516 0.1890

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.70 929.7 0.1414 0.3578 0.5230 0.03552 0.01065 0.6290
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4447 0.4772 0.05030 0.01489 0.3492 0.03044
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2560 0.09746 0.59370.0002202 0.4125 0.2110

mode liq g ksp pl ilm ru q
0.4125 0.2110 0 0.1739 0.008936 0.004544 0.1891

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.80 931.5 0.1411 0.3580 0.5241 0.03599 0.01062 0.6298
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4443 0.4773 0.05076 0.01505 0.3508 0.03069
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2543 0.09843 0.59150.0002059 0.4130 0.2112

mode liq g ksp pl ilm ru q
0.4130 0.2112 0 0.1731 0.008866 0.004571 0.1893

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.90 933.3 0.1407 0.3582 0.5251 0.03646 0.01059 0.6307
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4440 0.4775 0.05122 0.01520 0.3524 0.03093
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2526 0.09943 0.58930.0001933 0.4135 0.2114

mode liq g ksp pl ilm ru q
0.4135 0.2114 0 0.1723 0.008798 0.004597 0.1894

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 935.0 0.1403 0.3584 0.5262 0.03694 0.01056 0.6315
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4436 0.4776 0.05167 0.01536 0.3540 0.03119
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2509 0.1004 0.58720.0001822 0.4139 0.2116

mode liq g ksp pl ilm ru q
0.4139 0.2116 0 0.1715 0.008730 0.004624 0.1896

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.10 936.8 0.1399 0.3586 0.5273 0.03743 0.01053 0.6324
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4432 0.4777 0.05212 0.01551 0.3556 0.03144
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2492 0.1015 0.58500.0001723 0.4145 0.2118

mode liq g ksp pl ilm ru q
0.4145 0.2118 0 0.1707 0.008663 0.004650 0.1897

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 938.6 0.1396 0.3588 0.5284 0.03792 0.01050 0.6332
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4428 0.4778 0.05257 0.01567 0.3573 0.03170
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2474 0.1025 0.58290.0001634 0.4150 0.2120

mode liq g ksp pl ilm ru q
0.4150 0.2120 0 0.1699 0.008597 0.004675 0.1899

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.30 940.4 0.1392 0.3591 0.5296 0.03841 0.01047 0.6340
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4424 0.4779 0.05302 0.01583 0.3590 0.03196
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2457 0.1036 0.58080.0001554 0.4155 0.2122

mode liq g ksp pl ilm ru q
0.4155 0.2122 0 0.1690 0.008532 0.004700 0.1900

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 942.2 0.1389 0.3593 0.5307 0.03890 0.01045 0.6349
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4420 0.4780 0.05347 0.01598 0.3607 0.03223
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2439 0.1047 0.57870.0001481 0.4161 0.2124

mode liq g ksp pl ilm ru q
0.4161 0.2124 0 0.1682 0.008467 0.004724 0.1901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50 944.0 0.1385 0.3595 0.5319 0.03940 0.01042 0.6357
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4416 0.4781 0.05391 0.01614 0.3624 0.03250
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2421 0.1058 0.57670.0001415 0.4167 0.2126

mode liq g ksp pl ilm ru q
0.4167 0.2126 0 0.1673 0.008404 0.004748 0.1902

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 945.9 0.1382 0.3597 0.5331 0.03990 0.01040 0.6365
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4411 0.4782 0.05435 0.01630 0.3642 0.03277
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2403 0.1069 0.57470.0001354 0.4173 0.2128

mode liq g ksp pl ilm ru q
0.4173 0.2128 0 0.1664 0.008341 0.004772 0.1904

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 947.7 0.1379 0.3600 0.5343 0.04041 0.01038 0.6373
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4406 0.4783 0.05479 0.01646 0.3660 0.03305
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2385 0.1081 0.57260.0001299 0.4180 0.2130

mode liq g ksp pl ilm ru q
0.4180 0.2130 0 0.1655 0.008279 0.004795 0.1905

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.80 949.5 0.1375 0.3602 0.5356 0.04092 0.01036 0.6381
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4402 0.4784 0.05523 0.01662 0.3679 0.03333
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2367 0.1092 0.57060.0001248 0.4186 0.2132

mode liq g ksp pl ilm ru q
0.4186 0.2132 0 0.1646 0.008218 0.004818 0.1906

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90 951.3 0.1372 0.3604 0.5368 0.04143 0.01034 0.6390
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4397 0.4785 0.05566 0.01677 0.3697 0.03362
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2348 0.1104 0.56870.0001200 0.4193 0.2133

mode liq g ksp pl ilm ru q
0.4193 0.2133 0 0.1637 0.008158 0.004840 0.1907

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 953.2 0.1369 0.3607 0.5381 0.04195 0.01032 0.6398
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4391 0.4786 0.05610 0.01694 0.3716 0.03391
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2330 0.1117 0.56670.0001157 0.4201 0.2135

mode liq g ksp pl ilm ru q
0.4201 0.2135 0 0.1627 0.008098 0.004862 0.1908

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 955.0 0.1366 0.3609 0.5394 0.04247 0.01030 0.6406
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4386 0.4786 0.05653 0.01710 0.3736 0.03421
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2311 0.1129 0.56480.0001116 0.4208 0.2137

mode liq g ksp pl ilm ru q
0.4208 0.2137 0 0.1618 0.008039 0.004884 0.1908

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 956.9 0.1363 0.3612 0.5408 0.04300 0.01029 0.6414
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4380 0.4787 0.05695 0.01726 0.3755 0.03451
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2292 0.1142 0.56290.0001079 0.4216 0.2138

mode liq g ksp pl ilm ru q
0.4216 0.2138 0 0.1608 0.007981 0.004905 0.1909

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.30 958.7 0.1360 0.3615 0.5421 0.04353 0.01028 0.6422
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4375 0.4788 0.05738 0.01742 0.3775 0.03482
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2273 0.1155 0.56100.0001043 0.4224 0.2140

mode liq g ksp pl ilm ru q
 0.4224 0.2140 0 0.1598 0.007924 0.004925 0.1910

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.40 960.6 0.1357 0.3618 0.5435 0.04406 0.01027 0.6430
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4369 0.4788 0.05780 0.01758 0.3796 0.03514
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2253 0.1168 0.55920.0001011 0.4233 0.2141

mode liq g ksp pl ilm ru q
 0.4233 0.2141 0 0.1587 0.007867 0.004946 0.1911

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.50 962.5 0.1354 0.3620 0.5450 0.04460 0.01026 0.6438
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4362 0.4789 0.05821 0.01775 0.3817 0.03547
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2234 0.1182 0.5574 9.798e-5 0.4241 0.2143

mode liq g ksp pl ilm ru q
 0.4241 0.2143 0 0.1577 0.007811 0.004966 0.1911

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.60 964.4 0.1351 0.3623 0.5464 0.04514 0.01026 0.6446
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4356 0.4789 0.05863 0.01791 0.3838 0.03580
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2214 0.1196 0.5556 9.510e-5 0.4251 0.2144

mode liq g ksp pl ilm ru q
 0.4251 0.2144 0 0.1566 0.007756 0.004985 0.1912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.70 966.3 0.1348 0.3626 0.5479 0.04569 0.01025 0.6454
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4349 0.4790 0.05904 0.01808 0.3860 0.03614
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2194 0.1210 0.5538 9.239e-5 0.4260 0.2146

mode liq g ksp pl ilm ru q
 0.4260 0.2146 0 0.1555 0.007701 0.005005 0.1912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.80 968.2 0.1346 0.3630 0.5494 0.04624 0.01025 0.6462
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4342 0.4790 0.05945 0.01825 0.3882 0.03649
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2174 0.1225 0.5521 8.984e-5 0.4270 0.2147

mode liq g ksp pl ilm ru q
 0.4270 0.2147 0 0.1544 0.007647 0.005023 0.1912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.90 970.2 0.1343 0.3633 0.5510 0.04680 0.01025 0.6470
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4335 0.4790 0.05985 0.01841 0.3904 0.03684
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2154 0.1240 0.5504 8.743e-5 0.4281 0.2148

mode liq g ksp pl ilm ru q
 0.4281 0.2148 0 0.1533 0.007594 0.005042 0.1912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 972.1 0.1341 0.3636 0.5525 0.04736 0.01026 0.6478
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4327 0.4791 0.06025 0.01858 0.3927 0.03721
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2134 0.1256 0.5487 8.517e-5 0.4292 0.2149

mode liq g ksp pl ilm ru q
 0.4292 0.2149 0 0.1521 0.007542 0.005060 0.1912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.10 974.1 0.1338 0.3640 0.5542 0.04793 0.01027 0.6486
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4320 0.4791 0.06064 0.01875 0.3951 0.03759
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2113 0.1272 0.5471 8.302e-5 0.4303 0.2150

mode liq g ksp pl ilm ru q
 0.4303 0.2150 0 0.1509 0.007490 0.005078 0.1912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 976.1 0.1336 0.3643 0.5558 0.04850 0.01028 0.6494
 h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
 0.4311 0.4791 0.06104 0.01892 0.3975 0.03798
 ca(pl) k(pl) x(ilm) Q(ilm) liq g
 0.2092 0.1288 0.5454 8.100e-5 0.4315 0.2151

mode liq g ksp pl ilm ru q
 0.4315 0.2151 0 0.1496 0.007439 0.005095 0.1912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.30 978.1 0.1334 0.3647 0.5575 0.04908 0.01029 0.6502
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4303 0.4791 0.06142 0.01910 0.4000 0.03838
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2071 0.1305 0.5439 7.908e-5 0.4327 0.2152

mode liq g ksp pl ilm ru q
0.4327 0.2152 0 0.1484 0.007388 0.005112 0.1912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 980.2 0.1331 0.3651 0.5593 0.04966 0.01031 0.6510
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4294 0.4791 0.06181 0.01927 0.4025 0.03880
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2050 0.1322 0.5423 7.726e-5 0.4340 0.2153

mode liq g ksp pl ilm ru q
0.4340 0.2153 0 0.1470 0.007338 0.005129 0.1912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 982.2 0.1329 0.3655 0.5611 0.05025 0.01033 0.6517
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4285 0.4790 0.06219 0.01945 0.4051 0.03923
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2029 0.1340 0.5408 7.554e-5 0.4354 0.2153

mode liq g ksp pl ilm ru q
0.4354 0.2153 0 0.1457 0.007289 0.005145 0.1911

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 984.3 0.1327 0.3659 0.5629 0.05084 0.01036 0.6525
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4275 0.4790 0.06256 0.01963 0.4077 0.03967
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2007 0.1359 0.5393 7.391e-5 0.4368 0.2154

mode liq g ksp pl ilm ru q
0.4368 0.2154 0 0.1443 0.007240 0.005161 0.1911

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.70 986.4 0.1326 0.3664 0.5648 0.05145 0.01039 0.6533
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4265 0.4790 0.06293 0.01981 0.4105 0.04013
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1985 0.1378 0.5379 7.235e-5 0.4384 0.2154

mode liq g ksp pl ilm ru q
0.4384 0.2154 0 0.1429 0.007192 0.005177 0.1910

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.80 988.6 0.1324 0.3669 0.5667 0.05205 0.01042 0.6541
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4255 0.4789 0.06329 0.01999 0.4133 0.04061
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1963 0.1397 0.5365 7.088e-5 0.4399 0.2155

mode liq g ksp pl ilm ru q
0.4399 0.2155 0 0.1414 0.007145 0.005192 0.1909

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 990.7 0.1322 0.3673 0.5687 0.05267 0.01047 0.6549
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4244 0.4789 0.06365 0.02017 0.4161 0.04111
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1940 0.1418 0.5352 6.948e-5 0.4416 0.2155

mode liq g ksp pl ilm ru q
0.4416 0.2155 0 0.1398 0.007098 0.005207 0.1908

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 992.9 0.1321 0.3679 0.5708 0.05329 0.01051 0.6557
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4232 0.4788 0.06400 0.02036 0.4191 0.04164
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1918 0.1439 0.5339 6.814e-5 0.4434 0.2155

mode liq g ksp pl ilm ru q
0.4434 0.2155 0 0.1382 0.007051 0.005222 0.1906

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 995.2 0.1320 0.3684 0.5729 0.05392 0.01056 0.6565
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4220 0.4787 0.06435 0.02055 0.4222 0.04218
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1895 0.1461 0.5326 6.687e-5 0.4452 0.2155

mode liq g ksp pl ilm ru q
0.4452 0.2155 0 0.1366 0.007006 0.005236 0.1905

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 997.5 0.1318 0.3690 0.5751 0.05456 0.01062 0.6573
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4207 0.4786 0.06469 0.02074 0.4253 0.04275
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1871 0.1484 0.5314 6.566e-5 0.4472 0.2155

mode liq g ksp pl ilm ru q
0.4472 0.2155 0 0.1348 0.006961 0.005250 0.1903

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.30 999.8 0.1317 0.3696 0.5773 0.05521 0.01069 0.6581
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4194 0.4785 0.06502 0.02094 0.4286 0.04336
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1848 0.1508 0.5302 6.451e-5 0.4493 0.2154

mode liq g ksp pl ilm ru q
0.4493 0.2154 0 0.1330 0.006916 0.005263 0.1901

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.71 831.8 0.07305 0.2845 0.6157 0.02301 0.002598 0.6914
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6140 0.2983 0.2757 0.05098 0.1696 0.2180
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6483 0.1445 0.02158 0.3255 0.8376 0.05043
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2904 0.01317 0.1862 0.07710 0.4930 8.703e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1929 0.1241 0.1403 0 0 0.2241 0.005475 0.002885 0.02254 0.2876

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 832.8 0.07260 0.2848 0.6185 0.02307 0.002600 0.6895
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6141 0.2953 0.2740 0.05134 0.1701 0.2177
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6450 0.1452 0.02197 0.3228 0.8364 0.05043
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2921 0.01317 0.1834 0.07801 0.4901 8.355e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1924 0.1213 0.1429 0.002806 0 0.2232 0.005406 0.002961 0.02178 0.2873

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 834.0 0.07210 0.2852 0.6217 0.02313 0.002602 0.6875
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6142 0.2919 0.2722 0.05175 0.1708 0.2173
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6412 0.1460 0.02240 0.3198 0.8351 0.05043
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2941 0.01316 0.1802 0.07904 0.4869 7.994e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1918	0.1181	0.1458	0.005954		0	0.2221	0.005330	0.003046	0.02092 0.2870

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 835.2 0.07160 0.2856 0.6250 0.02319 0.002605 0.6854
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6143 0.2886 0.2703 0.05215 0.1715 0.2169
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6375 0.1468 0.02283 0.3168 0.8338 0.05043
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2961 0.01316 0.1771 0.08009 0.4837 7.662e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1913	0.1149	0.1486	0.009096		0	0.2210	0.005254	0.003131	0.02007 0.2866

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.10 836.3 0.07110 0.2860 0.6283 0.02324 0.002607 0.6834
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6144 0.2853 0.2685 0.05255 0.1721 0.2164
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6338 0.1475 0.02325 0.3138 0.8325 0.05042
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2981 0.01315 0.1739 0.08115 0.4806 7.355e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1907	0.1117	0.1515	0.01223		0	0.2199	0.005179	0.003216	0.01921 0.2863

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 837.5 0.07060 0.2864 0.6316 0.02329 0.002609 0.6814
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6144 0.2820 0.2668 0.05294 0.1728 0.2159
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6301 0.1481 0.02367 0.3109 0.8311 0.05042
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3001 0.01314 0.1708 0.08223 0.4774 7.070e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1901	0.1086	0.1543	0.01537		0	0.2189	0.005105	0.003301	0.01835 0.2860

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.30 838.7 0.07011 0.2868 0.6350 0.02334 0.002611 0.6794
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6145 0.2789 0.2650 0.05332 0.1734 0.2153
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6263 0.1487 0.02408 0.3080 0.8298 0.05042
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3021 0.01312 0.1677 0.08333 0.4743 6.806e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1896	0.1054	0.1571	0.01850		0	0.2178	0.005032	0.003386	0.01749 0.2857

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 839.9 0.06962 0.2872 0.6384 0.02338 0.002613 0.6774
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6146 0.2757 0.2633 0.05370 0.1741 0.2147
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6226 0.1492 0.02449 0.3052 0.8285 0.05041
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3042 0.01311 0.1646 0.08443 0.4713 6.560e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1890	0.1022	0.1600	0.02163		0	0.2168	0.004961	0.003470	0.01663 0.2854

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 841.0 0.06913 0.2876 0.6418 0.02341 0.002616 0.6754
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6146 0.2726 0.2616 0.05407 0.1747 0.2141
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6188 0.1497 0.02489 0.3023 0.8271 0.05041
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3062 0.01309 0.1615 0.08555 0.4682 6.330e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1884	0.09908	0.1628	0.02477		0	0.2157	0.004891	0.003555	0.01576 0.2850

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 842.2 0.06865 0.2881 0.6453 0.02344 0.002618 0.6734
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6147 0.2696 0.2599 0.05443 0.1753 0.2135
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6151 0.1502 0.02528 0.2996 0.8258 0.05040
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3083 0.01307 0.1585 0.08668 0.4652 6.115e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1879	0.09591	0.1656	0.02790		0	0.2147	0.004821	0.003640	0.01489 0.2847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.70 843.4 0.06817 0.2885 0.6488 0.02346 0.002620 0.6715
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6147 0.2666 0.2583 0.05479 0.1760 0.2128
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6113 0.1505 0.02567 0.2968 0.8245 0.05040
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.3103 0.01305 0.1555 0.08782 0.4622 5.914e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1873	0.09274	0.1684	0.03104		0	0.2137	0.004753	0.003725	0.01402 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 844.5 0.06769 0.2890 0.6523 0.02349 0.002622 0.6695
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6148 0.2636 0.2566 0.05514 0.1766 0.2121
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6076 0.1509 0.02605 0.2941 0.8231 0.05039
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3124 0.01303 0.1525 0.08897 0.4593 5.724e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1868	0.08956	0.1711	0.03419		0	0.2127	0.004687	0.003811	0.01313 0.2840

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90 845.7 0.06721 0.2894 0.6559 0.02350 0.002624 0.6675
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6148 0.2607 0.2550 0.05549 0.1773 0.2114
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6038 0.1511 0.02643 0.2914 0.8218 0.05038
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3145 0.01301 0.1496 0.09013 0.4563 5.545e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1862	0.08637	0.1739	0.03734		0	0.2117	0.004621	0.003896	0.01225 0.2837

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 846.9 0.06674 0.2899 0.6594 0.02351 0.002626 0.6656
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6148 0.2579 0.2535 0.05583 0.1779 0.2106
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6000 0.1514 0.02679 0.2887 0.8204 0.05037
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3166 0.01298 0.1467 0.09130 0.4534 5.377e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1857	0.08317	0.1767	0.04050		0	0.2108	0.004557	0.003982	0.01135 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 848.1 0.06628 0.2904 0.6630 0.02352 0.002628 0.6637
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6148 0.2550 0.2519 0.05617 0.1785 0.2098
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5963 0.1515 0.02715 0.2861 0.8191 0.05036
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3187 0.01295 0.1438 0.09248 0.4505 5.218e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1851	0.07996	0.1795	0.04368		0	0.2098	0.004494	0.004068	0.01045 0.2830

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	849.3	0.06581	0.2908	0.6666	0.02353	0.002629	0.6617
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6148	0.2522	0.2504	0.05650	0.1792	0.2090	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5925	0.1517	0.02750	0.2835	0.8177	0.05035	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3208	0.01292	0.1410	0.09367	0.4477	5.067e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1846	0.07674	0.1822	0.04686		0	0.2089	0.004433	0.004155	0.009542 0.2826

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.30	850.4	0.06535	0.2913	0.6703	0.02353	0.002631	0.6598
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6148	0.2495	0.2488	0.05683	0.1798	0.2082	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5887	0.1517	0.02785	0.2809	0.8164	0.05034	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3229	0.01289	0.1382	0.09486	0.4449	4.924e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1840	0.07350	0.1850	0.05005		0	0.2079	0.004373	0.004242	0.008624 0.2823

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	851.6	0.06489	0.2918	0.6739	0.02353	0.002633	0.6579
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6148	0.2467	0.2473	0.05715	0.1804	0.2073	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5849	0.1518	0.02818	0.2784	0.8150	0.05032	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3250	0.01286	0.1355	0.09606	0.4421	4.788e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1835	0.07025	0.1878	0.05326		0	0.2070	0.004314	0.004329	0.007696 0.2819

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.50	852.8	0.06444	0.2924	0.6776	0.02352	0.002634	0.6560
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6148	0.2440	0.2459	0.05747	0.1810	0.2064	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5811	0.1518	0.02851	0.2759	0.8136	0.05030	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3271	0.01282	0.1327	0.09727	0.4393	4.659e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1829	0.06697	0.1905	0.05648		0	0.2061	0.004257	0.004417	0.006759 0.2815

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.60	854.0	0.06399	0.2929	0.6812	0.02351	0.002636	0.6541
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6148	0.2414	0.2444	0.05778	0.1817	0.2055	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5773	0.1517	0.02883	0.2734	0.8123	0.05029	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3291	0.01279	0.1301	0.09848	0.4365	4.536e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1824	0.06368	0.1933	0.05972		0	0.2052	0.004201	0.004505	0.005811 0.2811

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.70	855.2	0.06354	0.2934	0.6849	0.02350	0.002637	0.6522
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6147	0.2388	0.2430	0.05809	0.1823	0.2046	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5735	0.1516	0.02914	0.2709	0.8109	0.05026	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3312	0.01275	0.1275	0.09970	0.4338	4.419e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1818	0.06037	0.1961	0.06298		0	0.2044	0.004146	0.004595	0.004853 0.2808

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.80	856.4	0.06310	0.2939	0.6886	0.02348	0.002638	0.6503
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6147	0.2362	0.2416	0.05839	0.1829	0.2036	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5696	0.1514	0.02945	0.2684	0.8095	0.05024	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3333	0.01271	0.1249	0.1009	0.4310	4.307e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1813	0.05703	0.1989	0.06626		0	0.2035	0.004093	0.004684	0.003883 0.2804

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.90	857.5	0.06266	0.2945	0.6923	0.02347	0.002639	0.6484
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6146	0.2336	0.2402	0.05869	0.1835	0.2026	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5658	0.1512	0.02975	0.2660	0.8082	0.05022	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3354	0.01267	0.1223	0.1022	0.4283	4.200e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1808	0.05366	0.2017	0.06956		0	0.2027	0.004042	0.004775	0.002901 0.2800

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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18.00  858.7 0.06223 0.2950 0.6959 0.02344 0.002640 0.6465
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6145 0.2311 0.2388 0.05898 0.1841 0.2017
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5620 0.1510 0.03003 0.2636 0.8068 0.05019
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.3375 0.01263 0.1199 0.1034 0.4257 4.098e-5

```

```

mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.1802 0.05027 0.2045 0.07288 0 0.2018 0.003992 0.004866 0.001907 0.2795

```

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10  859.9 0.06179 0.2956 0.6996 0.02342 0.002641 0.6446
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6144 0.2286 0.2374 0.05927 0.1848 0.2006
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5581 0.1507 0.03032 0.2612 0.8054 0.05017
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.3396 0.01258 0.1174 0.1046 0.4230 3.999e-5

```

```

mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.1797 0.04685 0.2073 0.07622 0 0.2010 0.003943 0.0049590.0009003 0.2791

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, q

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00  849.2 0.08579 0.2946 0.5787 0.02668 0.002320 0.6586
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5840 0.2597 0.3377 0.05427 0.1781 0.1749
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5742 0.07703 0.01197 0.2874 0.8738 0.05448
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.2888 0.01600 0.2240 0.07471 0.4684 6.147e-5

```

```

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2136 0.07258 0.1724 0.03053 0 0.2307 0.006662 0.003788 0.2697

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.08  849.4 0.08511 0.2944 0.5808 0.02673 0.002328 0.6582
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5850 0.2588 0.3347 0.05448 0.1783 0.1758
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5739 0.07894 0.01230 0.2867 0.8722 0.05433
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.2896 0.01594 0.2217 0.07517 0.4671 6.067e-5

```


mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2125	0.07196	0.1732	0.03171		0	0.2301	0.006612	0.003815 0.2701

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.16	849.7	0.08444	0.2942	0.5830	0.02677	0.002336	0.6578
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5860	0.2578	0.3317	0.05468	0.1785	0.1767	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5735	0.08088	0.01263	0.2860	0.8706	0.05419	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2904	0.01589	0.2194	0.07565	0.4659	5.988e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2114	0.07133	0.1740	0.03290		0	0.2295	0.006560	0.003842 0.2704

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.24	849.9	0.08377	0.2941	0.5853	0.02681	0.002344	0.6574
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5870	0.2569	0.3287	0.05488	0.1786	0.1776	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5732	0.08284	0.01298	0.2853	0.8690	0.05405	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2912	0.01583	0.2171	0.07615	0.4646	5.910e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2104	0.07069	0.1749	0.03410		0	0.2289	0.006507	0.003870 0.2707

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.32	850.1	0.08311	0.2939	0.5876	0.02684	0.002351	0.6569
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5879	0.2560	0.3258	0.05507	0.1788	0.1784	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5728	0.08483	0.01334	0.2845	0.8674	0.05391	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2921	0.01578	0.2146	0.07667	0.4633	5.832e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2093	0.07005	0.1757	0.03531		0	0.2283	0.006453	0.003899 0.2710

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.40	850.4	0.08244	0.2938	0.5900	0.02686	0.002359	0.6565
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5889	0.2551	0.3229	0.05527	0.1790	0.1793	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5725	0.08683	0.01370	0.2838	0.8657	0.05377	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2930	0.01572	0.2122	0.07720	0.4620	5.756e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.2083 0.06939 0.1766 0.03653 0 0.2276 0.006397 0.003927 0.2713

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.48 850.6 0.08178 0.2937 0.5925 0.02687 0.002366 0.6561
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5898 0.2542 0.3200 0.05546 0.1792 0.1801
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5721 0.08886 0.01408 0.2830 0.8641 0.05364
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2940 0.01566 0.2097 0.07776 0.4607 5.681e-5

mode liq bi g mu ksp pl ilm ru q
0.2072 0.06872 0.1774 0.03776 0 0.2270 0.006340 0.003957 0.2716

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.56 850.9 0.08112 0.2935 0.5950 0.02688 0.002373 0.6556
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5907 0.2532 0.3171 0.05565 0.1793 0.1809
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5717 0.09091 0.01447 0.2822 0.8624 0.05352
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2950 0.01559 0.2072 0.07833 0.4594 5.608e-5

mode liq bi g mu ksp pl ilm ru q
0.2062 0.06805 0.1783 0.03899 0 0.2263 0.006281 0.003986 0.2719

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.64 851.1 0.08046 0.2934 0.5976 0.02688 0.002380 0.6552
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5917 0.2523 0.3143 0.05583 0.1795 0.1817
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5713 0.09297 0.01487 0.2815 0.8608 0.05339
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2960 0.01553 0.2046 0.07892 0.4581 5.535e-5

mode liq bi g mu ksp pl ilm ru q
0.2052 0.06736 0.1792 0.04024 0 0.2256 0.006221 0.004016 0.2722

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.72 851.4 0.07981 0.2933 0.6003 0.02687 0.002386 0.6547
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5926 0.2514 0.3115 0.05602 0.1797 0.1825
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5709 0.09505 0.01529 0.2807 0.8591 0.05327
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2971 0.01547 0.2019 0.07953 0.4568 5.464e-5

mode liq bi g mu ksp pl ilm ru q
0.2042 0.06667 0.1802 0.04148 0 0.2248 0.006160 0.004047 0.2725

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.80    851.6  0.07915  0.2933  0.6030  0.02686  0.002393  0.6543
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5935  0.2505  0.3087  0.05620  0.1798  0.1833
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5705  0.09713  0.01571  0.2799  0.8575  0.05315
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.2982  0.01540  0.1992  0.08016  0.4555  5.394e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2032  0.06597  0.1811  0.04274  0  0.2241  0.006097  0.004077  0.2728

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.88    851.9  0.07850  0.2932  0.6058  0.02684  0.002400  0.6538
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5944  0.2495  0.3059  0.05637  0.1800  0.1840
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5701  0.09922  0.01614  0.2791  0.8558  0.05304
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.2993  0.01533  0.1965  0.08081  0.4542  5.325e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2022  0.06526  0.1820  0.04400  0  0.2233  0.006033  0.004108  0.2731

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.96    852.2  0.07785  0.2931  0.6087  0.02680  0.002406  0.6533
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5952  0.2486  0.3031  0.05654  0.1802  0.1848
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5696  0.1013  0.01658  0.2783  0.8541  0.05293
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3005  0.01526  0.1938  0.08148  0.4528  5.257e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2012  0.06454  0.1830  0.04527  0  0.2226  0.005968  0.004140  0.2733

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.04    852.4  0.07721  0.2931  0.6116  0.02677  0.002413  0.6529
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5961  0.2477  0.3004  0.05671  0.1804  0.1855
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5692  0.1034  0.01703  0.2775  0.8524  0.05282
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3017  0.01519  0.1910  0.08217  0.4515  5.191e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2002  0.06382  0.1840  0.04654  0  0.2218  0.005901  0.004172  0.2736

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.12    852.7  0.07657  0.2930  0.6146  0.02672  0.002419  0.6524

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5969 0.2467 0.2977 0.05688 0.1805 0.1862
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5687 0.1055 0.01748 0.2768 0.8507 0.05271
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3030 0.01511 0.1882 0.08287 0.4502 5.126e-5

mode liq bi g mu ksp pl ilm ru q
0.1993 0.06309 0.1849 0.04782 0 0.2210 0.005834 0.004204 0.2739

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 853.0 0.07593 0.2930 0.6176 0.02666 0.002426 0.6520
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5978 0.2458 0.2950 0.05704 0.1807 0.1869
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5682 0.1076 0.01795 0.2760 0.8490 0.05261
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3042 0.01504 0.1853 0.08360 0.4489 5.063e-5

mode liq bi g mu ksp pl ilm ru q
0.1983 0.06235 0.1859 0.04909 0 0.2202 0.005765 0.004236 0.2741

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.28 853.2 0.07529 0.2930 0.6207 0.02660 0.002432 0.6515
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5986 0.2449 0.2924 0.05720 0.1809 0.1875
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5677 0.1096 0.01842 0.2752 0.8473 0.05251
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3056 0.01496 0.1825 0.08434 0.4476 5.001e-5

mode liq bi g mu ksp pl ilm ru q
0.1974 0.06161 0.1869 0.05038 0 0.2194 0.005695 0.004269 0.2744

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.36 853.5 0.07466 0.2930 0.6239 0.02653 0.002439 0.6510
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5994 0.2440 0.2897 0.05735 0.1811 0.1882
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5672 0.1117 0.01890 0.2744 0.8456 0.05241
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3069 0.01488 0.1796 0.08511 0.4463 4.940e-5

mode liq bi g mu ksp pl ilm ru q
0.1965 0.06086 0.1879 0.05166 0 0.2186 0.005624 0.004301 0.2746

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.44 853.8 0.07403 0.2930 0.6271 0.02645 0.002445 0.6506
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6002 0.2431 0.2871 0.05750 0.1813 0.1888

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5667 0.1138 0.01939 0.2736 0.8438 0.05231
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3083 0.01480 0.1767 0.08589 0.4450 4.881e-5

mode liq bi g mu ksp pl ilm ru q
0.1956 0.06011 0.1889 0.05294 0 0.2177 0.005553 0.004334 0.2749

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.52 854.1 0.07340 0.2931 0.6304 0.02637 0.002452 0.6501
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6010 0.2422 0.2845 0.05764 0.1814 0.1894
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5662 0.1158 0.01989 0.2728 0.8421 0.05221
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3096 0.01471 0.1737 0.08668 0.4438 4.823e-5

mode liq bi g mu ksp pl ilm ru q
0.1947 0.05935 0.1899 0.05422 0 0.2169 0.005480 0.004367 0.2751

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 854.4 0.07278 0.2931 0.6337 0.02628 0.002459 0.6497
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6018 0.2413 0.2820 0.05778 0.1816 0.1900
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5657 0.1178 0.02038 0.2721 0.8403 0.05212
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3111 0.01463 0.1708 0.08750 0.4425 4.767e-5

mode liq bi g mu ksp pl ilm ru q
0.1938 0.05860 0.1909 0.05550 0 0.2161 0.005407 0.004401 0.2753

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.68 854.7 0.07216 0.2932 0.6370 0.02618 0.002466 0.6492
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6025 0.2405 0.2795 0.05791 0.1818 0.1906
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5652 0.1198 0.02089 0.2713 0.8386 0.05202
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3125 0.01454 0.1678 0.08832 0.4412 4.712e-5

mode liq bi g mu ksp pl ilm ru q
0.1929 0.05784 0.1919 0.05677 0 0.2152 0.005333 0.004434 0.2756

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.76 854.9 0.07155 0.2932 0.6404 0.02607 0.002473 0.6488
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6033 0.2396 0.2769 0.05804 0.1820 0.1912
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5646 0.1217 0.02140 0.2706 0.8368 0.05193

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3140 0.01445 0.1649 0.08917 0.4400 4.658e-5

mode liq bi g mu ksp pl ilm ru q
0.1921 0.05707 0.1929 0.05804 0 0.2144 0.005258 0.004467 0.2758

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.84 855.3 0.07094 0.2933 0.6438 0.02596 0.002480 0.6484
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6040 0.2387 0.2745 0.05817 0.1822 0.1918
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5641 0.1236 0.02191 0.2698 0.8351 0.05183
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3154 0.01436 0.1619 0.09003 0.4388 4.606e-5

mode liq bi g mu ksp pl ilm ru q
0.1912 0.05631 0.1939 0.05931 0 0.2135 0.005183 0.004500 0.2760

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.92 855.6 0.07033 0.2934 0.6473 0.02584 0.002488 0.6480
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6047 0.2379 0.2720 0.05829 0.1823 0.1923
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5636 0.1255 0.02242 0.2691 0.8333 0.05174
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3169 0.01426 0.1590 0.09090 0.4375 4.555e-5

mode liq bi g mu ksp pl ilm ru q
0.1904 0.05555 0.1949 0.06057 0 0.2127 0.005107 0.004534 0.2762

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 855.9 0.06973 0.2935 0.6508 0.02572 0.002496 0.6476
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6054 0.2371 0.2696 0.05840 0.1825 0.1929
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5630 0.1274 0.02294 0.2684 0.8315 0.05165
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3184 0.01417 0.1561 0.09178 0.4364 4.506e-5

mode liq bi g mu ksp pl ilm ru q
0.1896 0.05479 0.1959 0.06182 0 0.2119 0.005031 0.004567 0.2764

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.08 856.2 0.06913 0.2936 0.6542 0.02559 0.002504 0.6472
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6061 0.2362 0.2672 0.05851 0.1827 0.1934
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5624 0.1292 0.02346 0.2676 0.8297 0.05155
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3200 0.01407 0.1531 0.09268 0.4352 4.458e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1888	0.05402	0.1969	0.06307		0	0.2110	0.004955	0.004600 0.2766

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.16	856.5	0.06854	0.2937	0.6578	0.02546	0.002512	0.6468
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6068	0.2354	0.2648	0.05862	0.1829	0.1939	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5619	0.1310	0.02398	0.2669	0.8280	0.05146	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3215	0.01397	0.1502	0.09358	0.4340	4.411e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1880	0.05326	0.1979	0.06431		0	0.2102	0.004878	0.004633 0.2768

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.24	856.8	0.06795	0.2938	0.6613	0.02532	0.002520	0.6464
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6075	0.2347	0.2624	0.05872	0.1831	0.1944	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5613	0.1328	0.02450	0.2663	0.8262	0.05136	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3230	0.01387	0.1473	0.09450	0.4329	4.366e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1872	0.05250	0.1989	0.06553		0	0.2094	0.004801	0.004666 0.2770

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.32	857.1	0.06737	0.2940	0.6648	0.02517	0.002529	0.6460
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6081	0.2339	0.2601	0.05882	0.1833	0.1949	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5608	0.1345	0.02502	0.2656	0.8244	0.05127	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3246	0.01377	0.1445	0.09542	0.4317	4.322e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1865	0.05175	0.1999	0.06675		0	0.2086	0.004724	0.004699 0.2772

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	857.5	0.06680	0.2941	0.6684	0.02503	0.002538	0.6457
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6088	0.2331	0.2578	0.05891	0.1835	0.1954	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5602	0.1361	0.02554	0.2649	0.8225	0.05117	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3262	0.01366	0.1416	0.09635	0.4306	4.279e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.1857 0.05099 0.2008 0.06796 0 0.2078 0.004648 0.004732 0.2773

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.48 857.8 0.06622 0.2943 0.6719 0.02487 0.002547 0.6454
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6094 0.2324 0.2555 0.05899 0.1836 0.1959
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5596 0.1378 0.02606 0.2643 0.8207 0.05108
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3277 0.01356 0.1388 0.09729 0.4295 4.237e-5

mode liq bi g mu ksp pl ilm ru q
0.1850 0.05024 0.2018 0.06916 0 0.2070 0.004571 0.004764 0.2775

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.56 858.2 0.06566 0.2945 0.6755 0.02472 0.002556 0.6450
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6100 0.2316 0.2532 0.05907 0.1838 0.1963
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5591 0.1394 0.02657 0.2636 0.8189 0.05098
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3293 0.01345 0.1360 0.09823 0.4284 4.196e-5

mode liq bi g mu ksp pl ilm ru q
0.1843 0.04950 0.2027 0.07034 0 0.2062 0.004494 0.004796 0.2777

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.64 858.5 0.06510 0.2947 0.6790 0.02456 0.002566 0.6447
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6106 0.2309 0.2510 0.05915 0.1840 0.1968
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5585 0.1409 0.02709 0.2630 0.8170 0.05088
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3308 0.01334 0.1332 0.09918 0.4274 4.157e-5

mode liq bi g mu ksp pl ilm ru q
0.1836 0.04876 0.2037 0.07151 0 0.2054 0.004417 0.004828 0.2778

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.72 858.8 0.06454 0.2948 0.6825 0.02440 0.002576 0.6444
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6112 0.2302 0.2488 0.05922 0.1842 0.1973
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5580 0.1424 0.02760 0.2624 0.8152 0.05077
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3324 0.01323 0.1305 0.1001 0.4263 4.119e-5

mode liq bi g mu ksp pl ilm ru q
0.1829 0.04802 0.2046 0.07267 0 0.2046 0.004341 0.004860 0.2780

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.80    859.2  0.06400  0.2950  0.6860  0.02423  0.002586  0.6441
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6118  0.2295  0.2466  0.05928  0.1844  0.1977
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5574  0.1439  0.02812  0.2618  0.8133  0.05067
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3339  0.01311  0.1278  0.1011  0.4253  4.082e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1823  0.04729  0.2055  0.07382  0  0.2039  0.004265  0.004892  0.2781

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.88    859.6  0.06345  0.2952  0.6895  0.02406  0.002597  0.6438
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6123  0.2288  0.2444  0.05934  0.1846  0.1981
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5568  0.1453  0.02863  0.2612  0.8115  0.05057
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3355  0.01300  0.1252  0.1020  0.4243  4.046e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1816  0.04656  0.2064  0.07495  0  0.2031  0.004189  0.004923  0.2783

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.96    859.9  0.06292  0.2955  0.6930  0.02389  0.002608  0.6436
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6129  0.2282  0.2422  0.05940  0.1848  0.1986
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5563  0.1467  0.02913  0.2607  0.8096  0.05046
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3370  0.01288  0.1225  0.1030  0.4233  4.011e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1810  0.04583  0.2073  0.07607  0  0.2024  0.004114  0.004954  0.2784

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.04    860.3  0.06238  0.2957  0.6965  0.02372  0.002619  0.6433
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6134  0.2275  0.2401  0.05945  0.1850  0.1990
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5557  0.1481  0.02964  0.2601  0.8077  0.05035
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3386  0.01277  0.1200  0.1039  0.4224  3.977e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1804  0.04512  0.2082  0.07718  0  0.2016  0.004039  0.004985  0.2785

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.12    860.7  0.06186  0.2959  0.7000  0.02355  0.002631  0.6431

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6139 0.2269 0.2380 0.05949 0.1851 0.1994
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5552 0.1494 0.03014 0.2596 0.8058 0.05024
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3401 0.01265 0.1174 0.1049 0.4214 3.944e-5

mode liq bi g mu ksp pl ilm ru q
 0.1797 0.04440 0.2090 0.07827 0 0.2009 0.003964 0.005015 0.2786

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.20 861.0 0.06134 0.2961 0.7034 0.02337 0.002643 0.6429
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6144 0.2263 0.2359 0.05953 0.1853 0.1998
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5546 0.1507 0.03063 0.2591 0.8040 0.05013
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3416 0.01253 0.1149 0.1058 0.4205 3.911e-5

mode liq bi g mu ksp pl ilm ru q
 0.1792 0.04370 0.2099 0.07936 0 0.2002 0.003890 0.005045 0.2788

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.28 861.4 0.06083 0.2964 0.7068 0.02320 0.002655 0.6426
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6149 0.2257 0.2338 0.05957 0.1855 0.2002
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5541 0.1519 0.03112 0.2585 0.8020 0.05001
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3431 0.01241 0.1125 0.1068 0.4196 3.880e-5

mode liq bi g mu ksp pl ilm ru q
 0.1786 0.04300 0.2107 0.08042 0 0.1995 0.003817 0.005075 0.2789

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.36 861.8 0.06032 0.2966 0.7101 0.02302 0.002668 0.6424
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6154 0.2251 0.2318 0.05960 0.1857 0.2006
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5536 0.1531 0.03161 0.2580 0.8001 0.04989
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3446 0.01229 0.1101 0.1077 0.4187 3.850e-5

mode liq bi g mu ksp pl ilm ru q
 0.1780 0.04230 0.2115 0.08148 0 0.1988 0.003743 0.005105 0.2790

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.44 862.2 0.05982 0.2969 0.7135 0.02284 0.002680 0.6423
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6159 0.2245 0.2297 0.05963 0.1859 0.2010

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5530 0.1542 0.03210 0.2576 0.7982 0.04977
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3460 0.01216 0.1077 0.1087 0.4179 3.820e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1775	0.04161	0.2123	0.08252		0	0.1982	0.003671	0.005134 0.2791

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.52 862.6 0.05932 0.2971 0.7168 0.02266 0.002694 0.6421
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6163 0.2239 0.2277 0.05965 0.1861 0.2013
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5525 0.1554 0.03258 0.2571 0.7963 0.04965
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3475 0.01204 0.1054 0.1096 0.4170 3.792e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1769	0.04093	0.2131	0.08354		0	0.1975	0.003599	0.005163 0.2792

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.60 863.0 0.05883 0.2974 0.7201 0.02248 0.002707 0.6419
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6168 0.2234 0.2257 0.05967 0.1863 0.2017
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5520 0.1564 0.03306 0.2566 0.7944 0.04953
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3489 0.01192 0.1031 0.1105 0.4162 3.764e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1764	0.04025	0.2139	0.08456		0	0.1969	0.003527	0.005192 0.2793

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.68 863.4 0.05835 0.2976 0.7233 0.02230 0.002721 0.6418
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6172 0.2229 0.2238 0.05969 0.1865 0.2021
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5515 0.1575 0.03353 0.2562 0.7924 0.04940
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3504 0.01179 0.1009 0.1114 0.4154 3.737e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1759	0.03958	0.2147	0.08556		0	0.1963	0.003456	0.005220 0.2794

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.76 863.8 0.05787 0.2979 0.7265 0.02212 0.002735 0.6416
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6176 0.2223 0.2218 0.05970 0.1867 0.2025
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5509 0.1585 0.03400 0.2558 0.7905 0.04928

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3518 0.01167 0.09871 0.1123 0.4146 3.710e-5

mode liq bi g mu ksp pl ilm ru q
0.1754 0.03892 0.2154 0.08655 0 0.1956 0.003386 0.005248 0.2795

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.84 864.2 0.05740 0.2982 0.7297 0.02194 0.002749 0.6415
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6180 0.2218 0.2199 0.05970 0.1869 0.2028
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5504 0.1595 0.03447 0.2554 0.7885 0.04915
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3531 0.01154 0.09657 0.1132 0.4138 3.685e-5

mode liq bi g mu ksp pl ilm ru q
0.1749 0.03826 0.2162 0.08752 0 0.1950 0.003316 0.005276 0.2795

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.92 864.6 0.05694 0.2985 0.7328 0.02176 0.002764 0.6414
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6184 0.2213 0.2180 0.05970 0.1871 0.2032
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5499 0.1604 0.03493 0.2550 0.7865 0.04901
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3545 0.01141 0.09447 0.1141 0.4130 3.660e-5

mode liq bi g mu ksp pl ilm ru q
0.1744 0.03760 0.2169 0.08849 0 0.1944 0.003246 0.005304 0.2796

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 865.0 0.05648 0.2987 0.7359 0.02159 0.002779 0.6413
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6188 0.2208 0.2161 0.05970 0.1873 0.2035
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5494 0.1614 0.03539 0.2546 0.7845 0.04888
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3558 0.01129 0.09242 0.1150 0.4123 3.635e-5

mode liq bi g mu ksp pl ilm ru q
0.1739 0.03696 0.2176 0.08944 0 0.1939 0.003178 0.005331 0.2797

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.08 865.5 0.05602 0.2990 0.7390 0.02141 0.002795 0.6412
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6192 0.2203 0.2142 0.05970 0.1875 0.2039
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5489 0.1622 0.03584 0.2542 0.7826 0.04874
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3572 0.01116 0.09042 0.1159 0.4115 3.612e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1735	0.03632	0.2183	0.09038		0	0.1933	0.003109	0.005358 0.2798

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.16	865.9	0.05558	0.2993	0.7420	0.02123	0.002811	0.6411
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6196	0.2199	0.2123	0.05969	0.1877	0.2042	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5484	0.1631	0.03629	0.2538	0.7806	0.04861	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3585	0.01103	0.08846	0.1167	0.4108	3.589e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1730	0.03568	0.2190	0.09131		0	0.1927	0.003042	0.005384 0.2798

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.24	866.3	0.05513	0.2996	0.7450	0.02105	0.002827	0.6410
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6199	0.2194	0.2105	0.05967	0.1879	0.2045	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5479	0.1639	0.03674	0.2535	0.7785	0.04847	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3597	0.01091	0.08654	0.1176	0.4101	3.566e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1726	0.03505	0.2197	0.09223		0	0.1922	0.002975	0.005411 0.2799

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.32	866.8	0.05470	0.2999	0.7480	0.02087	0.002843	0.6410
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6203	0.2190	0.2086	0.05966	0.1881	0.2049	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5475	0.1647	0.03718	0.2531	0.7765	0.04832	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3610	0.01078	0.08467	0.1184	0.4094	3.544e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1722	0.03443	0.2203	0.09313		0	0.1916	0.002908	0.005437 0.2799

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.40	867.2	0.05427	0.3002	0.7509	0.02070	0.002860	0.6409
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6206	0.2185	0.2068	0.05964	0.1883	0.2052	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5470	0.1655	0.03762	0.2528	0.7745	0.04818	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3622	0.01065	0.08284	0.1193	0.4088	3.523e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.1718 0.03381 0.2210 0.09403 0 0.1911 0.002842 0.005463 0.2800

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.48 867.6 0.05384 0.3005 0.7538 0.02052 0.002877 0.6409
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6209 0.2181 0.2050 0.05961 0.1885 0.2055
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5465 0.1662 0.03805 0.2524 0.7725 0.04804
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3634 0.01052 0.08105 0.1201 0.4081 3.502e-5

mode liq bi g mu ksp pl ilm ru q
0.1714 0.03319 0.2216 0.09492 0 0.1906 0.002777 0.005488 0.2800

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.56 868.1 0.05342 0.3008 0.7566 0.02035 0.002895 0.6409
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6212 0.2177 0.2032 0.05959 0.1887 0.2058
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5460 0.1670 0.03848 0.2521 0.7704 0.04789
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3646 0.01040 0.07930 0.1209 0.4075 3.482e-5

mode liq bi g mu ksp pl ilm ru q
0.1710 0.03258 0.2223 0.09580 0 0.1901 0.002712 0.005514 0.2801

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.64 868.5 0.05301 0.3011 0.7594 0.02018 0.002912 0.6408
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6215 0.2173 0.2015 0.05955 0.1889 0.2061
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5456 0.1677 0.03891 0.2518 0.7684 0.04774
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3658 0.01027 0.07759 0.1217 0.4068 3.462e-5

mode liq bi g mu ksp pl ilm ru q
0.1706 0.03198 0.2229 0.09667 0 0.1896 0.002647 0.005539 0.2801

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.72 869.0 0.05260 0.3014 0.7622 0.02000 0.002930 0.6408
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6218 0.2169 0.1997 0.05952 0.1891 0.2064
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5451 0.1683 0.03934 0.2515 0.7663 0.04759
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3669 0.01014 0.07592 0.1224 0.4062 3.443e-5

mode liq bi g mu ksp pl ilm ru q
0.1702 0.03138 0.2235 0.09753 0 0.1891 0.002583 0.005564 0.2802

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.80    869.5  0.05219  0.3017  0.7649  0.01983  0.002949  0.6408
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6221  0.2165  0.1980  0.05948  0.1893  0.2068
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5447  0.1690  0.03976  0.2513  0.7643  0.04744
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3680  0.01002  0.07430  0.1232  0.4056  3.424e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1698  0.03079  0.2241  0.09838  0  0.1886  0.002520  0.005589  0.2802

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.88    869.9  0.05179  0.3020  0.7676  0.01966  0.002968  0.6408
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6224  0.2161  0.1963  0.05944  0.1895  0.2071
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5442  0.1696  0.04018  0.2510  0.7622  0.04728
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3691  0.009891  0.07271  0.1239  0.4050  3.405e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1695  0.03020  0.2246  0.09922  0  0.1882  0.002457  0.005613  0.2802

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.96    870.4  0.05140  0.3023  0.7703  0.01950  0.002987  0.6408
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6226  0.2158  0.1946  0.05940  0.1897  0.2073
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5438  0.1702  0.04059  0.2507  0.7601  0.04713
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3702  0.009766  0.07115  0.1247  0.4044  3.387e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1691  0.02961  0.2252  0.1001  0  0.1877  0.002395  0.005637  0.2803

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```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
20.00    870.6  0.05121  0.3025  0.7716  0.01941  0.002996  0.6408
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6228  0.2156  0.1937  0.05938  0.1898  0.2075
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5435  0.1705  0.04080  0.2506  0.7591  0.04705
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3707  0.009703  0.07039  0.1250  0.4041  3.378e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1690  0.02932  0.2255  0.1005  0  0.1875  0.002363  0.005649  0.2803

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calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, q
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.19 861.0 0.06142 0.2961 0.7029 0.02340 0.002641 0.6429
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6144 0.2264 0.2362 0.05953 0.1853 0.1997
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5547 0.1505 0.03056 0.2591 0.8042 0.05014
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.3414 0.01255 0.1153 0.1057 0.4207 3.916e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1792 0.04380 0.2098 0.07920 0 0.2003 0.003901 0.005041 0 0.2787
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, q
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 861.1 0.06137 0.2962 0.7033 0.02340 0.002641 0.6427
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6144 0.2261 0.2361 0.05956 0.1854 0.1996
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5543 0.1505 0.03060 0.2588 0.8041 0.05014
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.3416 0.01254 0.1150 0.1058 0.4203 3.905e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1794 0.04343 0.2101 0.079130.0003904 0.2000 0.003894 0.005051 0 0.2786
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.25 861.7 0.06116 0.2964 0.7051 0.02339 0.002640 0.6417
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6143 0.2248 0.2354 0.05971 0.1857 0.1991
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5523 0.1504 0.03076 0.2576 0.8034 0.05012
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.3426 0.01252 0.1139 0.1064 0.4190 3.858e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1802 0.04184 0.2116 0.07884 0.002082 0.1984 0.003863 0.005096 0 0.2781
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.30 862.3 0.06095 0.2967 0.7068 0.02339 0.002640 0.6407

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6142 0.2236 0.2347 0.05985 0.1860 0.1985
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5504 0.1503 0.03092 0.2564 0.8027 0.05010
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3436 0.01250 0.1128 0.1070 0.4176 3.812e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1811 0.04025 0.2130 0.07853 0.003800 0.1968 0.003833 0.005140 0 0.2776

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.35 862.9 0.06074 0.2970 0.7086 0.02338 0.002639 0.6397
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6142 0.2223 0.2340 0.06000 0.1863 0.1980
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5484 0.1502 0.03108 0.2552 0.8020 0.05008
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3446 0.01248 0.1117 0.1076 0.4163 3.767e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1819 0.03865 0.2145 0.07821 0.005545 0.1952 0.003802 0.005185 0 0.2770

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 863.5 0.06053 0.2973 0.7104 0.02337 0.002638 0.6388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6141 0.2211 0.2334 0.06014 0.1866 0.1974
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5465 0.1502 0.03123 0.2540 0.8013 0.05006
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3455 0.01246 0.1106 0.1082 0.4149 3.723e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1827 0.03705 0.2160 0.07788 0.007316 0.1936 0.003773 0.005230 0 0.2765

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.45 864.1 0.06033 0.2976 0.7122 0.02337 0.002637 0.6378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6141 0.2198 0.2327 0.06029 0.1869 0.1969
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5445 0.1500 0.03139 0.2529 0.8006 0.05004
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3465 0.01243 0.1095 0.1088 0.4136 3.680e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1836 0.03544 0.2175 0.07754 0.009116 0.1919 0.003743 0.005276 0 0.2759

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50 864.7 0.06012 0.2979 0.7140 0.02336 0.002637 0.6368
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6140 0.2186 0.2321 0.06043 0.1873 0.1963

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5426 0.1499 0.03154 0.2517 0.7999 0.05002
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3475 0.01241 0.1084 0.1094 0.4123 3.638e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1844	0.03383	0.2189	0.07719	0.01094	0.1903	0.003714	0.005321	0	0.2754	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.55 865.3 0.05992 0.2982 0.7157 0.02335 0.002636 0.6358
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6139 0.2174 0.2314 0.06057 0.1876 0.1958
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5406 0.1498 0.03169 0.2505 0.7993 0.05000
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3485 0.01239 0.1073 0.1100 0.4109 3.597e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1853	0.03220	0.2204	0.07683	0.01280	0.1886	0.003685	0.005367	0	0.2748	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.60 865.9 0.05972 0.2984 0.7175 0.02334 0.002635 0.6348
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6139 0.2162 0.2308 0.06071 0.1879 0.1952
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5386 0.1497 0.03184 0.2493 0.7986 0.04998
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3495 0.01237 0.1063 0.1106 0.4096 3.556e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1862	0.03058	0.2219	0.07645	0.01469	0.1868	0.003656	0.005412	0	0.2743	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.65 866.5 0.05951 0.2987 0.7193 0.02333 0.002634 0.6339
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6138 0.2150 0.2302 0.06085 0.1882 0.1946
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5367 0.1495 0.03198 0.2482 0.7979 0.04996
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3504 0.01234 0.1052 0.1112 0.4083 3.516e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1870	0.02894	0.2234	0.07606	0.01660	0.1851	0.003628	0.005458	0	0.2737	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.70 867.1 0.05931 0.2990 0.7211 0.02332 0.002633 0.6329
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6137 0.2138 0.2295 0.06098 0.1885 0.1940
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5347 0.1494 0.03213 0.2470 0.7972 0.04994

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3514 0.01232 0.1042 0.1118 0.4070 3.477e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1879 0.02730 0.2249 0.07566 0.01855 0.1834 0.003600 0.005505 0 0.2732

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.75 867.7 0.05911 0.2993 0.7229 0.02330 0.002632 0.6319
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6137 0.2126 0.2289 0.06112 0.1888 0.1935
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5327 0.1492 0.03227 0.2459 0.7965 0.04992
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3524 0.01229 0.1031 0.1124 0.4057 3.438e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1889 0.02565 0.2264 0.07525 0.02052 0.1816 0.003572 0.005551 0 0.2726

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 868.3 0.05891 0.2996 0.7246 0.02329 0.002631 0.6309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6136 0.2114 0.2283 0.06126 0.1891 0.1929
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5308 0.1490 0.03241 0.2447 0.7958 0.04990
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3534 0.01227 0.1021 0.1130 0.4044 3.401e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1898 0.02399 0.2279 0.07482 0.02253 0.1798 0.003545 0.005598 0 0.2720

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.85 868.9 0.05871 0.3000 0.7264 0.02328 0.002629 0.6300
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6135 0.2102 0.2276 0.06139 0.1894 0.1923
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5288 0.1488 0.03255 0.2435 0.7951 0.04988
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3543 0.01225 0.1011 0.1136 0.4031 3.364e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1907 0.02233 0.2294 0.07438 0.02457 0.1779 0.003518 0.005645 0 0.2715

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.90 869.5 0.05851 0.3003 0.7282 0.02327 0.002628 0.6290
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6134 0.2090 0.2270 0.06153 0.1897 0.1917
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5268 0.1486 0.03268 0.2424 0.7944 0.04985
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3553 0.01222 0.1001 0.1142 0.4017 3.327e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1917	0.02065	0.2310	0.07393	0.02665	0.1761	0.003491	0.005692	0	0.2709	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.95	870.2	0.05832	0.3006	0.7300	0.02325	0.002627	0.6280
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6133	0.2079	0.2264	0.06166	0.1900	0.1911	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5248	0.1484	0.03282	0.2413	0.7937	0.04983	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3563	0.01220	0.09906	0.1148	0.4005	3.292e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1926	0.01897	0.2325	0.07346	0.02875	0.1742	0.003464	0.005739	0	0.2703	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.00	870.8	0.05812	0.3009	0.7318	0.02324	0.002625	0.6270
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6132	0.2067	0.2258	0.06179	0.1904	0.1905	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5229	0.1482	0.03295	0.2401	0.7930	0.04981	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3573	0.01217	0.09807	0.1154	0.3992	3.257e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1936	0.01728	0.2340	0.07298	0.03090	0.1723	0.003438	0.005787	0	0.2697	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.05	871.4	0.05792	0.3012	0.7335	0.02322	0.002624	0.6260
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6132	0.2055	0.2252	0.06192	0.1907	0.1899	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5209	0.1480	0.03308	0.2390	0.7924	0.04979	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3582	0.01214	0.09709	0.1160	0.3979	3.222e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1946	0.01559	0.2356	0.07249	0.03307	0.1704	0.003412	0.005835	0	0.2691	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.10	872.0	0.05773	0.3015	0.7353	0.02320	0.002622	0.6251
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6131	0.2044	0.2246	0.06205	0.1910	0.1893	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5189	0.1478	0.03321	0.2379	0.7917	0.04976	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3592	0.01212	0.09612	0.1166	0.3966	3.188e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
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0.1955 0.01388 0.2371 0.07198 0.03528 0.1684 0.003387 0.005883 0 0.2685

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.15 872.6 0.05753 0.3018 0.7371 0.02319 0.002621 0.6241
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6130 0.2032 0.2239 0.06218 0.1913 0.1887
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5169 0.1475 0.03334 0.2368 0.7910 0.04974
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3602 0.01209 0.09516 0.1172 0.3953 3.155e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1966 0.01217 0.2386 0.07146 0.03753 0.1664 0.003361 0.005931 0 0.2679

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 873.2 0.05734 0.3021 0.7388 0.02317 0.002619 0.6231
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6129 0.2021 0.2233 0.06231 0.1916 0.1881
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5149 0.1473 0.03346 0.2356 0.7903 0.04971
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3611 0.01207 0.09420 0.1178 0.3940 3.122e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1976 0.01044 0.2402 0.07093 0.03981 0.1644 0.003336 0.005980 0 0.2673

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.25 873.8 0.05715 0.3025 0.7406 0.02315 0.002618 0.6221
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6128 0.2010 0.2227 0.06244 0.1919 0.1875
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5129 0.1470 0.03358 0.2345 0.7896 0.04969
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3621 0.01204 0.09326 0.1184 0.3927 3.090e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1986 0.008711 0.2418 0.07038 0.04213 0.1624 0.003312 0.006029 0 0.2667

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.30 874.4 0.05696 0.3028 0.7424 0.02313 0.002616 0.6211
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6127 0.1998 0.2221 0.06257 0.1922 0.1869
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5109 0.1468 0.03370 0.2334 0.7889 0.04967
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3630 0.01201 0.09232 0.1190 0.3915 3.058e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1996 0.006969 0.2433 0.06982 0.04449 0.1603 0.003287 0.006078 0 0.2661

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.35 875.0 0.05677 0.3031 0.7441 0.02312 0.002614 0.6202
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6126 0.1987 0.2216 0.06270 0.1925 0.1862
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5090 0.1465 0.03382 0.2323 0.7882 0.04964
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3640 0.01199 0.09140 0.1196 0.3902 3.027e-5

mode liq bi g mu ksp pl ilm ru ky q
 0.2007 0.005217 0.2449 0.06924 0.04689 0.1582 0.003263 0.006128 0 0.2655

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.40 875.6 0.05658 0.3035 0.7459 0.02310 0.002612 0.6192
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6124 0.1976 0.2210 0.06282 0.1928 0.1856
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5070 0.1462 0.03394 0.2312 0.7875 0.04962
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3649 0.01196 0.09048 0.1202 0.3889 2.996e-5

mode liq bi g mu ksp pl ilm ru ky q
 0.2018 0.003456 0.2465 0.06865 0.04932 0.1560 0.003239 0.006178 0 0.2649

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.45 876.2 0.05639 0.3038 0.7476 0.02308 0.002610 0.6182
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6123 0.1965 0.2204 0.06295 0.1931 0.1850
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5050 0.1459 0.03406 0.2301 0.7868 0.04959
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3659 0.01193 0.08957 0.1208 0.3877 2.966e-5

mode liq bi g mu ksp pl ilm ru ky q
 0.2029 0.001684 0.2481 0.06805 0.05180 0.1539 0.003215 0.006228 0 0.2642

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 832.8 0.07262 0.2848 0.6183 0.02309 0.002599 0.6895
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6141 0.2952 0.2740 0.05136 0.1702 0.2177
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6449 0.1455 0.02201 0.3227 0.8364 0.05042
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.2920 0.01317 0.1836 0.07794 0.4900 8.345e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1940	0.1214	0.1430		0.002055		0.2219	0.005396	0.002960	0.02254 0.2868

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 834.0 0.07213 0.2852 0.6212 0.02318 0.002599 0.6873
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6142 0.2917 0.2721 0.05178 0.1708 0.2173
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6412 0.1465 0.02250 0.3196 0.8351 0.05040
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2938 0.01317 0.1807 0.07891 0.4867 7.975e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1951	0.1184	0.1460		0.004382		0.2193	0.005308	0.003043	0.02253 0.2859

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 835.2 0.07164 0.2855 0.6242 0.02327 0.002599 0.6852
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6142 0.2883 0.2703 0.05219 0.1715 0.2168
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6374 0.1475 0.02298 0.3165 0.8338 0.05038
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2956 0.01317 0.1778 0.07989 0.4834 7.635e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1963	0.1154	0.1489		0.006728		0.2168	0.005220	0.003126	0.02252 0.2850

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 836.4 0.07115 0.2859 0.6273 0.02334 0.002600 0.6831
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6143 0.2849 0.2685 0.05260 0.1722 0.2163
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6336 0.1485 0.02346 0.3135 0.8325 0.05036
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2975 0.01317 0.1748 0.08089 0.4802 7.322e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1974	0.1125	0.1519		0.009095		0.2142	0.005134	0.003209	0.02251 0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 837.6 0.07067 0.2863 0.6304 0.02342 0.002601 0.6810
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6144 0.2816 0.2667 0.05300 0.1728 0.2157
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6299 0.1494 0.02393 0.3105 0.8311 0.05035
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2994 0.01316 0.1719 0.08191 0.4769 7.032e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1986	0.1095	0.1548		0	0.01149	0.2116	0.005048	0.003291	0.02249 0.2832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.30 838.7 0.07018 0.2867 0.6336 0.02348 0.002601 0.6790

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6144 0.2784 0.2650 0.05340 0.1735 0.2152

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6261 0.1502 0.02440 0.3075 0.8298 0.05033

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.3013 0.01315 0.1689 0.08295 0.4738 6.764e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1997	0.1065	0.1577		0	0.01390	0.2089	0.004963	0.003374	0.02247 0.2824

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.40 839.9 0.06970 0.2870 0.6369 0.02354 0.002602 0.6769

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6145 0.2752 0.2632 0.05379 0.1741 0.2146

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6223 0.1509 0.02486 0.3046 0.8285 0.05032

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.3032 0.01314 0.1660 0.08400 0.4706 6.514e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2008	0.1036	0.1607		0	0.01634	0.2063	0.004879	0.003456	0.02244 0.2815

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.50 841.1 0.06923 0.2875 0.6401 0.02359 0.002602 0.6749

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6146 0.2720 0.2615 0.05417 0.1748 0.2139

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6185 0.1517 0.02532 0.3017 0.8271 0.05031

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.3052 0.01313 0.1631 0.08507 0.4675 6.282e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2020	0.1006	0.1636		0	0.01881	0.2036	0.004796	0.003538	0.02240 0.2807

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.60 842.3 0.06875 0.2879 0.6434 0.02364 0.002603 0.6728

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6146 0.2689 0.2599 0.05454 0.1754 0.2132

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6147 0.1523 0.02576 0.2989 0.8258 0.05029

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.3072 0.01312 0.1602 0.08615 0.4644 6.064e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2031	0.09765	0.1665		0	0.02132	0.2009	0.004714	0.003620	0.02236 0.2798

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.70	843.4	0.06828	0.2883	0.6468	0.02368	0.002604	0.6708
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6146	0.2659	0.2582	0.05491	0.1761	0.2125	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6109	0.1529	0.02620	0.2960	0.8245	0.05028	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3092	0.01310	0.1573	0.08725	0.4613	5.861e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2043	0.09470	0.1693		0	0.02385	0.1982	0.004634	0.003702	0.02231 0.2790

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.80	844.6	0.06781	0.2887	0.6502	0.02372	0.002604	0.6688
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6147	0.2628	0.2566	0.05527	0.1767	0.2118	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6071	0.1534	0.02663	0.2933	0.8231	0.05027	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3112	0.01308	0.1544	0.08835	0.4583	5.670e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2054	0.09175	0.1722		0	0.02642	0.1955	0.004554	0.003784	0.02226 0.2781

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.90	845.8	0.06734	0.2892	0.6536	0.02375	0.002605	0.6668
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6147	0.2599	0.2550	0.05563	0.1774	0.2110	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6033	0.1539	0.02706	0.2905	0.8218	0.05025	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3132	0.01306	0.1515	0.08948	0.4553	5.491e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2066	0.08879	0.1751		0	0.02902	0.1927	0.004476	0.003866	0.02219 0.2773

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	847.0	0.06687	0.2896	0.6571	0.02378	0.002606	0.6648
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6147	0.2570	0.2534	0.05598	0.1780	0.2102	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5995	0.1543	0.02747	0.2878	0.8204	0.05024	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3152	0.01304	0.1487	0.09061	0.4523	5.322e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2077	0.08583	0.1780		0	0.03166	0.1899	0.004399	0.003949	0.02212 0.2764

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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17.10 848.2 0.06641 0.2901 0.6606 0.02380 0.002606 0.6628
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6147 0.2541 0.2518 0.05633 0.1786 0.2094
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5957 0.1546 0.02788 0.2851 0.8191 0.05022
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3172 0.01301 0.1459 0.09175 0.4494 5.162e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2089	0.08287	0.1808		0	0.03434	0.1871	0.004323	0.004031	0.02204 0.2756

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.20 849.3 0.06595 0.2905 0.6642 0.02382 0.002607 0.6608
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6147 0.2512 0.2503 0.05666 0.1793 0.2086
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5919 0.1549 0.02827 0.2825 0.8177 0.05021
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3193 0.01299 0.1431 0.09291 0.4465 5.012e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2100	0.07990	0.1837		0	0.03707	0.1842	0.004249	0.004113	0.02195 0.2748

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.30 850.5 0.06549 0.2910 0.6677 0.02383 0.002608 0.6588
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6147 0.2484 0.2488 0.05700 0.1799 0.2077
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5881 0.1551 0.02866 0.2799 0.8164 0.05019
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3213 0.01296 0.1404 0.09407 0.4436 4.869e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2112	0.07692	0.1865		0	0.03983	0.1814	0.004176	0.004196	0.02186 0.2739

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.40 851.7 0.06504 0.2915 0.6713 0.02384 0.002608 0.6569
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6147 0.2457 0.2473 0.05732 0.1805 0.2068
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5843 0.1553 0.02904 0.2773 0.8150 0.05017
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3234 0.01293 0.1376 0.09525 0.4407 4.733e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2124	0.07393	0.1894		0	0.04265	0.1785	0.004105	0.004279	0.02175 0.2731

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.50 852.9 0.06458 0.2920 0.6749 0.02384 0.002609 0.6549
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6147 0.2430 0.2458 0.05765 0.1812 0.2059
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5804 0.1554 0.02941 0.2747 0.8136 0.05016
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3254 0.01290 0.1350 0.09643 0.4379 4.605e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2136	0.07092	0.1922		0	0.04551	0.1755	0.004035	0.004362	0.02163 0.2722

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 854.1 0.06414 0.2925 0.6785 0.02384 0.002609 0.6530
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6146 0.2403 0.2444 0.05796 0.1818 0.2050
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5766 0.1555 0.02977 0.2722 0.8123 0.05014
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3275 0.01286 0.1323 0.09762 0.4351 4.482e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2147	0.06791	0.1951		0	0.04842	0.1725	0.003967	0.004445	0.02151 0.2714

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.70 855.3 0.06369 0.2930 0.6822 0.02384 0.002610 0.6510
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6146 0.2376 0.2429 0.05828 0.1824 0.2040
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5728 0.1555 0.03012 0.2697 0.8109 0.05012
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3295 0.01283 0.1297 0.09882 0.4323 4.366e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2160	0.06487	0.1979		0	0.05138	0.1695	0.003900	0.004529	0.02137 0.2705

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 856.4 0.06325 0.2936 0.6858 0.02383 0.002610 0.6491
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6146 0.2350 0.2415 0.05858 0.1830 0.2031
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5689 0.1555 0.03046 0.2672 0.8096 0.05009
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3316 0.01279 0.1271 0.1000 0.4296 4.255e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2172	0.06182	0.2008		0	0.05439	0.1665	0.003834	0.004614	0.02122 0.2697

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 857.6 0.06281 0.2941 0.6895 0.02382 0.002610 0.6471
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6145 0.2324 0.2401 0.05889 0.1837 0.2021
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5651 0.1554 0.03079 0.2648 0.8082 0.05007
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3336 0.01275 0.1246 0.1012 0.4268 4.148e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2184	0.05876	0.2037		0	0.05746	0.1634	0.003770	0.004698	0.02107 0.2688

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 858.8 0.06238 0.2946 0.6931 0.02381 0.002610 0.6452
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6144 0.2299 0.2387 0.05918 0.1843 0.2011
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5612 0.1553 0.03111 0.2623 0.8068 0.05005
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3357 0.01271 0.1221 0.1024 0.4241 4.047e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2196	0.05567	0.2065		0	0.06059	0.1603	0.003707	0.004784	0.02090 0.2679

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10 860.0 0.06194 0.2952 0.6968 0.02379 0.002610 0.6433
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6143 0.2273 0.2373 0.05948 0.1849 0.2000
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5574 0.1551 0.03142 0.2599 0.8055 0.05002
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3378 0.01267 0.1196 0.1037 0.4214 3.950e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2209	0.05255	0.2094		0	0.06378	0.1571	0.003646	0.004870	0.02072 0.2671

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 861.2 0.06152 0.2958 0.7005 0.02377 0.002610 0.6414
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6143 0.2249 0.2360 0.05977 0.1855 0.1990
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5535 0.1548 0.03173 0.2575 0.8041 0.04999
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3398 0.01263 0.1172 0.1049 0.4188 3.857e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2221	0.04942	0.2123		0	0.06703	0.1539	0.003587	0.004956	0.02053 0.2662

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.30 862.4 0.06109 0.2963 0.7042 0.02374 0.002610 0.6394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6142 0.2224 0.2347 0.06005 0.1861 0.1979
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5496 0.1546 0.03202 0.2552 0.8027 0.04996
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.3419 0.01258 0.1148 0.1061 0.4161 3.767e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2234	0.04626	0.2152		0	0.07035	0.1506	0.003529	0.005044	0.02033 0.2653

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 863.6 0.06067 0.2969 0.7079 0.02372 0.002610 0.6375
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6141 0.2199 0.2333 0.06033 0.1868 0.1968
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5457 0.1543 0.03231 0.2528 0.8013 0.04993
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3439 0.01254 0.1125 0.1073 0.4135 3.681e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2247	0.04307	0.2181		0	0.07373	0.1473	0.003472	0.005132	0.02012 0.2644

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50 864.8 0.06025 0.2975 0.7116 0.02369 0.002609 0.6356
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6139 0.2175 0.2320 0.06061 0.1874 0.1957
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5419 0.1539 0.03258 0.2505 0.8000 0.04990
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3459 0.01249 0.1102 0.1086 0.4109 3.599e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2260	0.03985	0.2210		0	0.07718	0.1439	0.003417	0.005221	0.01989 0.2635

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 866.0 0.05984 0.2981 0.7153 0.02365 0.002608 0.6337
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6138 0.2152 0.2307 0.06088 0.1880 0.1946
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5380 0.1535 0.03285 0.2482 0.7986 0.04987
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3480 0.01244 0.1080 0.1098 0.4083 3.520e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2273	0.03660	0.2239		0	0.08070	0.1405	0.003363	0.005311	0.01966 0.2626

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.70 867.2 0.05943 0.2987 0.7190 0.02362 0.002607 0.6318
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6137 0.2128 0.2295 0.06115 0.1886 0.1935
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5340 0.1531 0.03311 0.2459 0.7972 0.04983
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3500 0.01239 0.1058 0.1110 0.4057 3.443e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2287	0.03332	0.2269		0	0.08430	0.1370	0.003311	0.005401	0.01941 0.2616

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.80	868.4	0.05902	0.2993	0.7226	0.02358	0.002606	0.6299
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6135	0.2105	0.2282	0.06142	0.1892	0.1923	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5301	0.1526	0.03336	0.2437	0.7958	0.04980	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3520	0.01234	0.1036	0.1123	0.4031	3.369e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2301	0.03001	0.2298		0	0.08797	0.1335	0.003261	0.005493	0.01915 0.2607

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.90	869.6	0.05861	0.3000	0.7263	0.02354	0.002604	0.6280
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6134	0.2081	0.2270	0.06168	0.1898	0.1912	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5262	0.1521	0.03360	0.2414	0.7944	0.04976	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3540	0.01229	0.1015	0.1135	0.4006	3.298e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2314	0.02665	0.2328		0	0.09172	0.1299	0.003211	0.005586	0.01887 0.2598

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.00	870.8	0.05821	0.3006	0.7300	0.02350	0.002603	0.6260
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6132	0.2059	0.2257	0.06194	0.1904	0.1900	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5223	0.1515	0.03384	0.2392	0.7931	0.04972	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3560	0.01224	0.09941	0.1147	0.3980	3.229e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2328	0.02327	0.2358		0	0.09556	0.1263	0.003163	0.005680	0.01859 0.2588

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.10	872.0	0.05782	0.3012	0.7336	0.02346	0.002600	0.6241
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6130	0.2036	0.2245	0.06219	0.1911	0.1888	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5183	0.1509	0.03407	0.2370	0.7917	0.04968	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3580	0.01218	0.09737	0.1160	0.3955	3.163e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2343	0.01984	0.2389		0	0.09947	0.1225	0.003117	0.005775	0.01829 0.2578

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.20 873.2 0.05742 0.3019 0.7373 0.02341 0.002598 0.6222
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6128 0.2013 0.2233 0.06245 0.1917 0.1876
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5144 0.1503 0.03429 0.2348 0.7903 0.04963
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3600 0.01213 0.09537 0.1172 0.3930 3.099e-5

mode liq bi g mu ksp pl ilm ru ky q
 0.2357 0.01636 0.2419 0 0.1035 0.1187 0.003072 0.005872 0.01798 0.2569

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.30 874.4 0.05704 0.3025 0.7409 0.02336 0.002596 0.6203
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6126 0.1991 0.2221 0.06270 0.1923 0.1864
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5104 0.1496 0.03450 0.2326 0.7889 0.04959
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3620 0.01207 0.09342 0.1184 0.3905 3.037e-5

mode liq bi g mu ksp pl ilm ru ky q
 0.2372 0.01285 0.2450 0 0.1076 0.1149 0.003028 0.005969 0.01765 0.2559

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.40 875.6 0.05665 0.3032 0.7445 0.02332 0.002593 0.6183
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6124 0.1969 0.2209 0.06294 0.1929 0.1852
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5065 0.1489 0.03470 0.2304 0.7875 0.04955
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3639 0.01201 0.09150 0.1197 0.3880 2.976e-5

mode liq bi g mu ksp pl ilm ru ky q
 0.2387 0.009289 0.2481 0 0.1118 0.1110 0.002986 0.006068 0.01732 0.2548

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.50 876.9 0.05627 0.3039 0.7481 0.02327 0.002590 0.6164
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6122 0.1947 0.2198 0.06319 0.1935 0.1839
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5025 0.1482 0.03490 0.2283 0.7861 0.04950
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3659 0.01196 0.08963 0.1209 0.3855 2.918e-5

mode liq bi g mu ksp pl ilm ru ky q
 0.2402 0.005682 0.2512 0 0.1160 0.1069 0.002945 0.006169 0.01696 0.2538

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

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19.60  878.1 0.05589 0.3046 0.7517 0.02321 0.002586 0.6145
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6120 0.1925 0.2186 0.06343 0.1941 0.1827
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.4985 0.1475 0.03509 0.2261 0.7848 0.04945
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.3678 0.01190 0.08779 0.1221 0.3830 2.861e-5

```

```

mode  liq  bi   g    mu   ksp  pl  ilm  ru  ky  q
      0.2418 0.002024 0.2544   0 0.1204 0.1029 0.002905 0.006271 0.01660 0.2528

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

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<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, q

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-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40   889.2 0.1067 0.3205 0.5564 0.03214 0.004126 0.6196
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5284 0.2125 0.2827 0.05718 0.2009 0.1680
      x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
      0.4894 0.06298 0.01452 0.3155 0.02176 0.2396
      k(pl) x(ilm) Q(ilm)
      0.08489 0.4867 6.343e-5

```

```

mode  liq  bi   g    ksp  pl  ilm  ru  ky  q
      0.3131   0 0.2269 0.05034 0.1768 0.007283 0.0053380 0.0001774 0.2201

```

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50   889.1 0.1056 0.3199 0.5589 0.03219 0.004089 0.6194
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5304 0.2120 0.2814 0.05737 0.2008 0.1683
      x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
      0.4896 0.06458 0.01481 0.3160 0.02164 0.2373
      k(pl) x(ilm) Q(ilm)
      0.08530 0.4844 6.206e-5

```

```

mode  liq  bi   g    ksp  pl  ilm  ru  ky  q
      0.3112   0 0.2274 0.05167 0.1757 0.007206 0.0053610 0.0004961 0.2210

```

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-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60   888.9 0.1045 0.3192 0.5616 0.03223 0.004051 0.6192
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5323 0.2116 0.2801 0.05756 0.2006 0.1686
      x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
      0.4898 0.06622 0.01511 0.3166 0.02152 0.2348
      k(pl) x(ilm) Q(ilm)
      0.08573 0.4820 6.073e-5

```


mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.3093	0	0.2279	0.05301	0.1747	0.007127	0.0053840	0.0008184	0.2218

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.70	888.8	0.1033	0.3186	0.5644	0.03226	0.004014	0.6191
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5343	0.2111	0.2788	0.05774	0.2005	0.1689	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4899	0.06789	0.01542	0.3172	0.02139	0.2323	
	k(pl)	x(ilm)	Q(ilm)				
	0.08617	0.4797	5.945e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.3074	0	0.2285	0.05436	0.1735	0.007048	0.005407	0.001144	0.2226

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	888.6	0.1022	0.3180	0.5672	0.03228	0.003976	0.6189
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5362	0.2107	0.2775	0.05793	0.2003	0.1692	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4901	0.06960	0.01573	0.3178	0.02127	0.2298	
	k(pl)	x(ilm)	Q(ilm)				
	0.08664	0.4773	5.821e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.3056	0	0.2291	0.05572	0.1724	0.006967	0.005430	0.001474	0.2234

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.90	888.4	0.1011	0.3174	0.5701	0.03230	0.003939	0.6187
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5382	0.2102	0.2762	0.05811	0.2001	0.1695	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4903	0.07134	0.01606	0.3185	0.02114	0.2272	
	k(pl)	x(ilm)	Q(ilm)				
	0.08712	0.4750	5.702e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.3037	0	0.2296	0.05709	0.1712	0.006885	0.005453	0.001807	0.2242

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	888.2	0.09996	0.3169	0.5731	0.03230	0.003901	0.6185
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5401	0.2097	0.2749	0.05829	0.2000	0.1698	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4904	0.07311	0.01640	0.3192	0.02101	0.2245	
	k(pl)	x(ilm)	Q(ilm)				
	0.08762	0.4727	5.586e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
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0.3019 0 0.2302 0.05847 0.1700 0.006802 0.005476 0.002144 0.2250

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.10 888.0 0.09884 0.3163 0.5762 0.03229 0.003863 0.6183
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5420 0.2092 0.2736 0.05847 0.1998 0.1701
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4906 0.07491 0.01674 0.3200 0.02087 0.2218
k(pl) x(ilm) Q(ilm)
0.08814 0.4703 5.474e-5

mode liq bi g ksp pl ilm ru ky q
0.3001 0 0.2308 0.05986 0.1688 0.006717 0.005499 0.002485 0.2257

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 887.8 0.09772 0.3158 0.5794 0.03228 0.003826 0.6181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5439 0.2088 0.2723 0.05865 0.1997 0.1704
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4908 0.07674 0.01710 0.3208 0.02074 0.2190
k(pl) x(ilm) Q(ilm)
0.08868 0.4680 5.365e-5

mode liq bi g ksp pl ilm ru ky q
0.2984 0 0.2314 0.06126 0.1675 0.006632 0.005523 0.002829 0.2265

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.30 887.6 0.09660 0.3152 0.5826 0.03225 0.003788 0.6179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5459 0.2083 0.2710 0.05883 0.1995 0.1707
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4909 0.07859 0.01746 0.3216 0.02060 0.2162
k(pl) x(ilm) Q(ilm)
0.08924 0.4656 5.260e-5

mode liq bi g ksp pl ilm ru ky q
0.2966 0 0.2320 0.06267 0.1661 0.006545 0.005546 0.003177 0.2273

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 887.4 0.09549 0.3147 0.5859 0.03221 0.003751 0.6177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5477 0.2078 0.2698 0.05900 0.1994 0.1709
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4911 0.08048 0.01784 0.3225 0.02045 0.2133
k(pl) x(ilm) Q(ilm)
0.08982 0.4633 5.159e-5

mode liq bi g ksp pl ilm ru ky q
0.2949 0 0.2327 0.06409 0.1648 0.006457 0.005569 0.003528 0.2280

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.50    887.2  0.09438  0.3142  0.5894  0.03216 0.003714 0.6175
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5496  0.2073  0.2685  0.05918  0.1992  0.1712
        x(g)   z(g)   f(g)   na(ksp)  ca(ksp)  ca(pl)
        0.4913  0.08238  0.01822  0.3234  0.02031  0.2104
        k(pl)  x(ilm)  Q(ilm)
        0.09043  0.4610  5.060e-5

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.2932  0  0.2333  0.06553  0.1634  0.006368 0.005592 0.003883 0.2288

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.60    887.0  0.09327  0.3137  0.5929  0.03210 0.003677 0.6172
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5515  0.2068  0.2672  0.05935  0.1991  0.1715
        x(g)   z(g)   f(g)   na(ksp)  ca(ksp)  ca(pl)
        0.4915  0.08430  0.01861  0.3243  0.02016  0.2074
        k(pl)  x(ilm)  Q(ilm)
        0.09105  0.4587  4.965e-5

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.2915  0  0.2339  0.06697  0.1619  0.006278 0.005615 0.004240 0.2295

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.70    886.8  0.09216  0.3132  0.5965  0.03202 0.003640 0.6170
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5534  0.2063  0.2659  0.05952  0.1989  0.1718
        x(g)   z(g)   f(g)   na(ksp)  ca(ksp)  ca(pl)
        0.4916  0.08625  0.01901  0.3253  0.02001  0.2043
        k(pl)  x(ilm)  Q(ilm)
        0.09170  0.4564  4.873e-5

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.2898  0  0.2346  0.06843  0.1605  0.006187 0.005638 0.004600 0.2303

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.80    886.6  0.09106  0.3127  0.6002  0.03194 0.003604 0.6168
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5552  0.2058  0.2646  0.05968  0.1988  0.1720
        x(g)   z(g)   f(g)   na(ksp)  ca(ksp)  ca(pl)
        0.4918  0.08820  0.01942  0.3263  0.01986  0.2012
        k(pl)  x(ilm)  Q(ilm)
        0.09236  0.4541  4.784e-5

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.2882  0  0.2352  0.06990  0.1590  0.006095 0.005661 0.004962 0.2310

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.90    886.3  0.08996  0.3123  0.6040  0.03184 0.003568 0.6166

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5571 0.2054 0.2633 0.05985 0.1986 0.1723
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4919 0.09017 0.01984 0.3274 0.01970 0.1981
 k(pl) x(ilm) Q(ilm)
 0.09305 0.4518 4.698e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2866	0	0.2359	0.07138	0.1574	0.006002	0.005684	0.005326	0.2317

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 886.1 0.08887 0.3119 0.6078 0.03173 0.003532 0.6164
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5589 0.2049 0.2620 0.06001 0.1985 0.1726
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4921 0.09215 0.02026 0.3285 0.01954 0.1949
 k(pl) x(ilm) Q(ilm)
 0.09376 0.4495 4.614e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2850	0	0.2365	0.07287	0.1559	0.005909	0.005707	0.005692	0.2325

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.10 885.9 0.08778 0.3114 0.6117 0.03161 0.003496 0.6162
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5607 0.2044 0.2607 0.06017 0.1983 0.1728
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4923 0.09413 0.02069 0.3296 0.01937 0.1917
 k(pl) x(ilm) Q(ilm)
 0.09449 0.4473 4.533e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2834	0	0.2372	0.07437	0.1543	0.005814	0.005729	0.006059	0.2332

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 885.6 0.08670 0.3110 0.6157 0.03148 0.003461 0.6159
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5625 0.2039 0.2595 0.06032 0.1982 0.1731
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4924 0.09611 0.02113 0.3308 0.01921 0.1884
 k(pl) x(ilm) Q(ilm)
 0.09524 0.4450 4.455e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2818	0	0.2379	0.07588	0.1526	0.005720	0.005752	0.006426	0.2339

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.30 885.4 0.08562 0.3107 0.6198 0.03133 0.003426 0.6157
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5643 0.2034 0.2582 0.06048 0.1980 0.1734

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4926 0.09809 0.02157 0.3319 0.01904 0.1851
k(pl) x(ilm) Q(ilm)
0.09601 0.4428 4.379e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2803	0	0.2385	0.07740	0.1510	0.005624	0.005774	0.006794	0.2346

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 885.2 0.08456 0.3103 0.6239 0.03118 0.003392 0.6155
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5660 0.2029 0.2569 0.06063 0.1979 0.1736
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4927 0.1001 0.02201 0.3332 0.01886 0.1818
k(pl) x(ilm) Q(ilm)
0.09680 0.4406 4.306e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2788	0	0.2392	0.07893	0.1493	0.005529	0.005796	0.007160	0.2353

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 884.9 0.08349 0.3099 0.6281 0.03101 0.003359 0.6153
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5678 0.2025 0.2556 0.06077 0.1977 0.1739
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4929 0.1020 0.02246 0.3344 0.01869 0.1785
k(pl) x(ilm) Q(ilm)
0.09761 0.4384 4.235e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2773	0	0.2399	0.08046	0.1476	0.005433	0.005818	0.007526	0.2359

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 884.7 0.08244 0.3096 0.6323 0.03084 0.003325 0.6151
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5695 0.2020 0.2544 0.06091 0.1976 0.1741
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4930 0.1040 0.02292 0.3356 0.01850 0.1751
k(pl) x(ilm) Q(ilm)
0.09843 0.4363 4.166e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2759	0	0.2405	0.08199	0.1459	0.005337	0.005840	0.007891	0.2366

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.70 884.4 0.08139 0.3093 0.6366 0.03065 0.003293 0.6149
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5712 0.2016 0.2531 0.06105 0.1974 0.1744
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4932 0.1059 0.02337 0.3369 0.01832 0.1718

k(pl) x(ilm) Q(ilm)
0.09927 0.4341 4.100e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.2744	0	0.2412	0.08353	0.1442	0.005242	0.005861	0.008253	0.2373	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 884.2 0.08035 0.3090 0.6409 0.03045 0.003261 0.6148
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5729 0.2011 0.2518 0.06119 0.1973 0.1747
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4933 0.1078 0.02383 0.3382 0.01813 0.1684
k(pl) x(ilm) Q(ilm)
0.1001 0.4320 4.035e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.2730	0	0.2419	0.08506	0.1425	0.005146	0.005882	0.008612	0.2379	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90 884.0 0.07932 0.3087 0.6453 0.03025 0.003229 0.6146
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5745 0.2007 0.2506 0.06132 0.1972 0.1749
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4935 0.1097 0.02429 0.3395 0.01794 0.1650
k(pl) x(ilm) Q(ilm)
0.1010 0.4299 3.973e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.2716	0	0.2425	0.08660	0.1408	0.005051	0.005903	0.008968	0.2386	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 883.7 0.07831 0.3084 0.6497 0.03004 0.003198 0.6144
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5762 0.2002 0.2493 0.06145 0.1970 0.1752
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4936 0.1116 0.02474 0.3408 0.01775 0.1617
k(pl) x(ilm) Q(ilm)
0.1019 0.4278 3.913e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.2703	0	0.2432	0.08814	0.1390	0.004956	0.005924	0.009321	0.2392	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 883.5 0.07730 0.3082 0.6540 0.02982 0.003168 0.6143
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5778 0.1998 0.2481 0.06157 0.1969 0.1754
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4938 0.1134 0.02520 0.3422 0.01755 0.1583
k(pl) x(ilm) Q(ilm)
0.1028 0.4258 3.854e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2689	0	0.2438	0.08967	0.1373	0.004862	0.005944	0.009669	0.2398

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	883.2	0.07630	0.3080	0.6584	0.02959	0.003138	0.6141
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5794	0.1994	0.2468	0.06170	0.1968	0.1757
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4939	0.1152	0.02566	0.3435	0.01735	0.1550
		k(pl)	x(ilm)	Q(ilm)			
		0.1036	0.4238	3.798e-5			

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2676	0	0.2444	0.09119	0.1356	0.004769	0.005964	0.01001	0.2404

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.30	883.0	0.07531	0.3077	0.6628	0.02935	0.003109	0.6140
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5810	0.1989	0.2456	0.06181	0.1966	0.1759
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4940	0.1170	0.02611	0.3448	0.01715	0.1516
		k(pl)	x(ilm)	Q(ilm)			
		0.1045	0.4218	3.743e-5			

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2663	0	0.2450	0.09271	0.1339	0.004676	0.005983	0.01035	0.2410

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	882.8	0.07433	0.3075	0.6672	0.02911	0.003081	0.6138
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5826	0.1985	0.2444	0.06193	0.1965	0.1762
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4942	0.1187	0.02656	0.3461	0.01694	0.1483
		k(pl)	x(ilm)	Q(ilm)			
		0.1054	0.4198	3.690e-5			

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2651	0	0.2457	0.09422	0.1322	0.004585	0.006002	0.01068	0.2416

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.50	882.6	0.07337	0.3073	0.6716	0.02887	0.003053	0.6137
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5841	0.1981	0.2431	0.06203	0.1964	0.1765
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4943	0.1204	0.02701	0.3474	0.01673	0.1451
		k(pl)	x(ilm)	Q(ilm)			
		0.1064	0.4178	3.639e-5			

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
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0.2639 0 0.2463 0.09571 0.1305 0.004494 0.006021 0.01101 0.2422

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 882.3 0.07241 0.3071 0.6759 0.02861 0.003025 0.6136
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5856 0.1977 0.2419 0.06214 0.1963 0.1767
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4944 0.1221 0.02745 0.3488 0.01652 0.1418
k(pl) x(ilm) Q(ilm)
0.1073 0.4159 3.589e-5

mode liq bi g ksp pl ilm ru ky q
0.2626 0 0.2468 0.09720 0.1288 0.004405 0.006039 0.01133 0.2428

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.70 882.1 0.07147 0.3070 0.6802 0.02836 0.002999 0.6135
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5871 0.1973 0.2407 0.06224 0.1962 0.1770
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4945 0.1237 0.02789 0.3500 0.01630 0.1386
k(pl) x(ilm) Q(ilm)
0.1082 0.4140 3.541e-5

mode liq bi g ksp pl ilm ru ky q
0.2615 0 0.2474 0.09867 0.1271 0.004316 0.006057 0.01165 0.2433

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 881.9 0.07055 0.3068 0.6845 0.02810 0.002973 0.6134
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5886 0.1970 0.2395 0.06234 0.1960 0.1772
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4946 0.1252 0.02832 0.3513 0.01609 0.1355
k(pl) x(ilm) Q(ilm)
0.1091 0.4122 3.495e-5

mode liq bi g ksp pl ilm ru ky q
0.2603 0 0.2480 0.1001 0.1255 0.004230 0.006075 0.01195 0.2439

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 881.7 0.06963 0.3066 0.6888 0.02784 0.002947 0.6133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5900 0.1966 0.2383 0.06243 0.1959 0.1775
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4948 0.1268 0.02875 0.3526 0.01587 0.1324
k(pl) x(ilm) Q(ilm)
0.1099 0.4103 3.449e-5

mode liq bi g ksp pl ilm ru ky q
0.2592 0 0.2485 0.1016 0.1239 0.004144 0.006092 0.01225 0.2444

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.00 881.5 0.06873 0.3065 0.6930 0.02757 0.002922 0.6133
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5914 0.1962 0.2371 0.06253 0.1958 0.1778
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4949 0.1283 0.02917 0.3538 0.01564 0.1293
 k(pl) x(ilm) Q(ilm)
 0.1108 0.4085 3.405e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2580	0	0.2491	0.1030	0.1223	0.004060	0.006108	0.01255	0.2449

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.10 881.3 0.06784 0.3064 0.6971 0.02731 0.002898 0.6132
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5928 0.1959 0.2359 0.06261 0.1957 0.1780
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4950 0.1297 0.02959 0.3550 0.01542 0.1263
 k(pl) x(ilm) Q(ilm)
 0.1117 0.4067 3.363e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2570	0	0.2496	0.1044	0.1207	0.003977	0.006124	0.01283	0.2454

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.20 881.1 0.06696 0.3062 0.7012 0.02704 0.002874 0.6132
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5942 0.1956 0.2347 0.06270 0.1956 0.1783
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4951 0.1311 0.03000 0.3562 0.01520 0.1233
 k(pl) x(ilm) Q(ilm)
 0.1126 0.4049 3.321e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2559	0	0.2501	0.1058	0.1191	0.003896	0.006140	0.01311	0.2459

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.30 880.9 0.06610 0.3061 0.7053 0.02677 0.002851 0.6131
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5955 0.1952 0.2335 0.06278 0.1955 0.1785
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4952 0.1325 0.03040 0.3573 0.01497 0.1204
 k(pl) x(ilm) Q(ilm)
 0.1134 0.4032 3.281e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2548	0	0.2506	0.1071	0.1176	0.003816	0.006156	0.01339	0.2464

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.40 880.7 0.06525 0.3060 0.7093 0.02650 0.002828 0.6131

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5969 0.1949 0.2323 0.06285 0.1954 0.1788
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4953 0.1338 0.03080 0.3584 0.01474 0.1176
k(pl) x(ilm) Q(ilm)
0.1142 0.4015 3.242e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2538	0	0.2511	0.1084	0.1162	0.003738	0.006171	0.01365	0.2469

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50 880.5 0.06441 0.3059 0.7132 0.02623 0.002806 0.6131
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5982 0.1946 0.2311 0.06293 0.1953 0.1791
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4954 0.1351 0.03119 0.3595 0.01452 0.1148
k(pl) x(ilm) Q(ilm)
0.1150 0.3998 3.204e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2528	0	0.2516	0.1097	0.1147	0.003661	0.006185	0.01391	0.2474

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 880.3 0.06359 0.3058 0.7171 0.02596 0.002784 0.6131
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5995 0.1943 0.2300 0.06300 0.1952 0.1793
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4955 0.1363 0.03157 0.3606 0.01429 0.1120
k(pl) x(ilm) Q(ilm)
0.1158 0.3981 3.167e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2518	0	0.2520	0.1110	0.1133	0.003586	0.006200	0.01416	0.2479

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.70 880.2 0.06278 0.3057 0.7209 0.02568 0.002763 0.6131
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6007 0.1939 0.2288 0.06306 0.1951 0.1796
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4956 0.1375 0.03194 0.3616 0.01406 0.1094
k(pl) x(ilm) Q(ilm)
0.1166 0.3964 3.131e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2509	0	0.2525	0.1123	0.1119	0.003512	0.006213	0.01440	0.2483

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 880.0 0.06198 0.3056 0.7246 0.02542 0.002742 0.6131
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6020 0.1937 0.2276 0.06313 0.1951 0.1798

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4957 0.1387 0.03231 0.3625 0.01383 0.1067
 k(pl) x(ilm) Q(ilm)
 0.1174 0.3948 3.096e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2499	0	0.2529	0.1135	0.1106	0.003440	0.006227	0.01464	0.2488

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.90 879.8 0.06120 0.3055 0.7283 0.02515 0.002722 0.6131
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6032 0.1934 0.2265 0.06319 0.1950 0.1801
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4957 0.1398 0.03268 0.3634 0.01359 0.1042
 k(pl) x(ilm) Q(ilm)
 0.1181 0.3932 3.062e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2490	0	0.2533	0.1147	0.1093	0.003370	0.006240	0.01487	0.2492

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.00 879.7 0.06043 0.3055 0.7319 0.02488 0.002703 0.6131
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6044 0.1931 0.2253 0.06325 0.1949 0.1803
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4958 0.1408 0.03303 0.3643 0.01336 0.1017
 k(pl) x(ilm) Q(ilm)
 0.1188 0.3916 3.029e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2481	0	0.2537	0.1159	0.1080	0.003301	0.006253	0.01509	0.2496

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.10 879.5 0.05967 0.3054 0.7354 0.02462 0.002683 0.6131
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6056 0.1928 0.2242 0.06330 0.1948 0.1806
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4959 0.1419 0.03338 0.3651 0.01313 0.09926
 k(pl) x(ilm) Q(ilm)
 0.1195 0.3900 2.997e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2472	0	0.2541	0.1170	0.1068	0.003233	0.006265	0.01531	0.2500

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.20 879.4 0.05892 0.3053 0.7388 0.02435 0.002665 0.6131
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6068 0.1925 0.2231 0.06335 0.1947 0.1808
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4960 0.1429 0.03372 0.3659 0.01290 0.09688

k(pl) x(ilm) Q(ilm)
0.1201 0.3885 2.965e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.2464	0	0.2545	0.1181	0.1056	0.003167	0.006277	0.01552	0.2505	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.30 879.2 0.05819 0.3052 0.7422 0.02409 0.002646 0.6132
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6079 0.1923 0.2219 0.06340 0.1947 0.1811
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4961 0.1439 0.03406 0.3667 0.01267 0.09456
k(pl) x(ilm) Q(ilm)
0.1208 0.3870 2.934e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.2455	0	0.2549	0.1192	0.1044	0.003102	0.006289	0.01572	0.2509	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40 879.1 0.05747 0.3051 0.7455 0.02383 0.002628 0.6132
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6090 0.1920 0.2208 0.06345 0.1946 0.1814
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4961 0.1448 0.03438 0.3674 0.01244 0.09230
k(pl) x(ilm) Q(ilm)
0.1214 0.3855 2.904e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.2447	0	0.2553	0.1203	0.1033	0.003039	0.006300	0.01592	0.2512	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.50 878.9 0.05676 0.3051 0.7488 0.02358 0.002610 0.6133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6102 0.1917 0.2197 0.06349 0.1945 0.1816
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4962 0.1457 0.03471 0.3680 0.01222 0.09010
k(pl) x(ilm) Q(ilm)
0.1220 0.3840 2.875e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.2438	0	0.2556	0.1213	0.1022	0.002977	0.006311	0.01611	0.2516	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 878.8 0.05606 0.3050 0.7519 0.02332 0.002593 0.6133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6112 0.1915 0.2186 0.06353 0.1945 0.1819
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4963 0.1466 0.03502 0.3686 0.01199 0.08795
k(pl) x(ilm) Q(ilm)
0.1225 0.3825 2.846e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2430	0	0.2560	0.1223	0.1011	0.002916	0.006322	0.01629	0.2520

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.70	878.7	0.05537	0.3049	0.7550	0.02307	0.002576	0.6134
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6123	0.1912	0.2175	0.06357	0.1944	0.1821	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4963	0.1474	0.03533	0.3691	0.01176	0.08586	
	k(pl)	x(ilm)	Q(ilm)				
	0.1230	0.3810	2.818e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2423	0	0.2563	0.1233	0.1001	0.002857	0.006332	0.01647	0.2524

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.80	878.6	0.05470	0.3048	0.7580	0.02282	0.002560	0.6135
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6134	0.1910	0.2164	0.06361	0.1944	0.1824	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4964	0.1483	0.03564	0.3696	0.01154	0.08383	
	k(pl)	x(ilm)	Q(ilm)				
	0.1235	0.3796	2.791e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2415	0	0.2566	0.1242	0.09915	0.002799	0.006343	0.01665	0.2527

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.90	878.5	0.05404	0.3048	0.7610	0.02258	0.002544	0.6136
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6144	0.1908	0.2153	0.06364	0.1943	0.1826	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4965	0.1491	0.03593	0.3701	0.01131	0.08185	
	k(pl)	x(ilm)	Q(ilm)				
	0.1240	0.3781	2.764e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2407	0	0.2569	0.1252	0.09821	0.002742	0.006353	0.01682	0.2531

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
20.00	878.3	0.05339	0.3047	0.7639	0.02233	0.002528	0.6136
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6155	0.1905	0.2142	0.06368	0.1943	0.1828	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4965	0.1498	0.03623	0.3705	0.01109	0.07992	
	k(pl)	x(ilm)	Q(ilm)				
	0.1244	0.3767	2.738e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
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0.2400 0 0.2572 0.1260 0.09730 0.002687 0.006362 0.01698 0.2534

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.65 878.7 0.05568 0.3049 0.7536 0.02318 0.002584 0.6134
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6118 0.1913 0.2180 0.06356 0.1944 0.1820
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4963 0.1471 0.03519 0.2250 0.7840 0.04943
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3689 0.01186 0.08680 0.1228 0.3817 2.831e-5

mode liq bi g mu ksp pl ilm ru ky q
0.2426 0 0.2561 0 0.1229 0.1006 0.002884 0.006328 0.01639 0.2522

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 870.7 0.07535 0.2983 0.6265 0.03041 0.002169 0.6119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5889 0.2011 0.2959 0.06297 0.1904 0.1625
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4958 0.09809 0.01940 0.2323 0.8488 0.05317
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3169 0.01631 0.1773 0.09054 0.4022 3.329e-5

mode liq bi g mu ksp pl ilm ru q
0.2448 0 0.2390 0.02416 0.06441 0.1701 0.005637 0.005876 0.2461

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.05 870.8 0.07490 0.2983 0.6290 0.03031 0.002176 0.6119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5896 0.2009 0.2941 0.06302 0.1904 0.1629
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4960 0.09928 0.01968 0.2321 0.8476 0.05311
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3178 0.01624 0.1753 0.09110 0.4017 3.317e-5

mode liq bi g mu ksp pl ilm ru q

0.2437 0 0.2393 0.02510 0.06429 0.1696 0.005589 0.005884 0.2466

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 870.9 0.07446 0.2983 0.6315 0.03020 0.002182 0.6119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5902 0.2007 0.2924 0.06307 0.1905 0.1634
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4961 0.1005 0.01997 0.2319 0.8465 0.05306
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3188 0.01617 0.1732 0.09167 0.4013 3.306e-5

mode liq bi g mu ksp pl ilm ru q
0.2427 0 0.2395 0.02605 0.06416 0.1691 0.005541 0.005893 0.2470

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.15 871.0 0.07403 0.2984 0.6341 0.03009 0.002189 0.6119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5908 0.2005 0.2907 0.06312 0.1905 0.1639
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4962 0.1017 0.02025 0.2318 0.8453 0.05300
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3198 0.01610 0.1712 0.09224 0.4008 3.295e-5

mode liq bi g mu ksp pl ilm ru q
0.2417 0 0.2398 0.02700 0.06404 0.1686 0.005492 0.005901 0.2475

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 871.0 0.07359 0.2984 0.6367 0.02997 0.002196 0.6119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5914 0.2003 0.2890 0.06317 0.1906 0.1644
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4963 0.1028 0.02054 0.2316 0.8441 0.05295
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3209 0.01603 0.1691 0.09282 0.4004 3.284e-5

mode liq bi g mu ksp pl ilm ru q
0.2407 0 0.2401 0.02794 0.06391 0.1681 0.005444 0.005910 0.2479

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.25 871.1 0.07315 0.2984 0.6392 0.02986 0.002202 0.6119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5920 0.2001 0.2873 0.06321 0.1906 0.1649
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4965 0.1040 0.02083 0.2315 0.8430 0.05289
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3219 0.01596 0.1671 0.09341 0.4000 3.273e-5

mode liq bi g mu ksp pl ilm ru q
0.2397 0 0.2404 0.02889 0.06377 0.1676 0.005395 0.005918 0.2483

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.30    871.2 0.07272 0.2985 0.6418 0.02974 0.002209 0.6119
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5926 0.1999 0.2856 0.06325 0.1907 0.1653
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.4966 0.1052 0.02112 0.2313 0.8418 0.05284
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3229 0.01588 0.1650 0.09400 0.3995 3.262e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2387  0 0.2407 0.02983 0.06364 0.1671 0.005345 0.005927 0.2488

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.35    871.3 0.07229 0.2985 0.6444 0.02961 0.002216 0.6119
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5932 0.1997 0.2840 0.06329 0.1907 0.1658
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.4967 0.1063 0.02141 0.2312 0.8406 0.05278
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3239 0.01581 0.1630 0.09460 0.3991 3.252e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2377  0 0.2410 0.03078 0.06350 0.1666 0.005296 0.005936 0.2492

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40    871.4 0.07186 0.2986 0.6470 0.02948 0.002223 0.6120
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5937 0.1995 0.2823 0.06333 0.1908 0.1663
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.4969 0.1075 0.02171 0.2311 0.8395 0.05272
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3250 0.01573 0.1610 0.09521 0.3987 3.242e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2367  0 0.2412 0.03172 0.06336 0.1662 0.005246 0.005944 0.2496

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.45    871.5 0.07143 0.2987 0.6497 0.02936 0.002230 0.6120
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5943 0.1993 0.2806 0.06336 0.1909 0.1667
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.4970 0.1086 0.02200 0.2309 0.8383 0.05267
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3260 0.01565 0.1589 0.09582 0.3983 3.231e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2357  0 0.2415 0.03266 0.06321 0.1657 0.005196 0.005953 0.2501

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.50    871.6 0.07101 0.2987 0.6523 0.02922 0.002237 0.6120

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5949 0.1992 0.2790 0.06340 0.1909 0.1672
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4972 0.1098 0.02230 0.2308 0.8371 0.05261
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3271 0.01558 0.1569 0.09643 0.3979 3.221e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2348	0	0.2418	0.03360	0.06306	0.1652	0.005146	0.005961	0.2505

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.55 871.7 0.07058 0.2988 0.6549 0.02909 0.002244 0.6121
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5954 0.1990 0.2773 0.06343 0.1910 0.1677
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4973 0.1109 0.02260 0.2307 0.8359 0.05255
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3281 0.01550 0.1549 0.09705 0.3975 3.211e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2338	0	0.2420	0.03454	0.06291	0.1647	0.005095	0.005970	0.2509

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 871.8 0.07016 0.2989 0.6575 0.02895 0.002251 0.6121
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5960 0.1988 0.2757 0.06345 0.1910 0.1681
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4974 0.1120 0.02290 0.2305 0.8347 0.05249
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3292 0.01542 0.1529 0.09767 0.3971 3.202e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2329	0	0.2423	0.03547	0.06276	0.1643	0.005045	0.005978	0.2513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.65 871.9 0.06974 0.2989 0.6602 0.02881 0.002259 0.6122
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5965 0.1987 0.2741 0.06348 0.1911 0.1686
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4976 0.1132 0.02320 0.2304 0.8335 0.05243
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3303 0.01534 0.1509 0.09830 0.3967 3.192e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2320	0	0.2426	0.03640	0.06260	0.1638	0.004994	0.005987	0.2517

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.70 872.0 0.06932 0.2990 0.6628 0.02867 0.002266 0.6122
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5971 0.1985 0.2725 0.06350 0.1911 0.1690

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4977 0.1143 0.02350 0.2303 0.8323 0.05237
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3313 0.01526 0.1489 0.09893 0.3963 3.183e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2310	0	0.2428	0.03733	0.06244	0.1633	0.004944	0.005996	0.2521

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.75 872.1 0.06891 0.2991 0.6655 0.02853 0.002274 0.6123
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5976 0.1983 0.2708 0.06353 0.1912 0.1695
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4979 0.1153 0.02380 0.2302 0.8311 0.05231
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3324 0.01517 0.1469 0.09957 0.3960 3.174e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2301	0	0.2431	0.03825	0.06228	0.1629	0.004893	0.006004	0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.80 872.2 0.06850 0.2992 0.6681 0.02838 0.002282 0.6123
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5981 0.1982 0.2692 0.06355 0.1912 0.1700
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4980 0.1164 0.02410 0.2301 0.8299 0.05225
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3335 0.01509 0.1449 0.1002 0.3956 3.164e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2292	0	0.2433	0.03917	0.06211	0.1624	0.004843	0.006013	0.2529

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.85 872.3 0.06809 0.2993 0.6707 0.02823 0.002289 0.6124
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5987 0.1980 0.2677 0.06356 0.1913 0.1704
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4981 0.1175 0.02441 0.2300 0.8287 0.05219
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3345 0.01500 0.1430 0.1008 0.3952 3.156e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2283	0	0.2436	0.04009	0.06194	0.1620	0.004792	0.006021	0.2533

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.90 872.4 0.06768 0.2994 0.6733 0.02808 0.002297 0.6125
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5992 0.1979 0.2661 0.06358 0.1914 0.1709
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4983 0.1185 0.02471 0.2299 0.8274 0.05213

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3356 0.01492 0.1410 0.1015 0.3949 3.147e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2274	0	0.2438	0.04100	0.06176	0.1615	0.004741	0.006030	0.2537

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.95 872.5 0.06727 0.2995 0.6760 0.02793 0.002305 0.6126
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5997 0.1978 0.2645 0.06359 0.1914 0.1713
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4984 0.1196 0.02501 0.2298 0.8262 0.05207
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3367 0.01483 0.1391 0.1021 0.3945 3.138e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2265	0	0.2441	0.04191	0.06158	0.1611	0.004690	0.006038	0.2540

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 872.6 0.06687 0.2996 0.6786 0.02778 0.002313 0.6126
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6002 0.1976 0.2629 0.06360 0.1915 0.1718
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4986 0.1206 0.02532 0.2297 0.8250 0.05200
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3377 0.01475 0.1372 0.1028 0.3942 3.130e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2257	0	0.2443	0.04281	0.06140	0.1607	0.004640	0.006046	0.2544

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.05 872.7 0.06647 0.2997 0.6812 0.02763 0.002321 0.6127
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6007 0.1975 0.2614 0.06361 0.1915 0.1722
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4987 0.1216 0.02562 0.2296 0.8237 0.05194
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3388 0.01466 0.1353 0.1034 0.3938 3.121e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2248	0	0.2445	0.04371	0.06122	0.1603	0.004589	0.006055	0.2548

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10 872.8 0.06608 0.2999 0.6838 0.02748 0.002330 0.6128
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6012 0.1974 0.2598 0.06362 0.1916 0.1727
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4989 0.1227 0.02592 0.2296 0.8225 0.05187
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3398 0.01457 0.1334 0.1041 0.3935 3.113e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2240	0	0.2448	0.04461	0.06103	0.1599	0.004539	0.006063	0.2552

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.15	872.9	0.06568	0.3000	0.6864	0.02732	0.002338	0.6129
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6017	0.1973	0.2583	0.06363	0.1917	0.1731	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.4990	0.1236	0.02623	0.2295	0.8213	0.05180	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3409	0.01448	0.1315	0.1047	0.3932	3.105e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2231	0	0.2450	0.04549	0.06083	0.1595	0.004488	0.006071	0.2555

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.20	873.0	0.06529	0.3001	0.6889	0.02716	0.002346	0.6130
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6021	0.1971	0.2567	0.06363	0.1917	0.1735	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.4992	0.1246	0.02653	0.2294	0.8200	0.05173	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3419	0.01439	0.1297	0.1054	0.3929	3.097e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2223	0	0.2452	0.04638	0.06064	0.1591	0.004438	0.006079	0.2559

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.25	873.2	0.06490	0.3002	0.6915	0.02701	0.002355	0.6131
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6026	0.1970	0.2552	0.06363	0.1918	0.1740	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.4993	0.1256	0.02683	0.2294	0.8188	0.05166	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3430	0.01430	0.1279	0.1060	0.3925	3.090e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2215	0	0.2455	0.04726	0.06044	0.1587	0.004388	0.006088	0.2562

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.30	873.3	0.06452	0.3003	0.6940	0.02685	0.002364	0.6133
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6031	0.1969	0.2537	0.06363	0.1918	0.1744	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.4995	0.1266	0.02714	0.2293	0.8175	0.05159	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3440	0.01421	0.1260	0.1067	0.3922	3.082e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.2207 0 0.2457 0.04813 0.06023 0.1583 0.004338 0.006096 0.2566

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.35 873.4 0.06414 0.3005 0.6966 0.02669 0.002372 0.6134
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6035 0.1968 0.2522 0.06363 0.1919 0.1748
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4996 0.1275 0.02744 0.2292 0.8162 0.05152
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3451 0.01412 0.1242 0.1073 0.3919 3.075e-5

mode liq bi g mu ksp pl ilm ru q
0.2199 0 0.2459 0.04900 0.06002 0.1579 0.004288 0.006104 0.2569

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 873.5 0.06376 0.3006 0.6991 0.02653 0.002381 0.6135
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6040 0.1967 0.2507 0.06362 0.1920 0.1753
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4998 0.1284 0.02774 0.2292 0.8150 0.05145
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3461 0.01403 0.1225 0.1080 0.3916 3.067e-5

mode liq bi g mu ksp pl ilm ru q
0.2191 0 0.2461 0.04986 0.05981 0.1576 0.004238 0.006112 0.2573

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.45 873.7 0.06338 0.3008 0.7016 0.02637 0.002390 0.6136
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6044 0.1966 0.2492 0.06361 0.1920 0.1757
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4999 0.1293 0.02804 0.2291 0.8137 0.05137
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3471 0.01393 0.1207 0.1086 0.3913 3.060e-5

mode liq bi g mu ksp pl ilm ru q
0.2183 0 0.2463 0.05072 0.05960 0.1572 0.004188 0.006120 0.2576

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50 873.8 0.06301 0.3009 0.7041 0.02621 0.002400 0.6138
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6049 0.1965 0.2477 0.06361 0.1921 0.1761
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5001 0.1302 0.02834 0.2291 0.8124 0.05130
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3482 0.01384 0.1190 0.1093 0.3911 3.053e-5

mode liq bi g mu ksp pl ilm ru q
0.2175 0 0.2465 0.05157 0.05938 0.1569 0.004139 0.006128 0.2579

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.55    873.9  0.06264  0.3010  0.7065  0.02605 0.002409 0.6139
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6053  0.1964  0.2462  0.06359  0.1921  0.1766
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5002  0.1311  0.02864  0.2291  0.8112  0.05122
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3492  0.01374  0.1173  0.1099  0.3908 3.046e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2167  0  0.2467  0.05242  0.05916  0.1565 0.004089 0.006136 0.2583

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.60    874.0  0.06227  0.3012  0.7090  0.02589 0.002418 0.6140
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6057  0.1964  0.2448  0.06358  0.1922  0.1770
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5004  0.1320  0.02894  0.2290  0.8099  0.05115
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3502  0.01365  0.1156  0.1105  0.3905 3.040e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2160  0  0.2469  0.05326  0.05893  0.1562 0.004040 0.006144 0.2586

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.65    874.2  0.06191  0.3013  0.7114  0.02573 0.002428 0.6142
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6061  0.1963  0.2433  0.06357  0.1923  0.1774
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5005  0.1329  0.02924  0.2290  0.8086  0.05107
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3512  0.01356  0.1139  0.1112  0.3902 3.033e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2152  0  0.2471  0.05409  0.05870  0.1559 0.003991 0.006151 0.2589

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.70    874.3  0.06155  0.3015  0.7138  0.02557 0.002437 0.6143
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6065  0.1962  0.2418  0.06355  0.1923  0.1779
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5007  0.1337  0.02954  0.2290  0.8073  0.05099
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3522  0.01346  0.1122  0.1118  0.3900 3.027e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2145  0  0.2472  0.05492  0.05846  0.1556 0.003942 0.006159 0.2592

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.75    874.5  0.06119  0.3016  0.7162  0.02541 0.002447 0.6145

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6069 0.1961 0.2404 0.06353 0.1924 0.1783
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5008 0.1346 0.02984 0.2289 0.8060 0.05091
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3532 0.01336 0.1106 0.1124 0.3897 3.020e-5

mode liq bi g mu ksp pl ilm ru q
0.2138 0 0.2474 0.05575 0.05822 0.1553 0.003894 0.006167 0.2595

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 874.6 0.06083 0.3018 0.7186 0.02525 0.002457 0.6146
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6073 0.1961 0.2390 0.06351 0.1925 0.1787
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5010 0.1354 0.03013 0.2289 0.8047 0.05083
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3542 0.01327 0.1090 0.1131 0.3895 3.014e-5

mode liq bi g mu ksp pl ilm ru q
0.2131 0 0.2476 0.05657 0.05798 0.1550 0.003845 0.006174 0.2598

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.85 874.7 0.06048 0.3019 0.7209 0.02509 0.002467 0.6148
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6077 0.1960 0.2375 0.06349 0.1925 0.1791
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5011 0.1362 0.03043 0.2289 0.8034 0.05074
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3551 0.01317 0.1074 0.1137 0.3892 3.008e-5

mode liq bi g mu ksp pl ilm ru q
0.2124 0 0.2478 0.05738 0.05773 0.1547 0.003797 0.006182 0.2601

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.90 874.9 0.06013 0.3021 0.7232 0.02493 0.002477 0.6150
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6081 0.1959 0.2361 0.06347 0.1926 0.1795
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5013 0.1370 0.03072 0.2289 0.8021 0.05066
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3561 0.01307 0.1058 0.1143 0.3890 3.002e-5

mode liq bi g mu ksp pl ilm ru q
0.2117 0 0.2479 0.05819 0.05748 0.1544 0.003749 0.006190 0.2604

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.95 875.0 0.05979 0.3023 0.7255 0.02477 0.002487 0.6151
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6085 0.1959 0.2347 0.06344 0.1927 0.1799

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5014 0.1378 0.03101 0.2289 0.8008 0.05057
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3570 0.01298 0.1043 0.1149 0.3887 2.996e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2110	0	0.2481	0.05899	0.05723	0.1541	0.003701	0.006197	0.2607

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.00 875.2 0.05945 0.3024 0.7278 0.02461 0.002498 0.6153
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6089 0.1958 0.2333 0.06342 0.1927 0.1804
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5016 0.1386 0.03131 0.2289 0.7995 0.05049
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3580 0.01288 0.1028 0.1156 0.3885 2.990e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2103	0	0.2482	0.05979	0.05697	0.1539	0.003654	0.006205	0.2610

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.05 875.3 0.05911 0.3026 0.7301 0.02445 0.002508 0.6155
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6092 0.1958 0.2319 0.06339 0.1928 0.1808
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5017 0.1393 0.03160 0.2289 0.7981 0.05040
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3589 0.01278 0.1013 0.1162 0.3883 2.984e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2096	0	0.2484	0.06058	0.05671	0.1536	0.003607	0.006212	0.2613

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.10 875.5 0.05877 0.3028 0.7323 0.02429 0.002519 0.6157
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6096 0.1957 0.2305 0.06336 0.1929 0.1812
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5019 0.1401 0.03189 0.2289 0.7968 0.05031
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3598 0.01268 0.09977 0.1168 0.3881 2.979e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2089	0	0.2485	0.06137	0.05644	0.1534	0.003560	0.006219	0.2615

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.15 875.6 0.05844 0.3029 0.7345 0.02414 0.002530 0.6159
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6099 0.1957 0.2292 0.06333 0.1929 0.1816
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5020 0.1408 0.03218 0.2289 0.7955 0.05022

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3607 0.01259 0.09830 0.1174 0.3878 2.973e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2083	0	0.2487	0.06215	0.05617	0.1532	0.003513	0.006227	0.2618

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 875.8 0.05811 0.3031 0.7367 0.02398 0.002541 0.6160
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6103 0.1956 0.2278 0.06329 0.1930 0.1820
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5022 0.1415 0.03247 0.2289 0.7942 0.05013
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3616 0.01249 0.09686 0.1180 0.3876 2.968e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2076	0	0.2488	0.06293	0.05590	0.1529	0.003466	0.006234	0.2621

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.25 876.0 0.05778 0.3033 0.7389 0.02382 0.002552 0.6162
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6106 0.1956 0.2264 0.06326 0.1931 0.1824
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5023 0.1423 0.03275 0.2289 0.7928 0.05004
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3625 0.01239 0.09544 0.1186 0.3874 2.963e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2070	0	0.2490	0.06370	0.05562	0.1527	0.003420	0.006241	0.2624

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.30 876.1 0.05746 0.3034 0.7410 0.02367 0.002563 0.6164
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6110 0.1955 0.2251 0.06322 0.1931 0.1828
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5025 0.1430 0.03304 0.2289 0.7915 0.04994
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3634 0.01229 0.09404 0.1191 0.3872 2.958e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2063	0	0.2491	0.06447	0.05533	0.1525	0.003373	0.006248	0.2626

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.35 876.3 0.05714 0.3036 0.7432 0.02351 0.002574 0.6166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6113 0.1955 0.2237 0.06319 0.1932 0.1832
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5026 0.1437 0.03333 0.2290 0.7901 0.04985
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3643 0.01219 0.09266 0.1197 0.3870 2.953e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2057	0	0.2492	0.06523	0.05505	0.1523	0.003327	0.006255	0.2629

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.40	876.5	0.05682	0.3038	0.7453	0.02336	0.002585	0.6168
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6116	0.1955	0.2224	0.06315	0.1933	0.1836	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5028	0.1443	0.03361	0.2290	0.7888	0.04975	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3651	0.01210	0.09131	0.1203	0.3868	2.948e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2051	0	0.2494	0.06599	0.05476	0.1521	0.003282	0.006262	0.2631

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.45	876.6	0.05650	0.3039	0.7473	0.02320	0.002597	0.6171
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6119	0.1954	0.2211	0.06310	0.1933	0.1840	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5029	0.1450	0.03390	0.2290	0.7874	0.04966	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3660	0.01200	0.08997	0.1209	0.3866	2.943e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2045	0	0.2495	0.06675	0.05446	0.1520	0.003236	0.006269	0.2634

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.50	876.8	0.05619	0.3041	0.7494	0.02305	0.002609	0.6173
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6122	0.1954	0.2198	0.06306	0.1934	0.1844	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5031	0.1457	0.03418	0.2291	0.7861	0.04956	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3668	0.01190	0.08865	0.1214	0.3865	2.938e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2039	0	0.2496	0.06750	0.05416	0.1518	0.003191	0.006276	0.2636

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.55	877.0	0.05588	0.3043	0.7514	0.02290	0.002620	0.6175
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6126	0.1954	0.2184	0.06302	0.1935	0.1848	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5032	0.1463	0.03446	0.2291	0.7847	0.04946	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3677	0.01180	0.08736	0.1220	0.3863	2.933e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.2033 0 0.2497 0.06825 0.05386 0.1516 0.003146 0.006283 0.2639

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 877.2 0.05558 0.3045 0.7535 0.02275 0.002632 0.6177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6129 0.1954 0.2171 0.06297 0.1936 0.1852
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5034 0.1470 0.03474 0.2291 0.7834 0.04936
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3685 0.01170 0.08608 0.1225 0.3861 2.929e-5

mode liq bi g mu ksp pl ilm ru q
0.2027 0 0.2498 0.06899 0.05355 0.1515 0.003101 0.006290 0.2641

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.65 877.3 0.05527 0.3046 0.7555 0.02260 0.002644 0.6179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6132 0.1954 0.2158 0.06293 0.1936 0.1856
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5035 0.1476 0.03502 0.2292 0.7820 0.04926
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3693 0.01160 0.08482 0.1231 0.3859 2.924e-5

mode liq bi g mu ksp pl ilm ru q
0.2021 0 0.2499 0.06973 0.05324 0.1513 0.003056 0.006297 0.2644

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.70 877.5 0.05497 0.3048 0.7574 0.02245 0.002657 0.6181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6135 0.1953 0.2146 0.06288 0.1937 0.1860
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5037 0.1482 0.03530 0.2292 0.7806 0.04916
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3701 0.01150 0.08359 0.1236 0.3858 2.920e-5

mode liq bi g mu ksp pl ilm ru q
0.2015 0 0.2500 0.07046 0.05292 0.1512 0.003012 0.006304 0.2646

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.75 877.7 0.05467 0.3050 0.7594 0.02230 0.002669 0.6184
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6137 0.1953 0.2133 0.06283 0.1938 0.1864
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5039 0.1488 0.03558 0.2293 0.7793 0.04906
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3708 0.01141 0.08237 0.1242 0.3856 2.915e-5

mode liq bi g mu ksp pl ilm ru q
0.2009 0 0.2501 0.07119 0.05260 0.1511 0.002968 0.006310 0.2648

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.80    877.9 0.05438 0.3052 0.7613 0.02215 0.002681 0.6186
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6140 0.1953 0.2120 0.06278 0.1939 0.1867
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5040 0.1494 0.03586 0.2293 0.7779 0.04896
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3716 0.01131 0.08117 0.1247 0.3854 2.911e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2003  0 0.2502 0.07192 0.05228 0.1509 0.002923 0.006317 0.2650

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.85    878.1 0.05409 0.3053 0.7632 0.02200 0.002694 0.6188
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6143 0.1953 0.2107 0.06272 0.1939 0.1871
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5042 0.1500 0.03614 0.2294 0.7765 0.04885
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3724 0.01121 0.07999 0.1252 0.3853 2.907e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1998  0 0.2503 0.07265 0.05195 0.1508 0.002880 0.006324 0.2653

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.90    878.3 0.05380 0.3055 0.7651 0.02186 0.002707 0.6191
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6146 0.1953 0.2095 0.06267 0.1940 0.1875
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5043 0.1506 0.03641 0.2294 0.7751 0.04875
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3731 0.01111 0.07883 0.1257 0.3851 2.903e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1992  0 0.2504 0.07337 0.05162 0.1507 0.002836 0.006330 0.2655

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.95    878.4 0.05351 0.3057 0.7670 0.02171 0.002720 0.6193
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6148 0.1953 0.2082 0.06262 0.1941 0.1879
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5045 0.1512 0.03669 0.2295 0.7737 0.04864
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3738 0.01102 0.07769 0.1262 0.3850 2.899e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1987  0 0.2505 0.07409 0.05128 0.1506 0.002793 0.006337 0.2657

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00    878.6 0.05323 0.3059 0.7688 0.02157 0.002733 0.6195

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6151 0.1953 0.2070 0.06256 0.1942 0.1883
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5046 0.1517 0.03696 0.2296 0.7723 0.04854
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3746 0.01092 0.07657 0.1267 0.3848 2.895e-5

mode liq bi g mu ksp pl ilm ru q
 0.1981 0 0.2506 0.07480 0.05094 0.1505 0.002749 0.006344 0.2659
 calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
 <=====>

phases : liq, g, mu, ksp, pl, ilm, ru, ky, q

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 838.1 0.07219 0.2881 0.6317 0.02288 0.002332 0.5902
 h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
 0.6116 0.4943 0.1102 0.02154 0.2163 0.8139
 na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
 0.04854 0.3027 0.01335 0.1709 0.08303 0.4146
 Q(ilm)
 3.96E-05

mode liq g mu ksp pl ilm ru ky q
 0.2426 0.2437 0 0.08962 0.1596 0.005345 0.005891 0.009113 0.2441

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.06 838.7 0.07188 0.2883 0.6335 0.02292 0.002335 0.5905
 h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
 0.6117 0.4944 0.1111 0.02179 0.2164 0.8135
 na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
 0.04857 0.3038 0.01334 0.1692 0.08363 0.4139
 Q(ilm)
 3.93E-05

mode liq g mu ksp pl ilm ru ky q
 0.2425 0.2440 0 0.09004 0.1587 0.005300 0.005900 0.009270 0.2443

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.12 839.4 0.07157 0.2885 0.6354 0.02296 0.002337 0.5908
 h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
 0.6118 0.4944 0.1119 0.02203 0.2165 0.8130
 na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
 0.04859 0.3049 0.01333 0.1675 0.08423 0.4132
 Q(ilm)
 3.90E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2425	0.2443	0	0.09047	0.1578	0.005255	0.005909	0.009426	0.2444

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.18	840.1	0.07127	0.2887	0.6373	0.02300	0.002340	0.5912
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.6119	0.4945	0.1128	0.02227	0.2165	0.8125	
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	
	0.04862	0.3060	0.01332	0.1658	0.08484	0.4125	
	Q(ilm)						

3.87E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2424	0.2446	0	0.09091	0.1568	0.005210	0.005918	0.009582	0.2446

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.24	840.7	0.07097	0.2889	0.6391	0.02303	0.002343	0.5915
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.6120	0.4945	0.1136	0.02251	0.2166	0.8120	
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	
	0.04865	0.3071	0.01331	0.1641	0.08545	0.4118	
	Q(ilm)						

3.85E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2424	0.2448	0	0.09135	0.1559	0.005165	0.005926	0.009736	0.2447

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.30	841.4	0.07066	0.2891	0.6410	0.02306	0.002346	0.5918
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.6121	0.4946	0.1145	0.02275	0.2167	0.8115	
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	
	0.04867	0.3082	0.01330	0.1624	0.08607	0.4112	
	Q(ilm)						

3.82E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2423	0.2451	0	0.09179	0.1550	0.005120	0.005935	0.009889	0.2449

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.36	842.1	0.07036	0.2894	0.6429	0.02310	0.002349	0.5922
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.6121	0.4946	0.1153	0.02299	0.2168	0.8110	
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	
	0.04870	0.3093	0.01329	0.1608	0.08669	0.4105	
	Q(ilm)						

3.79E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2423	0.2454	0	0.09224	0.1540	0.005076	0.005944	0.01004	0.2450

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.42    842.7  0.07006  0.2896  0.6449  0.02313  0.002351  0.5925
          h2o(L)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.6122  0.4946  0.1161  0.02323  0.2169  0.8105
          na(mu)  na(ksp)  ca(ksp)  ca(pl)  k(pl)  x(ilm)
          0.04873  0.3104  0.01328  0.1591  0.08731  0.4099
          Q(ilm)
3.77E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2422  0.2456  0  0.09269  0.1531  0.005031  0.005952  0.01019  0.2452

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.48    843.4  0.06976  0.2898  0.6468  0.02316  0.002354  0.5929
          h2o(L)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.6123  0.4947  0.1169  0.02347  0.2171  0.8100
          na(mu)  na(ksp)  ca(ksp)  ca(pl)  k(pl)  x(ilm)
          0.04875  0.3115  0.01327  0.1574  0.08794  0.4092
          Q(ilm)
3.74E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2422  0.2459  0  0.09315  0.1522  0.004986  0.005961  0.01034  0.2454

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.54    844.1  0.06946  0.2900  0.6487  0.02318  0.002357  0.5932
          h2o(L)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.6123  0.4947  0.1177  0.02371  0.2172  0.8096
          na(mu)  na(ksp)  ca(ksp)  ca(pl)  k(pl)  x(ilm)
          0.04878  0.3127  0.01326  0.1558  0.08857  0.4086
          Q(ilm)
3.72E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2421  0.2461  0  0.09361  0.1512  0.004942  0.005969  0.01049  0.2455

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.60    844.7  0.06917  0.2902  0.6507  0.02321  0.002360  0.5935
          h2o(L)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.6124  0.4948  0.1185  0.02395  0.2173  0.8091
          na(mu)  na(ksp)  ca(ksp)  ca(pl)  k(pl)  x(ilm)
          0.04880  0.3138  0.01324  0.1541  0.08920  0.4080
          Q(ilm)
3.69E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2421  0.2464  0  0.09407  0.1503  0.004897  0.005977  0.01064  0.2457

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

```

16.66 845.4 0.06887 0.2905 0.6526 0.02323 0.002364 0.5939
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6125 0.4948 0.1193 0.02419 0.2174 0.8086
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04883 0.3149 0.01323 0.1525 0.08984 0.4073
Q(ilm)

3.67E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2420	0.2466	0	0.09455	0.1493	0.004853	0.005986	0.01079	0.2458

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.72 846.1 0.06857 0.2907 0.6546 0.02326 0.002367 0.5942
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6125 0.4948 0.1200 0.02443 0.2175 0.8081
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04885 0.3160 0.01321 0.1509 0.09048 0.4067
Q(ilm)

3.65E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2420	0.2469	0	0.09502	0.1484	0.004809	0.005994	0.01093	0.2460

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.78 846.7 0.06828 0.2909 0.6565 0.02328 0.002370 0.5946
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6126 0.4949 0.1208 0.02467 0.2176 0.8076
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04888 0.3171 0.01320 0.1492 0.09112 0.4061
Q(ilm)

3.62E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2419	0.2471	0	0.09550	0.1475	0.004765	0.006002	0.01107	0.2461

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.84 847.4 0.06799 0.2912 0.6585 0.02330 0.002373 0.5950
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6127 0.4949 0.1216 0.02491 0.2177 0.8071
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04890 0.3183 0.01318 0.1476 0.09177 0.4055
Q(ilm)

3.60E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2419	0.2474	0	0.09598	0.1465	0.004721	0.006010	0.01122	0.2463

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90 848.1 0.06770 0.2914 0.6605 0.02332 0.002377 0.5953
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6127 0.4950 0.1223 0.02515 0.2178 0.8066
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04893 0.3194 0.01317 0.1460 0.09241 0.4049
Q(ilm)

3.58E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2419	0.2476	0	0.09647	0.1456	0.004677	0.006019	0.01136	0.2464

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.96 848.7 0.06741 0.2916 0.6625 0.02334 0.002380 0.5957
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6128 0.4950 0.1230 0.02539 0.2180 0.8061
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04895 0.3205 0.01315 0.1445 0.09306 0.4042
Q(ilm)

3.56E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2418	0.2479	0	0.09696	0.1446	0.004633	0.006027	0.01150	0.2466

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.02 849.4 0.06712 0.2919 0.6645 0.02335 0.002383 0.5960
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6128 0.4950 0.1238 0.02563 0.2181 0.8056
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04897 0.3216 0.01313 0.1429 0.09371 0.4036
Q(ilm)

3.53E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2418	0.2481	0	0.09746	0.1437	0.004590	0.006035	0.01164	0.2467

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.08 850.0 0.06683 0.2921 0.6665 0.02337 0.002387 0.5964
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6129 0.4951 0.1245 0.02586 0.2182 0.8052
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04900 0.3228 0.01311 0.1413 0.09437 0.4031
Q(ilm)

3.51E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2418	0.2484	0	0.09796	0.1427	0.004547	0.006042	0.01177	0.2469

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.14 850.7 0.06654 0.2924 0.6685 0.02338 0.002391 0.5968
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6129 0.4951 0.1252 0.02610 0.2183 0.8047
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04902 0.3239 0.01309 0.1398 0.09502 0.4025

Q(ilm)

3.49E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2417	0.2486	0	0.09846	0.1417	0.004504	0.006050	0.01191	0.2470

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	851.4	0.06626	0.2926	0.6705	0.02339	0.002394	0.5971

h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
0.6129	0.4951	0.1259	0.02633	0.2185	0.8042

na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
0.04904	0.3250	0.01307	0.1382	0.09568	0.4019

Q(ilm)

3.47E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2417	0.2488	0	0.09897	0.1408	0.004461	0.006058	0.01204	0.2471

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.26	852.0	0.06597	0.2929	0.6725	0.02341	0.002398	0.5975

h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
0.6130	0.4952	0.1266	0.02657	0.2186	0.8037

na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
0.04906	0.3261	0.01305	0.1367	0.09634	0.4013

Q(ilm)

3.45E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2417	0.2491	0	0.09948	0.1398	0.004418	0.006066	0.01218	0.2473

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.32	852.7	0.06569	0.2931	0.6745	0.02342	0.002402	0.5979

h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
0.6130	0.4952	0.1272	0.02680	0.2187	0.8032

na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
0.04908	0.3273	0.01303	0.1352	0.09700	0.4007

Q(ilm)

3.43E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2417	0.2493	0	0.1000	0.1389	0.004375	0.006074	0.01231	0.2474

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.38	853.4	0.06541	0.2934	0.6766	0.02343	0.002405	0.5982

h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
0.6130	0.4953	0.1279	0.02704	0.2188	0.8027

na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
0.04910	0.3284	0.01301	0.1337	0.09766	0.4002

Q(ilm)

3.41E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2495	0	0.1005	0.1379	0.004333	0.006081	0.01244	0.2476

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.44	854.0	0.06513	0.2936	0.6786	0.02344	0.002409	0.5986
		h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.6131	0.4953	0.1286	0.02727	0.2190	0.8022
		na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
		0.04912	0.3295	0.01299	0.1322	0.09833	0.3996
		Q(ilm)					

3.39E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2497	0	0.1010	0.1370	0.004291	0.006089	0.01257	0.2477

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.50	854.7	0.06485	0.2939	0.6806	0.02344	0.002413	0.5990
		h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.6131	0.4953	0.1292	0.02750	0.2191	0.8017
		na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
		0.04914	0.3306	0.01297	0.1307	0.09899	0.3990
		Q(ilm)					

3.37E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2499	0	0.1016	0.1360	0.004249	0.006096	0.01270	0.2479

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.56	855.4	0.06457	0.2941	0.6827	0.02345	0.002417	0.5994
		h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.6131	0.4954	0.1299	0.02773	0.2193	0.8012
		na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
		0.04916	0.3317	0.01295	0.1293	0.09966	0.3985
		Q(ilm)					

3.35E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2502	0	0.1021	0.1350	0.004207	0.006104	0.01282	0.2480

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.62	856.0	0.06429	0.2944	0.6847	0.02345	0.002421	0.5997
		h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.6131	0.4954	0.1305	0.02796	0.2194	0.8007
		na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
		0.04917	0.3329	0.01292	0.1278	0.1003	0.3979
		Q(ilm)					

3.33E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2504	0	0.1026	0.1341	0.004166	0.006111	0.01295	0.2481

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.68 856.7 0.06402 0.2947 0.6868 0.02346 0.002425 0.6001
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6132 0.4954 0.1311 0.02819 0.2195 0.8002
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04919 0.3340 0.01290 0.1264 0.1010 0.3974
Q(ilm)
3.32E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2506	0	0.1032	0.1331	0.004124	0.006118	0.01307	0.2483

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.74 857.4 0.06374 0.2950 0.6888 0.02346 0.002429 0.6005
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6132 0.4955 0.1317 0.02842 0.2197 0.7998
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04921 0.3351 0.01287 0.1250 0.1017 0.3968
Q(ilm)
3.30E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2508	0	0.1037	0.1321	0.004083	0.006126	0.01319	0.2484

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 858.0 0.06347 0.2952 0.6909 0.02346 0.002433 0.6009
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6132 0.4955 0.1323 0.02865 0.2198 0.7993
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04922 0.3362 0.01285 0.1235 0.1023 0.3963
Q(ilm)
3.28E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2510	0	0.1043	0.1312	0.004042	0.006133	0.01331	0.2485

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.86 858.7 0.06320 0.2955 0.6929 0.02347 0.002437 0.6013
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6132 0.4955 0.1329 0.02887 0.2200 0.7988
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04924 0.3373 0.01282 0.1221 0.1030 0.3958
Q(ilm)
3.26E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2512	0	0.1048	0.1302	0.004001	0.006140	0.01343	0.2487

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.92 859.4 0.06293 0.2958 0.6950 0.02347 0.002442 0.6017
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6132 0.4956 0.1335 0.02910 0.2201 0.7983
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04926 0.3384 0.01280 0.1208 0.1037 0.3953
Q(ilm)
3.24E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2514	0	0.1054	0.1292	0.003961	0.006147	0.01355	0.2488

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.98 860.0 0.06266 0.2961 0.6970 0.02347 0.002446 0.6021
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6132 0.4956 0.1341 0.02932 0.2203 0.7978
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04927 0.3395 0.01277 0.1194 0.1043 0.3947
Q(ilm)
3.23E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2516	0	0.1059	0.1282	0.003920	0.006154	0.01367	0.2489

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.04 860.7 0.06239 0.2964 0.6991 0.02347 0.002450 0.6024
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6132 0.4956 0.1347 0.02955 0.2204 0.7973
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04928 0.3406 0.01274 0.1180 0.1050 0.3942
Q(ilm)
3.21E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2518	0	0.1065	0.1273	0.003880	0.006161	0.01378	0.2491

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10 861.4 0.06213 0.2966 0.7011 0.02346 0.002455 0.6028
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6132 0.4957 0.1352 0.02977 0.2206 0.7968
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04930 0.3417 0.01272 0.1167 0.1057 0.3937
Q(ilm)
3.19E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2520	0	0.1071	0.1263	0.003841	0.006168	0.01389	0.2492

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

18.16 862.0 0.06186 0.2969 0.7032 0.02346 0.002459 0.6032
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6132 0.4957 0.1358 0.02999 0.2207 0.7963
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04931 0.3428 0.01269 0.1154 0.1064 0.3932
Q(ilm)

3.18E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2522	0	0.1076	0.1253	0.003801	0.006175	0.01401	0.2493

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.22 862.7 0.06160 0.2972 0.7052 0.02346 0.002464 0.6036
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6131 0.4957 0.1363 0.03021 0.2209 0.7958
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04932 0.3439 0.01266 0.1141 0.1070 0.3927
Q(ilm)

3.16E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2524	0	0.1082	0.1243	0.003761	0.006182	0.01412	0.2494

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.28 863.4 0.06134 0.2975 0.7073 0.02345 0.002468 0.6040
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6131 0.4957 0.1369 0.03043 0.2210 0.7953
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04933 0.3450 0.01263 0.1128 0.1077 0.3922
Q(ilm)

3.15E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2525	0	0.1088	0.1234	0.003722	0.006188	0.01423	0.2496

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.34 864.0 0.06107 0.2978 0.7094 0.02345 0.002473 0.6044
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6131 0.4958 0.1374 0.03065 0.2212 0.7948
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04934 0.3461 0.01260 0.1115 0.1084 0.3917
Q(ilm)

3.13E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2527	0	0.1094	0.1224	0.003683	0.006195	0.01433	0.2497

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 864.7 0.06082 0.2981 0.7114 0.02344 0.002478 0.6048
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6131 0.4958 0.1379 0.03087 0.2214 0.7943
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04935 0.3472 0.01257 0.1102 0.1090 0.3912
Q(ilm)

3.11E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2416	0.2529	0	0.1099	0.1214	0.003644	0.006202	0.01444	0.2498

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.46 865.4 0.06056 0.2984 0.7135 0.02344 0.002482 0.6052
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6131 0.4958 0.1384 0.03108 0.2215 0.7938
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04936 0.3483 0.01254 0.1090 0.1097 0.3907
Q(ilm)

3.10E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2417	0.2531	0	0.1105	0.1204	0.003606	0.006208	0.01455	0.2499

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.52 866.0 0.06030 0.2987 0.7155 0.02343 0.002487 0.6056
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6130 0.4959 0.1389 0.03130 0.2217 0.7933
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04937 0.3493 0.01251 0.1077 0.1104 0.3902
Q(ilm)

3.08E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2417	0.2533	0	0.1111	0.1194	0.003568	0.006215	0.01465	0.2501

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.58 866.7 0.06004 0.2990 0.7176 0.02342 0.002492 0.6060
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6130 0.4959 0.1394 0.03151 0.2218 0.7929
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04938 0.3504 0.01248 0.1065 0.1110 0.3897
Q(ilm)

3.07E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2417	0.2534	0	0.1117	0.1184	0.003530	0.006221	0.01475	0.2502

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.64 867.4 0.05979 0.2993 0.7196 0.02341 0.002496 0.6064
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6130 0.4959 0.1399 0.03173 0.2220 0.7924
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04939 0.3515 0.01245 0.1053 0.1117 0.3893

Q(ilm)

3.05E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2417	0.2536	0	0.1123	0.1175	0.003492	0.006228	0.01486	0.2503

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.70	868.0	0.05954	0.2996	0.7216	0.02340	0.002501	0.6068

h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
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0.6129	0.4959	0.1404	0.03194	0.2222	0.7919
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na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
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0.04939	0.3525	0.01242	0.1041	0.1124	0.3888
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Q(ilm)

3.04E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2418	0.2538	0	0.1129	0.1165	0.003454	0.006234	0.01496	0.2504

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.76	868.7	0.05928	0.3000	0.7237	0.02339	0.002506	0.6072

h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
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0.6129	0.4960	0.1408	0.03215	0.2223	0.7914
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na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
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0.04940	0.3536	0.01238	0.1029	0.1130	0.3883
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Q(ilm)

3.03E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2418	0.2539	0	0.1135	0.1155	0.003417	0.006240	0.01505	0.2505

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.82	869.4	0.05903	0.3003	0.7257	0.02338	0.002511	0.6076

h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
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0.6128	0.4960	0.1413	0.03236	0.2225	0.7909
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na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
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0.04941	0.3547	0.01235	0.1017	0.1137	0.3878
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Q(ilm)

3.01E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2418	0.2541	0	0.1141	0.1145	0.003379	0.006246	0.01515	0.2507

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.88	870.1	0.05878	0.3006	0.7278	0.02337	0.002516	0.6080

h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
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0.6128	0.4960	0.1418	0.03257	0.2227	0.7904
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na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)
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0.04941	0.3557	0.01232	0.1006	0.1144	0.3874
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Q(ilm)

3.00E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2419	0.2543	0	0.1147	0.1135	0.003342	0.006253	0.01525	0.2508

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.94 870.7 0.05854 0.3009 0.7298 0.02336 0.002521 0.6085
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6127 0.4960 0.1422 0.03278 0.2228 0.7899
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04942 0.3568 0.01229 0.09943 0.1150 0.3869
Q(ilm)

2.98E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2419	0.2544	0	0.1153	0.1125	0.003306	0.006259	0.01534	0.2509

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 871.4 0.05829 0.3012 0.7318 0.02335 0.002526 0.6089
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6127 0.4961 0.1427 0.03299 0.2230 0.7894
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04942 0.3578 0.01225 0.09829 0.1157 0.3865
Q(ilm)

2.97E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2420	0.2546	0	0.1160	0.1115	0.003269	0.006265	0.01544	0.2510

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.06 872.1 0.05804 0.3016 0.7338 0.02334 0.002531 0.6093
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6126 0.4961 0.1431 0.03320 0.2232 0.7889
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04942 0.3588 0.01222 0.09718 0.1163 0.3860
Q(ilm)

2.96E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2420	0.2547	0	0.1166	0.1105	0.003233	0.006271	0.01553	0.2511

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.12 872.7 0.05780 0.3019 0.7359 0.02332 0.002537 0.6097
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6126 0.4961 0.1435 0.03340 0.2234 0.7884
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3599 0.01218 0.09607 0.1170 0.3856
Q(ilm)

2.94E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2421	0.2549	0	0.1172	0.1095	0.003197	0.006277	0.01562	0.2512

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.18 873.4 0.05756 0.3022 0.7379 0.02331 0.002542 0.6101
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6125 0.4961 0.1440 0.03361 0.2235 0.7879
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3609 0.01215 0.09498 0.1177 0.3851
Q(ilm)
2.93E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2421	0.2550	0	0.1178	0.1085	0.003161	0.006283	0.01571	0.2513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.24 874.1 0.05732 0.3026 0.7399 0.02329 0.002547 0.6105
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6124 0.4962 0.1444 0.03381 0.2237 0.7874
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3619 0.01211 0.09390 0.1183 0.3847
Q(ilm)
2.92E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2422	0.2552	0	0.1184	0.1075	0.003125	0.006289	0.01580	0.2515

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.30 874.8 0.05708 0.3029 0.7419 0.02328 0.002552 0.6109
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6123 0.4962 0.1448 0.03401 0.2239 0.7869
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3630 0.01208 0.09284 0.1190 0.3842
Q(ilm)
2.90E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2422	0.2553	0	0.1191	0.1065	0.003089	0.006294	0.01589	0.2516

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.36 875.4 0.05684 0.3032 0.7439 0.02326 0.002557 0.6113
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6123 0.4962 0.1452 0.03421 0.2241 0.7864
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3640 0.01204 0.09179 0.1196 0.3838
Q(ilm)
2.89E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2423	0.2555	0	0.1197	0.1055	0.003054	0.006300	0.01598	0.2517

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.42 876.1 0.05660 0.3036 0.7459 0.02325 0.002563 0.6118
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6122 0.4962 0.1456 0.03442 0.2242 0.7859
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3650 0.01201 0.09075 0.1203 0.3833
Q(ilm)
2.88E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2423	0.2556	0	0.1203	0.1045	0.003019	0.006306	0.01607	0.2518

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.48 876.8 0.05636 0.3039 0.7479 0.02323 0.002568 0.6122
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6121 0.4963 0.1460 0.03462 0.2244 0.7854
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3660 0.01197 0.08972 0.1209 0.3829
Q(ilm)
2.87E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2424	0.2558	0	0.1210	0.1035	0.002984	0.006312	0.01615	0.2519

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.54 877.5 0.05613 0.3043 0.7499 0.02322 0.002574 0.6126
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6120 0.4963 0.1463 0.03481 0.2246 0.7849
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3670 0.01193 0.08871 0.1216 0.3825
Q(ilm)
2.85E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2425	0.2559	0	0.1216	0.1025	0.002950	0.006317	0.01623	0.2520

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 878.1 0.05590 0.3046 0.7518 0.02320 0.002579 0.6130
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6119 0.4963 0.1467 0.03501 0.2248 0.7844
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3680 0.01190 0.08770 0.1222 0.3821
Q(ilm)
2.84E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2425	0.2560	0	0.1223	0.1015	0.002915	0.006323	0.01632	0.2521

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.66 878.8 0.05566 0.3050 0.7538 0.02318 0.002584 0.6134
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6118 0.4963 0.1471 0.03521 0.2250 0.7840
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04943 0.3690 0.01186 0.08672 0.1228 0.3816
Q(ilm)

2.83E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2426	0.2562	0	0.1229	0.1005	0.002881	0.006328	0.01640	0.2522

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.72 879.5 0.05543 0.3053 0.7558 0.02316 0.002590 0.6138
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6117 0.4963 0.1475 0.03541 0.2252 0.7835
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04942 0.3700 0.01182 0.08574 0.1235 0.3812
Q(ilm)

2.82E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2427	0.2563	0	0.1236	0.09948	0.002847	0.006334	0.01648	0.2523

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.78 880.2 0.05520 0.3057 0.7577 0.02315 0.002596 0.6143
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6116 0.4964 0.1478 0.03560 0.2253 0.7830
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04942 0.3710 0.01179 0.08477 0.1241 0.3808
Q(ilm)

2.81E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2428	0.2564	0	0.1242	0.09847	0.002813	0.006339	0.01656	0.2524

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.84 880.8 0.05497 0.3060 0.7597 0.02313 0.002601 0.6147
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6115 0.4964 0.1482 0.03579 0.2255 0.7825
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04942 0.3719 0.01175 0.08382 0.1248 0.3804
Q(ilm)

2.80E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2428	0.2566	0	0.1249	0.09745	0.002779	0.006345	0.01664	0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.90 881.5 0.05475 0.3064 0.7616 0.02311 0.002607 0.6151
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6114 0.4964 0.1485 0.03599 0.2257 0.7820
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04941 0.3729 0.01171 0.08288 0.1254 0.3800
Q(ilm)

2.78E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2429	0.2567	0	0.1255	0.09644	0.002746	0.006350	0.01672	0.2526

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.96 882.2 0.05452 0.3068 0.7635 0.02309 0.002612 0.6155
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6113 0.4964 0.1489 0.03618 0.2259 0.7815
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04941 0.3739 0.01167 0.08195 0.1260 0.3796
Q(ilm)

2.77E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2430	0.2568	0	0.1262	0.09542	0.002713	0.006355	0.01679	0.2527

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00 882.6 0.05437 0.3070 0.7648 0.02308 0.002616 0.6158
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6112 0.4964 0.1491 0.03631 0.2260 0.7811
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04940 0.3745 0.01165 0.08134 0.1264 0.3793
Q(ilm)

2.77E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2431	0.2569	0	0.1266	0.09474	0.002690	0.006359	0.01684	0.2528

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.50 876.8 0.05621 0.3041 0.7493 0.02306 0.002608 0.6173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6122 0.1954 0.2198 0.06306 0.1934 0.1844
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5031 0.1456 0.03416 0.2291 0.7862 0.04957
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3668 0.01190 0.08872 0.1214 0.3865 2.938e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
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0.2039 0 0.2496 0.06746 0.05418 0.1518 0.003193 0.006276 0 0.2636
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, g, mu, ksp, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 871.2 0.05819 0.3014 0.7330 0.02315 0.002563 0.6136
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6128 0.5024 0.1418 0.03242 0.2273 0.7902
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04956 0.3585 0.01219 0.09737 0.1161 0.3900
Q(ilm)
3.05E-05

mode liq g mu ksp pl ilm ru ky q
0.2056 0.2487 0.06373 0.05474 0.1553 0.003485 0.006227 0 0.2622

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.02 871.4 0.05811 0.3015 0.7336 0.02315 0.002565 0.6137
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6128 0.5024 0.1420 0.03250 0.2274 0.7900
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04956 0.3588 0.01218 0.09701 0.1163 0.3899
Q(ilm)
3.04E-05

mode liq g mu ksp pl ilm ru ky q
0.2055 0.2487 0.06388 0.05471 0.1551 0.003473 0.006229 0 0.2623

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.04 871.7 0.05803 0.3016 0.7343 0.02315 0.002566 0.6139
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6128 0.5024 0.1422 0.03257 0.2274 0.7899
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04957 0.3592 0.01217 0.09665 0.1165 0.3897
Q(ilm)
3.04E-05

mode liq g mu ksp pl ilm ru ky q
0.2055 0.2488 0.06404 0.05469 0.1550 0.003461 0.006231 0 0.2624

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.06 871.9 0.05795 0.3017 0.7349 0.02314 0.002568 0.6140
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6128 0.5025 0.1423 0.03264 0.2275 0.7897
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04957 0.3595 0.01216 0.09628 0.1167 0.3896

Q(ilm)

3.03E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2054	0.2488	0.06419	0.05466	0.1548	0.003449	0.006233	0	0.2624

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.08 872.1 0.05786 0.3018 0.7356 0.02314 0.002570 0.6142

h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6127 0.5025 0.1425 0.03271 0.2276 0.7895

na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04957 0.3598 0.01215 0.09592 0.1169 0.3894

Q(ilm)

3.03E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2053	0.2489	0.06435	0.05464	0.1547	0.003437	0.006235	0	0.2625

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.10 872.3 0.05778 0.3019 0.7363 0.02314 0.002572 0.6143

h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6127 0.5025 0.1426 0.03278 0.2277 0.7894

na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04957 0.3602 0.01213 0.09557 0.1172 0.3893

Q(ilm)

3.02E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2052	0.2489	0.06450	0.05461	0.1546	0.003425	0.006237	0	0.2625

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.12 872.6 0.05770 0.3020 0.7369 0.02313 0.002574 0.6145

h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6127 0.5026 0.1428 0.03285 0.2277 0.7892

na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04957 0.3605 0.01212 0.09521 0.1174 0.3891

Q(ilm)

3.02E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q
	0.2052	0.2489	0.06465	0.05459	0.1544	0.003414	0.006239	0	0.2626

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.14 872.8 0.05762 0.3021 0.7376 0.02313 0.002575 0.6146

h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6127 0.5026 0.1430 0.03292 0.2278 0.7891

na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04957 0.3609 0.01211 0.09485 0.1176 0.3890

Q(ilm)

3.02E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q	
	0.2051	0.2490	0.06480	0.05456	0.1543	0.003402	0.006241	0	0.2626	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.16 873.0 0.05754 0.3022 0.7382 0.02312 0.002577 0.6147

h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6127 0.5026 0.1431 0.03299 0.2279 0.7889

na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04957 0.3612 0.01210 0.09450 0.1178 0.3888

Q(ilm)

3.01E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q	
	0.2050	0.2490	0.06496	0.05454	0.1541	0.003390	0.006243	0	0.2627	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.18 873.2 0.05746 0.3023 0.7389 0.02312 0.002579 0.6149

h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6126 0.5026 0.1433 0.03306 0.2279 0.7887

na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04957 0.3615 0.01209 0.09414 0.1180 0.3887

Q(ilm)

3.01E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q	
	0.2050	0.2490	0.06511	0.05452	0.1540	0.003378	0.006245	0	0.2628	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.20 873.5 0.05738 0.3024 0.7396 0.02312 0.002581 0.6150

h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6126 0.5027 0.1434 0.03313 0.2280 0.7886

na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04957 0.3619 0.01208 0.09379 0.1182 0.3886

Q(ilm)

3.00E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q	
	0.2049	0.2491	0.06526	0.05449	0.1539	0.003366	0.006247	0	0.2628	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.22 873.7 0.05730 0.3026 0.7402 0.02311 0.002583 0.6152

h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6126 0.5027 0.1436 0.03320 0.2281 0.7884

na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04957 0.3622 0.01207 0.09344 0.1184 0.3884

Q(ilm)

3.00E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2048	0.2491	0.06541	0.05447	0.1537	0.003355	0.006249	0	0.2629		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.24	873.9	0.05722	0.3027	0.7409	0.02311	0.002584	0.6153				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6126	0.5027	0.1437	0.03327	0.2281	0.7882					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04957	0.3625	0.01205	0.09309	0.1187	0.3883					
	Q(ilm)										

2.99E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2047	0.2491	0.06556	0.05445	0.1536	0.003343	0.006251	0	0.2629		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.26	874.1	0.05714	0.3028	0.7415	0.02311	0.002586	0.6155				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6125	0.5027	0.1439	0.03334	0.2282	0.7881					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04957	0.3629	0.01204	0.09274	0.1189	0.3881					
	Q(ilm)										

2.99E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2047	0.2492	0.06571	0.05443	0.1534	0.003331	0.006253	0	0.2630		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.28	874.4	0.05706	0.3029	0.7422	0.02310	0.002588	0.6156				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6125	0.5028	0.1440	0.03341	0.2283	0.7879					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04957	0.3632	0.01203	0.09240	0.1191	0.3880					
	Q(ilm)										

2.98E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2046	0.2492	0.06586	0.05440	0.1533	0.003319	0.006255	0	0.2630		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.30	874.6	0.05698	0.3030	0.7429	0.02310	0.002590	0.6158				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6125	0.5028	0.1442	0.03348	0.2284	0.7878					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04957	0.3635	0.01202	0.09205	0.1193	0.3878					
	Q(ilm)										

2.98E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2045	0.2493	0.06601	0.05438	0.1532	0.003308	0.006257	0	0.2631		

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.32    874.8 0.05690 0.3031 0.7435 0.02310 0.002592 0.6159
        h2o(L)  x(g)  z(g)  f(g) fe(mu)  y(mu)
        0.6125 0.5028 0.1443 0.03355 0.2284 0.7876
        na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
        0.04957 0.3639 0.01201 0.09171 0.1195 0.3877
        Q(ilm)
2.98E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2045 0.2493 0.06616 0.05436 0.1530 0.003296 0.006259 0 0.2631

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.34    875.0 0.05683 0.3032 0.7442 0.02309 0.002593 0.6161
        h2o(L)  x(g)  z(g)  f(g) fe(mu)  y(mu)
        0.6124 0.5029 0.1445 0.03362 0.2285 0.7874
        na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
        0.04957 0.3642 0.01200 0.09137 0.1197 0.3876
        Q(ilm)
2.97E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2044 0.2493 0.06631 0.05434 0.1529 0.003284 0.006261 0 0.2632

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.36    875.3 0.05675 0.3033 0.7448 0.02309 0.002595 0.6162
        h2o(L)  x(g)  z(g)  f(g) fe(mu)  y(mu)
        0.6124 0.5029 0.1446 0.03369 0.2286 0.7873
        na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
        0.04957 0.3645 0.01198 0.09103 0.1199 0.3874
        Q(ilm)
2.97E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2043 0.2494 0.06645 0.05432 0.1527 0.003273 0.006263 0 0.2633

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.38    875.5 0.05667 0.3034 0.7455 0.02308 0.002597 0.6164
        h2o(L)  x(g)  z(g)  f(g) fe(mu)  y(mu)
        0.6124 0.5029 0.1448 0.03376 0.2286 0.7871
        na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
        0.04957 0.3649 0.01197 0.09069 0.1202 0.3873
        Q(ilm)
2.96E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2043 0.2494 0.06660 0.05430 0.1526 0.003261 0.006265 0 0.2633

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)

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19.40 875.7 0.05659 0.3036 0.7461 0.02308 0.002599 0.6165
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6124 0.5029 0.1449 0.03383 0.2287 0.7870
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04957 0.3652 0.01196 0.09035 0.1204 0.3871
Q(ilm)

2.96E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2042	0.2494	0.06675	0.05428	0.1525	0.003249	0.006267	0	0.2634		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.42 875.9 0.05651 0.3037 0.7468 0.02307 0.002601 0.6167
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6123 0.5030 0.1451 0.03390 0.2288 0.7868
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04957 0.3655 0.01195 0.09001 0.1206 0.3870
Q(ilm)

2.95E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2041	0.2495	0.06689	0.05426	0.1523	0.003238	0.006269	0	0.2634		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.44 876.2 0.05643 0.3038 0.7474 0.02307 0.002603 0.6168
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6123 0.5030 0.1452 0.03397 0.2289 0.7866
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04957 0.3658 0.01194 0.08968 0.1208 0.3869
Q(ilm)

2.95E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2041	0.2495	0.06704	0.05424	0.1522	0.003226	0.006271	0	0.2635		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.46 876.4 0.05635 0.3039 0.7481 0.02307 0.002605 0.6170
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6123 0.5030 0.1454 0.03404 0.2289 0.7865
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04957 0.3662 0.01193 0.08934 0.1210 0.3867
Q(ilm)

2.95E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2040	0.2495	0.06719	0.05422	0.1520	0.003215	0.006272	0	0.2635		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.48 876.6 0.05628 0.3040 0.7487 0.02306 0.002606 0.6171
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6123 0.5030 0.1455 0.03410 0.2290 0.7863
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04957 0.3665 0.01191 0.08901 0.1212 0.3866
Q(ilm)

2.94E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2040	0.2496	0.06733	0.05420	0.1519	0.003203	0.006274	0	0.2636		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.50 876.8 0.05620 0.3041 0.7494 0.02306 0.002608 0.6173
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6122 0.5031 0.1457 0.03417 0.2291 0.7861
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04957 0.3668 0.01190 0.08868 0.1214 0.3864
Q(ilm)

2.94E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2039	0.2496	0.06748	0.05418	0.1518	0.003192	0.006276	0	0.2636		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.52 877.0 0.05612 0.3042 0.7500 0.02305 0.002610 0.6174
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6122 0.5031 0.1458 0.03424 0.2291 0.7860
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04957 0.3672 0.01189 0.08835 0.1216 0.3863
Q(ilm)

2.93E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2038	0.2496	0.06762	0.05416	0.1516	0.003180	0.006278	0	0.2637		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.54 877.3 0.05604 0.3043 0.7507 0.02305 0.002612 0.6176
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6122 0.5031 0.1459 0.03431 0.2292 0.7858
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04956 0.3675 0.01188 0.08802 0.1218 0.3862
Q(ilm)

2.93E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2038	0.2497	0.06777	0.05414	0.1515	0.003169	0.006280	0	0.2637		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.56 877.5 0.05596 0.3045 0.7513 0.02304 0.002614 0.6177
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6121 0.5032 0.1461 0.03438 0.2293 0.7857
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)

0.04956 0.3678 0.01187 0.08769 0.1221 0.3860

Q(ilm)

2.93E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2037	0.2497	0.06791	0.05412	0.1514	0.003157	0.006282	0	0.2638		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.58 877.7 0.05589 0.3046 0.7520 0.02304 0.002616 0.6179
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6121 0.5032 0.1462 0.03445 0.2294 0.7855
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04956 0.3681 0.01185 0.08737 0.1223 0.3859
Q(ilm)

2.92E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2036	0.2497	0.06806	0.05410	0.1512	0.003146	0.006284	0	0.2638		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 877.9 0.05581 0.3047 0.7526 0.02304 0.002618 0.6180
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6121 0.5032 0.1464 0.03452 0.2294 0.7853
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04956 0.3685 0.01184 0.08704 0.1225 0.3858
Q(ilm)

2.92E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2036	0.2498	0.06820	0.05408	0.1511	0.003134	0.006286	0	0.2639		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.62 878.2 0.05573 0.3048 0.7533 0.02303 0.002619 0.6182
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6120 0.5032 0.1465 0.03459 0.2295 0.7852
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04956 0.3688 0.01183 0.08672 0.1227 0.3856
Q(ilm)

2.91E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2035	0.2498	0.06834	0.05406	0.1509	0.003123	0.006288	0	0.2639		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.64 878.4 0.05566 0.3049 0.7539 0.02303 0.002621 0.6183
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6120 0.5033 0.1466 0.03465 0.2296 0.7850
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04956 0.3691 0.01182 0.08640 0.1229 0.3855
Q(ilm)

2.91E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2035	0.2498	0.06849	0.05404	0.1508	0.003112	0.006289	0	0.2640		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.66	878.6	0.05558	0.3050	0.7546	0.02302	0.002623	0.6185				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6120	0.5033	0.1468	0.03472	0.2296	0.7848					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04956	0.3694	0.01181	0.08608	0.1231	0.3853					
	Q(ilm)										

2.91E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2034	0.2498	0.06863	0.05403	0.1507	0.003100	0.006291	0	0.2640		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.68	878.8	0.05550	0.3051	0.7552	0.02302	0.002625	0.6186				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6120	0.5033	0.1469	0.03479	0.2297	0.7847					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04956	0.3698	0.01179	0.08576	0.1233	0.3852					
	Q(ilm)										

2.90E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2033	0.2499	0.06877	0.05401	0.1505	0.003089	0.006293	0	0.2641		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.70	879.1	0.05543	0.3053	0.7559	0.02301	0.002627	0.6188				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6119	0.5033	0.1471	0.03486	0.2298	0.7845					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04956	0.3701	0.01178	0.08544	0.1235	0.3851					
	Q(ilm)										

2.90E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2033	0.2499	0.06891	0.05399	0.1504	0.003078	0.006295	0	0.2641		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.72	879.3	0.05535	0.3054	0.7565	0.02301	0.002629	0.6189				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6119	0.5034	0.1472	0.03493	0.2299	0.7844					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04956	0.3704	0.01177	0.08512	0.1237	0.3849					
	Q(ilm)										

2.89E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2032	0.2499	0.06905	0.05397	0.1503	0.003066	0.006297	0	0.2642		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.74	879.5	0.05527	0.3055	0.7571	0.02300	0.002631	0.6191				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6119	0.5034	0.1473	0.03500	0.2299	0.7842					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04955	0.3707	0.01176	0.08481	0.1239	0.3848					
	Q(ilm)										

2.89E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2032	0.2500	0.06919	0.05396	0.1501	0.003055	0.006299	0	0.2642		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.76	879.7	0.05520	0.3056	0.7578	0.02300	0.002633	0.6192				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6118	0.5034	0.1475	0.03506	0.2300	0.7840					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04955	0.3710	0.01174	0.08449	0.1242	0.3847					
	Q(ilm)										

2.89E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2031	0.2500	0.06933	0.05394	0.1500	0.003044	0.006300	0	0.2643		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.78	880.0	0.05512	0.3057	0.7584	0.02299	0.002635	0.6194				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6118	0.5034	0.1476	0.03513	0.2301	0.7839					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04955	0.3714	0.01173	0.08418	0.1244	0.3845					
	Q(ilm)										

2.88E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2030	0.2500	0.06947	0.05392	0.1498	0.003033	0.006302	0	0.2644		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
19.80	880.2	0.05505	0.3058	0.7591	0.02299	0.002637	0.6195				
	h2o(L)	x(g)	z(g)	f(g)	fe(mu)	y(mu)					
	0.6118	0.5035	0.1477	0.03520	0.2301	0.7837					
	na(mu)	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)					
	0.04955	0.3717	0.01172	0.08387	0.1246	0.3844					
	Q(ilm)										

2.88E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2030	0.2501	0.06961	0.05391	0.1497	0.003021	0.006304	0	0.2644		

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.82    880.4  0.05497  0.3060  0.7597  0.02298 0.002639 0.6197
          h2o(L)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.6117  0.5035  0.1479  0.03527  0.2302  0.7836
          na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
          0.04955 0.3720 0.01171 0.08356 0.1248 0.3843
          Q(ilm)
2.87E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2029 0.2501 0.06975 0.05389 0.1496 0.003010 0.006306 0 0.2645

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.84    880.6  0.05489  0.3061  0.7603  0.02298 0.002640 0.6198
          h2o(L)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.6117  0.5035  0.1480  0.03533  0.2303  0.7834
          na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
          0.04955 0.3723 0.01169 0.08325 0.1250 0.3841
          Q(ilm)
2.87E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2029 0.2501 0.06989 0.05388 0.1494 0.002999 0.006308 0 0.2645

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.86    880.9  0.05482  0.3062  0.7610  0.02297 0.002642 0.6200
          h2o(L)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.6117  0.5035  0.1481  0.03540  0.2304  0.7832
          na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
          0.04954 0.3726 0.01168 0.08294 0.1252 0.3840
          Q(ilm)
2.87E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2028 0.2501 0.07003 0.05386 0.1493 0.002988 0.006310 0 0.2646

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.88    881.1  0.05474  0.3063  0.7616  0.02297 0.002644 0.6201
          h2o(L)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
          0.6116  0.5036  0.1483  0.03547  0.2304  0.7831
          na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
          0.04954 0.3729 0.01167 0.08264 0.1254 0.3839
          Q(ilm)
2.86E-05

mode  liq  g  mu  ksp  pl  ilm  ru  ky  q
      0.2028 0.2502 0.07017 0.05384 0.1492 0.002977 0.006311 0 0.2646

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

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19.90 881.3 0.05467 0.3064 0.7623 0.02296 0.002646 0.6203
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6116 0.5036 0.1484 0.03554 0.2305 0.7829
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04954 0.3733 0.01166 0.08233 0.1256 0.3837
Q(ilm)

2.86E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2027	0.2502	0.07031	0.05383	0.1490	0.002965	0.006313	0	0.2646		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.92 881.5 0.05459 0.3066 0.7629 0.02296 0.002648 0.6204
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6115 0.5036 0.1485 0.03560 0.2306 0.7827
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04954 0.3736 0.01164 0.08203 0.1258 0.3836
Q(ilm)

2.85E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2027	0.2502	0.07045	0.05381	0.1489	0.002954	0.006315	0	0.2647		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.94 881.8 0.05452 0.3067 0.7635 0.02295 0.002650 0.6206
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6115 0.5036 0.1487 0.03567 0.2307 0.7826
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04954 0.3739 0.01163 0.08172 0.1260 0.3835
Q(ilm)

2.85E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2026	0.2503	0.07058	0.05380	0.1487	0.002943	0.006317	0	0.2647		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.96 882.0 0.05444 0.3068 0.7642 0.02295 0.002652 0.6207
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6115 0.5037 0.1488 0.03574 0.2307 0.7824
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04954 0.3742 0.01162 0.08142 0.1262 0.3833
Q(ilm)

2.85E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2025	0.2503	0.07072	0.05378	0.1486	0.002932	0.006319	0	0.2648		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.98 882.2 0.05437 0.3069 0.7648 0.02294 0.002654 0.6209
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)

0.6114 0.5037 0.1489 0.03581 0.2308 0.7823
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04953 0.3745 0.01161 0.08112 0.1264 0.3832
Q(ilm)

2.84E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2025	0.2503	0.07086	0.05377	0.1485	0.002921	0.006320	0	0.2648		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00 882.4 0.05430 0.3070 0.7654 0.02294 0.002656 0.6210
h2o(L) x(g) z(g) f(g) fe(mu) y(mu)
0.6114 0.5037 0.1491 0.03587 0.2309 0.7821
na(mu) na(ksp) ca(ksp) ca(pl) k(pl) x(ilm)
0.04953 0.3748 0.01159 0.08082 0.1266 0.3831
Q(ilm)

2.84E-05

mode	liq	g	mu	ksp	pl	ilm	ru	ky	q		
	0.2024	0.2504	0.07099	0.05376	0.1483	0.002910	0.006322	0	0.2649		

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : bi, cd, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.00 640.2 0.4260 0.3417 0.03390 0.07414 0.2710 0.2668
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7738 0.7671 0.02262 0.001543 0.2666 0.004622
x(ilm) Q(ilm)
0.7583 0.6661

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2287	0	0.03073	0.3124	0.01334	0.02517	0.3491	0.04054

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.02 641.9 0.4258 0.3427 0.03393 0.07464 0.2697 0.2670
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7739 0.7663 0.02256 0.001559 0.2666 0.004724
x(ilm) Q(ilm)
0.7578 0.6647

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2286	0	0.03093	0.3125	0.01331	0.02506	0.3491	0.04057

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.04 643.6 0.4257 0.3438 0.03397 0.07515 0.2684 0.2673

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7740 0.7655 0.02250 0.001574 0.2666 0.004828
x(ilm) Q(ilm)
0.7573 0.6633

mode bi cd g pl ilm ky q H2O
0.2285 0 0.03113 0.3125 0.01328 0.02494 0.3491 0.04059

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.06 645.3 0.4256 0.3448 0.03400 0.07565 0.2672 0.2676
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7741 0.7647 0.02244 0.001590 0.2665 0.004935
x(ilm) Q(ilm)
0.7567 0.6618

mode bi cd g pl ilm ky q H2O
0.2284 0 0.03133 0.3125 0.01325 0.02483 0.3491 0.04061

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.08 647.0 0.4255 0.3458 0.03404 0.07616 0.2659 0.2679
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7742 0.7639 0.02238 0.001606 0.2665 0.005043
x(ilm) Q(ilm)
0.7562 0.6604

mode bi cd g pl ilm ky q H2O
0.2282 0 0.03152 0.3125 0.01322 0.02472 0.3491 0.04063

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.10 648.7 0.4253 0.3469 0.03407 0.07667 0.2647 0.2682
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7744 0.7631 0.02232 0.001622 0.2665 0.005153
x(ilm) Q(ilm)
0.7556 0.6589

mode bi cd g pl ilm ky q H2O
0.2281 0 0.03172 0.3126 0.01319 0.02461 0.3491 0.04066

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.12 650.4 0.4252 0.3479 0.03410 0.07718 0.2634 0.2684
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7745 0.7623 0.02226 0.001638 0.2664 0.005266
x(ilm) Q(ilm)
0.7551 0.6574

mode bi cd g pl ilm ky q H2O
0.2280 0 0.03192 0.3126 0.01316 0.02450 0.3491 0.04068

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.14 652.1 0.4251 0.3489 0.03414 0.07769 0.2622 0.2687

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7746 0.7615 0.02220 0.001654 0.2664 0.005380
x(ilm) Q(ilm)
0.7545 0.6559

mode bi cd g pl ilm ky q H2O
0.2279 0 0.03212 0.3126 0.01312 0.02439 0.3491 0.04070

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.16 653.8 0.4250 0.3499 0.03417 0.07820 0.2610 0.2690
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7747 0.7607 0.02214 0.001671 0.2663 0.005497
x(ilm) Q(ilm)
0.7540 0.6544

mode bi cd g pl ilm ky q H2O
0.2278 0 0.03232 0.3127 0.01309 0.02428 0.3491 0.04073

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.18 655.5 0.4249 0.3509 0.03420 0.07872 0.2597 0.2693
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7748 0.7599 0.02208 0.001687 0.2663 0.005616
x(ilm) Q(ilm)
0.7534 0.6529

mode bi cd g pl ilm ky q H2O
0.2277 0 0.03252 0.3127 0.01306 0.02417 0.3491 0.04075

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.20 657.2 0.4247 0.3519 0.03424 0.07923 0.2585 0.2696
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7749 0.7591 0.02202 0.001704 0.2662 0.005737
x(ilm) Q(ilm)
0.7528 0.6514

mode bi cd g pl ilm ky q H2O
0.2276 0 0.03273 0.3127 0.01303 0.02406 0.3491 0.04078

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.22 659.0 0.4246 0.3529 0.03427 0.07975 0.2573 0.2698
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7750 0.7584 0.02196 0.001721 0.2662 0.005861
x(ilm) Q(ilm)
0.7523 0.6499

mode bi cd g pl ilm ky q H2O
0.2274 0 0.03293 0.3128 0.01300 0.02395 0.3491 0.04080

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.24 660.7 0.4245 0.3539 0.03430 0.08026 0.2561 0.2701

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7751 0.7576 0.02191 0.001738 0.2662 0.005987
x(ilm) Q(ilm)
0.7517 0.6483

mode bi cd g pl ilm ky q H2O
0.2273 0 0.03313 0.3128 0.01297 0.02384 0.3491 0.04083

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.26 662.4 0.4244 0.3549 0.03434 0.08078 0.2549 0.2704
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7752 0.7568 0.02185 0.001755 0.2661 0.006115
x(ilm) Q(ilm)
0.7511 0.6467

mode bi cd g pl ilm ky q H2O
0.2272 0 0.03334 0.3128 0.01294 0.02374 0.3491 0.04085

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.28 664.1 0.4242 0.3558 0.03437 0.08130 0.2537 0.2707
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7753 0.7560 0.02179 0.001772 0.2661 0.006246
x(ilm) Q(ilm)
0.7505 0.6452

mode bi cd g pl ilm ky q H2O
0.2271 0 0.03354 0.3129 0.01291 0.02363 0.3491 0.04088

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.30 665.8 0.4241 0.3568 0.03440 0.08182 0.2525 0.2710
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7754 0.7552 0.02174 0.001789 0.2660 0.006379
x(ilm) Q(ilm)
0.7500 0.6436

mode bi cd g pl ilm ky q H2O
0.2270 0 0.03374 0.3129 0.01288 0.02352 0.3491 0.04090

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.32 667.6 0.4240 0.3578 0.03443 0.08234 0.2514 0.2713
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7756 0.7544 0.02168 0.001806 0.2660 0.006515
x(ilm) Q(ilm)
0.7494 0.6420

mode bi cd g pl ilm ky q H2O
0.2268 0 0.03395 0.3130 0.01285 0.02342 0.3491 0.04093

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.34 669.3 0.4239 0.3587 0.03447 0.08286 0.2502 0.2715

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7757 0.7537 0.02163 0.001824 0.2659 0.006653
x(ilm) Q(ilm)
0.7488 0.6403

mode bi cd g pl ilm ky q H2O
0.2267 0 0.03416 0.3130 0.01282 0.02331 0.3491 0.04095

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.36 671.0 0.4238 0.3596 0.03450 0.08338 0.2490 0.2718
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7758 0.7529 0.02157 0.001841 0.2659 0.006794
x(ilm) Q(ilm)
0.7482 0.6387

mode bi cd g pl ilm ky q H2O
0.2266 0 0.03436 0.3130 0.01279 0.02320 0.3491 0.04098

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.38 672.7 0.4236 0.3606 0.03453 0.08390 0.2479 0.2721
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7759 0.7521 0.02152 0.001859 0.2658 0.006937
x(ilm) Q(ilm)
0.7476 0.6370

mode bi cd g pl ilm ky q H2O
0.2264 0 0.03457 0.3131 0.01276 0.02310 0.3491 0.04100

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.40 674.5 0.4235 0.3615 0.03456 0.08443 0.2467 0.2724
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7760 0.7513 0.02146 0.001877 0.2658 0.007083
x(ilm) Q(ilm)
0.7470 0.6354

mode bi cd g pl ilm ky q H2O
0.2263 0 0.03478 0.3131 0.01272 0.02299 0.3490 0.04103

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.42 676.2 0.4234 0.3624 0.03459 0.08495 0.2456 0.2727
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7761 0.7506 0.02141 0.001895 0.2657 0.007232
x(ilm) Q(ilm)
0.7464 0.6337

mode bi cd g pl ilm ky q H2O
0.2262 0 0.03499 0.3132 0.01269 0.02289 0.3490 0.04106

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.44 677.9 0.4233 0.3634 0.03463 0.08548 0.2445 0.2729

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7762 0.7498 0.02135 0.001913 0.2657 0.007383
x(ilm) Q(ilm)
0.7458 0.6320

mode bi cd g pl ilm ky q H2O
0.2260 0 0.03520 0.3132 0.01266 0.02278 0.3490 0.04108

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.46 679.7 0.4231 0.3643 0.03466 0.08600 0.2433 0.2732
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7763 0.7490 0.02130 0.001932 0.2656 0.007538
x(ilm) Q(ilm)
0.7452 0.6303

mode bi cd g pl ilm ky q H2O
0.2259 0 0.03541 0.3132 0.01263 0.02268 0.3490 0.04111

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.48 681.4 0.4230 0.3652 0.03469 0.08653 0.2422 0.2735
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7764 0.7483 0.02125 0.001950 0.2656 0.007695
x(ilm) Q(ilm)
0.7446 0.6286

mode bi cd g pl ilm ky q H2O
0.2258 0 0.03562 0.3133 0.01260 0.02258 0.3490 0.04114

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.50 683.1 0.4229 0.3661 0.03472 0.08706 0.2411 0.2738
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7765 0.7475 0.02120 0.001968 0.2655 0.007854
x(ilm) Q(ilm)
0.7439 0.6268

mode bi cd g pl ilm ky q H2O
0.2256 0 0.03584 0.3133 0.01257 0.02247 0.3490 0.04116

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.52 684.9 0.4228 0.3670 0.03475 0.08758 0.2400 0.2741
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7766 0.7467 0.02115 0.001987 0.2655 0.008017
x(ilm) Q(ilm)
0.7433 0.6251

mode bi cd g pl ilm ky q H2O
0.2255 0 0.03605 0.3134 0.01254 0.02237 0.3490 0.04119

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.54 686.6 0.4227 0.3678 0.03478 0.08811 0.2389 0.2743

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7767 0.7459 0.02109 0.002006 0.2654 0.008183
x(ilm) Q(ilm)
0.7427 0.6233

mode bi cd g pl ilm ky q H2O
0.2254 0 0.03626 0.3134 0.01251 0.02227 0.3489 0.04122

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.56 688.3 0.4225 0.3687 0.03481 0.08864 0.2378 0.2746
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7768 0.7452 0.02104 0.002025 0.2654 0.008351
x(ilm) Q(ilm)
0.7421 0.6216

mode bi cd g pl ilm ky q H2O
0.2252 0 0.03648 0.3135 0.01248 0.02217 0.3489 0.04125

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.58 690.1 0.4224 0.3696 0.03485 0.08917 0.2367 0.2749
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7769 0.7444 0.02099 0.002044 0.2653 0.008523
x(ilm) Q(ilm)
0.7414 0.6198

mode bi cd g pl ilm ky q H2O
0.2251 0 0.03670 0.3135 0.01245 0.02206 0.3489 0.04128

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.60 691.8 0.4223 0.3705 0.03488 0.08970 0.2356 0.2752
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7770 0.7437 0.02094 0.002063 0.2652 0.008698
x(ilm) Q(ilm)
0.7408 0.6180

mode bi cd g pl ilm ky q H2O
0.2249 0 0.03691 0.3136 0.01242 0.02196 0.3489 0.04130

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.62 693.6 0.4222 0.3713 0.03491 0.09024 0.2346 0.2754
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7770 0.7429 0.02089 0.002082 0.2652 0.008876
x(ilm) Q(ilm)
0.7401 0.6161

mode bi cd g pl ilm ky q H2O
0.2248 0 0.03713 0.3136 0.01239 0.02186 0.3489 0.04133

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.64 695.3 0.4220 0.3722 0.03494 0.09077 0.2335 0.2757

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7771 0.7421 0.02084 0.002102 0.2651 0.009057
x(ilm) Q(ilm)
0.7395 0.6143

mode bi cd g pl ilm ky q H2O
0.2246 0 0.03735 0.3137 0.01236 0.02176 0.3489 0.04136

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.66 697.1 0.4219 0.3730 0.03497 0.09130 0.2325 0.2760
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7772 0.7414 0.02079 0.002121 0.2651 0.009241
x(ilm) Q(ilm)
0.7389 0.6124

mode bi cd g pl ilm ky q H2O
0.2245 0 0.03757 0.3137 0.01233 0.02166 0.3488 0.04139

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.68 698.8 0.4218 0.3739 0.03500 0.09183 0.2314 0.2763
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7773 0.7406 0.02075 0.002141 0.2650 0.009428
x(ilm) Q(ilm)
0.7382 0.6106

mode bi cd g pl ilm ky q H2O
0.2243 0 0.03779 0.3138 0.01230 0.02156 0.3488 0.04142

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.70 700.5 0.4216 0.3747 0.03503 0.09237 0.2304 0.2765
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7774 0.7399 0.02070 0.002161 0.2649 0.009619
x(ilm) Q(ilm)
0.7376 0.6087

mode bi cd g pl ilm ky q H2O
0.2242 0 0.03801 0.3138 0.01227 0.02146 0.3488 0.04145

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.72 702.3 0.4215 0.3755 0.03506 0.09290 0.2293 0.2768
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7775 0.7391 0.02065 0.002181 0.2649 0.009813
x(ilm) Q(ilm)
0.7369 0.6068

mode bi cd g pl ilm ky q H2O
0.2240 0 0.03824 0.3139 0.01224 0.02136 0.3488 0.04148

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.74 704.0 0.4214 0.3763 0.03509 0.09344 0.2283 0.2771

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7776 0.7383 0.02060 0.002201 0.2648 0.01001
x(ilm) Q(ilm)
0.7363 0.6049

mode bi cd g pl ilm ky q H2O
0.2239 0 0.03846 0.3140 0.01221 0.02126 0.3487 0.04151

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.76 705.8 0.4213 0.3772 0.03512 0.09397 0.2273 0.2774
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7777 0.7376 0.02055 0.002221 0.2647 0.01021
x(ilm) Q(ilm)
0.7356 0.6030

mode bi cd g pl ilm ky q H2O
0.2237 0 0.03869 0.3140 0.01218 0.02117 0.3487 0.04154

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.78 707.5 0.4211 0.3780 0.03515 0.09451 0.2262 0.2776
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7778 0.7368 0.02051 0.002241 0.2647 0.01042
x(ilm) Q(ilm)
0.7349 0.6010

mode bi cd g pl ilm ky q H2O
0.2235 0 0.03891 0.3141 0.01215 0.02107 0.3487 0.04157

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.80 709.3 0.4210 0.3788 0.03518 0.09505 0.2252 0.2779
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7779 0.7361 0.02046 0.002262 0.2646 0.01062
x(ilm) Q(ilm)
0.7343 0.5991

mode bi cd g pl ilm ky q H2O
0.2234 0 0.03914 0.3141 0.01212 0.02097 0.3487 0.04160

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.82 711.0 0.4209 0.3796 0.03521 0.09559 0.2242 0.2782
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7780 0.7353 0.02042 0.002282 0.2645 0.01084
x(ilm) Q(ilm)
0.7336 0.5971

mode bi cd g pl ilm ky q H2O
0.2232 0 0.03937 0.3142 0.01209 0.02087 0.3486 0.04163

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.84 712.8 0.4207 0.3804 0.03524 0.09612 0.2232 0.2784

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7781 0.7346 0.02037 0.002303 0.2645 0.01105
x(ilm) Q(ilm)
0.7329 0.5951

mode bi cd g pl ilm ky q H2O
0.2230 0 0.03960 0.3143 0.01206 0.02078 0.3486 0.04166

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.86 714.5 0.4206 0.3811 0.03527 0.09666 0.2222 0.2787
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7782 0.7338 0.02032 0.002324 0.2644 0.01127
x(ilm) Q(ilm)
0.7323 0.5931

mode bi cd g pl ilm ky q H2O
0.2229 0 0.03983 0.3143 0.01203 0.02068 0.3486 0.04170

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.88 716.3 0.4205 0.3819 0.03530 0.09720 0.2212 0.2790
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7783 0.7331 0.02028 0.002345 0.2643 0.01149
x(ilm) Q(ilm)
0.7316 0.5911

mode bi cd g pl ilm ky q H2O
0.2227 0 0.04006 0.3144 0.01200 0.02058 0.3485 0.04173

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.90 718.0 0.4203 0.3827 0.03533 0.09774 0.2202 0.2792
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7783 0.7323 0.02024 0.002366 0.2643 0.01172
x(ilm) Q(ilm)
0.7309 0.5890

mode bi cd g pl ilm ky q H2O
0.2225 0 0.04030 0.3145 0.01197 0.02049 0.3485 0.04176

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.92 719.8 0.4202 0.3835 0.03536 0.09828 0.2193 0.2795
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7784 0.7316 0.02019 0.002387 0.2642 0.01195
x(ilm) Q(ilm)
0.7302 0.5870

mode bi cd g pl ilm ky q H2O
0.2223 0 0.04053 0.3145 0.01194 0.02039 0.3485 0.04179

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.94 721.6 0.4201 0.3842 0.03539 0.09882 0.2183 0.2798

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7785 0.7308 0.02015 0.002409 0.2641 0.01218
x(ilm) Q(ilm)
0.7295 0.5849

mode bi cd g pl ilm ky q H2O
0.2222 0 0.04077 0.3146 0.01191 0.02030 0.3484 0.04183

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.96 723.3 0.4199 0.3850 0.03542 0.09936 0.2173 0.2800
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7786 0.7301 0.02010 0.002430 0.2640 0.01242
x(ilm) Q(ilm)
0.7289 0.5828

mode bi cd g pl ilm ky q H2O
0.2220 0 0.04101 0.3147 0.01188 0.02020 0.3484 0.04186

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.98 725.1 0.4198 0.3857 0.03545 0.09990 0.2164 0.2803
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7787 0.7293 0.02006 0.002452 0.2640 0.01267
x(ilm) Q(ilm)
0.7282 0.5807

mode bi cd g pl ilm ky q H2O
0.2218 0 0.04124 0.3147 0.01185 0.02011 0.3484 0.04189

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.00 726.8 0.4196 0.3865 0.03548 0.1004 0.2154 0.2805
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7788 0.7286 0.02002 0.002474 0.2639 0.01291
x(ilm) Q(ilm)
0.7275 0.5786

mode bi cd g pl ilm ky q H2O
0.2216 0 0.04148 0.3148 0.01183 0.02001 0.3483 0.04193

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.02 728.6 0.4195 0.3872 0.03551 0.1010 0.2145 0.2808
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7789 0.7279 0.01998 0.002496 0.2638 0.01316
x(ilm) Q(ilm)
0.7268 0.5765

mode bi cd g pl ilm ky q H2O
0.2214 0 0.04173 0.3149 0.01180 0.01992 0.3483 0.04196

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.04 730.4 0.4194 0.3879 0.03554 0.1015 0.2135 0.2811

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7790 0.7271 0.01993 0.002518 0.2637 0.01342
x(ilm) Q(ilm)
0.7261 0.5743

mode bi cd g pl ilm ky q H2O
0.2212 0 0.04197 0.3150 0.01177 0.01983 0.3482 0.04199

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.06 732.1 0.4192 0.3887 0.03557 0.1021 0.2126 0.2813
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7790 0.7264 0.01989 0.002540 0.2636 0.01368
x(ilm) Q(ilm)
0.7254 0.5722

mode bi cd g pl ilm ky q H2O
0.2210 0 0.04221 0.3150 0.01174 0.01973 0.3482 0.04203

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.08 733.9 0.4191 0.3894 0.03560 0.1026 0.2117 0.2816
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7791 0.7256 0.01985 0.002562 0.2636 0.01394
x(ilm) Q(ilm)
0.7247 0.5700

mode bi cd g pl ilm ky q H2O
0.2209 0 0.04246 0.3151 0.01171 0.01964 0.3482 0.04206

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.10 735.6 0.4189 0.3901 0.03563 0.1031 0.2108 0.2818
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7792 0.7249 0.01981 0.002584 0.2635 0.01421
x(ilm) Q(ilm)
0.7240 0.5678

mode bi cd g pl ilm ky q H2O
0.2207 0 0.04271 0.3152 0.01168 0.01955 0.3481 0.04210

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.12 737.4 0.4188 0.3908 0.03566 0.1037 0.2098 0.2821
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7793 0.7241 0.01977 0.002607 0.2634 0.01448
x(ilm) Q(ilm)
0.7233 0.5656

mode bi cd g pl ilm ky q H2O
0.2205 0 0.04295 0.3153 0.01165 0.01945 0.3481 0.04213

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.14 739.2 0.4186 0.3915 0.03569 0.1042 0.2089 0.2823

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7794 0.7234 0.01973 0.002630 0.2633 0.01476
x(ilm) Q(ilm)
0.7226 0.5633

mode bi cd g pl ilm ky q H2O
0.2203 0 0.04321 0.3154 0.01163 0.01936 0.3480 0.04217

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.16 740.9 0.4185 0.3922 0.03572 0.1048 0.2080 0.2826
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7795 0.7226 0.01969 0.002653 0.2632 0.01504
x(ilm) Q(ilm)
0.7219 0.5611

mode bi cd g pl ilm ky q H2O
0.2200 0 0.04346 0.3155 0.01160 0.01927 0.3480 0.04220

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.18 742.7 0.4183 0.3929 0.03575 0.1053 0.2071 0.2828
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7796 0.7219 0.01965 0.002676 0.2631 0.01532
x(ilm) Q(ilm)
0.7212 0.5588

mode bi cd g pl ilm ky q H2O
0.2198 0 0.04371 0.3155 0.01157 0.01918 0.3479 0.04224

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.20 744.5 0.4182 0.3936 0.03577 0.1059 0.2062 0.2831
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7796 0.7212 0.01961 0.002699 0.2630 0.01561
x(ilm) Q(ilm)
0.7205 0.5565

mode bi cd g pl ilm ky q H2O
0.2196 0 0.04397 0.3156 0.01154 0.01908 0.3479 0.04228

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.22 746.2 0.4180 0.3943 0.03580 0.1064 0.2053 0.2833
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7797 0.7204 0.01957 0.002722 0.2629 0.01591
x(ilm) Q(ilm)
0.7198 0.5542

mode bi cd g pl ilm ky q H2O
0.2194 0 0.04422 0.3157 0.01151 0.01899 0.3478 0.04232

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.24 748.0 0.4178 0.3950 0.03583 0.1070 0.2044 0.2835

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7798 0.7197 0.01953 0.002745 0.2629 0.01621
x(ilm) Q(ilm)
0.7191 0.5519

mode bi cd g pl ilm ky q H2O
0.2192 0 0.04448 0.3158 0.01149 0.01890 0.3478 0.04235

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.26 749.8 0.4177 0.3957 0.03586 0.1075 0.2035 0.2838
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7799 0.7189 0.01949 0.002769 0.2628 0.01651
x(ilm) Q(ilm)
0.7184 0.5495

mode bi cd g pl ilm ky q H2O
0.2190 0 0.04475 0.3159 0.01146 0.01881 0.3477 0.04239

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.28 751.6 0.4175 0.3964 0.03589 0.1080 0.2027 0.2840
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7800 0.7182 0.01946 0.002792 0.2627 0.01682
x(ilm) Q(ilm)
0.7177 0.5472

mode bi cd g pl ilm ky q H2O
0.2188 0 0.04501 0.3160 0.01143 0.01872 0.3477 0.04243

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.30 753.4 0.4174 0.3970 0.03592 0.1086 0.2018 0.2843
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7801 0.7174 0.01942 0.002816 0.2626 0.01714
x(ilm) Q(ilm)
0.7169 0.5448

mode bi cd g pl ilm ky q H2O
0.2185 0 0.04527 0.3161 0.01141 0.01863 0.3476 0.04247

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.32 755.1 0.4172 0.3977 0.03595 0.1091 0.2009 0.2845
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7801 0.7167 0.01938 0.002840 0.2625 0.01746
x(ilm) Q(ilm)
0.7162 0.5424

mode bi cd g pl ilm ky q H2O
0.2183 0 0.04554 0.3162 0.01138 0.01853 0.3476 0.04251

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.34 756.9 0.4170 0.3984 0.03598 0.1097 0.2001 0.2847

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7802 0.7159 0.01934 0.002864 0.2624 0.01778
x(ilm) Q(ilm)
0.7155 0.5400

mode bi cd g pl ilm ky q H2O
0.2181 0 0.04581 0.3163 0.01135 0.01844 0.3475 0.04254

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.36 758.7 0.4169 0.3990 0.03600 0.1102 0.1992 0.2849
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7803 0.7152 0.01931 0.002888 0.2623 0.01811
x(ilm) Q(ilm)
0.7148 0.5376

mode bi cd g pl ilm ky q H2O
0.2178 0 0.04608 0.3164 0.01133 0.01835 0.3474 0.04258

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.38 760.5 0.4167 0.3997 0.03603 0.1108 0.1984 0.2852
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7804 0.7144 0.01927 0.002912 0.2622 0.01845
x(ilm) Q(ilm)
0.7141 0.5352

mode bi cd g pl ilm ky q H2O
0.2176 0 0.04635 0.3165 0.01130 0.01826 0.3474 0.04262

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.40 762.2 0.4165 0.4003 0.03606 0.1113 0.1975 0.2854
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7805 0.7137 0.01923 0.002937 0.2621 0.01879
x(ilm) Q(ilm)
0.7134 0.5327

mode bi cd g pl ilm ky q H2O
0.2174 0 0.04662 0.3166 0.01127 0.01818 0.3473 0.04266

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.42 764.0 0.4163 0.4009 0.03609 0.1119 0.1967 0.2856
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7805 0.7130 0.01920 0.002961 0.2619 0.01914
x(ilm) Q(ilm)
0.7127 0.5302

mode bi cd g pl ilm ky q H2O
0.2171 0 0.04690 0.3167 0.01125 0.01809 0.3473 0.04271

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.44 765.8 0.4162 0.4016 0.03612 0.1124 0.1959 0.2858

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7806 0.7122 0.01916 0.002986 0.2618 0.01949
x(ilm) Q(ilm)
0.7120 0.5277

mode bi cd g pl ilm ky q H2O
0.2169 0 0.04717 0.3168 0.01122 0.01800 0.3472 0.04275

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.46 767.5 0.4160 0.4022 0.03615 0.1129 0.1950 0.2861
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7807 0.7115 0.01913 0.003011 0.2617 0.01985
x(ilm) Q(ilm)
0.7113 0.5252

mode bi cd g pl ilm ky q H2O
0.2166 0 0.04745 0.3169 0.01120 0.01791 0.3471 0.04279

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.48 769.3 0.4158 0.4028 0.03617 0.1135 0.1942 0.2863
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7808 0.7107 0.01910 0.003035 0.2616 0.02021
x(ilm) Q(ilm)
0.7105 0.5227

mode bi cd g pl ilm ky q H2O
0.2164 0 0.04773 0.3170 0.01117 0.01782 0.3471 0.04283

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.50 771.1 0.4156 0.4034 0.03620 0.1140 0.1934 0.2865
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7809 0.7100 0.01906 0.003060 0.2615 0.02058
x(ilm) Q(ilm)
0.7098 0.5202

mode bi cd g pl ilm ky q H2O
0.2161 0 0.04802 0.3171 0.01115 0.01774 0.3470 0.04287

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.52 772.9 0.4154 0.4040 0.03623 0.1146 0.1926 0.2867
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7810 0.7093 0.01903 0.003085 0.2614 0.02095
x(ilm) Q(ilm)
0.7091 0.5176

mode bi cd g pl ilm ky q H2O
0.2159 0 0.04830 0.3172 0.01112 0.01765 0.3469 0.04291

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.54 774.6 0.4152 0.4046 0.03626 0.1151 0.1918 0.2869

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7811 0.7085 0.01900 0.003111 0.2613 0.02134
x(ilm) Q(ilm)
0.7084 0.5151

mode bi cd g pl ilm ky q H2O
0.2156 0 0.04859 0.3174 0.01110 0.01756 0.3468 0.04296

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.56 776.4 0.4150 0.4051 0.03629 0.1157 0.1910 0.2871
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7811 0.7078 0.01896 0.003136 0.2612 0.02172
x(ilm) Q(ilm)
0.7077 0.5125

mode bi cd g pl ilm ky q H2O
0.2153 0 0.04888 0.3175 0.01107 0.01748 0.3468 0.04300

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.58 778.1 0.4148 0.4057 0.03632 0.1162 0.1903 0.2873
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7812 0.7070 0.01893 0.003161 0.2610 0.02212
x(ilm) Q(ilm)
0.7070 0.5099

mode bi cd g pl ilm ky q H2O
0.2151 0 0.04917 0.3176 0.01105 0.01739 0.3467 0.04304

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.60 779.9 0.4147 0.4063 0.03634 0.1168 0.1895 0.2875
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7813 0.7063 0.01890 0.003187 0.2609 0.02251
x(ilm) Q(ilm)
0.7063 0.5073

mode bi cd g pl ilm ky q H2O
0.2148 0 0.04946 0.3177 0.01102 0.01731 0.3466 0.04309

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.62 781.7 0.4145 0.4068 0.03637 0.1173 0.1887 0.2877
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7814 0.7056 0.01887 0.003212 0.2608 0.02292
x(ilm) Q(ilm)
0.7056 0.5047

mode bi cd g pl ilm ky q H2O
0.2145 0 0.04975 0.3179 0.01100 0.01722 0.3465 0.04313

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.64 783.4 0.4143 0.4074 0.03640 0.1178 0.1879 0.2879

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7815 0.7048 0.01884 0.003238 0.2607 0.02333
x(ilm) Q(ilm)
0.7049 0.5021

mode bi cd g pl ilm ky q H2O
0.2142 0 0.05005 0.3180 0.01098 0.01714 0.3465 0.04318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.66 785.2 0.4140 0.4079 0.03643 0.1184 0.1872 0.2881
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7816 0.7041 0.01881 0.003264 0.2605 0.02375
x(ilm) Q(ilm)
0.7042 0.4994

mode bi cd g pl ilm ky q H2O
0.2139 0 0.05035 0.3181 0.01095 0.01705 0.3464 0.04322

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.68 786.9 0.4138 0.4085 0.03645 0.1189 0.1864 0.2883
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7817 0.7033 0.01878 0.003290 0.2604 0.02417
x(ilm) Q(ilm)
0.7035 0.4967

mode bi cd g pl ilm ky q H2O
0.2136 0 0.05065 0.3182 0.01093 0.01697 0.3463 0.04327

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.70 788.7 0.4136 0.4090 0.03648 0.1195 0.1857 0.2885
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7818 0.7026 0.01875 0.003316 0.2603 0.02460
x(ilm) Q(ilm)
0.7028 0.4941

mode bi cd g pl ilm ky q H2O
0.2134 0 0.05096 0.3184 0.01091 0.01688 0.3462 0.04332

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.72 790.4 0.4134 0.4095 0.03651 0.1200 0.1850 0.2887
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7819 0.7019 0.01872 0.003342 0.2601 0.02504
x(ilm) Q(ilm)
0.7021 0.4914

mode bi cd g pl ilm ky q H2O
0.2131 0 0.05126 0.3185 0.01088 0.01680 0.3461 0.04336

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.74 792.2 0.4132 0.4100 0.03654 0.1205 0.1842 0.2888

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7820 0.7011 0.01869 0.003369 0.2600 0.02548
x(ilm) Q(ilm)
0.7014 0.4887

mode bi cd g pl ilm ky q H2O
0.2128 0 0.05157 0.3186 0.01086 0.01672 0.3460 0.04341

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.76 793.9 0.4130 0.4105 0.03657 0.1211 0.1835 0.2890
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7821 0.7004 0.01866 0.003395 0.2599 0.02594
x(ilm) Q(ilm)
0.7008 0.4859

mode bi cd g pl ilm ky q H2O
0.2124 0 0.05188 0.3188 0.01084 0.01664 0.3460 0.04346

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.78 795.7 0.4128 0.4111 0.03659 0.1216 0.1828 0.2892
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7822 0.6996 0.01863 0.003421 0.2597 0.02639
x(ilm) Q(ilm)
0.7001 0.4832

mode bi cd g pl ilm ky q H2O
0.2121 0 0.05220 0.3189 0.01082 0.01655 0.3459 0.04351

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.80 797.4 0.4125 0.4115 0.03662 0.1222 0.1821 0.2893
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7822 0.6989 0.01861 0.003448 0.2596 0.02686
x(ilm) Q(ilm)
0.6994 0.4805

mode bi cd g pl ilm ky q H2O
0.2118 0 0.05251 0.3191 0.01080 0.01647 0.3458 0.04355

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.82 799.2 0.4123 0.4120 0.03665 0.1227 0.1814 0.2895
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7823 0.6981 0.01858 0.003475 0.2594 0.02733
x(ilm) Q(ilm)
0.6987 0.4777

mode bi cd g pl ilm ky q H2O
0.2115 0 0.05283 0.3192 0.01077 0.01639 0.3457 0.04360

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.84 800.9 0.4121 0.4125 0.03668 0.1232 0.1807 0.2897

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7824 0.6974 0.01855 0.003501 0.2593 0.02781
x(ilm) Q(ilm)
0.6981 0.4749

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2112	0	0.05315	0.3194	0.01075	0.01631	0.3456	0.04365

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.86 802.7 0.4118 0.4130 0.03670 0.1238 0.1800 0.2898
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7825 0.6967 0.01853 0.003528 0.2591 0.02829
x(ilm) Q(ilm)
0.6974 0.4721

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2109	0	0.05348	0.3195	0.01073	0.01623	0.3455	0.04370

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.88 804.4 0.4116 0.4134 0.03673 0.1243 0.1793 0.2900
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7826 0.6959 0.01850 0.003555 0.2590 0.02879
x(ilm) Q(ilm)
0.6967 0.4693

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2105	0	0.05380	0.3197	0.01071	0.01615	0.3454	0.04375

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.90 806.1 0.4114 0.4139 0.03676 0.1249 0.1786 0.2901
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7827 0.6952 0.01848 0.003582 0.2588 0.02929
x(ilm) Q(ilm)
0.6961 0.4665

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2102	0	0.05413	0.3198	0.01069	0.01607	0.3453	0.04381

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.92 807.9 0.4111 0.4144 0.03679 0.1254 0.1779 0.2903
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7828 0.6944 0.01845 0.003610 0.2587 0.02980
x(ilm) Q(ilm)
0.6954 0.4637

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2099	0	0.05446	0.3200	0.01067	0.01599	0.3452	0.04386

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.94 809.6 0.4109 0.4148 0.03681 0.1259 0.1773 0.2904

h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7829 0.6937 0.01843 0.003637 0.2585 0.03031
x(ilm) Q(ilm)
0.6948 0.4609

mode bi cd g pl ilm ky q H2O
0.2095 0 0.05480 0.3202 0.01065 0.01591 0.3451 0.04391

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.96 811.3 0.4106 0.4152 0.03684 0.1265 0.1766 0.2906
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7830 0.6929 0.01840 0.003664 0.2584 0.03084
x(ilm) Q(ilm)
0.6941 0.4580

mode bi cd g pl ilm ky q H2O
0.2092 0 0.05514 0.3203 0.01063 0.01583 0.3450 0.04396

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.98 813.1 0.4103 0.4157 0.03687 0.1270 0.1760 0.2907
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7831 0.6922 0.01838 0.003692 0.2582 0.03137
x(ilm) Q(ilm)
0.6935 0.4552

mode bi cd g pl ilm ky q H2O
0.2088 0 0.05548 0.3205 0.01062 0.01575 0.3449 0.04402

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.00 814.8 0.4101 0.4161 0.03690 0.1276 0.1753 0.2908
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7833 0.6914 0.01836 0.003719 0.2580 0.03191
x(ilm) Q(ilm)
0.6929 0.4523

mode bi cd g pl ilm ky q H2O
0.2084 0 0.05582 0.3207 0.01060 0.01567 0.3447 0.04407

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.56 688.6 0.1069 0.2158 0.8620 0.004834 0.001448 0.7007
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6629 0.4225 0.3688 0.03482 0.08871 0.2377
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2746 0.7768 0.7451 0.02104 0.002027 0.2653
k(pl) x(ilm) Q(ilm)
0.008372 0.7420 0.6213

mode liq bi cd g pl ilm ky q H2O
0 0.2252 0 0.03651 0.3135 0.01248 0.02215 0.3489 0.04125
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.71 693.3 0.1078 0.2123 0.8572 0.005728 0.001524 0.6922
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6644 0.4058 0.3612 0.03579 0.09132 0.2415
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2637 0.7813 0.7325 0.02408 0.002218 0.3076
k(pl) x(ilm) Q(ilm)
0.007491 0.7441 0.6222

mode liq bi cd g pl ilm ky q H2O
0.1295 0.2118 0 0.04599 0.2637 0.01269 0.01981 0.3165 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 619.1 0.09718 0.1643 0.9222 0.0034220 0.0007070 0.6714
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7302 0.4217 0.3200 0.03387 0.06517 0.2945
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2589 0.8113 0.7754 0.02803 0.001471 0.2971
k(pl) x(ilm) Q(ilm)
0.002698 0.7689 0.6884

mode liq bi cd g pl ilm ky q
0.1009 0.2255 0 0.03092 0.2768 0.01398 0.02618 0.3257

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.06 624.9 0.09779 0.1678 0.9182 0.0035630 0.0007528 0.6734
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7256 0.4207 0.3239 0.03402 0.06703 0.2897
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2594 0.8096 0.7722 0.02769 0.001521 0.2978
k(pl) x(ilm) Q(ilm)
0.002935 0.7672 0.6840

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1027	0.2248	0	0.03188	0.2759	0.01388	0.02569	0.3252

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.12 630.8 0.09844 0.1714 0.9140 0.0037120.0008019 0.6755
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7209 0.4197 0.3277 0.03418 0.06895 0.2850
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2600 0.8077 0.7689 0.02735 0.001574 0.2986
k(pl) x(ilm) Q(ilm)
0.003194 0.7655 0.6794

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1045	0.2240	0	0.03289	0.2750	0.01377	0.02519	0.3247

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.18 636.8 0.09914 0.1752 0.9096 0.0038690.0008545 0.6774
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7160 0.4187 0.3314 0.03433 0.07093 0.2803
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2606 0.8058 0.7655 0.02701 0.001629 0.2994
k(pl) x(ilm) Q(ilm)
0.003478 0.7636 0.6747

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1064	0.2231	0	0.03394	0.2740	0.01366	0.02469	0.3242

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.24 642.9 0.09988 0.1790 0.9050 0.0040360.0009110 0.6794
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7110 0.4175 0.3351 0.03449 0.07297 0.2757
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2611 0.8037 0.7621 0.02667 0.001686 0.3002
k(pl) x(ilm) Q(ilm)
0.003788 0.7617 0.6697

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1084	0.2222	0	0.03504	0.2730	0.01355	0.02417	0.3236

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 649.0 0.1007 0.1829 0.9000 0.0042110.0009717 0.6813
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7057 0.4163 0.3388 0.03465 0.07507 0.2712
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2616 0.8014 0.7586 0.02634 0.001745 0.3010
k(pl) x(ilm) Q(ilm)

0.004127 0.7597 0.6644

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1105	0.2212	0	0.03619	0.2720	0.01344	0.02365	0.3230

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.36 655.3 0.1015 0.1869 0.8948 0.004398 0.001037 0.6831
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7003 0.4151 0.3423 0.03481 0.07723 0.2666
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2621 0.7990 0.7551 0.02600 0.001806 0.3019
k(pl) x(ilm) Q(ilm)
0.004499 0.7577 0.6590

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1128	0.2201	0	0.03740	0.2709	0.01333	0.02312	0.3223

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.42 661.6 0.1024 0.1910 0.8892 0.004595 0.001107 0.6849
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6947 0.4137 0.3458 0.03497 0.07947 0.2622
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2625 0.7964 0.7514 0.02567 0.001870 0.3028
k(pl) x(ilm) Q(ilm)
0.004906 0.7555 0.6533

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1153	0.2190	0	0.03868	0.2698	0.01322	0.02258	0.3215

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.48 668.0 0.1034 0.1952 0.8833 0.004804 0.001182 0.6865
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6888 0.4123 0.3492 0.03513 0.08178 0.2578
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2629 0.7937 0.7477 0.02534 0.001937 0.3037
k(pl) x(ilm) Q(ilm)
0.005353 0.7533 0.6473

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1179	0.2177	0	0.04003	0.2686	0.01311	0.02203	0.3207

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.54 674.5 0.1045 0.1995 0.8770 0.005026 0.001263 0.6882
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6827 0.4108 0.3525 0.03530 0.08416 0.2534
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2632 0.7907 0.7439 0.02500 0.002007 0.3047
k(pl) x(ilm) Q(ilm)
0.005842 0.7510 0.6411

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1206	0.2163	0	0.04146	0.2674	0.01300	0.02147	0.3197

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.60	681.1	0.1056	0.2039	0.8704	0.005261	0.001350	0.6897
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6764	0.4091	0.3557	0.03547	0.08663	0.2491	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2635	0.7875	0.7400	0.02467	0.002079	0.3057	
	k(pl)	x(ilm)	Q(ilm)				
	0.006379	0.7486	0.6346				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1236	0.2149	0	0.04297	0.2661	0.01289	0.02090	0.3187

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.66	687.8	0.1067	0.2085	0.8633	0.005512	0.001443	0.6911
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6699	0.4074	0.3588	0.03565	0.08917	0.2449	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2637	0.7842	0.7359	0.02435	0.002154	0.3067	
	k(pl)	x(ilm)	Q(ilm)				
	0.006968	0.7462	0.6279				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1268	0.2132	0	0.04459	0.2648	0.01278	0.02031	0.3175

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.72	694.6	0.1080	0.2132	0.8558	0.005778	0.001543	0.6924
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6631	0.4054	0.3618	0.03582	0.09180	0.2407	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2637	0.7806	0.7318	0.02402	0.002232	0.3078	
	k(pl)	x(ilm)	Q(ilm)				
	0.007614	0.7437	0.6209				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1302	0.2114	0	0.04632	0.2634	0.01267	0.01970	0.3162

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.78	701.4	0.1093	0.2179	0.8478	0.006062	0.001650	0.6936
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6561	0.4033	0.3646	0.03601	0.09453	0.2367	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2637	0.7768	0.7275	0.02369	0.002314	0.3089	
	k(pl)	x(ilm)	Q(ilm)				
	0.008322	0.7411	0.6136				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1339	0.2095	0	0.04816	0.2620	0.01256	0.01907	0.3148

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.84	708.4	0.1107	0.2228	0.8393	0.006363	0.001764	0.6947
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6488	0.4010	0.3673	0.03620	0.09734	0.2327	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2636	0.7727	0.7230	0.02337	0.002398	0.3101	
	k(pl)	x(ilm)	Q(ilm)				
	0.009098	0.7385	0.6061				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1378	0.2073	0	0.05014	0.2605	0.01246	0.01843	0.3133

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.90	715.4	0.1122	0.2278	0.8304	0.006685	0.001887	0.6956
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6412	0.3986	0.3698	0.03639	0.1003	0.2288	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2633	0.7684	0.7183	0.02305	0.002486	0.3112	
	k(pl)	x(ilm)	Q(ilm)				
	0.009946	0.7359	0.5983				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1421	0.2050	0	0.05227	0.2590	0.01237	0.01776	0.3116

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.96	722.4	0.1138	0.2329	0.8209	0.007027	0.002017	0.6963
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6334	0.3958	0.3722	0.03659	0.1033	0.2250	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2628	0.7638	0.7135	0.02273	0.002578	0.3125	
	k(pl)	x(ilm)	Q(ilm)				
	0.01087	0.7333	0.5904				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1467	0.2024	0	0.05456	0.2573	0.01227	0.01707	0.3097

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.02	729.5	0.1154	0.2381	0.8109	0.007390	0.002155	0.6968
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6254	0.3928	0.3744	0.03679	0.1064	0.2212	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2622	0.7590	0.7084	0.02242	0.002672	0.3137	
	k(pl)	x(ilm)	Q(ilm)				
	0.01188	0.7308	0.5823				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1516	0.1995	0	0.05702	0.2556	0.01219	0.01635	0.3077

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

7.08 736.6 0.1172 0.2434 0.8004 0.007776 0.002302 0.6971
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6171 0.3895 0.3764 0.03701 0.1096 0.2176
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2613 0.7539 0.7031 0.02211 0.002771 0.3150
 k(pl) x(ilm) Q(ilm)
 0.01298 0.7283 0.5742

mode liq bi cd g pl ilm ky q
 0.1570 0.1964 0 0.05968 0.2539 0.01212 0.01560 0.3054

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.14 743.8 0.1189 0.2488 0.7894 0.008186 0.002457 0.6972
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6086 0.3859 0.3781 0.03722 0.1129 0.2141
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2602 0.7486 0.6974 0.02180 0.002872 0.3163
 k(pl) x(ilm) Q(ilm)
 0.01416 0.7260 0.5660

mode liq bi cd g pl ilm ky q
 0.1627 0.1929 0 0.06254 0.2520 0.01205 0.01482 0.3029

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.20 751.0 0.1207 0.2542 0.7779 0.008622 0.002620 0.6970
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6000 0.3820 0.3797 0.03744 0.1163 0.2107
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2589 0.7430 0.6915 0.02150 0.002977 0.3176
 k(pl) x(ilm) Q(ilm)
 0.01544 0.7238 0.5579

mode liq bi cd g pl ilm ky q
 0.1689 0.1891 0 0.06562 0.2501 0.01200 0.01399 0.3003

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.26 758.1 0.1226 0.2596 0.7660 0.009080 0.002789 0.6965
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5911 0.3777 0.3811 0.03767 0.1198 0.2074
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2573 0.7372 0.6853 0.02120 0.003084 0.3190
 k(pl) x(ilm) Q(ilm)
 0.01681 0.7219 0.5501

mode liq bi cd g pl ilm ky q
 0.1756 0.1850 0 0.06893 0.2481 0.01197 0.01314 0.2973

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.32 765.2 0.1246 0.2651 0.7538 0.009561 0.002963 0.6957
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5822 0.3731 0.3821 0.03790 0.1234 0.2042
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2554 0.7312 0.6788 0.02091 0.003194 0.3203
k(pl) x(ilm) Q(ilm)
0.01826 0.7202 0.5426

mode liq bi cd g pl ilm ky q
0.1827 0.1805 0 0.07246 0.2460 0.01195 0.01225 0.2941

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.38 772.1 0.1266 0.2704 0.7412 0.01006 0.003139 0.6945
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5732 0.3681 0.3827 0.03813 0.1271 0.2013
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2532 0.7251 0.6720 0.02063 0.003306 0.3217
k(pl) x(ilm) Q(ilm)
0.01980 0.7189 0.5356

mode liq bi cd g pl ilm ky q
0.1904 0.1756 0 0.07623 0.2438 0.01195 0.01133 0.2907

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.44 778.9 0.1287 0.2756 0.7284 0.01058 0.003317 0.6931
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5642 0.3627 0.3831 0.03836 0.1309 0.1984
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2506 0.7189 0.6648 0.02035 0.003419 0.3230
k(pl) x(ilm) Q(ilm)
0.02140 0.7180 0.5293

mode liq bi cd g pl ilm ky q
0.1984 0.1704 0 0.08023 0.2416 0.01198 0.01038 0.2870

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 785.5 0.1309 0.2808 0.7155 0.01112 0.003493 0.6912
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5552 0.3569 0.3832 0.03859 0.1347 0.1957
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2478 0.7126 0.6573 0.02009 0.003533 0.3244
k(pl) x(ilm) Q(ilm)
0.02306 0.7176 0.5237

mode liq bi cd g pl ilm ky q
0.2070 0.1648 0 0.08445 0.2393 0.01203 0.009386 0.2830

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.56 791.9 0.1330 0.2858 0.7026 0.01168 0.003667 0.6890
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5464 0.3508 0.3830 0.03881 0.1385 0.1931
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2446 0.7064 0.6495 0.01983 0.003647 0.3257
k(pl) x(ilm) Q(ilm)
0.02477 0.7176 0.5190

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2160	0.1589	0	0.08887	0.2370	0.01210	0.008364	0.2788

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.62 798.2 0.1352 0.2906 0.6899 0.01224 0.003837 0.6865
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5376 0.3444 0.3825 0.03902 0.1424 0.1906
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2412 0.7002 0.6413 0.01958 0.003762 0.3270
k(pl) x(ilm) Q(ilm)
0.02651 0.7181 0.5153

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2254	0.1526	0	0.09350	0.2346	0.01220	0.007308	0.2743

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.68 804.2 0.1374 0.2952 0.6773 0.01282 0.004002 0.6836
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5291 0.3378 0.3818 0.03922 0.1464 0.1882
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2375 0.6940 0.6329 0.01934 0.003876 0.3283
k(pl) x(ilm) Q(ilm)
0.02827 0.7191 0.5126

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2352	0.1461	0	0.09830	0.2322	0.01233	0.006219	0.2697

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.74 810.0 0.1395 0.2997 0.6649 0.01342 0.004160 0.6805
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5207 0.3309 0.3808 0.03941 0.1503 0.1859
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2336 0.6880 0.6241 0.01910 0.003991 0.3295
k(pl) x(ilm) Q(ilm)
0.03004 0.7206 0.5109

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2454	0.1392	0	0.1033	0.2297	0.01248	0.005096	0.2648

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 815.7 0.1417 0.3040 0.6529 0.01402 0.004310 0.6770
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5126 0.3237 0.3797 0.03958 0.1544 0.1835
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2295 0.6820 0.6151 0.01887 0.004104 0.3308
k(pl) x(ilm) Q(ilm)

0.03181 0.7226 0.5101

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2559	0.1321	0	0.1084	0.2272	0.01266	0.003939	0.2598

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.86 821.2 0.1438 0.3081 0.6412 0.01463 0.004452 0.6732
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5046 0.3165 0.3784 0.03972 0.1584 0.1812
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2251 0.6762 0.6058 0.01865 0.004217 0.3320
k(pl) x(ilm) Q(ilm)
0.03358 0.7250 0.5104

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2668	0.1247	0	0.1137	0.2246	0.01287	0.002747	0.2545

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.92 826.5 0.1459 0.3120 0.6299 0.01525 0.004586 0.6692
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4969 0.3090 0.3769 0.03985 0.1625 0.1789
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2207 0.6704 0.5962 0.01843 0.004328 0.3332
k(pl) x(ilm) Q(ilm)
0.03532 0.7278 0.5116

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2781	0.1171	0	0.1191	0.2220	0.01310	0.001519	0.2491

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.98 831.6 0.1479 0.3158 0.6190 0.01588 0.004710 0.6648
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4894 0.3015 0.3754 0.03995 0.1667 0.1765
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2160 0.6648 0.5864 0.01821 0.004438 0.3344
k(pl) x(ilm) Q(ilm)
0.03704 0.7310 0.5136

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2896	0.1093	0	0.1246	0.2192	0.013360	0.0002515	0.2436

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.99 832.6 0.1483 0.3165 0.6170 0.01600 0.004733 0.6640

```

h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
0.4880  0.3000  0.3751  0.03996  0.1675  0.1760
x(cd)   h(cd)   x(g)   z(g)   f(g)   ca(pl)
0.2151  0.6637  0.5845  0.01817  0.004460  0.3346
k(pl)   x(ilm)  Q(ilm)
0.03737  0.7317  0.5141

```

```

mode  liq  bi  cd  g  pl  ilm  ky  q
0.2919  0.1078  0  0.1257  0.2187  0.01342  0  0.2425
calcs use:

```

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, cd, g, pl, ilm, q

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.00  899.3  0.2122  0.3605  0.5721  0.02544  0.02404  0.5812
h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
0.3593  0.2034  0.1817  0.03729  0.2123  0.1994
x(cd)   h(cd)   x(g)   z(g)   f(g)   ca(pl)
0.1536  0.4150  0.4316  0.01926  0.009555  0.4440
k(pl)   x(ilm)  Q(ilm)
0.02989  0.7951  0.5807

```

```

mode  liq  bi  cd  g  pl  ilm  q
0.5620 0.001357  0  0.1642  0.1346  0.01861  0.1193

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.02  898.3  0.2114  0.3603  0.5726  0.02523  0.02365  0.5830
h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
0.3608  0.2050  0.1835  0.03744  0.2114  0.2000
x(cd)   h(cd)   x(g)   z(g)   f(g)   ca(pl)
0.1547  0.4181  0.4344  0.01922  0.009463  0.4416
k(pl)   x(ilm)  Q(ilm)
0.03011  0.7941  0.5796

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mode  liq  bi  cd  g  pl  ilm  q
0.5570 0.003098  0  0.1639  0.1360  0.01851  0.1215

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.04  897.4  0.2105  0.3602  0.5730  0.02502  0.02326  0.5847
h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
0.3624  0.2065  0.1854  0.03758  0.2106  0.2005
x(cd)   h(cd)   x(g)   z(g)   f(g)   ca(pl)
0.1558  0.4212  0.4372  0.01918  0.009372  0.4394
k(pl)   x(ilm)  Q(ilm)
0.03032  0.7931  0.5784

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mode	liq	bi	cd	g	pl	ilm	q
	0.5522	0.004805	0	0.1636	0.1374	0.01841	0.1236

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.06	896.5	0.2097	0.3600	0.5735	0.02483	0.02288	0.5864
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3639	0.2081	0.1872	0.03773	0.2098	0.2011	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1569	0.4242	0.4398	0.01915	0.009283	0.4372	
	k(pl)	x(ilm)	Q(ilm)				
	0.03054	0.7921	0.5773				

mode	liq	bi	cd	g	pl	ilm	q
	0.5475	0.006479	0	0.1633	0.1387	0.01831	0.1257

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.08	895.6	0.2088	0.3598	0.5739	0.02463	0.02250	0.5880
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3654	0.2096	0.1891	0.03786	0.2090	0.2016	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1580	0.4272	0.4425	0.01912	0.009196	0.4350	
	k(pl)	x(ilm)	Q(ilm)				
	0.03075	0.7912	0.5763				

mode	liq	bi	cd	g	pl	ilm	q
	0.5429	0.008122	0	0.1630	0.1401	0.01822	0.1277

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.10	894.8	0.2080	0.3596	0.5743	0.02445	0.02213	0.5896
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3669	0.2110	0.1909	0.03800	0.2082	0.2021	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1590	0.4302	0.4450	0.01908	0.009110	0.4329	
	k(pl)	x(ilm)	Q(ilm)				
	0.03095	0.7902	0.5752				

mode	liq	bi	cd	g	pl	ilm	q
	0.5383	0.009735	0	0.1627	0.1414	0.01812	0.1297

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.12	893.9	0.2072	0.3594	0.5747	0.02426	0.02177	0.5912
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3684	0.2125	0.1928	0.03813	0.2075	0.2025	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1601	0.4331	0.4475	0.01905	0.009026	0.4308	
	k(pl)	x(ilm)	Q(ilm)				
	0.03115	0.7893	0.5742				

mode	liq	bi	cd	g	pl	ilm	q
	0.5339	0.01132	0	0.1625	0.1427	0.01803	0.1316

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.14	893.0	0.2064	0.3592	0.5751	0.02409	0.02142	0.5927
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3699	0.2139	0.1946	0.03825	0.2068	0.2029	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1611	0.4361	0.4500	0.01902	0.008944	0.4288	
	k(pl)	x(ilm)	Q(ilm)				
	0.03135	0.7884	0.5732				

mode	liq	bi	cd	g	pl	ilm	q
	0.5295	0.01287	0	0.1622	0.1440	0.01795	0.1335

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.16	892.2	0.2056	0.3589	0.5755	0.02391	0.02107	0.5942
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3713	0.2153	0.1964	0.03838	0.2060	0.2033	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1621	0.4390	0.4524	0.01899	0.008862	0.4268	
	k(pl)	x(ilm)	Q(ilm)				
	0.03155	0.7875	0.5722				

mode	liq	bi	cd	g	pl	ilm	q
	0.5252	0.01440	0	0.1619	0.1453	0.01786	0.1354

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.18	891.4	0.2048	0.3587	0.5759	0.02375	0.02072	0.5956
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3728	0.2167	0.1983	0.03850	0.2053	0.2036	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1630	0.4419	0.4548	0.01896	0.008783	0.4248	
	k(pl)	x(ilm)	Q(ilm)				
	0.03174	0.7867	0.5712				

mode	liq	bi	cd	g	pl	ilm	q
	0.5210	0.01590	0	0.1615	0.1465	0.01778	0.1372

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	890.6	0.2041	0.3584	0.5763	0.02358	0.02039	0.5970
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3742	0.2180	0.2001	0.03861	0.2047	0.2040	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1640	0.4448	0.4571	0.01893	0.008704	0.4229	
	k(pl)	x(ilm)	Q(ilm)				
	0.03193	0.7858	0.5703				

mode	liq	bi	cd	g	pl	ilm	q
	0.5169	0.01738	0	0.1612	0.1477	0.01770	0.1390

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.22 889.7 0.2033 0.3582 0.5767 0.02342 0.02006 0.5984
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3756 0.2194 0.2020 0.03872 0.2040 0.2042
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1649 0.4477 0.4594 0.01890 0.008627 0.4211
k(pl) x(ilm) Q(ilm)
0.03211 0.7850 0.5693

mode liq bi cd g pl ilm q
0.5129 0.01883 0 0.1609 0.1489 0.01762 0.1408

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.24 888.9 0.2025 0.3579 0.5770 0.02327 0.01973 0.5997
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3771 0.2207 0.2038 0.03883 0.2034 0.2045
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1659 0.4506 0.4616 0.01887 0.008551 0.4192
k(pl) x(ilm) Q(ilm)
0.03230 0.7841 0.5684

mode liq bi cd g pl ilm q
0.5089 0.02025 0 0.1606 0.1501 0.01754 0.1426

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.26 888.2 0.2018 0.3576 0.5774 0.02311 0.01941 0.6011
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3785 0.2220 0.2057 0.03894 0.2027 0.2047
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1668 0.4534 0.4638 0.01884 0.008477 0.4174
k(pl) x(ilm) Q(ilm)
0.03248 0.7833 0.5675

mode liq bi cd g pl ilm q
0.5050 0.02166 0 0.1603 0.1513 0.01746 0.1443

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.28 887.4 0.2010 0.3574 0.5777 0.02297 0.01910 0.6023
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3799 0.2232 0.2075 0.03904 0.2021 0.2050
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1676 0.4562 0.4660 0.01881 0.008404 0.4157
k(pl) x(ilm) Q(ilm)
0.03265 0.7825 0.5666

mode liq bi cd g pl ilm q
0.5012 0.02304 0 0.1600 0.1525 0.01738 0.1459

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 886.6 0.2003 0.3571 0.5781 0.02282 0.01879 0.6036
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3813 0.2245 0.2093 0.03914 0.2015 0.2051
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1685 0.4590 0.4681 0.01879 0.008332 0.4140
 k(pl) x(ilm) Q(ilm)
 0.03282 0.7817 0.5657

mode liq bi cd g pl ilm q
 0.4974 0.02440 0 0.1597 0.1536 0.01731 0.1476

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.32 885.9 0.1996 0.3568 0.5784 0.02268 0.01849 0.6048
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3826 0.2257 0.2112 0.03923 0.2009 0.2053
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1694 0.4618 0.4702 0.01876 0.008261 0.4123
 k(pl) x(ilm) Q(ilm)
 0.03299 0.7809 0.5649

mode liq bi cd g pl ilm q
 0.4937 0.02574 0 0.1594 0.1547 0.01724 0.1492

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.34 885.1 0.1989 0.3565 0.5788 0.02254 0.01819 0.6060
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3840 0.2269 0.2130 0.03932 0.2003 0.2054
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1702 0.4646 0.4722 0.01874 0.008191 0.4107
 k(pl) x(ilm) Q(ilm)
 0.03316 0.7802 0.5640

mode liq bi cd g pl ilm q
 0.4901 0.02706 0 0.1590 0.1558 0.01717 0.1508

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.36 884.4 0.1981 0.3562 0.5791 0.02241 0.01790 0.6072
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3854 0.2281 0.2149 0.03941 0.1997 0.2056
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1710 0.4674 0.4742 0.01871 0.008122 0.4090
 k(pl) x(ilm) Q(ilm)
 0.03333 0.7794 0.5632

mode liq bi cd g pl ilm q
 0.4865 0.02836 0 0.1587 0.1569 0.01710 0.1524

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.38 883.6 0.1974 0.3559 0.5795 0.02228 0.01761 0.6084
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3867 0.2293 0.2167 0.03950 0.1992 0.2057
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1719 0.4701 0.4762 0.01869 0.008054 0.4075
k(pl) x(ilm) Q(ilm)
0.03349 0.7787 0.5624

mode	liq	bi	cd	g	pl	ilm	q
	0.4830	0.02965	0	0.1584	0.1580	0.01703	0.1540

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 882.9 0.1967 0.3556 0.5798 0.02215 0.01733 0.6095
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3881 0.2304 0.2186 0.03959 0.1986 0.2057
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1727 0.4728 0.4781 0.01866 0.007988 0.4059
k(pl) x(ilm) Q(ilm)
0.03364 0.7779 0.5616

mode	liq	bi	cd	g	pl	ilm	q
	0.4795	0.03091	0	0.1581	0.1591	0.01696	0.1555

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.42 882.2 0.1960 0.3552 0.5801 0.02202 0.01705 0.6106
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3894 0.2316 0.2204 0.03967 0.1981 0.2058
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1734 0.4756 0.4801 0.01864 0.007922 0.4044
k(pl) x(ilm) Q(ilm)
0.03380 0.7772 0.5608

mode	liq	bi	cd	g	pl	ilm	q
	0.4761	0.03216	0	0.1577	0.1601	0.01690	0.1570

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.44 881.5 0.1953 0.3549 0.5804 0.02190 0.01678 0.6117
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3907 0.2327 0.2223 0.03975 0.1975 0.2058
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1742 0.4783 0.4819 0.01862 0.007858 0.4029
k(pl) x(ilm) Q(ilm)
0.03395 0.7765 0.5600

mode	liq	bi	cd	g	pl	ilm	q
	0.4727	0.03339	0	0.1574	0.1612	0.01683	0.1585

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.46 880.8 0.1947 0.3546 0.5808 0.02178 0.01651 0.6128
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3921 0.2338 0.2241 0.03982 0.1970 0.2059
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1750 0.4810 0.4838 0.01859 0.007794 0.4014
k(pl) x(ilm) Q(ilm)

0.03410 0.7758 0.5592

mode	liq	bi	cd	g	pl	ilm	q
	0.4694	0.03460	0	0.1571	0.1622	0.01677	0.1599

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.48 880.1 0.1940 0.3542 0.5811 0.02166 0.01625 0.6138
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3934 0.2349 0.2260 0.03990 0.1965 0.2059
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1757 0.4836 0.4856 0.01857 0.007731 0.4000
k(pl) x(ilm) Q(ilm)
0.03425 0.7751 0.5584

mode	liq	bi	cd	g	pl	ilm	q
	0.4661	0.03580	0	0.1568	0.1632	0.01671	0.1614

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 879.4 0.1933 0.3539 0.5814 0.02154 0.01599 0.6148
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3947 0.2360 0.2278 0.03997 0.1960 0.2058
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1765 0.4863 0.4874 0.01855 0.007669 0.3986
k(pl) x(ilm) Q(ilm)
0.03439 0.7744 0.5577

mode	liq	bi	cd	g	pl	ilm	q
	0.4629	0.03699	0	0.1564	0.1642	0.01664	0.1628

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.52 878.7 0.1926 0.3535 0.5817 0.02143 0.01573 0.6158
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3960 0.2371 0.2297 0.04004 0.1955 0.2058
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1772 0.4890 0.4892 0.01853 0.007608 0.3972
k(pl) x(ilm) Q(ilm)
0.03453 0.7737 0.5569

mode	liq	bi	cd	g	pl	ilm	q
	0.4598	0.03816	0	0.1561	0.1652	0.01658	0.1642

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.54 878.0 0.1920 0.3532 0.5821 0.02132 0.01548 0.6168
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3973 0.2381 0.2315 0.04010 0.1950 0.2057
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1779 0.4916 0.4909 0.01851 0.007548 0.3958
k(pl) x(ilm) Q(ilm)
0.03467 0.7730 0.5562

mode	liq	bi	cd	g	pl	ilm	q
	0.4566	0.03932	0	0.1557	0.1662	0.01652	0.1656

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.56	877.4	0.1913	0.3528	0.5824	0.02121	0.01524	0.6178
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3986	0.2392	0.2334	0.04017	0.1945	0.2057	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1786	0.4942	0.4926	0.01849	0.007489	0.3944	
	k(pl)	x(ilm)	Q(ilm)				
	0.03481	0.7723	0.5555				

mode	liq	bi	cd	g	pl	ilm	q
	0.4536	0.04046	0	0.1554	0.1671	0.01647	0.1670

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.58	876.7	0.1906	0.3525	0.5827	0.02110	0.01499	0.6188
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3999	0.2402	0.2352	0.04023	0.1940	0.2056	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1793	0.4968	0.4943	0.01847	0.007430	0.3931	
	k(pl)	x(ilm)	Q(ilm)				
	0.03494	0.7717	0.5548				

mode	liq	bi	cd	g	pl	ilm	q
	0.4505	0.04159	0	0.1551	0.1681	0.01641	0.1683

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.60	876.0	0.1900	0.3521	0.5830	0.02100	0.01476	0.6197
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4012	0.2412	0.2371	0.04029	0.1936	0.2055	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1800	0.4994	0.4960	0.01845	0.007372	0.3918	
	k(pl)	x(ilm)	Q(ilm)				
	0.03507	0.7710	0.5541				

mode	liq	bi	cd	g	pl	ilm	q
	0.4475	0.04271	0	0.1547	0.1690	0.01635	0.1697

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.62	875.4	0.1893	0.3517	0.5833	0.02090	0.01452	0.6206
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4024	0.2422	0.2390	0.04034	0.1931	0.2054	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1807	0.5020	0.4976	0.01844	0.007315	0.3906	
	k(pl)	x(ilm)	Q(ilm)				
	0.03520	0.7704	0.5534				

mode	liq	bi	cd	g	pl	ilm	q
	0.4446	0.04382	0	0.1544	0.1700	0.01629	0.1710

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.64	874.7	0.1887	0.3513	0.5836	0.02079	0.01429	0.6215
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4037	0.2432	0.2408	0.04040	0.1926	0.2053	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1814	0.5046	0.4993	0.01842	0.007259	0.3893	
	k(pl)	x(ilm)	Q(ilm)				
	0.03532	0.7697	0.5527				

mode	liq	bi	cd	g	pl	ilm	q
	0.4416	0.04492	0	0.1540	0.1709	0.01624	0.1723

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.66	874.0	0.1880	0.3509	0.5840	0.02069	0.01407	0.6224
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4050	0.2442	0.2427	0.04045	0.1922	0.2051	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1820	0.5072	0.5009	0.01840	0.007203	0.3881	
	k(pl)	x(ilm)	Q(ilm)				
	0.03545	0.7691	0.5520				

mode	liq	bi	cd	g	pl	ilm	q
	0.4388	0.04600	0	0.1537	0.1718	0.01618	0.1736

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.68	873.4	0.1874	0.3506	0.5843	0.02060	0.01384	0.6233
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4062	0.2452	0.2446	0.04050	0.1917	0.2050	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1827	0.5098	0.5025	0.01838	0.007148	0.3868	
	k(pl)	x(ilm)	Q(ilm)				
	0.03557	0.7685	0.5513				

mode	liq	bi	cd	g	pl	ilm	q
	0.4359	0.04708	0	0.1533	0.1727	0.01613	0.1748

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.70	872.8	0.1868	0.3502	0.5846	0.02050	0.01362	0.6242
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4075	0.2462	0.2464	0.04055	0.1913	0.2048	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1833	0.5123	0.5040	0.01837	0.007094	0.3857	
	k(pl)	x(ilm)	Q(ilm)				
	0.03568	0.7678	0.5507				

mode	liq	bi	cd	g	pl	ilm	q
	0.4331	0.04814	0	0.1530	0.1736	0.01608	0.1761

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.72 872.1 0.1861 0.3498 0.5849 0.02041 0.01341 0.6250
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4088 0.2471 0.2483 0.04060 0.1909 0.2046
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1840 0.5149 0.5056 0.01835 0.007040 0.3845
 k(pl) x(ilm) Q(ilm)
 0.03580 0.7672 0.5500

mode liq bi cd g pl ilm q
 0.4303 0.04920 0 0.1526 0.1745 0.01602 0.1774

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.74 871.5 0.1855 0.3494 0.5853 0.02031 0.01320 0.6259
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4100 0.2481 0.2502 0.04064 0.1904 0.2044
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1846 0.5174 0.5071 0.01834 0.006987 0.3833
 k(pl) x(ilm) Q(ilm)
 0.03591 0.7666 0.5493

mode liq bi cd g pl ilm q
 0.4275 0.05024 0 0.1523 0.1754 0.01597 0.1786

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.76 870.9 0.1849 0.3490 0.5856 0.02022 0.01299 0.6267
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4113 0.2490 0.2521 0.04068 0.1900 0.2042
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1852 0.5199 0.5086 0.01832 0.006935 0.3822
 k(pl) x(ilm) Q(ilm)
 0.03602 0.7660 0.5487

mode liq bi cd g pl ilm q
 0.4248 0.05128 0 0.1519 0.1762 0.01592 0.1798

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.78 870.2 0.1842 0.3486 0.5859 0.02013 0.01278 0.6275
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4125 0.2499 0.2540 0.04072 0.1896 0.2040
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1858 0.5224 0.5101 0.01831 0.006883 0.3811
 k(pl) x(ilm) Q(ilm)
 0.03613 0.7654 0.5480

mode liq bi cd g pl ilm q
 0.4221 0.05231 0 0.1516 0.1771 0.01587 0.1810

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.80 869.6 0.1836 0.3481 0.5862 0.02004 0.01258 0.6283
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4137 0.2509 0.2558 0.04076 0.1892 0.2038
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1864 0.5249 0.5116 0.01829 0.006832 0.3799
k(pl) x(ilm) Q(ilm)
0.03623 0.7648 0.5474

mode	liq	bi	cd	g	pl	ilm	q
	0.4195	0.05333	0	0.1512	0.1779	0.01582	0.1822

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.82 869.0 0.1830 0.3477 0.5866 0.01995 0.01238 0.6291
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4150 0.2518 0.2577 0.04080 0.1888 0.2035
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1870 0.5274 0.5131 0.01828 0.006781 0.3789
k(pl) x(ilm) Q(ilm)
0.03633 0.7642 0.5468

mode	liq	bi	cd	g	pl	ilm	q
	0.4168	0.05434	0	0.1508	0.1788	0.01577	0.1834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.84 868.4 0.1824 0.3473 0.5869 0.01987 0.01219 0.6299
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4162 0.2527 0.2596 0.04083 0.1884 0.2033
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1876 0.5299 0.5145 0.01827 0.006731 0.3778
k(pl) x(ilm) Q(ilm)
0.03643 0.7636 0.5461

mode	liq	bi	cd	g	pl	ilm	q
	0.4142	0.05535	0	0.1505	0.1796	0.01572	0.1846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.86 867.7 0.1818 0.3469 0.5872 0.01978 0.01200 0.6306
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4174 0.2536 0.2615 0.04086 0.1880 0.2030
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1882 0.5324 0.5159 0.01826 0.006682 0.3767
k(pl) x(ilm) Q(ilm)
0.03653 0.7630 0.5455

mode	liq	bi	cd	g	pl	ilm	q
	0.4117	0.05634	0	0.1501	0.1805	0.01567	0.1858

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.88 867.1 0.1811 0.3465 0.5876 0.01970 0.01181 0.6314
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4187 0.2545 0.2634 0.04089 0.1876 0.2027
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1888 0.5349 0.5174 0.01824 0.006633 0.3757
k(pl) x(ilm) Q(ilm)
0.03662 0.7624 0.5449

mode	liq	bi	cd	g	pl	ilm	q
	0.4091	0.05733	0	0.1497	0.1813	0.01562	0.1869

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 866.5 0.1805 0.3460 0.5879 0.01962 0.01162 0.6322
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4199 0.2554 0.2653 0.04092 0.1872 0.2024
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1894 0.5373 0.5188 0.01823 0.006585 0.3747
k(pl) x(ilm) Q(ilm)
0.03671 0.7618 0.5443

mode	liq	bi	cd	g	pl	ilm	q
	0.4066	0.05832	0	0.1494	0.1821	0.01558	0.1881

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.92 865.9 0.1799 0.3456 0.5883 0.01953 0.01144 0.6329
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4211 0.2562 0.2672 0.04095 0.1868 0.2021
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1899 0.5398 0.5202 0.01822 0.006537 0.3737
k(pl) x(ilm) Q(ilm)
0.03680 0.7612 0.5437

mode	liq	bi	cd	g	pl	ilm	q
	0.4041	0.05929	0	0.1490	0.1829	0.01553	0.1892

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.94 865.3 0.1793 0.3452 0.5886 0.01945 0.01126 0.6336
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4224 0.2571 0.2691 0.04097 0.1864 0.2018
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1905 0.5422 0.5215 0.01821 0.006489 0.3727
k(pl) x(ilm) Q(ilm)
0.03689 0.7607 0.5431

mode	liq	bi	cd	g	pl	ilm	q
	0.4016	0.06027	0	0.1486	0.1837	0.01548	0.1904

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.96 864.7 0.1787 0.3447 0.5890 0.01937 0.01108 0.6344
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4236 0.2580 0.2710 0.04100 0.1860 0.2015
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1910 0.5447 0.5229 0.01820 0.006442 0.3717
k(pl) x(ilm) Q(ilm)

0.03697 0.7601 0.5425

mode	liq	bi	cd	g	pl	ilm	q
	0.3991	0.06123	0	0.1482	0.1845	0.01544	0.1915

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.98 864.1 0.1781 0.3443 0.5893 0.01930 0.01090 0.6351
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4248 0.2589 0.2729 0.04102 0.1856 0.2012
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1916 0.5471 0.5243 0.01819 0.006396 0.3707
k(pl) x(ilm) Q(ilm)
0.03705 0.7595 0.5419

mode	liq	bi	cd	g	pl	ilm	q
	0.3967	0.06219	0	0.1479	0.1853	0.01539	0.1926

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 863.5 0.1775 0.3438 0.5897 0.01922 0.01073 0.6358
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4260 0.2597 0.2749 0.04104 0.1852 0.2009
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1921 0.5495 0.5256 0.01818 0.006350 0.3697
k(pl) x(ilm) Q(ilm)
0.03713 0.7589 0.5413

mode	liq	bi	cd	g	pl	ilm	q
	0.3943	0.06314	0	0.1475	0.1860	0.01535	0.1937

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.02 862.9 0.1769 0.3434 0.5900 0.01914 0.01056 0.6365
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4272 0.2606 0.2768 0.04105 0.1849 0.2005
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1927 0.5519 0.5270 0.01817 0.006304 0.3688
k(pl) x(ilm) Q(ilm)
0.03721 0.7584 0.5407

mode	liq	bi	cd	g	pl	ilm	q
	0.3919	0.06409	0	0.1471	0.1868	0.01530	0.1948

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.04 862.3 0.1763 0.3429 0.5904 0.01907 0.01040 0.6372
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4284 0.2614 0.2787 0.04107 0.1845 0.2002
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1932 0.5544 0.5283 0.01816 0.006259 0.3679
k(pl) x(ilm) Q(ilm)
0.03728 0.7578 0.5401

mode	liq	bi	cd	g	pl	ilm	q
	0.3895	0.06504	0	0.1467	0.1876	0.01526	0.1959

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.06	861.7	0.1757	0.3424	0.5908	0.01899	0.01023	0.6378
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4297	0.2623	0.2806	0.04108	0.1841	0.1998	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1937	0.5568	0.5296	0.01815	0.006214	0.3670	
	k(pl)	x(ilm)	Q(ilm)				
	0.03735	0.7572	0.5395				

mode	liq	bi	cd	g	pl	ilm	q
	0.3872	0.06598	0	0.1463	0.1883	0.01521	0.1970

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.08	861.1	0.1751	0.3420	0.5911	0.01892	0.01007	0.6385
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4309	0.2631	0.2826	0.04110	0.1838	0.1995	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1943	0.5592	0.5309	0.01814	0.006170	0.3660	
	k(pl)	x(ilm)	Q(ilm)				
	0.03742	0.7567	0.5389				

mode	liq	bi	cd	g	pl	ilm	q
	0.3849	0.06691	0	0.1459	0.1891	0.01517	0.1980

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.10	860.5	0.1745	0.3415	0.5915	0.01884	0.009910	0.6392
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4321	0.2639	0.2845	0.04111	0.1834	0.1991	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1948	0.5616	0.5322	0.01813	0.006126	0.3652	
	k(pl)	x(ilm)	Q(ilm)				
	0.03748	0.7561	0.5383				

mode	liq	bi	cd	g	pl	ilm	q
	0.3825	0.06784	0	0.1455	0.1898	0.01512	0.1991

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.12	859.9	0.1739	0.3410	0.5919	0.01877	0.009753	0.6398
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4333	0.2648	0.2864	0.04112	0.1830	0.1987	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1953	0.5639	0.5335	0.01813	0.006082	0.3643	
	k(pl)	x(ilm)	Q(ilm)				
	0.03755	0.7556	0.5378				

mode	liq	bi	cd	g	pl	ilm	q
	0.3802	0.06877	0	0.1452	0.1906	0.01508	0.2002

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.14	859.3	0.1733	0.3406	0.5923	0.01870	0.009598	0.6405
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4345	0.2656	0.2884	0.04112	0.1827	0.1983	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1958	0.5663	0.5348	0.01812	0.006039	0.3634	
	k(pl)	x(ilm)	Q(ilm)				
	0.03761	0.7550	0.5372				

mode	liq	bi	cd	g	pl	ilm	q
	0.3780	0.06969	0	0.1448	0.1913	0.01504	0.2012

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.16	858.7	0.1727	0.3401	0.5927	0.01863	0.009446	0.6411
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4357	0.2664	0.2903	0.04113	0.1823	0.1979	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1963	0.5687	0.5360	0.01811	0.005996	0.3625	
	k(pl)	x(ilm)	Q(ilm)				
	0.03766	0.7545	0.5366				

mode	liq	bi	cd	g	pl	ilm	q
	0.3757	0.07061	0	0.1444	0.1921	0.01500	0.2023

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.18	858.1	0.1721	0.3396	0.5931	0.01856	0.009296	0.6418
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4369	0.2673	0.2923	0.04113	0.1819	0.1975	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1968	0.5711	0.5373	0.01811	0.005954	0.3617	
	k(pl)	x(ilm)	Q(ilm)				
	0.03772	0.7539	0.5361				

mode	liq	bi	cd	g	pl	ilm	q
	0.3735	0.07153	0	0.1440	0.1928	0.01495	0.2033

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.20	857.5	0.1716	0.3391	0.5935	0.01849	0.009149	0.6424
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4382	0.2681	0.2942	0.04114	0.1816	0.1971	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1973	0.5734	0.5385	0.01810	0.005912	0.3609	
	k(pl)	x(ilm)	Q(ilm)				
	0.03777	0.7534	0.5355				

mode	liq	bi	cd	g	pl	ilm	q
	0.3712	0.07244	0	0.1436	0.1935	0.01491	0.2043

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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7.22 856.9 0.1710 0.3386 0.5939 0.01842 0.009003 0.6430
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4394 0.2689 0.2962 0.04114 0.1812 0.1967
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1978 0.5758 0.5398 0.01810 0.005870 0.3600
 k(pl) x(ilm) Q(ilm)
 0.03782 0.7528 0.5349

mode liq bi cd g pl ilm q
 0.3690 0.07335 0 0.1432 0.1942 0.01487 0.2054

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.24 856.3 0.1704 0.3381 0.5944 0.01835 0.008860 0.6437
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4406 0.2697 0.2981 0.04114 0.1809 0.1962
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1983 0.5781 0.5410 0.01809 0.005828 0.3592
 k(pl) x(ilm) Q(ilm)
 0.03786 0.7523 0.5344

mode liq bi cd g pl ilm q
 0.3668 0.07426 0 0.1428 0.1949 0.01483 0.2064

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.26 855.7 0.1698 0.3376 0.5948 0.01828 0.008718 0.6443
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4418 0.2705 0.3001 0.04113 0.1805 0.1958
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1988 0.5805 0.5422 0.01809 0.005787 0.3584
 k(pl) x(ilm) Q(ilm)
 0.03791 0.7517 0.5338

mode liq bi cd g pl ilm q
 0.3646 0.07517 0 0.1423 0.1956 0.01479 0.2074

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.28 855.1 0.1692 0.3371 0.5952 0.01821 0.008579 0.6449
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4430 0.2713 0.3021 0.04113 0.1801 0.1954
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1993 0.5828 0.5435 0.01808 0.005747 0.3576
 k(pl) x(ilm) Q(ilm)
 0.03795 0.7512 0.5332

mode liq bi cd g pl ilm q
 0.3625 0.07607 0 0.1419 0.1963 0.01475 0.2084

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.30 854.5 0.1686 0.3366 0.5957 0.01815 0.008442 0.6455
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4442 0.2722 0.3040 0.04112 0.1798 0.1949
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1998 0.5852 0.5447 0.01808 0.005706 0.3568
k(pl) x(ilm) Q(ilm)
0.03798 0.7506 0.5327

mode liq bi cd g pl ilm q
0.3603 0.07697 0 0.1415 0.1970 0.01470 0.2094

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.32 853.9 0.1680 0.3361 0.5961 0.01808 0.008307 0.6461
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4454 0.2730 0.3060 0.04112 0.1794 0.1945
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2003 0.5875 0.5459 0.01807 0.005666 0.3561
k(pl) x(ilm) Q(ilm)
0.03802 0.7501 0.5321

mode liq bi cd g pl ilm q
0.3582 0.07787 0 0.1411 0.1977 0.01466 0.2104

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.34 853.3 0.1675 0.3356 0.5966 0.01801 0.008174 0.6467
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4467 0.2738 0.3080 0.04111 0.1791 0.1940
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2008 0.5898 0.5471 0.01807 0.005626 0.3553
k(pl) x(ilm) Q(ilm)
0.03805 0.7495 0.5316

mode liq bi cd g pl ilm q
0.3561 0.07876 0 0.1407 0.1984 0.01462 0.2115

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.36 852.7 0.1669 0.3351 0.5970 0.01795 0.008043 0.6473
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4479 0.2746 0.3100 0.04110 0.1787 0.1935
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2012 0.5922 0.5483 0.01807 0.005587 0.3545
k(pl) x(ilm) Q(ilm)
0.03808 0.7490 0.5310

mode liq bi cd g pl ilm q
0.3539 0.07966 0 0.1403 0.1991 0.01458 0.2124

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.38 852.1 0.1663 0.3345 0.5975 0.01788 0.007914 0.6479
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4491 0.2754 0.3120 0.04108 0.1784 0.1931
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2017 0.5945 0.5495 0.01806 0.005548 0.3538
k(pl) x(ilm) Q(ilm)
0.03811 0.7484 0.5305

mode	liq	bi	cd	g	pl	ilm	q
	0.3518	0.08055	0	0.1399	0.1998	0.01454	0.2134

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 851.5 0.1657 0.3340 0.5980 0.01782 0.007786 0.6485
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4503 0.2762 0.3140 0.04107 0.1780 0.1926
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2022 0.5968 0.5507 0.01806 0.005509 0.3530
k(pl) x(ilm) Q(ilm)
0.03813 0.7479 0.5299

mode	liq	bi	cd	g	pl	ilm	q
	0.3498	0.08144	0	0.1394	0.2004	0.01451	0.2144

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.42 850.8 0.1651 0.3335 0.5985 0.01775 0.007661 0.6490
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4515 0.2770 0.3160 0.04106 0.1777 0.1921
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2026 0.5991 0.5519 0.01806 0.005470 0.3523
k(pl) x(ilm) Q(ilm)
0.03815 0.7474 0.5294

mode	liq	bi	cd	g	pl	ilm	q
	0.3477	0.08233	0	0.1390	0.2011	0.01447	0.2154

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.44 850.2 0.1645 0.3330 0.5990 0.01769 0.007537 0.6496
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4528 0.2778 0.3180 0.04104 0.1773 0.1916
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2031 0.6014 0.5531 0.01806 0.005432 0.3516
k(pl) x(ilm) Q(ilm)
0.03817 0.7468 0.5288

mode	liq	bi	cd	g	pl	ilm	q
	0.3456	0.08322	0	0.1386	0.2018	0.01443	0.2164

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.46 849.6 0.1639 0.3324 0.5995 0.01762 0.007415 0.6502
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4540 0.2786 0.3200 0.04102 0.1770 0.1911
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2036 0.6037 0.5542 0.01806 0.005394 0.3509
k(pl) x(ilm) Q(ilm)

0.03818 0.7463 0.5283

mode	liq	bi	cd	g	pl	ilm	q
	0.3436	0.08411	0	0.1381	0.2024	0.01439	0.2174

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.48 849.0 0.1634 0.3319 0.6000 0.01756 0.007295 0.6507
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4552 0.2794 0.3220 0.04100 0.1766 0.1906
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2040 0.6060 0.5554 0.01806 0.005356 0.3502
k(pl) x(ilm) Q(ilm)
0.03819 0.7457 0.5277

mode	liq	bi	cd	g	pl	ilm	q
	0.3415	0.08499	0	0.1377	0.2031	0.01435	0.2183

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 848.4 0.1628 0.3313 0.6005 0.01750 0.007176 0.6513
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4565 0.2802 0.3240 0.04098 0.1763 0.1901
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2045 0.6083 0.5566 0.01806 0.005318 0.3495
k(pl) x(ilm) Q(ilm)
0.03820 0.7452 0.5272

mode	liq	bi	cd	g	pl	ilm	q
	0.3395	0.08588	0	0.1373	0.2037	0.01431	0.2193

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.52 847.8 0.1622 0.3308 0.6010 0.01744 0.007059 0.6519
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4577 0.2810 0.3260 0.04096 0.1759 0.1896
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2049 0.6106 0.5577 0.01806 0.005281 0.3488
k(pl) x(ilm) Q(ilm)
0.03821 0.7446 0.5266

mode	liq	bi	cd	g	pl	ilm	q
	0.3374	0.08677	0	0.1368	0.2044	0.01427	0.2203

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.54 847.2 0.1616 0.3302 0.6016 0.01737 0.006944 0.6524
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4589 0.2818 0.3281 0.04093 0.1756 0.1891
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2054 0.6129 0.5589 0.01806 0.005244 0.3481
k(pl) x(ilm) Q(ilm)
0.03821 0.7441 0.5261

mode	liq	bi	cd	g	pl	ilm	q
	0.3354	0.08765	0	0.1364	0.2050	0.01423	0.2212

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.56	846.6	0.1610	0.3297	0.6021	0.01731	0.006831	0.6530
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4602	0.2826	0.3301	0.04090	0.1752	0.1885	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2058	0.6151	0.5600	0.01806	0.005207	0.3474	
	k(pl)	x(ilm)	Q(ilm)				
	0.03821	0.7436	0.5256				

mode	liq	bi	cd	g	pl	ilm	q
	0.3334	0.08854	0	0.1360	0.2057	0.01420	0.2222

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.58	846.0	0.1604	0.3291	0.6027	0.01725	0.006719	0.6535
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4614	0.2834	0.3321	0.04088	0.1749	0.1880	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2063	0.6174	0.5612	0.01806	0.005170	0.3468	
	k(pl)	x(ilm)	Q(ilm)				
	0.03820	0.7430	0.5250				

mode	liq	bi	cd	g	pl	ilm	q
	0.3314	0.08942	0	0.1355	0.2063	0.01416	0.2232

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	845.3	0.1599	0.3285	0.6033	0.01719	0.006609	0.6540
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4627	0.2842	0.3342	0.04085	0.1745	0.1875	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2067	0.6197	0.5624	0.01806	0.005134	0.3461	
	k(pl)	x(ilm)	Q(ilm)				
	0.03820	0.7425	0.5245				

mode	liq	bi	cd	g	pl	ilm	q
	0.3294	0.09030	0	0.1351	0.2070	0.01412	0.2241

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.62	844.7	0.1593	0.3280	0.6039	0.01713	0.006500	0.6546
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4639	0.2850	0.3362	0.04082	0.1742	0.1869	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2072	0.6220	0.5635	0.01806	0.005098	0.3455	
	k(pl)	x(ilm)	Q(ilm)				
	0.03819	0.7419	0.5239				

mode	liq	bi	cd	g	pl	ilm	q
	0.3275	0.09119	0	0.1346	0.2076	0.01408	0.2251

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.64	844.1	0.1587	0.3274	0.6045	0.01706	0.006393	0.6551
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4652	0.2858	0.3383	0.04078	0.1738	0.1864	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2076	0.6242	0.5646	0.01806	0.005062	0.3448	
	k(pl)	x(ilm)	Q(ilm)				
	0.03817	0.7414	0.5234				

mode	liq	bi	cd	g	pl	ilm	q
	0.3255	0.09207	0	0.1342	0.2082	0.01405	0.2260

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.66	843.5	0.1581	0.3268	0.6051	0.01700	0.006287	0.6556
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4664	0.2866	0.3403	0.04075	0.1735	0.1858	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2081	0.6265	0.5658	0.01807	0.005026	0.3442	
	k(pl)	x(ilm)	Q(ilm)				
	0.03816	0.7408	0.5229				

mode	liq	bi	cd	g	pl	ilm	q
	0.3235	0.09296	0	0.1337	0.2088	0.01401	0.2270

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.68	842.8	0.1575	0.3262	0.6057	0.01694	0.006183	0.6562
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4677	0.2874	0.3424	0.04071	0.1731	0.1853	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2085	0.6288	0.5669	0.01807	0.004990	0.3436	
	k(pl)	x(ilm)	Q(ilm)				
	0.03814	0.7403	0.5223				

mode	liq	bi	cd	g	pl	ilm	q
	0.3216	0.09384	0	0.1332	0.2095	0.01397	0.2279

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.70	842.2	0.1569	0.3256	0.6063	0.01688	0.006080	0.6567
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4690	0.2882	0.3444	0.04068	0.1728	0.1847	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2089	0.6310	0.5681	0.01807	0.004955	0.3429	
	k(pl)	x(ilm)	Q(ilm)				
	0.03811	0.7397	0.5218				

mode	liq	bi	cd	g	pl	ilm	q
	0.3196	0.09473	0	0.1328	0.2101	0.01394	0.2289

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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7.72 841.6 0.1564 0.3250 0.6069 0.01682 0.005979 0.6572
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4702 0.2890 0.3465 0.04064 0.1724 0.1841
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2094 0.6333 0.5692 0.01808 0.004920 0.3423
k(pl) x(ilm) Q(ilm)
0.03809 0.7392 0.5213

mode liq bi cd g pl ilm q
0.3177 0.09561 0 0.1323 0.2107 0.01390 0.2298

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.74 840.9 0.1558 0.3245 0.6076 0.01676 0.005879 0.6577
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4715 0.2898 0.3486 0.04060 0.1721 0.1836
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2098 0.6355 0.5703 0.01808 0.004885 0.3417
k(pl) x(ilm) Q(ilm)
0.03805 0.7386 0.5207

mode liq bi cd g pl ilm q
0.3157 0.09650 0 0.1318 0.2113 0.01386 0.2308

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.76 840.3 0.1552 0.3238 0.6083 0.01670 0.005780 0.6582
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4728 0.2906 0.3507 0.04056 0.1717 0.1830
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2102 0.6378 0.5715 0.01809 0.004850 0.3411
k(pl) x(ilm) Q(ilm)
0.03802 0.7381 0.5202

mode liq bi cd g pl ilm q
0.3138 0.09739 0 0.1314 0.2119 0.01383 0.2317

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.78 839.6 0.1546 0.3232 0.6089 0.01664 0.005683 0.6587
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4741 0.2914 0.3527 0.04051 0.1713 0.1824
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2107 0.6400 0.5726 0.01809 0.004815 0.3405
k(pl) x(ilm) Q(ilm)
0.03798 0.7375 0.5197

mode liq bi cd g pl ilm q
0.3119 0.09828 0 0.1309 0.2125 0.01379 0.2326

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 839.0 0.1540 0.3226 0.6096 0.01658 0.005587 0.6593
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4754 0.2922 0.3548 0.04047 0.1710 0.1818
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2111 0.6423 0.5737 0.01810 0.004781 0.3399
 k(pl) x(ilm) Q(ilm)
 0.03794 0.7370 0.5191

mode liq bi cd g pl ilm q
 0.3100 0.09917 0 0.1304 0.2131 0.01375 0.2336

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.82 838.3 0.1534 0.3220 0.6103 0.01652 0.005493 0.6598
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4766 0.2930 0.3569 0.04042 0.1706 0.1812
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2115 0.6445 0.5749 0.01810 0.004747 0.3394
 k(pl) x(ilm) Q(ilm)
 0.03790 0.7364 0.5186

mode liq bi cd g pl ilm q
 0.3081 0.1001 0 0.1299 0.2137 0.01372 0.2345

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.84 837.7 0.1528 0.3214 0.6111 0.01646 0.005399 0.6603
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4779 0.2938 0.3590 0.04037 0.1703 0.1807
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2120 0.6468 0.5760 0.01811 0.004713 0.3388
 k(pl) x(ilm) Q(ilm)
 0.03785 0.7359 0.5181

mode liq bi cd g pl ilm q
 0.3062 0.1010 0 0.1295 0.2143 0.01368 0.2354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.86 837.0 0.1522 0.3208 0.6118 0.01640 0.005308 0.6608
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4793 0.2946 0.3611 0.04033 0.1699 0.1801
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2124 0.6490 0.5771 0.01811 0.004679 0.3382
 k(pl) x(ilm) Q(ilm)
 0.03780 0.7353 0.5175

mode liq bi cd g pl ilm q
 0.3043 0.1018 0 0.1290 0.2149 0.01365 0.2364

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.88 836.4 0.1516 0.3201 0.6125 0.01634 0.005217 0.6613
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4806 0.2954 0.3632 0.04027 0.1695 0.1795
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2128 0.6512 0.5782 0.01812 0.004645 0.3377
k(pl) x(ilm) Q(ilm)
0.03774 0.7348 0.5170

mode liq bi cd g pl ilm q
0.3024 0.1027 0 0.1285 0.2155 0.01361 0.2373

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.90 835.7 0.1510 0.3195 0.6133 0.01628 0.005127 0.6618
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4819 0.2962 0.3653 0.04022 0.1692 0.1789
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2132 0.6535 0.5794 0.01813 0.004611 0.3371
k(pl) x(ilm) Q(ilm)
0.03769 0.7342 0.5165

mode liq bi cd g pl ilm q
0.3005 0.1036 0 0.1280 0.2161 0.01358 0.2382

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.92 835.0 0.1505 0.3189 0.6141 0.01622 0.005039 0.6622
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4832 0.2971 0.3674 0.04017 0.1688 0.1782
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2136 0.6557 0.5805 0.01814 0.004578 0.3365
k(pl) x(ilm) Q(ilm)
0.03762 0.7337 0.5160

mode liq bi cd g pl ilm q
0.2986 0.1045 0 0.1275 0.2166 0.01354 0.2392

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.94 834.4 0.1499 0.3182 0.6148 0.01616 0.004952 0.6627
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4845 0.2979 0.3696 0.04011 0.1684 0.1776
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2141 0.6579 0.5816 0.01814 0.004545 0.3360
k(pl) x(ilm) Q(ilm)
0.03756 0.7331 0.5154

mode liq bi cd g pl ilm q
0.2967 0.1054 0 0.1270 0.2172 0.01351 0.2401

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.96 833.7 0.1493 0.3176 0.6157 0.01610 0.004866 0.6632
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4859 0.2987 0.3717 0.04006 0.1681 0.1770
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2145 0.6601 0.5827 0.01815 0.004512 0.3355
k(pl) x(ilm) Q(ilm)

0.03749 0.7326 0.5149

mode	liq	bi	cd	g	pl	ilm	q
	0.2949	0.1063	0	0.1265	0.2178	0.01347	0.2410

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.98 833.0 0.1487 0.3169 0.6165 0.01604 0.004782 0.6637
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4872 0.2995 0.3738 0.04000 0.1677 0.1764
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2149 0.6624 0.5838 0.01816 0.004479 0.3349
k(pl) x(ilm) Q(ilm)
0.03741 0.7320 0.5144

mode	liq	bi	cd	g	pl	ilm	q
	0.2930	0.1072	0	0.1260	0.2184	0.01344	0.2419

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 832.3 0.1481 0.3162 0.6173 0.01598 0.004698 0.6642
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4885 0.3003 0.3759 0.03994 0.1673 0.1758
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2153 0.6646 0.5850 0.01817 0.004446 0.3344
k(pl) x(ilm) Q(ilm)
0.03734 0.7314 0.5139

mode	liq	bi	cd	g	pl	ilm	q
	0.2911	0.1081	0	0.1255	0.2189	0.01340	0.2429

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : bi, g, mu, pl, ilm, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.00 595.2 0.4303 0.3006 0.03290 0.06156 0.3141 0.7934
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02979 0.001285 0.3642 0.9997 0.9685 0.2670
k(pl) x(ilm) Q(ilm)
0.002541 0.7707 0.6990

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2315	0.02509	0	0.3117	0.01412	0.02922	0.3483	0.04001

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.07 596.2 0.4303 0.3003 0.03292 0.06190 0.3138 0.7934
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03038 0.001307 0.3647 0.9997 0.9680 0.2669

k(pl) x(ilm) Q(ilm)
0.002581 0.7704 0.6983

mode bi g mu pl ilm ky q H2O
0.2315 0.02515 0 0.3117 0.01410 0.02924 0.3483 0.04002

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.14 597.2 0.4303 0.3000 0.03295 0.06224 0.3136 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03098 0.001330 0.3652 0.9997 0.9676 0.2668
k(pl) x(ilm) Q(ilm)
0.002621 0.7700 0.6976

mode bi g mu pl ilm ky q H2O
0.2315 0.02521 0 0.3117 0.01408 0.02926 0.3483 0.04004

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.21 598.2 0.4303 0.2996 0.03297 0.06259 0.3133 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03159 0.001353 0.3657 0.9997 0.9671 0.2668
k(pl) x(ilm) Q(ilm)
0.002662 0.7697 0.6968

mode bi g mu pl ilm ky q H2O
0.2315 0.02527 0 0.3116 0.01406 0.02928 0.3482 0.04005

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.28 599.2 0.4303 0.2993 0.03300 0.06293 0.3131 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03222 0.001377 0.3662 0.9997 0.9667 0.2667
k(pl) x(ilm) Q(ilm)
0.002703 0.7694 0.6961

mode bi g mu pl ilm ky q H2O
0.2314 0.02534 0 0.3116 0.01404 0.02930 0.3482 0.04006

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.35 600.2 0.4303 0.2989 0.03303 0.06327 0.3128 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03285 0.001402 0.3667 0.9997 0.9662 0.2666
k(pl) x(ilm) Q(ilm)
0.002745 0.7691 0.6953

mode bi g mu pl ilm ky q H2O
0.2314 0.02540 0 0.3116 0.01401 0.02932 0.3482 0.04008

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.42 601.2 0.4303 0.2986 0.03305 0.06362 0.3125 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03351 0.001427 0.3672 0.9997 0.9657 0.2665

k(pl) x(ilm) Q(ilm)
0.002788 0.7688 0.6945

mode bi g mu pl ilm ky q H2O
0.2314 0.02547 0 0.3116 0.01399 0.02934 0.3481 0.04009

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.49 602.2 0.4302 0.2983 0.03308 0.06397 0.3123 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03417 0.001453 0.3677 0.9997 0.9652 0.2664
k(pl) x(ilm) Q(ilm)
0.002831 0.7684 0.6938

mode bi g mu pl ilm ky q H2O
0.2314 0.02553 0 0.3116 0.01397 0.02936 0.3481 0.04010

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.56 603.2 0.4302 0.2979 0.03311 0.06431 0.3120 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03485 0.001479 0.3682 0.9996 0.9647 0.2663
k(pl) x(ilm) Q(ilm)
0.002875 0.7681 0.6930

mode bi g mu pl ilm ky q H2O
0.2313 0.02560 0 0.3115 0.01395 0.02938 0.3481 0.04012

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.63 604.1 0.4302 0.2976 0.03313 0.06466 0.3118 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03554 0.001506 0.3686 0.9996 0.9642 0.2662
k(pl) x(ilm) Q(ilm)
0.002920 0.7678 0.6922

mode bi g mu pl ilm ky q H2O
0.2313 0.02567 0 0.3115 0.01393 0.02940 0.3480 0.04013

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.70 605.1 0.4302 0.2973 0.03316 0.06502 0.3115 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03625 0.001534 0.3691 0.9996 0.9637 0.2661
k(pl) x(ilm) Q(ilm)
0.002965 0.7674 0.6915

mode bi g mu pl ilm ky q H2O
0.2313 0.02574 0 0.3115 0.01390 0.02942 0.3480 0.04015

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.77 606.1 0.4302 0.2969 0.03319 0.06537 0.3113 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03698 0.001563 0.3696 0.9996 0.9631 0.2660

k(pl) x(ilm) Q(ilm)
0.003011 0.7671 0.6907

mode bi g mu pl ilm ky q H2O
0.2313 0.02581 0 0.3115 0.01388 0.02943 0.3480 0.04016

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.84 607.1 0.4301 0.2966 0.03321 0.06572 0.3110 0.7933
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03772 0.001593 0.3701 0.9996 0.9626 0.2659
k(pl) x(ilm) Q(ilm)
0.003058 0.7668 0.6899

mode bi g mu pl ilm ky q H2O
0.2312 0.02588 0 0.3115 0.01386 0.02945 0.3479 0.04017

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.91 608.0 0.4301 0.2963 0.03324 0.06608 0.3107 0.7934
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03848 0.001623 0.3705 0.9996 0.9620 0.2658
k(pl) x(ilm) Q(ilm)
0.003105 0.7664 0.6891

mode bi g mu pl ilm ky q H2O
0.2312 0.02596 0 0.3114 0.01384 0.02947 0.3479 0.04019

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.98 609.0 0.4301 0.2959 0.03327 0.06643 0.3105 0.7934
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03925 0.001654 0.3710 0.9996 0.9614 0.2657
k(pl) x(ilm) Q(ilm)
0.003153 0.7661 0.6883

mode bi g mu pl ilm ky q H2O
0.2312 0.02603 0 0.3114 0.01381 0.02950 0.3479 0.04020

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.05 610.0 0.4301 0.2956 0.03330 0.06679 0.3102 0.7934
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04004 0.001686 0.3715 0.9996 0.9609 0.2656
k(pl) x(ilm) Q(ilm)
0.003202 0.7658 0.6875

mode bi g mu pl ilm ky q H2O
0.2311 0.02611 0 0.3114 0.01379 0.02952 0.3478 0.04022

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.12 610.9 0.4300 0.2953 0.03332 0.06715 0.3100 0.7934
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04085 0.001719 0.3719 0.9996 0.9603 0.2655

k(pl) x(ilm) Q(ilm)
0.003251 0.7654 0.6867

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2311	0.02618	0	0.3114	0.01377	0.02954	0.3478	0.04023

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.19 611.9 0.4300 0.2950 0.03335 0.06751 0.3097 0.7935
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04167 0.001753 0.3724 0.9996 0.9597 0.2654
k(pl) x(ilm) Q(ilm)
0.003301 0.7651 0.6859

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2311	0.02626	0	0.3113	0.01375	0.02956	0.3478	0.04025

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.26 612.9 0.4300 0.2946 0.03338 0.06787 0.3095 0.7935
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04251 0.001788 0.3728 0.9995 0.9590 0.2653
k(pl) x(ilm) Q(ilm)
0.003352 0.7647 0.6851

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2311	0.02634	0	0.3113	0.01372	0.02958	0.3477	0.04026

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.33 613.8 0.4299 0.2943 0.03340 0.06824 0.3092 0.7936
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04337 0.001824 0.3733 0.9995 0.9584 0.2652
k(pl) x(ilm) Q(ilm)
0.003404 0.7644 0.6843

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2310	0.02642	0	0.3113	0.01370	0.02960	0.3477	0.04028

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.40 614.8 0.4299 0.2940 0.03343 0.06860 0.3089 0.7936
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04426 0.001861 0.3737 0.9995 0.9577 0.2650
k(pl) x(ilm) Q(ilm)
0.003456 0.7640 0.6835

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2310	0.02650	0	0.3112	0.01368	0.02962	0.3477	0.04029

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.47 615.7 0.4298 0.2937 0.03346 0.06897 0.3087 0.7937
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04516 0.001900 0.3742 0.9995 0.9571 0.2649

k(pl) x(ilm) Q(ilm)
0.003510 0.7637 0.6827

mode bi g mu pl ilm ky q H2O
0.2310 0.02659 0 0.3112 0.01365 0.02964 0.3476 0.04030

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.54 616.7 0.4298 0.2934 0.03349 0.06934 0.3084 0.7938
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04608 0.001939 0.3746 0.9995 0.9564 0.2648
k(pl) x(ilm) Q(ilm)
0.003564 0.7633 0.6819

mode bi g mu pl ilm ky q H2O
0.2309 0.02667 0 0.3112 0.01363 0.02966 0.3476 0.04032

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.61 617.6 0.4298 0.2931 0.03352 0.06971 0.3082 0.7938
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04702 0.001980 0.3750 0.9995 0.9557 0.2646
k(pl) x(ilm) Q(ilm)
0.003619 0.7630 0.6810

mode bi g mu pl ilm ky q H2O
0.2309 0.02676 0 0.3111 0.01361 0.02968 0.3476 0.04034

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.68 618.6 0.4297 0.2928 0.03354 0.07008 0.3079 0.7939
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04798 0.002022 0.3755 0.9995 0.9550 0.2645
k(pl) x(ilm) Q(ilm)
0.003675 0.7626 0.6802

mode bi g mu pl ilm ky q H2O
0.2309 0.02685 0 0.3111 0.01358 0.02970 0.3475 0.04035

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.75 619.5 0.4297 0.2924 0.03357 0.07046 0.3076 0.7940
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04896 0.002065 0.3759 0.9995 0.9543 0.2644
k(pl) x(ilm) Q(ilm)
0.003732 0.7622 0.6794

mode bi g mu pl ilm ky q H2O
0.2308 0.02694 0 0.3111 0.01356 0.02973 0.3475 0.04037

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.82 620.5 0.4296 0.2921 0.03360 0.07083 0.3074 0.7940
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04996 0.002110 0.3763 0.9994 0.9535 0.2642

k(pl) x(ilm) Q(ilm)
0.003790 0.7619 0.6785

mode bi g mu pl ilm ky q H2O
0.2308 0.02703 0 0.3110 0.01354 0.02975 0.3475 0.04038

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.89 621.4 0.4296 0.2918 0.03363 0.07121 0.3071 0.7941
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05099 0.002156 0.3768 0.9994 0.9527 0.2641
k(pl) x(ilm) Q(ilm)
0.003849 0.7615 0.6777

mode bi g mu pl ilm ky q H2O
0.2307 0.02712 0 0.3110 0.01351 0.02977 0.3475 0.04040

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.96 622.4 0.4295 0.2915 0.03366 0.07159 0.3068 0.7942
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05204 0.002204 0.3772 0.9994 0.9519 0.2639
k(pl) x(ilm) Q(ilm)
0.003909 0.7611 0.6768

mode bi g mu pl ilm ky q H2O
0.2307 0.02722 0 0.3110 0.01349 0.02979 0.3474 0.04041

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.03 623.3 0.4294 0.2912 0.03369 0.07197 0.3066 0.7943
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05312 0.002253 0.3776 0.9994 0.9511 0.2638
k(pl) x(ilm) Q(ilm)
0.003969 0.7608 0.6760

mode bi g mu pl ilm ky q H2O
0.2307 0.02732 0 0.3109 0.01346 0.02981 0.3474 0.04043

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.10 624.3 0.4294 0.2909 0.03371 0.07235 0.3063 0.7944
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05421 0.002304 0.3780 0.9994 0.9503 0.2636
k(pl) x(ilm) Q(ilm)
0.004031 0.7604 0.6751

mode bi g mu pl ilm ky q H2O
0.2306 0.02742 0 0.3109 0.01344 0.02984 0.3474 0.04044

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.17 625.2 0.4293 0.2907 0.03374 0.07274 0.3060 0.7945
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05534 0.002357 0.3785 0.9994 0.9494 0.2634

k(pl) x(ilm) Q(ilm)
0.004094 0.7600 0.6743

mode bi g mu pl ilm ky q H2O
0.2306 0.02752 0 0.3108 0.01342 0.02986 0.3473 0.04046

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.24 626.2 0.4293 0.2904 0.03377 0.07313 0.3057 0.7946
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05648 0.002411 0.3789 0.9993 0.9485 0.2633
k(pl) x(ilm) Q(ilm)
0.004158 0.7596 0.6734

mode bi g mu pl ilm ky q H2O
0.2305 0.02762 0 0.3108 0.01339 0.02988 0.3473 0.04048

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.31 627.1 0.4292 0.2901 0.03380 0.07352 0.3055 0.7947
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05766 0.002467 0.3793 0.9993 0.9476 0.2631
k(pl) x(ilm) Q(ilm)
0.004223 0.7593 0.6725

mode bi g mu pl ilm ky q H2O
0.2305 0.02773 0 0.3107 0.01337 0.02990 0.3473 0.04049

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.38 628.1 0.4291 0.2898 0.03383 0.07391 0.3052 0.7948
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05886 0.002526 0.3797 0.9993 0.9467 0.2629
k(pl) x(ilm) Q(ilm)
0.004289 0.7589 0.6716

mode bi g mu pl ilm ky q H2O
0.2305 0.02783 0 0.3107 0.01334 0.02993 0.3472 0.04051

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.45 629.0 0.4291 0.2895 0.03386 0.07430 0.3049 0.7950
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06008 0.002586 0.3801 0.9993 0.9457 0.2627
k(pl) x(ilm) Q(ilm)
0.004357 0.7585 0.6708

mode bi g mu pl ilm ky q H2O
0.2304 0.02794 0 0.3107 0.01332 0.02995 0.3472 0.04053

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.52 629.9 0.4290 0.2893 0.03389 0.07470 0.3046 0.7951
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06134 0.002649 0.3805 0.9993 0.9447 0.2626

k(pl) x(ilm) Q(ilm)
0.004425 0.7581 0.6699

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2304	0.02806	0	0.3106	0.01329	0.02997	0.3472	0.04054

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.59 630.9 0.4289 0.2890 0.03392 0.07510 0.3044 0.7952
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06262 0.002713 0.3809 0.9993 0.9437 0.2624
k(pl) x(ilm) Q(ilm)
0.004495 0.7577 0.6690

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2303	0.02817	0	0.3106	0.01327	0.03000	0.3471	0.04056

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.66 631.8 0.4288 0.2887 0.03395 0.07550 0.3041 0.7953
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06393 0.002781 0.3813 0.9992 0.9426 0.2622
k(pl) x(ilm) Q(ilm)
0.004566 0.7573 0.6681

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2303	0.02829	0	0.3105	0.01324	0.03002	0.3471	0.04058

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.73 632.8 0.4288 0.2885 0.03398 0.07590 0.3038 0.7955
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06527 0.002850 0.3817 0.9992 0.9415 0.2620
k(pl) x(ilm) Q(ilm)
0.004639 0.7569 0.6672

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2302	0.02841	0	0.3104	0.01322	0.03004	0.3471	0.04059

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.80 633.7 0.4287 0.2882 0.03402 0.07631 0.3035 0.7956
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06664 0.002922 0.3821 0.9992 0.9404 0.2617
k(pl) x(ilm) Q(ilm)
0.004713 0.7565 0.6663

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2302	0.02853	0	0.3104	0.01319	0.03007	0.3470	0.04061

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.87 634.6 0.4286 0.2879 0.03405 0.07672 0.3032 0.7958
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06804 0.002997 0.3824 0.9992 0.9392 0.2615

k(pl) x(ilm) Q(ilm)
0.004788 0.7561 0.6653

mode bi g mu pl ilm ky q H2O
0.2301 0.02865 0 0.3103 0.01316 0.03009 0.3470 0.04063

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.94 635.6 0.4285 0.2877 0.03408 0.07713 0.3029 0.7959
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06948 0.003074 0.3828 0.9991 0.9380 0.2613
k(pl) x(ilm) Q(ilm)
0.004864 0.7557 0.6644

mode bi g mu pl ilm ky q H2O
0.2301 0.02878 0 0.3103 0.01314 0.03012 0.3470 0.04065

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.01 636.5 0.4284 0.2874 0.03411 0.07754 0.3026 0.7961
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07094 0.003155 0.3832 0.9991 0.9367 0.2611
k(pl) x(ilm) Q(ilm)
0.004943 0.7553 0.6635

mode bi g mu pl ilm ky q H2O
0.2300 0.02891 0 0.3102 0.01311 0.03014 0.3469 0.04067

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.08 637.5 0.4283 0.2872 0.03414 0.07796 0.3023 0.7962
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07244 0.003238 0.3836 0.9991 0.9354 0.2608
k(pl) x(ilm) Q(ilm)
0.005022 0.7549 0.6626

mode bi g mu pl ilm ky q H2O
0.2300 0.02904 0 0.3101 0.01308 0.03017 0.3469 0.04068

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.15 638.4 0.4282 0.2870 0.03417 0.07837 0.3020 0.7964
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07397 0.003325 0.3839 0.9991 0.9340 0.2606
k(pl) x(ilm) Q(ilm)
0.005103 0.7545 0.6616

mode bi g mu pl ilm ky q H2O
0.2299 0.02918 0 0.3101 0.01306 0.03019 0.3469 0.04070

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.22 639.4 0.4281 0.2867 0.03421 0.07880 0.3017 0.7965
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07553 0.003415 0.3843 0.9990 0.9326 0.2603

k(pl) x(ilm) Q(ilm)
0.005186 0.7541 0.6607

mode bi g mu pl ilm ky q H2O
0.2299 0.02932 0 0.3100 0.01303 0.03022 0.3468 0.04072

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.29 640.3 0.4280 0.2865 0.03424 0.07922 0.3014 0.7967
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07713 0.003508 0.3847 0.9990 0.9311 0.2601
k(pl) x(ilm) Q(ilm)
0.005271 0.7537 0.6597

mode bi g mu pl ilm ky q H2O
0.2298 0.02946 0 0.3099 0.01300 0.03025 0.3468 0.04074

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.36 641.3 0.4279 0.2863 0.03427 0.07965 0.3010 0.7969
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07876 0.003605 0.3850 0.9990 0.9295 0.2598
k(pl) x(ilm) Q(ilm)
0.005357 0.7533 0.6588

mode bi g mu pl ilm ky q H2O
0.2298 0.02961 0 0.3098 0.01298 0.03027 0.3468 0.04076

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.43 642.2 0.4278 0.2861 0.03431 0.08008 0.3007 0.7970
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08043 0.003706 0.3854 0.9990 0.9279 0.2596
k(pl) x(ilm) Q(ilm)
0.005445 0.7529 0.6578

mode bi g mu pl ilm ky q H2O
0.2297 0.02976 0 0.3098 0.01295 0.03030 0.3467 0.04078

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.50 643.2 0.4277 0.2859 0.03434 0.08051 0.3004 0.7972
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08213 0.003811 0.3857 0.9989 0.9261 0.2593
k(pl) x(ilm) Q(ilm)
0.005535 0.7525 0.6568

mode bi g mu pl ilm ky q H2O
0.2297 0.02991 0 0.3097 0.01292 0.03033 0.3467 0.04080

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.57 644.1 0.4276 0.2857 0.03438 0.08095 0.3001 0.7974
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08387 0.003920 0.3861 0.9989 0.9243 0.2590

k(pl) x(ilm) Q(ilm)
0.005627 0.7520 0.6559

mode bi g mu pl ilm ky q H2O
0.2296 0.03007 0 0.3096 0.01289 0.03036 0.3467 0.04082

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.64 645.1 0.4274 0.2855 0.03441 0.08139 0.2997 0.7976
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08565 0.004033 0.3864 0.9988 0.9224 0.2587
k(pl) x(ilm) Q(ilm)
0.005721 0.7516 0.6549

mode bi g mu pl ilm ky q H2O
0.2295 0.03023 0 0.3095 0.01287 0.03038 0.3466 0.04084

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.71 646.0 0.4273 0.2853 0.03445 0.08183 0.2994 0.7977
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08746 0.004150 0.3868 0.9988 0.9204 0.2584
k(pl) x(ilm) Q(ilm)
0.005817 0.7512 0.6539

mode bi g mu pl ilm ky q H2O
0.2295 0.03039 0 0.3094 0.01284 0.03041 0.3466 0.04086

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.78 647.0 0.4272 0.2851 0.03448 0.08228 0.2991 0.7979
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08931 0.004272 0.3871 0.9988 0.9182 0.2581
k(pl) x(ilm) Q(ilm)
0.005915 0.7508 0.6529

mode bi g mu pl ilm ky q H2O
0.2294 0.03056 0 0.3093 0.01281 0.03044 0.3466 0.04088

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.85 647.9 0.4270 0.2849 0.03452 0.08273 0.2987 0.7981
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09120 0.004399 0.3875 0.9987 0.9159 0.2577
k(pl) x(ilm) Q(ilm)
0.006015 0.7503 0.6519

mode bi g mu pl ilm ky q H2O
0.2293 0.03073 0 0.3092 0.01278 0.03047 0.3465 0.04090

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.92 648.9 0.4269 0.2847 0.03455 0.08319 0.2983 0.7983
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09313 0.004531 0.3878 0.9987 0.9135 0.2574

k(pl) x(ilm) Q(ilm)
0.006117 0.7499 0.6509

mode bi g mu pl ilm ky q H2O
0.2293 0.03091 0 0.3091 0.01275 0.03050 0.3465 0.04092

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.99 649.9 0.4268 0.2846 0.03459 0.08365 0.2980 0.7985
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09509 0.004668 0.3881 0.9986 0.9109 0.2570
k(pl) x(ilm) Q(ilm)
0.006222 0.7495 0.6499

mode bi g mu pl ilm ky q H2O
0.2292 0.03109 0 0.3090 0.01272 0.03053 0.3465 0.04094

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.06 650.8 0.4266 0.2844 0.03463 0.08411 0.2976 0.7987
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09709 0.004811 0.3884 0.9986 0.9080 0.2567
k(pl) x(ilm) Q(ilm)
0.006330 0.7491 0.6489

mode bi g mu pl ilm ky q H2O
0.2291 0.03128 0 0.3089 0.01269 0.03056 0.3464 0.04096

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.13 651.8 0.4265 0.2843 0.03466 0.08458 0.2973 0.7988
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09913 0.004959 0.3888 0.9985 0.9050 0.2563
k(pl) x(ilm) Q(ilm)
0.006440 0.7486 0.6478

mode bi g mu pl ilm ky q H2O
0.2291 0.03147 0 0.3088 0.01266 0.03060 0.3464 0.04098

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.20 652.8 0.4263 0.2841 0.03470 0.08505 0.2969 0.7990
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1012 0.005113 0.3891 0.9984 0.9017 0.2559
k(pl) x(ilm) Q(ilm)
0.006552 0.7482 0.6468

mode bi g mu pl ilm ky q H2O
0.2290 0.03166 0 0.3087 0.01263 0.03063 0.3464 0.04100

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.27 653.8 0.4262 0.2840 0.03474 0.08552 0.2965 0.7992
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1033 0.005273 0.3894 0.9984 0.8980 0.2556

k(pl) x(ilm) Q(ilm)
0.006668 0.7477 0.6458

mode bi g mu pl ilm ky q H2O
0.2289 0.03186 0 0.3086 0.01260 0.03066 0.3463 0.04103

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.34 654.8 0.4260 0.2838 0.03478 0.08601 0.2961 0.7994
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1055 0.005440 0.3897 0.9983 0.8939 0.2552
k(pl) x(ilm) Q(ilm)
0.006786 0.7473 0.6447

mode bi g mu pl ilm ky q H2O
0.2288 0.03207 0 0.3085 0.01257 0.03069 0.3463 0.04105

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.41 655.8 0.4258 0.2837 0.03482 0.08649 0.2957 0.7996
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1077 0.005612 0.3900 0.9982 0.8893 0.2547
k(pl) x(ilm) Q(ilm)
0.006908 0.7469 0.6437

mode bi g mu pl ilm ky q H2O
0.2287 0.03228 0 0.3084 0.01253 0.03072 0.3463 0.04107

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.48 656.8 0.4257 0.2836 0.03486 0.08698 0.2953 0.7997
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1099 0.005791 0.3903 0.9981 0.8839 0.2543
k(pl) x(ilm) Q(ilm)
0.007033 0.7464 0.6426

mode bi g mu pl ilm ky q H2O
0.2287 0.03249 0 0.3082 0.01250 0.03076 0.3463 0.04110

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.55 657.8 0.4255 0.2835 0.03490 0.08748 0.2949 0.7999
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1121 0.005977 0.3906 0.9980 0.8776 0.2539
k(pl) x(ilm) Q(ilm)
0.007161 0.7460 0.6415

mode bi g mu pl ilm ky q H2O
0.2286 0.03272 0 0.3081 0.01247 0.03079 0.3462 0.04112

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.62 658.8 0.4253 0.2834 0.03494 0.08798 0.2944 0.8001
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1144 0.006170 0.3909 0.9978 0.8699 0.2534

k(pl) x(ilm) Q(ilm)
0.007293 0.7455 0.6404

mode bi g mu pl ilm ky q H2O
0.2285 0.03294 0 0.3080 0.01244 0.03083 0.3462 0.04114

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.69 659.9 0.4251 0.2834 0.03498 0.08850 0.2940 0.8002
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1167 0.006369 0.3912 0.9976 0.8594 0.2530
k(pl) x(ilm) Q(ilm)
0.007429 0.7451 0.6393

mode bi g mu pl ilm ky q H2O
0.2284 0.03318 0 0.3078 0.01240 0.03086 0.3462 0.04117

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.76 660.9 0.4249 0.2833 0.03502 0.08902 0.2935 0.8004
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1191 0.006575 0.3915 0.9972 0.8419 0.2525
k(pl) x(ilm) Q(ilm)
0.007570 0.7446 0.6382

mode bi g mu pl ilm ky q H2O
0.2283 0.03342 0 0.3077 0.01237 0.03089 0.3461 0.04119

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, q

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, g, ksp, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.24 884.8 0.1066 0.3190 0.5545 0.03124 0.004022 0.6176
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.5310 0.4895 0.06177 0.01411 0.3116 0.02127
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2427 0.08292 0.4872 6.473e-5 0.3105 0.2267

mode liq g ksp pl ilm ru ky q
0.3105 0.2267 0.05088 0.1788 0.007354 0.005322 0 0.2204

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.32    888.3  0.1072 0.3204  0.5548 0.03191 0.004118 0.6192
          h2o(L)  x(g)  z(g)  f(g) na(ksp) ca(ksp)
          0.5281 0.4893 0.06202 0.01430 0.3144 0.02170
          ca(pl) k(pl) x(ilm) Q(ilm)  liq  g
          0.2413 0.08426 0.4879 6.434e-5 0.3133 0.2266

mode  liq  g  ksp  pl  ilm  ru  ky  q
      0.3133 0.2266 0.04989 0.1777 0.007333 0.005324 0 0.2199

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.48    895.1  0.1083 0.3232  0.5556 0.03324 0.004313 0.6222
          h2o(L)  x(g)  z(g)  f(g) na(ksp) ca(ksp)
          0.5224 0.4891 0.06253 0.01469 0.3198 0.02255
          ca(pl) k(pl) x(ilm) Q(ilm)  liq  g
          0.2386 0.08700 0.4892 6.354e-5 0.3190 0.2264

mode  liq  g  ksp  pl  ilm  ru  ky  q
      0.3190 0.2264 0.04791 0.1753 0.007288 0.005328 0 0.2187

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.56    898.5  0.1088 0.3246  0.5560 0.03391 0.004412 0.6237
          h2o(L)  x(g)  z(g)  f(g) na(ksp) ca(ksp)
          0.5196 0.4890 0.06278 0.01488 0.3226 0.02299
          ca(pl) k(pl) x(ilm) Q(ilm)  liq  g
          0.2372 0.08840 0.4898 6.314e-5 0.3219 0.2264

mode  liq  g  ksp  pl  ilm  ru  ky  q
      0.3219 0.2264 0.04693 0.1741 0.007266 0.005331 0 0.2181

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.72    905.2  0.1099 0.3273  0.5570 0.03525 0.004614 0.6266
          h2o(L)  x(g)  z(g)  f(g) na(ksp) ca(ksp)
          0.5140 0.4887 0.06329 0.01527 0.3281 0.02387
          ca(pl) k(pl) x(ilm) Q(ilm)  liq  g
          0.2342 0.09126 0.4909 6.234e-5 0.3276 0.2262

mode  liq  g  ksp  pl  ilm  ru  ky  q
      0.3276 0.2262 0.04499 0.1717 0.007219 0.005336 0 0.2170

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.88    911.8  0.1109 0.3299  0.5582 0.03661 0.004820 0.6294
          h2o(L)  x(g)  z(g)  f(g) na(ksp) ca(ksp)
          0.5085 0.4885 0.06379 0.01566 0.3338 0.02476
          ca(pl) k(pl) x(ilm) Q(ilm)  liq  g
          0.2312 0.09421 0.4920 6.153e-5 0.3334 0.2260

mode  liq  g  ksp  pl  ilm  ru  ky  q
      0.3334 0.2260 0.04306 0.1692 0.007172 0.005341 0 0.2158

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.04    918.2  0.1118  0.3325  0.5595  0.03798 0.005031 0.6321
        h2o(L)  x(g)  z(g)  f(g)  na(ksp)  ca(ksp)
        0.5031  0.4882  0.06429 0.01605  0.3395  0.02568
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq    g
        0.2280  0.09726 0.4930 6.072e-5 0.3392 0.2258

mode     liq    g    ksp    pl    ilm    ru    ky    q
        0.3392  0.2258 0.04116 0.1667 0.007123 0.005348    0 0.2147

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.20    924.6  0.1128  0.3349  0.5609  0.03935 0.005247 0.6347
        h2o(L)  x(g)  z(g)  f(g)  na(ksp)  ca(ksp)
        0.4979  0.4879 0.06478 0.01644  0.3453  0.02661
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq    g
        0.2247  0.1004 0.4938 5.992e-5 0.3450 0.2256

mode     liq    g    ksp    pl    ilm    ru    ky    q
        0.3450  0.2256 0.03930 0.1641 0.007073 0.005354    0 0.2135

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.28    927.7  0.1132  0.3362  0.5617  0.04003 0.005357 0.6360
        h2o(L)  x(g)  z(g)  f(g)  na(ksp)  ca(ksp)
        0.4952  0.4878 0.06503 0.01664  0.3482  0.02709
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq    g
        0.2230  0.1020 0.4943 5.952e-5 0.3479 0.2255

mode     liq    g    ksp    pl    ilm    ru    ky    q
        0.3479  0.2255 0.03838 0.1628 0.007048 0.005358    0 0.2130

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.00    625.7  0.4395  0.1373  0.02526 0.07878 0.4009 0.2572
        Q(ep)  x(g)  z(g)  f(g)  fe(mu)  y(mu)
        0.2466  0.8508 0.2592 0.02336 0.4058 0.9980

```


na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9559 0.1358 0.006357 0.8464 0.7849 0.2267

mode bi ep g mu pl ilm ru q H2O
0.2267 0.04214 0.04402 0.1571 0.1488 0 0.004454 0.3642 0.01265

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.10 631.0 0.4365 0.1454 0.02704 0.08067 0.3929 0.2612
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2499 0.8469 0.2554 0.02367 0.4045 0.9979
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9508 0.1398 0.006827 0.8299 0.7628 0.2254

mode bi ep g mu pl ilm ru q H2O
0.2254 0.04059 0.04604 0.1540 0.1524 0 0.004410 0.3637 0.01345

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.20 635.3 0.4340 0.1516 0.02847 0.08224 0.3866 0.2645
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2526 0.8437 0.2530 0.02405 0.4033 0.9978
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9460 0.1424 0.007246 0.8147 0.7422 0.2242

mode bi ep g mu pl ilm ru q H2O
0.2242 0.03934 0.04780 0.1517 0.1553 0 0.004374 0.3633 0.01408

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.30 639.1 0.4317 0.1568 0.02969 0.08362 0.3814 0.2672
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2547 0.8409 0.2515 0.02448 0.4022 0.9977
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9413 0.1440 0.007636 0.8001 0.7220 0.2231

mode bi ep g mu pl ilm ru q H2O
0.2231 0.03828 0.04942 0.1498 0.1576 0 0.004344 0.3629 0.01462

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.40 642.5 0.4296 0.1610 0.03075 0.08486 0.3769 0.2696
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2566 0.8384 0.2506 0.02494 0.4012 0.9976
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9367 0.1450 0.008008 0.7855 0.7017 0.2220

mode bi ep g mu pl ilm ru q H2O
0.2220 0.03735 0.05095 0.1482 0.1596 0 0.004319 0.3625 0.01509

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.50 645.6 0.4275 0.1646 0.03169 0.08601 0.3730 0.2718
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2583 0.8361 0.2501 0.02543 0.4002 0.9975

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9320 0.1455 0.008365 0.7708 0.6809 0.2210

mode bi ep g mu pl ilm ru q H2O
0.2210 0.03651 0.05243 0.1469 0.1613 0 0.004296 0.3622 0.01551

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.60 648.5 0.4255 0.1677 0.03252 0.08707 0.3697 0.2737
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2598 0.8340 0.2500 0.02595 0.3993 0.9973
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9272 0.1456 0.008711 0.7557 0.6590 0.2199

mode bi ep g mu pl ilm ru q H2O
0.2199 0.03574 0.05388 0.1457 0.1627 0 0.004276 0.3618 0.01590

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.70 651.2 0.4236 0.1702 0.03328 0.08807 0.3667 0.2754
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2611 0.8320 0.2502 0.02649 0.3983 0.9972
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9224 0.1453 0.009047 0.7398 0.6357 0.2189

mode bi ep g mu pl ilm ru q H2O
0.2189 0.03503 0.05531 0.1448 0.1640 0 0.004258 0.3615 0.01624

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.80 653.7 0.4217 0.1723 0.03396 0.08900 0.3642 0.2770
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2623 0.8302 0.2507 0.02706 0.3973 0.9970
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9174 0.1448 0.009374 0.7229 0.6103 0.2178

mode bi ep g mu pl ilm ru q H2O
0.2178 0.03437 0.05674 0.1440 0.1651 0 0.004243 0.3612 0.01656

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.00 658.8 0.4174 0.1762 0.03542 0.09087 0.3594 0.2806
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2650 0.8261 0.2514 0.02827 0.3949 0.9966
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9057 0.1435 0.01003 0.5075 0.1278 0.2154

mode bi ep g mu pl ilm ru q H2O
0.2154 0.03295 0.05987 0.1424 0.1675 0 0.004217 0.3605 0.01724

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.10 660.5 0.4158 0.1765 0.03571 0.09154 0.3584 0.2814
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2656 0.8249 0.2531 0.02890 0.3940 0.9964

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9011 0.1418 0.01030 0.5314 0.2263 0.2145

mode bi ep g mu pl ilm ru q H2O
0.2145 0.03253 0.06112 0.1423 0.1678 0 0.004209 0.3602 0.01741

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.20 662.2 0.4143 0.1765 0.03594 0.09216 0.3577 0.2822
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2660 0.8237 0.2549 0.02956 0.3932 0.9962
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8965 0.1399 0.01056 0.4909 0.001034 0.2135

mode bi ep g mu pl ilm ru q H2O
0.2135 0.03213 0.06237 0.1423 0.1679 0 0.004203 0.3600 0.01756

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.30 663.8 0.4126 0.1764 0.03619 0.09278 0.3572 0.2829
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2666 0.8225 0.2567 0.03024 0.3922 0.9959
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8916 0.1379 0.01081 0.48900.0007517 0.2125

mode bi ep g mu pl ilm ru q H2O
0.2125 0.03171 0.06368 0.1424 0.1681 0 0.004198 0.3597 0.01771

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.40 665.3 0.4109 0.1760 0.03643 0.09337 0.3567 0.2838
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2672 0.8212 0.2586 0.03095 0.3911 0.9957
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8864 0.1359 0.01106 0.48710.0005913 0.2115

mode bi ep g mu pl ilm ru q H2O
0.2115 0.03127 0.06503 0.1425 0.1683 0 0.004194 0.3594 0.01786

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.50 666.8 0.4091 0.1755 0.03667 0.09394 0.3564 0.2846
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2678 0.8200 0.2605 0.03168 0.3900 0.9954
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8810 0.1338 0.01129 0.48510.0004879 0.2104

mode bi ep g mu pl ilm ru q H2O
0.2104 0.03083 0.06642 0.1426 0.1684 0 0.004192 0.3592 0.01801

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.60 668.1 0.4073 0.1748 0.03689 0.09448 0.3563 0.2855
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2684 0.8187 0.2624 0.03243 0.3888 0.9951

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8754 0.1315 0.01151 0.48320.0004157 0.2092

mode bi ep g mu pl ilm ru q H2O
0.2092 0.03037 0.06785 0.1428 0.1685 0 0.004191 0.3589 0.01816

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.70 669.4 0.4054 0.1739 0.03709 0.09499 0.3563 0.2864
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2691 0.8175 0.2644 0.03321 0.3875 0.9948
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8696 0.1292 0.01172 0.48130.0003625 0.2081

mode bi ep g mu pl ilm ru q H2O
0.2081 0.02991 0.06932 0.1431 0.1685 0 0.004192 0.3586 0.01830

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.80 670.7 0.4035 0.1728 0.03729 0.09548 0.3564 0.2873
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2697 0.8162 0.2664 0.03402 0.3862 0.9944
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8636 0.1268 0.01191 0.47930.0003216 0.2069

mode bi ep g mu pl ilm ru q H2O
0.2069 0.02943 0.07083 0.1434 0.1686 0 0.004194 0.3583 0.01844

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.90 671.8 0.4015 0.1715 0.03748 0.09594 0.3568 0.2883
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2704 0.8150 0.2685 0.03485 0.3848 0.9940
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8575 0.1244 0.01209 0.47740.0002893 0.2056

mode bi ep g mu pl ilm ru q H2O
0.2056 0.02893 0.07238 0.1438 0.1686 0 0.004197 0.3579 0.01857

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.00 672.9 0.3995 0.1701 0.03765 0.09637 0.3572 0.2893
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2712 0.8137 0.2706 0.03571 0.3834 0.9936
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8512 0.1218 0.01225 0.47540.0002629 0.2044

mode bi ep g mu pl ilm ru q H2O
0.2044 0.02843 0.07395 0.1442 0.1685 0 0.004202 0.3576 0.01870

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.10 673.9 0.3975 0.1685 0.03781 0.09676 0.3578 0.2903
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2719 0.8124 0.2728 0.03660 0.3818 0.9931

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8449 0.1192 0.01239 0.47350.0002410 0.2031

mode bi ep g mu pl ilm ru q H2O
0.2031 0.02791 0.07555 0.1447 0.1684 0 0.004208 0.3573 0.01882

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.20 674.7 0.3954 0.1667 0.03795 0.09713 0.3585 0.2913
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2727 0.8112 0.2750 0.03751 0.3803 0.9926
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8385 0.1166 0.01252 0.47150.0002227 0.2018

mode bi ep g mu pl ilm ru q H2O
0.2018 0.02738 0.07717 0.1452 0.1683 0 0.004215 0.3570 0.01893

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.30 675.6 0.3933 0.1648 0.03808 0.09747 0.3593 0.2924
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2735 0.8100 0.2772 0.03846 0.3787 0.9921
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8321 0.1139 0.01263 0.46950.0002070 0.2005

mode bi ep g mu pl ilm ru q H2O
0.2005 0.02684 0.07880 0.1458 0.1682 0 0.004223 0.3567 0.01904

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.40 676.3 0.3913 0.1628 0.03820 0.09779 0.3602 0.2934
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2743 0.8087 0.2795 0.03943 0.3770 0.9916
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8257 0.1112 0.01272 0.46760.0001935 0.1992

mode bi ep g mu pl ilm ru q H2O
0.1992 0.02628 0.08044 0.1464 0.1680 0 0.004232 0.3563 0.01914

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.50 677.0 0.3892 0.1606 0.03830 0.09808 0.3612 0.2945
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2751 0.8075 0.2818 0.04043 0.3754 0.9910
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8194 0.1084 0.01279 0.46560.0001816 0.1978

mode bi ep g mu pl ilm ru q H2O
0.1978 0.02571 0.08208 0.1471 0.1678 0 0.004242 0.3560 0.01924

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.60 677.6 0.3872 0.1584 0.03838 0.09834 0.3622 0.2956
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2759 0.8064 0.2842 0.04146 0.3737 0.9904

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8133 0.1057 0.01285 0.46360.0001712 0.1965

mode bi ep g mu pl ilm ru q H2O
0.1965 0.02513 0.08372 0.1478 0.1675 0 0.004252 0.3557 0.01933

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.70 678.1 0.3851 0.1562 0.03846 0.09858 0.3633 0.2967
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2768 0.8052 0.2866 0.04251 0.3721 0.9897
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8073 0.1029 0.01290 0.46160.0001619 0.1953

mode bi ep g mu pl ilm ru q H2O
0.1953 0.02454 0.08535 0.1485 0.1673 0 0.004263 0.3554 0.01941

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.80 678.6 0.3832 0.1539 0.03852 0.09880 0.3644 0.2978
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2776 0.8041 0.2890 0.04360 0.3704 0.9891
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8014 0.1002 0.01294 0.45960.0001536 0.1940

mode bi ep g mu pl ilm ru q H2O
0.1940 0.02394 0.08697 0.1493 0.1670 0 0.004274 0.3551 0.01948

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.90 679.0 0.3812 0.1515 0.03857 0.09901 0.3656 0.2990
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2785 0.8031 0.2915 0.04471 0.3688 0.9884
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7958 0.09749 0.01296 0.45760.0001462 0.1928

mode bi ep g mu pl ilm ru q H2O
0.1928 0.02332 0.08857 0.1501 0.1666 0 0.004285 0.3548 0.01955

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.00 679.4 0.3793 0.1492 0.03861 0.09919 0.3668 0.3001
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2793 0.8020 0.2940 0.04586 0.3672 0.9877
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7904 0.09483 0.01298 0.45570.0001394 0.1916

mode bi ep g mu pl ilm ru q H2O
0.1916 0.02269 0.09015 0.1509 0.1663 0 0.004297 0.3545 0.01961

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	631.1	0.04223	0.1780	0.9141	0.0039110	0.0006188	0.7190
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7750	0.4351	0.1434	0.02641	0.07988	0.3950	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2587	0.2477	0.8458	0.2550	0.02321	0.4028	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9980	0.9539	0.1434	0.006451	0.8387	0.7737	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.02900	0.2243	0.04129	0.04690	0.1547	0.1389		0	0.004445 0.3605

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.10	635.9	0.04254	0.1803	0.9095	0.0041470	0.0006261	0.7187
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7721	0.4316	0.1517	0.02824	0.08181	0.3871	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2626	0.2508	0.8417	0.2511	0.02346	0.4008	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9979	0.9484	0.1473	0.006921	0.8207	0.7496	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.03110	0.2226	0.03977	0.04921	0.1515	0.1416		0	0.004403 0.3597

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	639.9	0.04269	0.1823	0.9058	0.0043380	0.0006322	0.7184
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7698	0.4287	0.1580	0.02970	0.08341	0.3810	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2656	0.2533	0.8383	0.2487	0.02378	0.3991	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	

0.9978 0.9432 0.1497 0.007339 0.8040 0.7269

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.03279	0.2212	0.03855	0.05123	0.1491	0.1437		0.004371	0.3590

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 643.3 0.04274 0.1840 0.9025 0.0045010.0006375 0.7181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7678 0.4260 0.1631 0.03093 0.08481 0.3760
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2682 0.2554 0.8354 0.2472 0.02416 0.3976
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9977 0.9383 0.1512 0.007728 0.7878 0.7044

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.03425	0.2198	0.03752	0.05308	0.1472	0.1453		0.004343	0.3584

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 646.3 0.04273 0.1855 0.8997 0.0046440.0006424 0.7179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7661 0.4235 0.1672 0.03199 0.08608 0.3718
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2705 0.2571 0.8328 0.2463 0.02457 0.3961
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9975 0.9333 0.1519 0.008098 0.7714 0.6814

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.03552	0.2185	0.03663	0.05482	0.1456	0.1466		0.004320	0.3579

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 649.1 0.04267 0.1870 0.8972 0.0047700.0006470 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7646 0.4211 0.1707 0.03292 0.08723 0.3682
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2724 0.2587 0.8305 0.2459 0.02501 0.3947
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9974 0.9283 0.1521 0.008452 0.7547 0.6575

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.03667	0.2173	0.03582	0.05649	0.1443	0.1477		0.004300	0.3574

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 651.7 0.04256 0.1883 0.8949 0.0048830.0006513 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7633 0.4188 0.1735 0.03375 0.08831 0.3651
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2742 0.2600 0.8283 0.2458 0.02549 0.3934
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9973 0.9233 0.1519 0.008794 0.7372 0.6317

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.03770	0.2160	0.03510	0.05812	0.1433	0.1486		0	0.004283 0.3569

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.70	654.0	0.04242	0.1895	0.8929	0.0049830	0.0006554	0.7170
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7621	0.4166	0.1758	0.03448	0.08930	0.3625	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2758	0.2612	0.8263	0.2461	0.02598	0.3920	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9971	0.9181	0.1513	0.009124	0.7183	0.6034	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.03864	0.2148	0.03443	0.05971	0.1424	0.1493		0	0.004268 0.3565

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.90	658.4	0.04210	0.1919	0.8893	0.0051680	0.0006642	0.7161
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7598	0.4120	0.1797	0.03590	0.09122	0.3578	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2790	0.2636	0.8221	0.2468	0.02704	0.3891	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9967	0.9066	0.1496	0.009773	0.5190	0.1843	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04048	0.2122	0.03309	0.06305	0.1408	0.1506		0	0.004244 0.3556

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	659.9	0.04180	0.1927	0.8883	0.0052090	0.0006671	0.7159
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7592	0.4103	0.1798	0.03616	0.09189	0.3571	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2797	0.2641	0.8209	0.2485	0.02762	0.3881	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9965	0.9022	0.1475	0.01004	0.4907	0.001183	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04093	0.2112	0.03271	0.06433	0.1407	0.1505		0	0.004237 0.3553

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.10	661.4	0.04150	0.1935	0.8874	0.0052460	0.0006701	0.7156
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7587	0.4085	0.1799	0.03643	0.09255	0.3564	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2804	0.2646	0.8197	0.2501	0.02822	0.3870	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9963	0.8975	0.1454	0.01030	0.48840	0.0008043	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04138	0.2102	0.03231	0.06566	0.1407	0.1505		0	0.004231 0.3550

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
13.20	662.8	0.04118	0.1943	0.8865	0.0052780	0.0006731	0.7153		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7582	0.4067	0.1797	0.03668	0.09319	0.3558			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2811	0.2651	0.8184	0.2519	0.02884	0.3858			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9961	0.8926	0.1432	0.01056	0.48620	0.0006107			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04181	0.2091	0.03190	0.06702	0.1408	0.1504		0	0.004226 0.3547

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
13.30	664.1	0.04086	0.1951	0.8859	0.0053050	0.0006762	0.7149		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7577	0.4049	0.1794	0.03693	0.09380	0.3555			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2819	0.2657	0.8172	0.2536	0.02949	0.3846			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9959	0.8874	0.1410	0.01081	0.48390	0.0004930			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04223	0.2080	0.03148	0.06841	0.1409	0.1503		0	0.004223 0.3545

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
13.40	665.4	0.04054	0.1958	0.8853	0.0053260	0.0006794	0.7145		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7573	0.4031	0.1788	0.03716	0.09439	0.3552			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2827	0.2663	0.8159	0.2555	0.03016	0.3834			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9956	0.8821	0.1386	0.01104	0.48170	0.0004140			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04263	0.2069	0.03105	0.06983	0.1410	0.1502		0	0.004221 0.3542

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
13.60	667.7	0.03985	0.1971	0.8847	0.0053490	0.0006860	0.7135		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7567	0.3992	0.1771	0.03759	0.09548	0.3552			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2844	0.2675	0.8134	0.2593	0.03157	0.3807			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9950	0.8708	0.1336	0.01148	0.47730	0.0003153			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04338	0.2045	0.03016	0.07277	0.1415	0.1499		0	0.004221 0.3536

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
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13.80 669.7 0.03912 0.1983 0.8847 0.0053460.0006928 0.7123
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7562 0.3952 0.1747 0.03797 0.09646 0.3558
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2861 0.2688 0.8110 0.2633 0.03308 0.3778
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9944 0.8589 0.1283 0.01186 0.47300.0002548

mode liq bi ep g mu pl ilm ru q
 0.04405 0.2021 0.02923 0.07581 0.1422 0.1495 0 0.004226 0.3530

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.00 671.4 0.03834 0.1993 0.8854 0.0053160.0006996 0.7109
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7561 0.3912 0.1715 0.03830 0.09731 0.3569
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2881 0.2703 0.8085 0.2675 0.03471 0.3747
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9936 0.8465 0.1228 0.01218 0.46880.0002149

mode liq bi ep g mu pl ilm ru q
 0.04463 0.1996 0.02825 0.07892 0.1431 0.1489 0 0.004236 0.3524

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.10 672.1 0.03794 0.1997 0.8859 0.0052920.0007030 0.7102
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7561 0.3891 0.1697 0.03844 0.09769 0.3576
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2890 0.2710 0.8073 0.2696 0.03556 0.3731
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9931 0.8403 0.1199 0.01231 0.46660.0001994

mode liq bi ep g mu pl ilm ru q
 0.04488 0.1983 0.02775 0.08049 0.1436 0.1486 0 0.004243 0.3521

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.20 672.8 0.03754 0.2001 0.8865 0.0052620.0007063 0.7094
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7561 0.3871 0.1677 0.03856 0.09804 0.3584
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2901 0.2718 0.8062 0.2719 0.03644 0.3715
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9926 0.8341 0.1170 0.01243 0.46450.0001862

mode liq bi ep g mu pl ilm ru q
 0.04510 0.1971 0.02723 0.08207 0.1442 0.1483 0 0.004250 0.3518

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.30 673.4 0.03712 0.2004 0.8872 0.0052270.0007096 0.7087
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7562 0.3851 0.1656 0.03867 0.09836 0.3594
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2911 0.2726 0.8050 0.2741 0.03735 0.3699
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9921 0.8279 0.1141 0.01253 0.46240.0001748

mode liq bi ep g mu pl ilm ru q
0.04530 0.1958 0.02670 0.08364 0.1448 0.1480 0 0.004259 0.3515

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 674.0 0.03670 0.2008 0.8880 0.0051870.0007128 0.7079
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7564 0.3831 0.1635 0.03876 0.09865 0.3604
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2921 0.2734 0.8039 0.2764 0.03829 0.3683
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9916 0.8218 0.1112 0.01262 0.46040.0001647

mode liq bi ep g mu pl ilm ru q
0.04548 0.1945 0.02616 0.08521 0.1455 0.1476 0 0.004268 0.3512

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 674.5 0.03628 0.2010 0.8889 0.0051420.0007159 0.7071
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7566 0.3812 0.1612 0.03884 0.09892 0.3614
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2932 0.2742 0.8028 0.2788 0.03926 0.3667
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9911 0.8158 0.1083 0.01269 0.45830.0001558

mode liq bi ep g mu pl ilm ru q
0.04563 0.1933 0.02561 0.08676 0.1462 0.1473 0 0.004277 0.3509

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 674.9 0.03585 0.2013 0.8898 0.0050940.0007189 0.7063
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7568 0.3792 0.1589 0.03891 0.09917 0.3625
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2943 0.2750 0.8018 0.2812 0.04026 0.3651
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9905 0.8101 0.1054 0.01275 0.45620.0001479

mode liq bi ep g mu pl ilm ru q
0.04575 0.1921 0.02504 0.08830 0.1469 0.1469 0 0.004287 0.3507

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.70 675.3 0.03542 0.2015 0.8908 0.0050430.0007217 0.7055
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7571 0.3774 0.1566 0.03896 0.09940 0.3637
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2954 0.2759 0.8008 0.2836 0.04128 0.3635
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9899 0.8045 0.1025 0.01280 0.45420.0001408

mode liq bi ep g mu pl ilm ru q
0.04586 0.1909 0.02447 0.08982 0.1477 0.1465 0 0.004297 0.3505

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 675.6 0.03499 0.2017 0.8918 0.0049900.0007245 0.7047
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7574 0.3756 0.1542 0.03900 0.09960 0.3649
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2964 0.2767 0.7998 0.2861 0.04234 0.3620
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9893 0.7991 0.09970 0.01283 0.45220.0001344

mode liq bi ep g mu pl ilm ru q
0.04593 0.1898 0.02388 0.09131 0.1485 0.1460 0 0.004308 0.3502

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.90 675.9 0.03456 0.2018 0.8928 0.0049340.0007270 0.7040
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7577 0.3738 0.1518 0.03903 0.09979 0.3661
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2975 0.2776 0.7989 0.2886 0.04343 0.3605
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9886 0.7940 0.09690 0.01286 0.45020.0001286

mode liq bi ep g mu pl ilm ru q
0.04599 0.1887 0.02329 0.09278 0.1493 0.1456 0 0.004318 0.3500

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 676.2 0.03413 0.2019 0.8939 0.0048760.0007295 0.7032
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7581 0.3721 0.1494 0.03904 0.09997 0.3673
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2986 0.2784 0.7980 0.2912 0.04455 0.3590
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9880 0.7891 0.09415 0.01288 0.44820.0001233

mode liq bi ep g mu pl ilm ru q
0.04602 0.1876 0.02268 0.09422 0.1502 0.1451 0 0.004328 0.3498

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.10 676.4 0.03370 0.2021 0.8949 0.0048180.0007318 0.7025
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7585 0.3704 0.1470 0.03904 0.1001 0.3685
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2998 0.2793 0.7972 0.2938 0.04570 0.3576
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9873 0.7845 0.09144 0.01290 0.44620.0001184

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04603	0.1866	0.02205	0.09563	0.1510	0.1447		0 0.004338	0.3497

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.20	676.7	0.03327	0.2021	0.8959	0.0047580.0007339		0.7018
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7589	0.3689	0.1446	0.03904	0.1003	0.3697	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3009	0.2802	0.7964	0.2965	0.04689	0.3563	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9867	0.7801	0.08879	0.01291	0.44420.0001140		

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04603	0.1856	0.02142	0.09701	0.1519	0.1442		0 0.004348	0.3495

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.30	676.8	0.03285	0.2022	0.8969	0.0046970.0007359		0.7012
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7593	0.3674	0.1423	0.03902	0.1004	0.3709	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3020	0.2810	0.7957	0.2992	0.04811	0.3550	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9860	0.7761	0.08620	0.01291	0.44230.0001099		

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04600	0.1846	0.02077	0.09837	0.1528	0.1437		0 0.004358	0.3494

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.40	677.0	0.03243	0.2022	0.8978	0.0046360.0007377		0.7006
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7598	0.3659	0.1399	0.03899	0.1005	0.3721	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3031	0.2819	0.7950	0.3019	0.04937	0.3537	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9853	0.7723	0.08367	0.01291	0.44040.0001060		

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04595	0.1837	0.02010	0.09969	0.1538	0.1431		0 0.004368	0.3492

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.50	677.1	0.03202	0.2023	0.8988	0.0045750.0007394		0.7000
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7602	0.3645	0.1376	0.03895	0.1007	0.3733	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3042	0.2828	0.7944	0.3048	0.05067	0.3525	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9847	0.7687	0.08120	0.01291	0.43840.0001025		

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04588	0.1828	0.01942	0.1010	0.1547	0.1426		0	0.004377 0.3491

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
15.60	677.3	0.03160	0.2023	0.8997	0.0045140	0.0007409	0.6994		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7607	0.3632	0.1353	0.03890	0.1008	0.3745			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.3053	0.2836	0.7938	0.3076	0.05201	0.3514			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9840	0.7654	0.07879	0.01290	0.4365	9.920e-5			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04580	0.1820	0.01873	0.1023	0.1557	0.1421		0	0.004386 0.3490

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
15.70	677.4	0.03120	0.2023	0.9005	0.0044530	0.0007423	0.6989		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7612	0.3619	0.1330	0.03885	0.1009	0.3757			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.3064	0.2845	0.7933	0.3106	0.05339	0.3503			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9833	0.7624	0.07644	0.01289	0.4347	9.612e-5			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04570	0.1812	0.01802	0.1035	0.1567	0.1415		0	0.004394 0.3490

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
15.80	677.5	0.03080	0.2022	0.9014	0.0043920	0.0007435	0.6984		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7617	0.3607	0.1308	0.03878	0.1010	0.3768			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.3076	0.2853	0.7928	0.3135	0.05481	0.3492			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9826	0.7597	0.07415	0.01288	0.4328	9.323e-5			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04559	0.1805	0.01729	0.1047	0.1577	0.1409		0	0.004403 0.3489

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
15.90	677.5	0.03040	0.2022	0.9022	0.0043310	0.0007446	0.6980		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7622	0.3596	0.1286	0.03871	0.1011	0.3780			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.3087	0.2862	0.7924	0.3166	0.05628	0.3482			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9819	0.7571	0.07192	0.01287	0.4310	9.052e-5			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04546	0.1797	0.01654	0.1059	0.1587	0.1404		0	0.004411 0.3488

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.00    677.6 0.03000 0.2021 0.9029 0.0042700.0007455 0.6976
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7627 0.3585 0.1264 0.03863 0.1011 0.3791
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.3098 0.2871 0.7920 0.3197 0.05779 0.3473
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9812 0.7548 0.06976 0.01285 0.4291 8.797e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.04531 0.1791 0.01577 0.1071 0.1598 0.1398 0 0.004418 0.3488

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.10    677.6 0.02961 0.2021 0.9037 0.0042100.0007462 0.6972
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7632 0.3575 0.1243 0.03855 0.1012 0.3802
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.3109 0.2879 0.7916 0.3228 0.05935 0.3464
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9806 0.7527 0.06765 0.01284 0.4273 8.556e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.04515 0.1784 0.01498 0.1083 0.1608 0.1392 0 0.004426 0.3488

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.20    677.7 0.02923 0.2020 0.9044 0.0041500.0007468 0.6968
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7638 0.3565 0.1221 0.03845 0.1013 0.3814
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.3120 0.2888 0.7913 0.3260 0.06096 0.3455
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9799 0.7509 0.06560 0.01282 0.4255 8.328e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.04498 0.1778 0.01417 0.1094 0.1619 0.1385 0 0.004433 0.3488

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.30    677.7 0.02885 0.2019 0.9051 0.0040900.0007472 0.6965
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7643 0.3556 0.1201 0.03835 0.1014 0.3825
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.3132 0.2896 0.7910 0.3293 0.06262 0.3447
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9792 0.7492 0.06361 0.01280 0.4237 8.112e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.04480 0.1772 0.01334 0.1105 0.1630 0.1379 0 0.004439 0.3488

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)

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16.40 677.7 0.02848 0.2018 0.9057 0.0040320.0007475 0.6962
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7648 0.3547 0.1180 0.03825 0.1014 0.3836
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3143 0.2905 0.7908 0.3326 0.06433 0.3440
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9785 0.7477 0.06167 0.01278 0.4219 7.907e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04461	0.1766	0.01248	0.1117	0.1641	0.1373		0	0.004446 0.3488

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.50 677.7 0.02810 0.2017 0.9063 0.0039730.0007477 0.6959
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7654 0.3539 0.1160 0.03814 0.1015 0.3847
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3154 0.2913 0.7906 0.3360 0.06610 0.3432
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9779 0.7464 0.05979 0.01276 0.4201 7.712e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04440	0.1761	0.01160	0.1128	0.1652	0.1366		0	0.004452 0.3488

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.60 677.7 0.02774 0.2015 0.9069 0.0039150.0007477 0.6957
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7660 0.3531 0.1140 0.03802 0.1015 0.3857
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3165 0.2922 0.7904 0.3395 0.06792 0.3425
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9772 0.7452 0.05796 0.01274 0.4184 7.526e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04419	0.1756	0.01069	0.1139	0.1664	0.1360		0	0.004458 0.3488

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.70 677.7 0.02738 0.2014 0.9074 0.0038580.0007475 0.6955
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7665 0.3523 0.1120 0.03790 0.1016 0.3868
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3177 0.2931 0.7903 0.3430 0.06980 0.3419
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9765 0.7442 0.05618 0.01272 0.4166 7.348e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04396	0.1751	0.009752	0.1150	0.1676	0.1353		0	0.004464 0.3489

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.80 677.6 0.02702 0.2012 0.9080 0.0038010.0007472 0.6953
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7671 0.3516 0.1101 0.03778 0.1016 0.3879
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3188 0.2939 0.7902 0.3465 0.07174 0.3412
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9759 0.7434 0.05445 0.01269 0.4148 7.178e-5

mode liq bi ep g mu pl ilm ru q
0.04373 0.1746 0.008787 0.1161 0.1688 0.1346 0 0.004469 0.3489

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90 677.6 0.02667 0.2011 0.9085 0.0037440.0007467 0.6951
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7677 0.3509 0.1082 0.03764 0.1017 0.3889
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3199 0.2948 0.7901 0.3501 0.07374 0.3406
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9752 0.7426 0.05278 0.01267 0.4131 7.015e-5

mode liq bi ep g mu pl ilm ru q
0.04349 0.1742 0.007791 0.1172 0.1700 0.1339 0 0.004475 0.3490

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 677.6 0.02632 0.2009 0.9090 0.0036880.0007461 0.6949
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7683 0.3503 0.1063 0.03751 0.1017 0.3899
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3211 0.2956 0.7900 0.3538 0.07580 0.3400
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9746 0.7420 0.05115 0.01264 0.4113 6.858e-5

mode liq bi ep g mu pl ilm ru q
0.04324 0.1737 0.006763 0.1183 0.1712 0.1332 0 0.004480 0.3491

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 677.5 0.02597 0.2007 0.9094 0.0036330.0007453 0.6947
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7688 0.3496 0.1045 0.03737 0.1018 0.3910
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3222 0.2965 0.7899 0.3576 0.07792 0.3395
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9739 0.7415 0.04956 0.01261 0.4096 6.708e-5

mode liq bi ep g mu pl ilm ru q
0.04298 0.1733 0.005702 0.1194 0.1724 0.1325 0 0.004485 0.3492

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 677.4 0.02563 0.2005 0.9098 0.0035780.0007444 0.6946
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7694 0.3490 0.1026 0.03723 0.1018 0.3920
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.3234 0.2973 0.7899 0.3614 0.08011 0.3389
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9732 0.7411 0.04802 0.01258 0.4078 6.563e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04272	0.1729	0.004605	0.1205	0.1737	0.1318		0	0.004490 0.3492

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.30 677.3 0.02529 0.2003 0.9103 0.0035240.0007433 0.6945
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7700 0.3484 0.1008 0.03708 0.1018 0.3930
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3245 0.2982 0.7899 0.3652 0.08237 0.3384
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9726 0.7408 0.04653 0.01255 0.4060 6.423e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04245	0.1725	0.003472	0.1217	0.1750	0.1311		0	0.004495 0.3493

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 677.2 0.02496 0.2001 0.9107 0.0034700.0007420 0.6943
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7706 0.3478 0.09903 0.03693 0.1019 0.3940
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3257 0.2990 0.7899 0.3691 0.08469 0.3379
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9719 0.7406 0.04508 0.01252 0.4043 6.288e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04218	0.1721	0.002300	0.1228	0.1763	0.1304		0	0.004500 0.3494

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.50 677.1 0.02463 0.1999 0.9110 0.0034160.0007406 0.6942
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7713 0.3472 0.09727 0.03677 0.1019 0.3950
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3268 0.2999 0.7899 0.3731 0.08708 0.3374
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9712 0.7404 0.04367 0.01248 0.4025 6.157e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.04190	0.1718	0.001087	0.1240	0.1776	0.1296		0	0.004505 0.3495

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.59    677.0 0.02435 0.1997 0.9114 0.0033700.0007392 0.6941
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7718 0.3468 0.09576 0.03664 0.1019 0.3959
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.3278 0.3006 0.7899 0.3766 0.08922 0.3370
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9707 0.7403 0.04248 0.01245 0.4010 6.047e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.04166 0.1714 0 0.1250 0.1788 0.1290 0 0.004509 0.3496
calcs use:

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>

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phases : liq, bi, g, mu, pl, ilm, ru, q

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00    674.7 0.02609 0.1992 0.9024 0.0036500.0006806 0.6989
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7703 0.3566 0.1038 0.03721 0.1010 0.3939
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7984 0.3885 0.09187 0.3460 0.9783 0.7709
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.05069 0.01325 0.4070 6.584e-5 0.04018 0.1781

mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04018 0.1781 0.1197 0.1783 0.1274 0 0.004440 0.3519
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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.03    674.8 0.02601 0.1992 0.9029 0.0036360.0006836 0.6987
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7704 0.3561 0.1034 0.03719 0.1011 0.3940
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7980 0.3879 0.09173 0.3455 0.9780 0.7694
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.05024 0.01321 0.4067 6.555e-5 0.04026 0.1777

mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04026 0.1777 0.1200 0.1783 0.1275 0 0.004443 0.3517
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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.06    675.0 0.02592 0.1993 0.9033 0.0036230.0006867 0.6984
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7704 0.3556 0.1030 0.03716 0.1012 0.3941
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7976 0.3873 0.09158 0.3451 0.9776 0.7678
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi

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0.04980 0.01318 0.4064 6.526e-5 0.04034 0.1774

mode liq bi g mu pl ilm ru q
0.04034 0.1774 0.1203 0.1784 0.1276 0 0.004446 0.3516

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.09 675.1 0.02583 0.1993 0.9038 0.0036090.0006897 0.6982
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7705 0.3551 0.1026 0.03714 0.1012 0.3942
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7971 0.3866 0.09143 0.3446 0.9773 0.7663
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04936 0.01314 0.4061 6.497e-5 0.04042 0.1771

mode liq bi g mu pl ilm ru q
0.04042 0.1771 0.1205 0.1784 0.1276 0 0.004449 0.3515

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.12 675.3 0.02574 0.1994 0.9042 0.0035950.0006927 0.6980
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7705 0.3546 0.1022 0.03711 0.1013 0.3943
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7967 0.3860 0.09129 0.3442 0.9769 0.7647
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04893 0.01311 0.4058 6.469e-5 0.04050 0.1767

mode liq bi g mu pl ilm ru q
0.04050 0.1767 0.1208 0.1784 0.1277 0 0.004453 0.3514

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.15 675.4 0.02565 0.1994 0.9047 0.0035810.0006957 0.6977
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7706 0.3541 0.1018 0.03709 0.1013 0.3944
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7962 0.3854 0.09115 0.3437 0.9766 0.7631
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04849 0.01307 0.4055 6.441e-5 0.04058 0.1764

mode liq bi g mu pl ilm ru q
0.04058 0.1764 0.1211 0.1784 0.1278 0 0.004456 0.3513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.18 675.5 0.02556 0.1994 0.9051 0.0035670.0006987 0.6975
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7707 0.3536 0.1014 0.03706 0.1014 0.3945
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7958 0.3848 0.09101 0.3433 0.9762 0.7616
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04806 0.01303 0.4052 6.413e-5 0.04066 0.1761

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04066	0.1761	0.1213	0.1784	0.1279		0	0.004459 0.3512

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.21	675.7	0.02547	0.1995	0.9056	0.0035530	0.0007018	0.6973
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7707	0.3531	0.1010	0.03704	0.1014	0.3946	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7954	0.3841	0.09087	0.3428	0.9758	0.7600	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04764	0.01300	0.4049	6.385e-5	0.04074	0.1757	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04074	0.1757	0.1216	0.1784	0.1280		0	0.004463 0.3511

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.24	675.8	0.02538	0.1995	0.9061	0.0035390	0.0007048	0.6970
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7708	0.3526	0.1006	0.03701	0.1015	0.3947	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7949	0.3835	0.09073	0.3424	0.9754	0.7585	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04721	0.01296	0.4046	6.357e-5	0.04081	0.1754	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04081	0.1754	0.1219	0.1785	0.1280		0	0.004466 0.3510

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.27	675.9	0.02529	0.1995	0.9065	0.0035250	0.0007078	0.6968
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7709	0.3521	0.1002	0.03698	0.1015	0.3948	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7945	0.3829	0.09059	0.3419	0.9751	0.7569	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04679	0.01292	0.4043	6.329e-5	0.04089	0.1750	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04089	0.1750	0.1222	0.1785	0.1281		0	0.004470 0.3508

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.30	676.0	0.02520	0.1995	0.9070	0.0035110	0.0007108	0.6965
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7710	0.3515	0.09977	0.03695	0.1015	0.3949	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7940	0.3823	0.09045	0.3414	0.9747	0.7553	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04637	0.01288	0.4040	6.302e-5	0.04097	0.1747	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04097	0.1747	0.1224	0.1785	0.1282		0	0.004473 0.3507

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.33	676.2	0.02511	0.1996	0.9074	0.0034960	0.0007138	0.6963
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7710	0.3510	0.09935	0.03692	0.1016	0.3950	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7936	0.3817	0.09032	0.3410	0.9743	0.7538	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04595	0.01283	0.4037	6.274e-5	0.04104	0.1744	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04104	0.1744	0.1227	0.1785	0.1283		0	0.004477 0.3506

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.36	676.3	0.02502	0.1996	0.9079	0.0034820	0.0007168	0.6960
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7711	0.3505	0.09894	0.03689	0.1016	0.3951	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7932	0.3811	0.09019	0.3405	0.9739	0.7522	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04553	0.01279	0.4034	6.247e-5	0.04112	0.1740	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04112	0.1740	0.1230	0.1786	0.1284		0	0.004481 0.3505

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.39	676.4	0.02493	0.1996	0.9083	0.0034670	0.0007198	0.6958
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7712	0.3500	0.09852	0.03686	0.1017	0.3952	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7927	0.3805	0.09005	0.3400	0.9735	0.7506	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04512	0.01275	0.4031	6.220e-5	0.04119	0.1737	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04119	0.1737	0.1232	0.1786	0.1284		0	0.004484 0.3504

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.42	676.5	0.02485	0.1996	0.9088	0.0034530	0.0007227	0.6955
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7713	0.3495	0.09810	0.03683	0.1017	0.3953	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7923	0.3799	0.08992	0.3396	0.9731	0.7490	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.04471	0.01271	0.4028	6.193e-5	0.04126	0.1733	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04126	0.1733	0.1235	0.1786	0.1285		0	0.004488 0.3503

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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17.45 676.6 0.02476 0.1996 0.9093 0.0034380.0007257 0.6953
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7714 0.3490 0.09769 0.03679 0.1017 0.3954
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7919 0.3793 0.08979 0.3391 0.9726 0.7475
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04430 0.01266 0.4024 6.167e-5 0.04134 0.1730

mode liq bi g mu pl ilm ru q
0.04134 0.1730 0.1238 0.1787 0.1286 0 0.004492 0.3502

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.48 676.7 0.02467 0.1996 0.9097 0.0034230.0007287 0.6950
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7715 0.3485 0.09727 0.03676 0.1018 0.3955
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7914 0.3787 0.08966 0.3386 0.9722 0.7459
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04390 0.01262 0.4021 6.140e-5 0.04141 0.1727

mode liq bi g mu pl ilm ru q
0.04141 0.1727 0.1240 0.1787 0.1287 0 0.004495 0.3500

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.51 676.8 0.02458 0.1997 0.9102 0.0034080.0007317 0.6948
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7716 0.3480 0.09685 0.03673 0.1018 0.3956
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7910 0.3781 0.08954 0.3382 0.9718 0.7443
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04349 0.01257 0.4018 6.114e-5 0.04148 0.1723

mode liq bi g mu pl ilm ru q
0.04148 0.1723 0.1243 0.1787 0.1288 0 0.004499 0.3499

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.54 676.9 0.02449 0.1997 0.9106 0.0033940.0007346 0.6945
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7717 0.3475 0.09642 0.03669 0.1019 0.3957
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7906 0.3775 0.08941 0.3377 0.9713 0.7427
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04309 0.01252 0.4015 6.087e-5 0.04155 0.1720

mode liq bi g mu pl ilm ru q
0.04155 0.1720 0.1246 0.1787 0.1288 0 0.004503 0.3498

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.57 677.0 0.02440 0.1997 0.9111 0.0033790.0007376 0.6942
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7717 0.3470 0.09600 0.03666 0.1019 0.3958
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7901 0.3769 0.08929 0.3372 0.9709 0.7412
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04270 0.01248 0.4012 6.061e-5 0.04162 0.1716

mode liq bi g mu pl ilm ru q
0.04162 0.1716 0.1248 0.1788 0.1289 0 0.004507 0.3497

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 677.1 0.02431 0.1997 0.9116 0.0033640.0007405 0.6940
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7718 0.3465 0.09558 0.03662 0.1019 0.3959
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7897 0.3763 0.08916 0.3367 0.9705 0.7396
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04230 0.01243 0.4008 6.035e-5 0.04169 0.1713

mode liq bi g mu pl ilm ru q
0.04169 0.1713 0.1251 0.1788 0.1290 0 0.004511 0.3496

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.63 677.2 0.02422 0.1997 0.9120 0.0033490.0007435 0.6937
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7719 0.3460 0.09515 0.03659 0.1019 0.3960
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7893 0.3757 0.08904 0.3363 0.9700 0.7380
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04191 0.01238 0.4005 6.010e-5 0.04176 0.1709

mode liq bi g mu pl ilm ru q
0.04176 0.1709 0.1254 0.1789 0.1291 0 0.004515 0.3495

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.66 677.2 0.02413 0.1997 0.9125 0.0033340.0007464 0.6934
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7720 0.3455 0.09473 0.03655 0.1020 0.3962
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7888 0.3752 0.08892 0.3358 0.9695 0.7364
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04152 0.01233 0.4002 5.984e-5 0.04183 0.1706

mode liq bi g mu pl ilm ru q
0.04183 0.1706 0.1256 0.1789 0.1292 0 0.004519 0.3494

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.69 677.3 0.02404 0.1997 0.9129 0.0033180.0007493 0.6932
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7721 0.3451 0.09430 0.03651 0.1020 0.3963
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7884 0.3746 0.08880 0.3353 0.9691 0.7349
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04113 0.01228 0.3999 5.958e-5 0.04189 0.1703

mode liq bi g mu pl ilm ru q
0.04189 0.1703 0.1259 0.1789 0.1292 0 0.004523 0.3492

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.72 677.4 0.02395 0.1997 0.9134 0.0033030.0007523 0.6929
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7723 0.3446 0.09388 0.03647 0.1020 0.3964
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7880 0.3740 0.08868 0.3348 0.9686 0.7333
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04075 0.01224 0.3995 5.933e-5 0.04196 0.1699

mode liq bi g mu pl ilm ru q
0.04196 0.1699 0.1262 0.1790 0.1293 0 0.004527 0.3491

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.75 677.5 0.02386 0.1997 0.9139 0.0032880.0007552 0.6926
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7724 0.3441 0.09345 0.03644 0.1021 0.3965
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7875 0.3734 0.08856 0.3344 0.9681 0.7317
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.04037 0.01219 0.3992 5.908e-5 0.04203 0.1696

mode liq bi g mu pl ilm ru q
0.04203 0.1696 0.1264 0.1790 0.1294 0 0.004531 0.3490

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.78 677.5 0.02377 0.1997 0.9143 0.0032730.0007581 0.6924
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7725 0.3436 0.09302 0.03640 0.1021 0.3966
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7871 0.3729 0.08844 0.3339 0.9676 0.7301
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03999 0.01213 0.3989 5.883e-5 0.04209 0.1692

mode liq bi g mu pl ilm ru q
0.04209 0.1692 0.1267 0.1791 0.1295 0 0.004535 0.3489

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.81 677.6 0.02368 0.1997 0.9148 0.0032580.0007610 0.6921
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7726 0.3431 0.09259 0.03636 0.1021 0.3967
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7867 0.3723 0.08833 0.3334 0.9671 0.7286
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.03961 0.01208 0.3985 5.858e-5 0.04216 0.1689

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04216	0.1689	0.1270	0.1791	0.1296		0.004539	0.3488

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.84 677.7 0.02359 0.1996 0.9152 0.0032420.0007639 0.6918
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7727 0.3426 0.09216 0.03632 0.1021 0.3968
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7862 0.3717 0.08821 0.3329 0.9666 0.7270
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03924 0.01203 0.3982 5.833e-5 0.04222 0.1685

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04222	0.1685	0.1272	0.1792	0.1296		0.004543	0.3487

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.87 677.7 0.02351 0.1996 0.9157 0.0032270.0007668 0.6916
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7728 0.3421 0.09173 0.03628 0.1021 0.3970
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7858 0.3712 0.08810 0.3325 0.9661 0.7254
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03886 0.01198 0.3979 5.808e-5 0.04228 0.1682

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04228	0.1682	0.1275	0.1792	0.1297		0.004547	0.3486

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 677.8 0.02342 0.1996 0.9162 0.0032110.0007697 0.6913
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7729 0.3416 0.09130 0.03623 0.1022 0.3971
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7854 0.3706 0.08799 0.3320 0.9656 0.7238
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03850 0.01193 0.3975 5.783e-5 0.04234 0.1679

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04234	0.1679	0.1278	0.1793	0.1298		0.004552	0.3484

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.93 677.9 0.02333 0.1996 0.9166 0.0031960.0007726 0.6910
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7730 0.3411 0.09088 0.03619 0.1022 0.3972
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7849 0.3701 0.08788 0.3315 0.9651 0.7222
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03813 0.01187 0.3972 5.759e-5 0.04241 0.1675

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04241	0.1675	0.1280	0.1793	0.1299		0	0.004556 0.3483

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.96	677.9	0.02324	0.1996	0.9171	0.003181	0.0007754	0.6907
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7732	0.3406	0.09044	0.03615	0.1022	0.3973	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7845	0.3695	0.08776	0.3310	0.9646	0.7207	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.03777	0.01182	0.3968	5.735e-5	0.04247	0.1672	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04247	0.1672	0.1283	0.1794	0.1300		0	0.004560 0.3482

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.99	678.0	0.02315	0.1996	0.9175	0.003165	0.0007783	0.6904
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7733	0.3401	0.09001	0.03611	0.1022	0.3974	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7841	0.3690	0.08766	0.3305	0.9641	0.7191	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.03740	0.01177	0.3965	5.710e-5	0.04253	0.1668	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04253	0.1668	0.1285	0.1794	0.1301		0	0.004564 0.3481

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.02	678.0	0.02306	0.1995	0.9180	0.003150	0.0007811	0.6902
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7734	0.3396	0.08958	0.03606	0.1022	0.3975	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7837	0.3684	0.08755	0.3300	0.9635	0.7175	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.03705	0.01171	0.3961	5.686e-5	0.04259	0.1665	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04259	0.1665	0.1288	0.1795	0.1301		0	0.004569 0.3480

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.05	678.0	0.02297	0.1995	0.9184	0.003134	0.0007840	0.6899
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7735	0.3391	0.08915	0.03602	0.1022	0.3976	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7832	0.3679	0.08744	0.3296	0.9630	0.7159	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.03669	0.01166	0.3958	5.662e-5	0.04264	0.1661	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04264	0.1661	0.1291	0.1795	0.1302		0	0.004573 0.3479

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.08 678.1 0.02288 0.1995 0.9189 0.0031190.0007868 0.6896
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7737 0.3386 0.08872 0.03597 0.1023 0.3978
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7828 0.3673 0.08733 0.3291 0.9624 0.7144
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03634 0.01160 0.3954 5.639e-5 0.04270 0.1658

mode liq bi g mu pl ilm ru q
0.04270 0.1658 0.1293 0.1796 0.1303 0 0.004577 0.3477

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.11 678.1 0.02280 0.1995 0.9193 0.0031030.0007897 0.6893
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7738 0.3381 0.08829 0.03593 0.1023 0.3979
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7824 0.3668 0.08723 0.3286 0.9619 0.7128
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03599 0.01155 0.3951 5.615e-5 0.04276 0.1654

mode liq bi g mu pl ilm ru q
0.04276 0.1654 0.1296 0.1796 0.1304 0 0.004582 0.3476

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.14 678.2 0.02271 0.1994 0.9198 0.0030870.0007925 0.6890
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7739 0.3377 0.08786 0.03588 0.1023 0.3980
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7820 0.3662 0.08712 0.3281 0.9613 0.7112
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03564 0.01149 0.3947 5.591e-5 0.04282 0.1651

mode liq bi g mu pl ilm ru q
0.04282 0.1651 0.1298 0.1797 0.1305 0 0.004586 0.3475

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.17 678.2 0.02262 0.1994 0.9202 0.0030720.0007953 0.6887
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7741 0.3372 0.08743 0.03583 0.1023 0.3981
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7815 0.3657 0.08702 0.3276 0.9607 0.7097
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03529 0.01143 0.3944 5.568e-5 0.04287 0.1647

mode liq bi g mu pl ilm ru q
0.04287 0.1647 0.1301 0.1798 0.1305 0 0.004591 0.3474

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

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18.20  678.2 0.02253 0.1994 0.9207 0.0030560.0007981 0.6884
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7742 0.3367 0.08700 0.03579 0.1023 0.3982
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7811 0.3652 0.08692 0.3271 0.9602 0.7081
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.03495 0.01138 0.3940 5.545e-5 0.04293 0.1644

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mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04293 0.1644 0.1304 0.1798 0.1306 0 0.004595 0.3473

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.23  678.3 0.02244 0.1993 0.9211 0.0030410.0008009 0.6882
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7743 0.3362 0.08657 0.03574 0.1023 0.3983
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7807 0.3646 0.08682 0.3266 0.9596 0.7065
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.03461 0.01132 0.3937 5.521e-5 0.04298 0.1640

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mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04298 0.1640 0.1306 0.1799 0.1307 0 0.004600 0.3472

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.26  678.3 0.02235 0.1993 0.9216 0.0030250.0008037 0.6879
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7745 0.3357 0.08614 0.03569 0.1023 0.3985
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7803 0.3641 0.08672 0.3262 0.9590 0.7050
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.03427 0.01126 0.3933 5.498e-5 0.04303 0.1637

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mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04303 0.1637 0.1309 0.1799 0.1308 0 0.004604 0.3471

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.29  678.3 0.02227 0.1993 0.9220 0.0030090.0008065 0.6876
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7746 0.3352 0.08571 0.03564 0.1023 0.3986
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7798 0.3636 0.08662 0.3257 0.9584 0.7034
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.03394 0.01120 0.3929 5.475e-5 0.04309 0.1634

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mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04309 0.1634 0.1311 0.1800 0.1309 0 0.004609 0.3469

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.32  678.3 0.02218 0.1992 0.9224 0.0029940.0008093 0.6873
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

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0.7747 0.3347 0.08528 0.03559 0.1023 0.3987
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7794 0.3630 0.08652 0.3252 0.9578 0.7018
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03360 0.01115 0.3926 5.452e-5 0.04314 0.1630

mode liq bi g mu pl ilm ru q
0.04314 0.1630 0.1314 0.1801 0.1310 0 0.004613 0.3468

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.35 678.3 0.02209 0.1992 0.9229 0.0029780.0008120 0.6870
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7749 0.3343 0.08485 0.03554 0.1023 0.3988
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7790 0.3625 0.08642 0.3247 0.9572 0.7003
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03327 0.01109 0.3922 5.430e-5 0.04319 0.1627

mode liq bi g mu pl ilm ru q
0.04319 0.1627 0.1316 0.1801 0.1310 0 0.004618 0.3467

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.38 678.4 0.02200 0.1991 0.9233 0.0029630.0008148 0.6867
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7750 0.3338 0.08442 0.03549 0.1023 0.3989
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7786 0.3620 0.08633 0.3242 0.9566 0.6987
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03294 0.01103 0.3918 5.407e-5 0.04324 0.1623

mode liq bi g mu pl ilm ru q
0.04324 0.1623 0.1319 0.1802 0.1311 0 0.004623 0.3466

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.41 678.4 0.02192 0.1991 0.9238 0.0029470.0008175 0.6864
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7752 0.3333 0.08399 0.03544 0.1023 0.3990
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7782 0.3615 0.08623 0.3237 0.9559 0.6972
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03262 0.01097 0.3915 5.385e-5 0.04329 0.1620

mode liq bi g mu pl ilm ru q
0.04329 0.1620 0.1321 0.1803 0.1312 0 0.004627 0.3465

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.44 678.4 0.02183 0.1990 0.9242 0.0029310.0008203 0.6861
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7753 0.3328 0.08356 0.03539 0.1023 0.3992
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7777 0.3610 0.08614 0.3232 0.9553 0.6956
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03230 0.01091 0.3911 5.362e-5 0.04334 0.1616

mode liq bi g mu pl ilm ru q
0.04334 0.1616 0.1324 0.1804 0.1313 0 0.004632 0.3464

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.47 678.4 0.02174 0.1990 0.9246 0.0029160.0008230 0.6858
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7755 0.3323 0.08313 0.03534 0.1023 0.3993
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7773 0.3604 0.08604 0.3227 0.9547 0.6941
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03198 0.01085 0.3907 5.340e-5 0.04339 0.1613

mode liq bi g mu pl ilm ru q
0.04339 0.1613 0.1326 0.1804 0.1314 0 0.004637 0.3462

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50 678.4 0.02165 0.1989 0.9251 0.0029000.0008257 0.6855
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7756 0.3319 0.08270 0.03528 0.1023 0.3994
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7769 0.3599 0.08595 0.3222 0.9540 0.6925
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03166 0.01079 0.3904 5.318e-5 0.04344 0.1609

mode liq bi g mu pl ilm ru q
0.04344 0.1609 0.1329 0.1805 0.1315 0 0.004641 0.3461

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.53 678.4 0.02157 0.1989 0.9255 0.0028840.0008284 0.6852
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7758 0.3314 0.08227 0.03523 0.1023 0.3995
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7765 0.3594 0.08586 0.3217 0.9534 0.6910
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03134 0.01074 0.3900 5.296e-5 0.04348 0.1606

mode liq bi g mu pl ilm ru q
0.04348 0.1606 0.1331 0.1806 0.1315 0 0.004646 0.3460

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.56 678.4 0.02148 0.1988 0.9259 0.0028690.0008311 0.6849
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7759 0.3309 0.08184 0.03518 0.1023 0.3996
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7761 0.3589 0.08577 0.3213 0.9527 0.6894
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.03103 0.01068 0.3896 5.274e-5 0.04353 0.1602

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04353	0.1602	0.1334	0.1807	0.1316		0	0.004651 0.3459

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.59 678.4 0.02139 0.1988 0.9264 0.0028530.0008338 0.6846
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7761 0.3304 0.08141 0.03512 0.1023 0.3997
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7757 0.3584 0.08568 0.3208 0.9520 0.6879
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03072 0.01062 0.3892 5.252e-5 0.04357 0.1599

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04357	0.1599	0.1337	0.1808	0.1317		0	0.004656 0.3458

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.62 678.4 0.02131 0.1987 0.9268 0.0028380.0008365 0.6843
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7763 0.3299 0.08099 0.03507 0.1023 0.3998
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7752 0.3579 0.08559 0.3203 0.9514 0.6864
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03041 0.01056 0.3889 5.230e-5 0.04362 0.1595

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04362	0.1595	0.1339	0.1808	0.1318		0	0.004660 0.3457

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.65 678.4 0.02122 0.1987 0.9272 0.0028220.0008392 0.6840
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7764 0.3295 0.08056 0.03501 0.1023 0.4000
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7748 0.3574 0.08550 0.3198 0.9507 0.6848
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.03010 0.01050 0.3885 5.209e-5 0.04366 0.1592

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04366	0.1592	0.1341	0.1809	0.1319		0	0.004665 0.3455

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.68 678.4 0.02113 0.1986 0.9276 0.0028070.0008419 0.6837
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7766 0.3290 0.08014 0.03496 0.1023 0.4001
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7744 0.3569 0.08542 0.3193 0.9500 0.6833
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02980 0.01044 0.3881 5.187e-5 0.04371 0.1588

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04371	0.1588	0.1344	0.1810	0.1319		0	0.004670 0.3454

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.71	678.3	0.02105	0.1985	0.9281	0.0027910	0.0008445	0.6834
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7767	0.3285	0.07971	0.03490	0.1023	0.4002	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7740	0.3564	0.08533	0.3188	0.9493	0.6818	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.02950	0.01038	0.3877	5.166e-5	0.04375	0.1585	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04375	0.1585	0.1346	0.1811	0.1320		0	0.004675 0.3453

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.74	678.3	0.02096	0.1985	0.9285	0.0027760	0.0008472	0.6831
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7769	0.3280	0.07929	0.03484	0.1023	0.4003	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7736	0.3559	0.08524	0.3183	0.9486	0.6802	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.02920	0.01031	0.3873	5.145e-5	0.04379	0.1581	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04379	0.1581	0.1349	0.1812	0.1321		0	0.004680 0.3452

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.77	678.3	0.02087	0.1984	0.9289	0.0027600	0.0008498	0.6828
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7771	0.3276	0.07886	0.03479	0.1022	0.4004	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7732	0.3554	0.08516	0.3178	0.9479	0.6787	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.02891	0.01025	0.3870	5.124e-5	0.04383	0.1578	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04383	0.1578	0.1351	0.1813	0.1322		0	0.004685 0.3451

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.80	678.3	0.02079	0.1983	0.9293	0.0027450	0.0008524	0.6824
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7772	0.3271	0.07844	0.03473	0.1022	0.4005	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7728	0.3550	0.08507	0.3173	0.9472	0.6772	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.02861	0.01019	0.3866	5.102e-5	0.04387	0.1574	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04387	0.1574	0.1354	0.1814	0.1323		0	0.004690 0.3450

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.83    678.3 0.02070 0.1983 0.9297 0.0027290.0008551 0.6821
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7774 0.3266 0.07801 0.03467 0.1022 0.4006
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7724 0.3545 0.08499 0.3168 0.9464 0.6757
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.02832 0.01013 0.3862 5.082e-5 0.04391 0.1571

mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04391 0.1571 0.1356 0.1815 0.1324 0 0.004695 0.3448

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.86    678.2 0.02062 0.1982 0.9302 0.0027140.0008577 0.6818
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7776 0.3262 0.07759 0.03461 0.1022 0.4007
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7719 0.3540 0.08491 0.3163 0.9457 0.6741
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.02803 0.01007 0.3858 5.061e-5 0.04395 0.1567

mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04395 0.1567 0.1359 0.1816 0.1324 0 0.004700 0.3447

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.89    678.2 0.02053 0.1981 0.9306 0.0026980.0008603 0.6815
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7778 0.3257 0.07717 0.03455 0.1022 0.4008
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7715 0.3535 0.08483 0.3158 0.9450 0.6726
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.02775 0.01001 0.3854 5.040e-5 0.04399 0.1564

mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04399 0.1564 0.1361 0.1817 0.1325 0 0.004705 0.3446

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.92    678.2 0.02045 0.1980 0.9310 0.0026830.0008629 0.6812
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7779 0.3252 0.07675 0.03449 0.1022 0.4010
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7711 0.3530 0.08475 0.3153 0.9442 0.6711
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.02746 0.009950 0.3850 5.019e-5 0.04402 0.1560

mode  liq  bi  g  mu  pl  ilm  ru  q
      0.04402 0.1560 0.1364 0.1818 0.1326 0 0.004710 0.3445

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)

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18.95 678.1 0.02036 0.1980 0.9314 0.0026680.0008655 0.6809
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7781 0.3248 0.07633 0.03443 0.1022 0.4011
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7707 0.3525 0.08467 0.3149 0.9435 0.6696
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02718 0.009889 0.3846 4.999e-5 0.04406 0.1557

mode liq bi g mu pl ilm ru q
0.04406 0.1557 0.1366 0.1819 0.1327 0 0.004715 0.3444

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.98 678.1 0.02027 0.1979 0.9318 0.0026520.0008680 0.6806
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7783 0.3243 0.07591 0.03437 0.1021 0.4012
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7703 0.3521 0.08459 0.3144 0.9427 0.6681
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02690 0.009828 0.3842 4.978e-5 0.04409 0.1553

mode liq bi g mu pl ilm ru q
0.04409 0.1553 0.1369 0.1820 0.1328 0 0.004720 0.3443

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.01 678.1 0.02019 0.1978 0.9322 0.0026370.0008706 0.6802
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7785 0.3238 0.07549 0.03431 0.1021 0.4013
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7699 0.3516 0.08451 0.3139 0.9419 0.6666
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02663 0.009767 0.3838 4.958e-5 0.04413 0.1550

mode liq bi g mu pl ilm ru q
0.04413 0.1550 0.1371 0.1821 0.1328 0 0.004725 0.3442

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.04 678.0 0.02011 0.1977 0.9326 0.0026220.0008732 0.6799
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7786 0.3234 0.07508 0.03425 0.1021 0.4014
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7695 0.3511 0.08443 0.3134 0.9411 0.6651
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02635 0.009706 0.3834 4.938e-5 0.04416 0.1546

mode liq bi g mu pl ilm ru q
0.04416 0.1546 0.1373 0.1822 0.1329 0 0.004730 0.3440

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.07 678.0 0.02002 0.1976 0.9330 0.0026060.0008757 0.6796
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7788 0.3229 0.07466 0.03419 0.1021 0.4015
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7691 0.3507 0.08435 0.3129 0.9404 0.6636
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02608 0.009645 0.3830 4.918e-5 0.04420 0.1543

mode liq bi g mu pl ilm ru q
0.04420 0.1543 0.1376 0.1823 0.1330 0 0.004735 0.3439

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.10 677.9 0.01994 0.1976 0.9334 0.0025910.0008782 0.6793
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7790 0.3224 0.07424 0.03413 0.1021 0.4016
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7687 0.3502 0.08428 0.3124 0.9396 0.6621
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02581 0.009583 0.3827 4.898e-5 0.04423 0.1539

mode liq bi g mu pl ilm ru q
0.04423 0.1539 0.1378 0.1824 0.1331 0 0.004740 0.3438

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.13 677.9 0.01985 0.1975 0.9338 0.0025760.0008808 0.6790
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7792 0.3220 0.07383 0.03406 0.1020 0.4017
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7683 0.3497 0.08420 0.3119 0.9388 0.6606
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02554 0.009522 0.3823 4.878e-5 0.04426 0.1536

mode liq bi g mu pl ilm ru q
0.04426 0.1536 0.1381 0.1825 0.1332 0 0.004745 0.3437

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.16 677.8 0.01977 0.1974 0.9342 0.0025610.0008833 0.6787
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7794 0.3215 0.07341 0.03400 0.1020 0.4018
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7679 0.3493 0.08413 0.3114 0.9379 0.6591
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02528 0.009461 0.3819 4.858e-5 0.04429 0.1532

mode liq bi g mu pl ilm ru q
0.04429 0.1532 0.1383 0.1826 0.1332 0 0.004750 0.3436

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.19 677.8 0.01968 0.1973 0.9346 0.0025460.0008858 0.6783
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7796 0.3211 0.07300 0.03394 0.1020 0.4019
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7675 0.3488 0.08405 0.3109 0.9371 0.6577
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02501 0.009400 0.3814 4.838e-5 0.04432 0.1529

mode liq bi g mu pl ilm ru q
0.04432 0.1529 0.1385 0.1827 0.1333 0 0.004755 0.3434

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.22 677.7 0.01960 0.1972 0.9350 0.0025310.0008883 0.6780
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7797 0.3206 0.07259 0.03387 0.1020 0.4020
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7671 0.3483 0.08398 0.3104 0.9363 0.6562
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02475 0.009339 0.3810 4.819e-5 0.04435 0.1525

mode liq bi g mu pl ilm ru q
0.04435 0.1525 0.1388 0.1828 0.1334 0 0.004761 0.3433

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.25 677.7 0.01952 0.1971 0.9354 0.0025160.0008908 0.6777
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7799 0.3201 0.07218 0.03381 0.1019 0.4021
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7667 0.3479 0.08391 0.3099 0.9355 0.6547
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02449 0.009278 0.3806 4.799e-5 0.04438 0.1522

mode liq bi g mu pl ilm ru q
0.04438 0.1522 0.1390 0.1830 0.1335 0 0.004766 0.3432

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.28 677.6 0.01943 0.1970 0.9358 0.0025010.0008933 0.6774
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7801 0.3197 0.07177 0.03374 0.1019 0.4022
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7663 0.3474 0.08384 0.3094 0.9346 0.6532
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02424 0.009217 0.3802 4.780e-5 0.04441 0.1518

mode liq bi g mu pl ilm ru q
0.04441 0.1518 0.1392 0.1831 0.1336 0 0.004771 0.3431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.31 677.6 0.01935 0.1969 0.9362 0.0024860.0008958 0.6770
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7803 0.3192 0.07136 0.03368 0.1019 0.4023
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7659 0.3470 0.08377 0.3089 0.9338 0.6518
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.02398 0.009156 0.3798 4.761e-5 0.04443 0.1515

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04443	0.1515	0.1395	0.1832	0.1336		0.004776	0.3430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.34 677.5 0.01927 0.1968 0.9365 0.0024710.0008982 0.6767

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7805 0.3188 0.07095 0.03361 0.1019 0.4024

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7655 0.3465 0.08369 0.3084 0.9329 0.6503

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.02373 0.009095 0.3794 4.741e-5 0.04446 0.1511

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04446	0.1511	0.1397	0.1833	0.1337		0.004781	0.3429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.37 677.4 0.01918 0.1967 0.9369 0.0024560.0009007 0.6764

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7807 0.3183 0.07054 0.03355 0.1018 0.4025

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7651 0.3461 0.08363 0.3080 0.9321 0.6489

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.02348 0.009034 0.3790 4.722e-5 0.04449 0.1508

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04449	0.1508	0.1400	0.1834	0.1338		0.004787	0.3427

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.40 677.4 0.01910 0.1966 0.9373 0.0024410.0009031 0.6761

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7809 0.3179 0.07014 0.03348 0.1018 0.4026

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7647 0.3456 0.08356 0.3075 0.9312 0.6474

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.02323 0.008973 0.3786 4.703e-5 0.04451 0.1504

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04451	0.1504	0.1402	0.1836	0.1339		0.004792	0.3426

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.43 677.3 0.01902 0.1965 0.9377 0.0024260.0009056 0.6757

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7811 0.3174 0.06973 0.03341 0.1018 0.4027

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7643 0.3452 0.08349 0.3070 0.9303 0.6460

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.02299 0.008912 0.3782 4.684e-5 0.04454 0.1501

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04454	0.1501	0.1404	0.1837	0.1340		0	0.004797 0.3425

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.46 677.2 0.01894 0.1964 0.9381 0.0024110.0009080 0.6754

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7813 0.3170 0.06933 0.03334 0.1017 0.4028

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7639 0.3448 0.08342 0.3065 0.9294 0.6445

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.02274 0.008852 0.3778 4.665e-5 0.04456 0.1497

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04456	0.1497	0.1407	0.1838	0.1340		0	0.004802 0.3424

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.49 677.1 0.01885 0.1963 0.9384 0.0023970.0009104 0.6751

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7815 0.3165 0.06893 0.03328 0.1017 0.4029

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7636 0.3443 0.08335 0.3060 0.9285 0.6431

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.02250 0.008791 0.3774 4.647e-5 0.04458 0.1494

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04458	0.1494	0.1409	0.1840	0.1341		0	0.004808 0.3423

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.52 677.1 0.01877 0.1962 0.9388 0.0023820.0009129 0.6747

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7817 0.3161 0.06852 0.03321 0.1017 0.4030

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7632 0.3439 0.08329 0.3055 0.9276 0.6416

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.02226 0.008731 0.3770 4.628e-5 0.04460 0.1490

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04460	0.1490	0.1411	0.1841	0.1342		0	0.004813 0.3422

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.55 677.0 0.01869 0.1961 0.9392 0.0023670.0009153 0.6744

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7819 0.3156 0.06812 0.03314 0.1016 0.4031

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7628 0.3434 0.08322 0.3050 0.9267 0.6402

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.02203 0.008670 0.3765 4.610e-5 0.04462 0.1487

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.04462	0.1487	0.1413	0.1842	0.1343		0	0.004818 0.3420


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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.58    676.9 0.01861 0.1960 0.9395 0.0023530.0009177 0.6741
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7821 0.3152 0.06772 0.03307 0.1016 0.4032
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7624 0.3430 0.08315 0.3045 0.9258 0.6388
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.02179 0.008610 0.3761 4.591e-5 0.04465 0.1483

mode      liq    bi    g    mu    pl    ilm    ru    q
        0.04465 0.1483 0.1416 0.1844 0.1343 0.004824 0.3419

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.61    676.8 0.01853 0.1959 0.9399 0.0023380.0009201 0.6738
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7823 0.3147 0.06732 0.03300 0.1016 0.4033
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7620 0.3426 0.08309 0.3040 0.9249 0.6374
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.02156 0.008550 0.3757 4.573e-5 0.04466 0.1480

mode      liq    bi    g    mu    pl    ilm    ru    q
        0.04466 0.1480 0.1418 0.1845 0.1344 0.004829 0.3418

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.64    676.7 0.01845 0.1958 0.9403 0.0023240.0009224 0.6734
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7825 0.3143 0.06693 0.03293 0.1015 0.4034
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7616 0.3421 0.08303 0.3035 0.9239 0.6359
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.02133 0.008490 0.3753 4.555e-5 0.04468 0.1476

mode      liq    bi    g    mu    pl    ilm    ru    q
        0.04468 0.1476 0.1420 0.1847 0.1345 0.004834 0.3417

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.67    676.7 0.01837 0.1957 0.9406 0.0023090.0009248 0.6731
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7827 0.3138 0.06653 0.03286 0.1015 0.4035
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7612 0.3417 0.08296 0.3030 0.9230 0.6345
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.02110 0.008430 0.3749 4.536e-5 0.04470 0.1473

mode      liq    bi    g    mu    pl    ilm    ru    q
        0.04470 0.1473 0.1423 0.1848 0.1346 0.004840 0.3416

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)

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19.70 676.6 0.01829 0.1956 0.9410 0.0022950.0009272 0.6727
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7829 0.3134 0.06614 0.03279 0.1015 0.4036
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7608 0.3413 0.08290 0.3025 0.9220 0.6331
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02087 0.008370 0.3745 4.518e-5 0.04472 0.1469

mode liq bi g mu pl ilm ru q
0.04472 0.1469 0.1425 0.1849 0.1346 0 0.004845 0.3415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.73 676.5 0.01820 0.1954 0.9414 0.0022800.0009296 0.6724
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7831 0.3129 0.06574 0.03272 0.1014 0.4037
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7604 0.3409 0.08284 0.3020 0.9211 0.6317
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02065 0.008310 0.3740 4.500e-5 0.04474 0.1465

mode liq bi g mu pl ilm ru q
0.04474 0.1465 0.1427 0.1851 0.1347 0 0.004851 0.3413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.76 676.4 0.01812 0.1953 0.9417 0.0022660.0009319 0.6721
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7833 0.3125 0.06535 0.03265 0.1014 0.4037
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7601 0.3404 0.08277 0.3016 0.9201 0.6303
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02043 0.008251 0.3736 4.483e-5 0.04475 0.1462

mode liq bi g mu pl ilm ru q
0.04475 0.1462 0.1430 0.1852 0.1348 0 0.004856 0.3412

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.79 676.3 0.01804 0.1952 0.9421 0.0022520.0009342 0.6717
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7835 0.3121 0.06496 0.03258 0.1013 0.4038
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7597 0.3400 0.08271 0.3011 0.9191 0.6289
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.02021 0.008192 0.3732 4.465e-5 0.04477 0.1458

mode liq bi g mu pl ilm ru q
0.04477 0.1458 0.1432 0.1854 0.1349 0 0.004862 0.3411

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.82 676.2 0.01796 0.1951 0.9424 0.0022370.0009366 0.6714
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7837 0.3116 0.06457 0.03251 0.1013 0.4039
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7593 0.3396 0.08265 0.3006 0.9181 0.6275
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.01999 0.008132 0.3728 4.447e-5 0.04478 0.1455

mode liq bi g mu pl ilm ru q
0.04478 0.1455 0.1434 0.1855 0.1349 0 0.004867 0.3410

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.85 676.1 0.01788 0.1950 0.9428 0.0022230.0009389 0.6711
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7839 0.3112 0.06418 0.03243 0.1013 0.4040
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7589 0.3392 0.08259 0.3001 0.9171 0.6261
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.01977 0.008073 0.3723 4.429e-5 0.04480 0.1451

mode liq bi g mu pl ilm ru q
0.04480 0.1451 0.1436 0.1857 0.1350 0 0.004872 0.3409

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.88 676.0 0.01780 0.1949 0.9431 0.0022090.0009412 0.6707
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7842 0.3107 0.06379 0.03236 0.1012 0.4041
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7585 0.3388 0.08253 0.2996 0.9161 0.6247
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.01956 0.008015 0.3719 4.412e-5 0.04481 0.1448

mode liq bi g mu pl ilm ru q
0.04481 0.1448 0.1439 0.1859 0.1351 0 0.004878 0.3407

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.91 675.9 0.01773 0.1947 0.9435 0.0021950.0009435 0.6704
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7844 0.3103 0.06341 0.03229 0.1012 0.4042
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7582 0.3383 0.08247 0.2991 0.9151 0.6234
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.01934 0.007956 0.3715 4.394e-5 0.04482 0.1444

mode liq bi g mu pl ilm ru q
0.04482 0.1444 0.1441 0.1860 0.1352 0 0.004883 0.3406

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.94 675.8 0.01765 0.1946 0.9438 0.0021810.0009459 0.6701
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7846 0.3099 0.06302 0.03221 0.1011 0.4043
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7578 0.3379 0.08241 0.2986 0.9141 0.6220
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.01913 0.007897 0.3711 4.377e-5 0.04483 0.1441

mode liq bi g mu pl ilm ru q
0.04483 0.1441 0.1443 0.1862 0.1352 0 0.004889 0.3405

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.97 675.7 0.01757 0.1945 0.9442 0.0021670.0009482 0.6697
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7848 0.3094 0.06264 0.03214 0.1011 0.4043
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7574 0.3375 0.08236 0.2981 0.9131 0.6206
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.01893 0.007839 0.3706 4.360e-5 0.04484 0.1437

mode liq bi g mu pl ilm ru q
0.04484 0.1437 0.1445 0.1863 0.1353 0 0.004894 0.3404

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00 675.6 0.01749 0.1944 0.9445 0.0021530.0009504 0.6694
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7850 0.3090 0.06225 0.03207 0.1010 0.4044
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7570 0.3371 0.08230 0.2976 0.9121 0.6193
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.01872 0.007781 0.3702 4.343e-5 0.04485 0.1434

mode liq bi g mu pl ilm ru q
0.04485 0.1434 0.1447 0.1865 0.1354 0 0.004900 0.3403

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.34 889.3 0.1074 0.3208 0.5549 0.03210 0.004147 0.6196
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5273 0.2127 0.2835 0.05708 0.2010 0.1679
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4893 0.06210 0.01436 0.3152 0.02182 0.2409
k(pl) x(ilm) Q(ilm)
0.08466 0.4881 6.422e-5

mode liq bi g ksp pl ilm ru ky q
0.3142 0 0.2266 0.04959 0.1773 0.007326 0.005325 0 0.2197

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.61	651.8	0.04255	0.1884	0.8948	0.0048900	0.0006516	0.7173
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7632	0.4187	0.1737	0.03380	0.08837	0.3649	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2743	0.2601	0.8282	0.2458	0.02552	0.3933	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9972	0.9229	0.1518	0.008816	0.7360	0.6300	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.03776	0.2160	0.03505	0.05822	0.1432	0.1486	0	0.004282	0.3569	0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.67	650.4	0.04191	0.1880	0.8949	0.0047230	0.0006473	0.7208
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7644	0.4242	0.1695	0.03305	0.08777	0.3676	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2749	0.2607	0.8326	0.2501	0.02632	0.3986	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9972	0.9239	0.1454	0.008945	0.7448	0.6431	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0	0.2192	0.03524	0.05488	0.1450	0.1636	0	0.004264	0.3616	0.01614

alcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ru, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.61	519.0	0.01502	0.1199	0.96100	0.00036810	0.0001721	0.7150
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8646	0.4755	0.01028	0.002323	0.04694	0.5462	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	

0.2267 0.2224 0.9256 0.6470 0.1271 0.4178
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9937 0.9932 0.009020 0.001575 0 0.2401

mode liq bi ep g mu pl ru q H2O
0 0.2401 0.04283 0.03530 0.2207 0.08259 0.005329 0.3731 3.506e-5

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.69 522.0 0.01504 0.1211 0.95960.00038430.0001761 0.7166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8633 0.4751 0.01080 0.002432 0.04780 0.5441
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2270 0.2227 0.9247 0.6435 0.1259 0.4185
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9937 0.9928 0.009221 0.001674 0 0.2399

mode liq bi ep g mu pl ru q H2O
0 0.2399 0.04273 0.03557 0.2204 0.08283 0.005304 0.37310.0001223

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.78 525.0 0.01506 0.1224 0.95820.00040130.0001803 0.7181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8619 0.4747 0.01133 0.002547 0.04867 0.5419
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2274 0.2230 0.9237 0.6398 0.1247 0.4193
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9936 0.9924 0.009435 0.001778 0 0.2398

mode liq bi ep g mu pl ru q H2O
0 0.2398 0.04265 0.03583 0.2202 0.08309 0.005278 0.37300.0002132

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.85 528.0 0.01510 0.1237 0.95670.00041920.0001848 0.7196
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8606 0.4743 0.01190 0.002667 0.04955 0.5398
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2278 0.2232 0.9227 0.6360 0.1235 0.4200
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9935 0.9919 0.009666 0.001887 0 0.2396

mode liq bi ep g mu pl ru q H2O
0 0.2396 0.04257 0.03609 0.2199 0.08337 0.005253 0.37290.0003078

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.93 531.0 0.01515 0.1250 0.95530.00043810.0001896 0.7210
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8592 0.4738 0.01250 0.002793 0.05043 0.5376
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2282 0.2235 0.9217 0.6320 0.1222 0.4207
y(mu) na(mu) ca(pl) k(pl) liq bi

0.9935 0.9915 0.009913 0.002000 0 0.2394

mode liq bi ep g mu pl ru q H2O

0 0.2394 0.04251 0.03635 0.2196 0.08367 0.005227 0.37280.0004063

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.00 534.0 0.01521 0.1264 0.95380.00045800.0001947 0.7224

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.8578 0.4734 0.01312 0.002925 0.05131 0.5354

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2286 0.2238 0.9207 0.6279 0.1208 0.4213

y(mu) na(mu) ca(pl) k(pl) liq bi

0.9934 0.9910 0.01018 0.002117 0 0.2392

mode liq bi ep g mu pl ru q H2O

0 0.2392 0.04246 0.03662 0.2193 0.08398 0.005202 0.37270.0005090

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.06 537.0 0.01528 0.1277 0.95240.00047900.0002001 0.7237

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.8563 0.4729 0.01379 0.003064 0.05219 0.5332

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2289 0.2241 0.9196 0.6235 0.1193 0.4219

y(mu) na(mu) ca(pl) k(pl) liq bi

0.9933 0.9905 0.01046 0.002239 0 0.2390

mode liq bi ep g mu pl ru q H2O

0 0.2390 0.04241 0.03688 0.2190 0.08432 0.005176 0.37270.0006159

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.12 540.0 0.01536 0.1291 0.95100.00050110.0002058 0.7250

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.8549 0.4724 0.01449 0.003209 0.05308 0.5310

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2293 0.2243 0.9185 0.6190 0.1178 0.4225

y(mu) na(mu) ca(pl) k(pl) liq bi

0.9933 0.9900 0.01077 0.002366 0 0.2388

mode liq bi ep g mu pl ru q H2O

0 0.2388 0.04238 0.03714 0.2186 0.08469 0.005150 0.37260.0007273

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.18 543.0 0.01546 0.1304 0.94960.00052460.0002118 0.7262

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.8534 0.4719 0.01522 0.003363 0.05397 0.5287

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2297 0.2246 0.9174 0.6143 0.1162 0.4231

y(mu) na(mu) ca(pl) k(pl) liq bi

0.9933 0.9895 0.01110 0.002498 0 0.2385

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mode   liq   bi   ep   g   mu   pl   ru   q   H2O
0 0.2385 0.04237 0.03739 0.2182 0.08508 0.005125 0.37250.0008435
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.23 546.0 0.01557 0.1318 0.94820.00054930.0002182 0.7274
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8518 0.4713 0.01601 0.003524 0.05486 0.5265
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2301 0.2248 0.9163 0.6094 0.1145 0.4236
      y(mu) na(mu) ca(pl) k(pl) liq bi
      0.9932 0.9889 0.01146 0.002634 0 0.2383

mode   liq   bi   ep   g   mu   pl   ru   q   H2O
0 0.2383 0.04237 0.03765 0.2177 0.08549 0.005099 0.37240.0009647
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.27 549.0 0.01569 0.1332 0.94680.00057550.0002249 0.7285
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8503 0.4708 0.01683 0.003694 0.05576 0.5242
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2304 0.2251 0.9152 0.6043 0.1128 0.4241
      y(mu) na(mu) ca(pl) k(pl) liq bi
      0.9932 0.9883 0.01185 0.002775 0 0.2381

mode   liq   bi   ep   g   mu   pl   ru   q   H2O
0 0.2381 0.04238 0.03790 0.2173 0.08594 0.005074 0.3723 0.001091
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.31 552.0 0.01583 0.1347 0.94550.00060330.0002321 0.7296
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8487 0.4702 0.01771 0.003873 0.05665 0.5219
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2308 0.2253 0.9140 0.5989 0.1110 0.4245
      y(mu) na(mu) ca(pl) k(pl) liq bi
      0.9932 0.9877 0.01227 0.002922 0 0.2378

mode   liq   bi   ep   g   mu   pl   ru   q   H2O
0 0.2378 0.04241 0.03816 0.2168 0.08641 0.005048 0.3722 0.001223
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.35 555.0 0.01599 0.1361 0.94410.00063270.0002396 0.7306
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8470 0.4696 0.01864 0.004062 0.05755 0.5195
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2311 0.2256 0.9128 0.5934 0.1091 0.4249
      y(mu) na(mu) ca(pl) k(pl) liq bi
      0.9932 0.9871 0.01272 0.003073 0 0.2376

mode   liq   bi   ep   g   mu   pl   ru   q   H2O
0 0.2376 0.04245 0.03840 0.2162 0.08692 0.005023 0.3720 0.001361

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.37 558.0 0.01616 0.1376 0.94280.00066400.0002475 0.7316
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8454 0.4690 0.01963 0.004261 0.05845 0.5172
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2315 0.2258 0.9116 0.5876 0.1071 0.4253
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9865 0.01321 0.003229 0 0.2373

mode liq bi ep g mu pl ru q H2O
0 0.2373 0.04251 0.03865 0.2156 0.08745 0.004997 0.3719 0.001505

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.39 561.0 0.01635 0.1390 0.94150.00069720.0002558 0.7325
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8437 0.4684 0.02069 0.004472 0.05936 0.5147
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2318 0.2260 0.9104 0.5815 0.1050 0.4257
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9858 0.01375 0.003390 0 0.2371

mode liq bi ep g mu pl ru q H2O
0 0.2371 0.04258 0.03889 0.2150 0.08803 0.004972 0.3718 0.001655

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.41 564.0 0.01656 0.1405 0.94030.00073260.0002646 0.7334
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8419 0.4677 0.02181 0.004694 0.06026 0.5123
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2322 0.2262 0.9091 0.5752 0.1028 0.4260
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9851 0.01433 0.003556 0 0.2368

mode liq bi ep g mu pl ru q H2O
0 0.2368 0.04268 0.03913 0.2144 0.08864 0.004946 0.3717 0.001813

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.41 567.0 0.01678 0.1420 0.93910.00077030.0002738 0.7342
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8401 0.4670 0.02302 0.004931 0.06116 0.5098
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2325 0.2264 0.9078 0.5686 0.1006 0.4262
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9933 0.9844 0.01497 0.003728 0 0.2365

mode liq bi ep g mu pl ru q H2O
0 0.2365 0.04279 0.03937 0.2136 0.08930 0.004921 0.3715 0.001978

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.41 570.0 0.01703 0.1436 0.93790.00081050.0002835 0.7349
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8383 0.4663 0.02430 0.005181 0.06207 0.5073
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2328 0.2266 0.9064 0.5618 0.09822 0.4264
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9933 0.9836 0.01567 0.003904 0 0.2362

mode liq bi ep g mu pl ru q H2O
 0 0.2362 0.04291 0.03961 0.2129 0.08999 0.004896 0.3714 0.002152

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.40 573.0 0.01731 0.1451 0.93670.00085350.0002937 0.7356
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8364 0.4656 0.02569 0.005448 0.06298 0.5047
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2331 0.2268 0.9050 0.5546 0.09579 0.4266
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9934 0.9829 0.01644 0.004086 0 0.2359

mode liq bi ep g mu pl ru q H2O
 0 0.2359 0.04305 0.03985 0.2121 0.09074 0.004870 0.3712 0.002333

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.39 576.0 0.01761 0.1467 0.93550.00089950.0003043 0.7363
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8345 0.4648 0.02717 0.005731 0.06389 0.5020
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2334 0.2269 0.9036 0.5472 0.09327 0.4267
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9934 0.9820 0.01729 0.004273 0 0.2356

mode liq bi ep g mu pl ru q H2O
 0 0.2356 0.04321 0.04008 0.2112 0.09154 0.004845 0.3710 0.002525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.36 579.0 0.01793 0.1483 0.93440.00094890.0003155 0.7368
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8325 0.4640 0.02877 0.006033 0.06480 0.4993
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2336 0.2271 0.9021 0.5394 0.09066 0.4268
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9935 0.9812 0.01822 0.004466 0 0.2352

mode liq bi ep g mu pl ru q H2O
 0 0.2352 0.04338 0.04032 0.2103 0.09239 0.004820 0.3709 0.002726

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.33 582.0 0.01829 0.1500 0.9333 0.0010020.0003271 0.7373
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.8304 0.4632 0.03050 0.006356 0.06571 0.4965
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2339 0.2272 0.9005 0.5313 0.08796 0.4268
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9936 0.9803 0.01925 0.004664 0 0.2349

mode liq bi ep g mu pl ru q H2O
0 0.2349 0.04357 0.04056 0.2093 0.09330 0.004795 0.3707 0.002938

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.28 585.0 0.01867 0.1516 0.9322 0.0010590.0003393 0.7377
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8283 0.4624 0.03238 0.006702 0.06662 0.4936
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2341 0.2273 0.8989 0.5228 0.08518 0.4267
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9937 0.9794 0.02039 0.004867 0 0.2345

mode liq bi ep g mu pl ru q H2O
0 0.2345 0.04376 0.04080 0.2082 0.09428 0.004771 0.3705 0.003163

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.22 588.0 0.01909 0.1533 0.9312 0.0011200.0003519 0.7381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8261 0.4615 0.03441 0.007073 0.06754 0.4906
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2343 0.2274 0.8973 0.5140 0.08231 0.4266
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9938 0.9784 0.02167 0.005076 0 0.2342

mode liq bi ep g mu pl ru q H2O
0 0.2342 0.04397 0.04105 0.2070 0.09532 0.004746 0.3703 0.003400

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.16 591.0 0.01955 0.1550 0.9301 0.0011870.0003651 0.7384
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8239 0.4605 0.03662 0.007471 0.06845 0.4875
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2346 0.2275 0.8955 0.5048 0.07937 0.4264
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9939 0.9774 0.02309 0.005290 0 0.2338

mode liq bi ep g mu pl ru q H2O
0 0.2338 0.04418 0.04130 0.2058 0.09645 0.004721 0.3701 0.003652

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.08 594.0 0.02005 0.1567 0.9291 0.0012590.0003787 0.7386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8216 0.4595 0.03903 0.007901 0.06937 0.4843
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2348 0.2276 0.8937 0.4953 0.07636 0.4262
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9941 0.9763 0.02468 0.005510 0 0.2334

mode liq bi ep g mu pl ru q H2O
0 0.2334 0.04439 0.04157 0.2045 0.09767 0.004697 0.3699 0.003921

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.99 597.0 0.02060 0.1585 0.9280 0.0013370.0003927 0.7386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8192 0.4585 0.04167 0.008365 0.07030 0.4809
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2350 0.2277 0.8919 0.4853 0.07328 0.4258
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9942 0.9752 0.02647 0.005734 0 0.2329

mode liq bi ep g mu pl ru q H2O
0 0.2329 0.04461 0.04185 0.2031 0.09898 0.004672 0.3697 0.004207

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.89 600.0 0.02119 0.1603 0.9269 0.0014220.0004072 0.7387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8167 0.4574 0.04456 0.008867 0.07122 0.4774
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2352 0.2278 0.8899 0.4750 0.07015 0.4254
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9944 0.9740 0.02848 0.005964 0 0.2325

mode liq bi ep g mu pl ru q H2O
0 0.2325 0.04481 0.04215 0.2015 0.1004 0.004648 0.3694 0.004513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.77 603.0 0.02184 0.1621 0.9258 0.0015150.0004221 0.7386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8142 0.4563 0.04775 0.009414 0.07215 0.4737
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2355 0.2279 0.8878 0.4642 0.06697 0.4249
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9946 0.9727 0.03076 0.006198 0 0.2320

mode liq bi ep g mu pl ru q H2O
0 0.2320 0.04501 0.04247 0.1999 0.1019 0.004624 0.3692 0.004841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.65 606.0 0.02255 0.1639 0.9247 0.0016160.0004373 0.7384
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8115 0.4550 0.05125 0.01001 0.07309 0.4697
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2358 0.2280 0.8856 0.4531 0.06377 0.4242
y(mu) na(mu) ca(pl) k(pl) liq bi

0.9947 0.9713 0.03334 0.006437 0 0.2315

mode liq bi ep g mu pl ru q H2O
0 0.2315 0.04518 0.04282 0.1981 0.1036 0.004599 0.3689 0.005194

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.51 609.0 0.02332 0.1657 0.9235 0.0017270.0004527 0.7380
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8088 0.4537 0.05512 0.01066 0.07403 0.4656
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2361 0.2282 0.8833 0.4415 0.06056 0.4235
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9949 0.9698 0.03626 0.006678 0 0.2310

mode liq bi ep g mu pl ru q H2O
0 0.2310 0.04533 0.04321 0.1962 0.1055 0.004575 0.3686 0.005575

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.35 612.0 0.02416 0.1676 0.9223 0.0018480.0004684 0.7376
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8060 0.4523 0.05940 0.01137 0.07498 0.4612
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2365 0.2285 0.8809 0.4296 0.05736 0.4226
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9951 0.9682 0.03959 0.006922 0 0.2305

mode liq bi ep g mu pl ru q H2O
0 0.2305 0.04543 0.04363 0.1941 0.1075 0.004551 0.3683 0.005987

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.19 615.0 0.02507 0.1694 0.9210 0.0019810.0004841 0.7370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8030 0.4509 0.06414 0.01216 0.07594 0.4565
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2370 0.2288 0.8783 0.4172 0.05418 0.4216
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9953 0.9664 0.04339 0.007166 0 0.2299

mode liq bi ep g mu pl ru q H2O
0 0.2299 0.04548 0.04411 0.1919 0.1097 0.004527 0.3680 0.006435

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.01 618.0 0.02605 0.1713 0.9196 0.0021270.0004998 0.7364
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8000 0.4493 0.06940 0.01302 0.07691 0.4514
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2376 0.2293 0.8756 0.4045 0.05106 0.4205
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9955 0.9645 0.04771 0.007409 0 0.2292

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0	0.2292	0.04546	0.04463	0.1895	0.1121	0.004503	0.3677	0.006923	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
14.82	621.0	0.02712	0.1731	0.9180	0.0022870	0.0005154	0.7355		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7969	0.4476	0.07522	0.01398	0.07789	0.4460			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2385	0.2299	0.8727	0.3914	0.04802	0.4192			
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi			
	0.9957	0.9625	0.05264	0.007647	0	0.2285			

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0	0.2285	0.04535	0.04522	0.1868	0.1148	0.004480	0.3673	0.007455	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
14.62	624.0	0.02828	0.1749	0.9164	0.0024620	0.0005308	0.7346		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7938	0.4458	0.08166	0.01504	0.07888	0.4402			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2395	0.2308	0.8696	0.3780	0.04507	0.4177			
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi			
	0.9959	0.9602	0.05825	0.007878	0	0.2278			

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0	0.2278	0.04514	0.04588	0.1839	0.1178	0.004456	0.3669	0.008037	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
14.41	627.0	0.02952	0.1767	0.9146	0.0026540	0.0005459	0.7335		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7905	0.4438	0.08877	0.01623	0.07988	0.4339			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2409	0.2319	0.8663	0.3643	0.04225	0.4161			
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi			
	0.9961	0.9576	0.06462	0.008098	0	0.2270			

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0	0.2270	0.04480	0.04661	0.1808	0.1211	0.004432	0.3665	0.008674	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
14.19	630.0	0.03084	0.1784	0.9126	0.0028630	0.0005606	0.7322		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7872	0.4417	0.09659	0.01756	0.08089	0.4272			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2427	0.2334	0.8628	0.3504	0.03958	0.4143			
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi			
	0.9963	0.9548	0.07182	0.008302	0	0.2262			

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0	0.2262	0.04432	0.04742	0.1774	0.1248	0.004409	0.3660	0.009371	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.97 633.0 0.03226 0.1801 0.9104 0.0030900.0005748 0.7308
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7839 0.4395 0.1052 0.01905 0.08191 0.4199
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2450 0.2353 0.8590 0.3362 0.03708 0.4123
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9965 0.9516 0.07992 0.008486 0 0.2253

mode liq bi ep g mu pl ru q H2O
0 0.2253 0.04366 0.04831 0.1737 0.1289 0.004386 0.3655 0.01014

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.74 636.0 0.03375 0.1817 0.9081 0.0033350.0005884 0.7293
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7805 0.4372 0.1145 0.02073 0.08293 0.4122
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2479 0.2377 0.8551 0.3219 0.03476 0.4102
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9967 0.9481 0.08896 0.008645 0 0.2244

mode liq bi ep g mu pl ru q H2O
0 0.2244 0.04281 0.04929 0.1697 0.1335 0.004363 0.3650 0.01097

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.51 639.0 0.03532 0.1832 0.9056 0.0035970.0006015 0.7277
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7771 0.4347 0.1246 0.02265 0.08396 0.4039
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2515 0.2408 0.8509 0.3074 0.03263 0.4080
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9968 0.9442 0.09897 0.008774 0 0.2234

mode liq bi ep g mu pl ru q H2O
0 0.2234 0.04173 0.05034 0.1653 0.1386 0.004341 0.3644 0.01188

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.29 642.0 0.03696 0.1846 0.9030 0.0038750.0006141 0.7260
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7738 0.4321 0.1355 0.02484 0.08498 0.3951
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2560 0.2447 0.8464 0.2927 0.03070 0.4056
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9969 0.9397 0.1099 0.008870 0 0.2224

mode liq bi ep g mu pl ru q H2O
0 0.2224 0.04041 0.05146 0.1605 0.1443 0.004319 0.3638 0.01288

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.07 645.0 0.03867 0.1859 0.9002 0.0041680.0006263 0.7242
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7704 0.4293 0.1470 0.02737 0.08599 0.3858
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2616 0.2494 0.8417 0.2778 0.02897 0.4032
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9970 0.9347 0.1218 0.008931 0 0.2213

mode liq bi ep g mu pl ru q H2O
 0 0.2213 0.03883 0.05264 0.1554 0.1506 0.004298 0.3630 0.01396

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.84 648.0 0.04044 0.1871 0.8973 0.0044720.0006381 0.7224
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7671 0.4265 0.1593 0.03031 0.08699 0.3759
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2684 0.2552 0.8368 0.2626 0.02743 0.4006
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9971 0.9290 0.1346 0.008954 0 0.2201

mode liq bi ep g mu pl ru q H2O
 0 0.2201 0.03696 0.05386 0.1498 0.1575 0.004279 0.3623 0.01513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.63 651.0 0.04228 0.1882 0.8943 0.0047850.0006495 0.7205
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7637 0.4236 0.1721 0.03378 0.08796 0.3655
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2767 0.2622 0.8316 0.2470 0.02607 0.3981
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9972 0.9226 0.1481 0.008940 0 0.2190

mode liq bi ep g mu pl ru q H2O
 0 0.2190 0.03479 0.05513 0.1438 0.1652 0.004260 0.3614 0.01640

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.41 654.0 0.04419 0.1893 0.8913 0.0051010.0006607 0.7186
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7604 0.4206 0.1853 0.03792 0.08888 0.3547
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2866 0.2704 0.8261 0.2311 0.02487 0.3955
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9973 0.9151 0.1623 0.008890 0 0.2177

mode liq bi ep g mu pl ru q H2O
 0 0.2177 0.03231 0.05641 0.1374 0.1736 0.004243 0.3605 0.01776

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.19 657.0 0.04619 0.1902 0.8882 0.0054160.0006717 0.7167
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7570 0.4176 0.1990 0.04292 0.08976 0.3433
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2984 0.2799 0.8203 0.2145 0.02382 0.3930
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9973 0.9064 0.1770 0.008808 0 0.2165

mode liq bi ep g mu pl ru q H2O
0 0.2165 0.02949 0.05772 0.1304 0.1829 0.004228 0.3595 0.01924

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.97 660.0 0.04829 0.1911 0.8853 0.0057230.0006822 0.7148
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7535 0.4145 0.2129 0.04904 0.09056 0.3314
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3124 0.2909 0.8142 0.1973 0.02290 0.3906
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9973 0.8962 0.1919 0.008697 0 0.2153

mode liq bi ep g mu pl ru q H2O
0 0.2153 0.02632 0.05904 0.1229 0.1930 0.004215 0.3584 0.02082

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.74 663.0 0.05052 0.1920 0.8825 0.0060140.0006922 0.7130
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7500 0.4112 0.2268 0.05663 0.09128 0.3190
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3288 0.3032 0.8077 0.1795 0.02211 0.3883
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9973 0.8836 0.2070 0.008559 0 0.2139

mode liq bi ep g mu pl ru q H2O
0 0.2139 0.02277 0.06041 0.1148 0.2041 0.004206 0.3573 0.02254

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 666.0 0.05293 0.1929 0.8800 0.0062800.0007012 0.7112
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7462 0.4078 0.2406 0.06620 0.09189 0.3060
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3478 0.3167 0.8008 0.1610 0.02147 0.3861
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9972 0.8675 0.2219 0.008397 0 0.2125

mode liq bi ep g mu pl ru q H2O
0 0.2125 0.01880 0.06189 0.1060 0.2162 0.004201 0.3560 0.02440

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.24 669.0 0.05555 0.1938 0.8779 0.0065100.0007088 0.7093
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7422 0.4039 0.2536 0.07847 0.09235 0.2925
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.3698 0.3310 0.7933 0.1420 0.02102 0.3838
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9969 0.8448 0.2364 0.008207 0 0.2109

mode liq bi ep g mu pl ru q H2O
0 0.2109 0.01434 0.06368 0.09650 0.2295 0.004204 0.3545 0.02645

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.95 672.0 0.05842 0.1949 0.8774 0.0066730.0007151 0.7064
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7377 0.3977 0.2644 0.09492 0.09263 0.2790
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3957 0.3455 0.7842 0.1224 0.02085 0.3802
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9962 0.8015 0.2496 0.007952 0 0.2078

mode liq bi ep g mu pl ru q H2O
0 0.2078 0.009217 0.06675 0.08595 0.2448 0.004230 0.3524 0.02888

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ru, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.61 519.0 0.01502 0.1199 0.96100.00036810.0001721 0.7150
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8646 0.4755 0.01028 0.002323 0.04694 0.5462
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2267 0.2224 0.9256 0.6470 0.1271 0.4178
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9937 0.9932 0.009020 0.001575 5.729e-5 0.2401

mode liq bi ep g mu pl ru q H2O
5.729e-5 0.2401 0.04283 0.03531 0.2207 0.08257 0.005329 0.3731 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.69 522.0 0.01504 0.1211 0.95960.00038430.0001761 0.7166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8633 0.4751 0.01080 0.002432 0.04780 0.5441
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2271 0.2227 0.9247 0.6435 0.1259 0.4185
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9937 0.9928 0.009220 0.0016740.0002009 0.2399

mode liq bi ep g mu pl ru q H2O
0.0002009 0.2399 0.04272 0.03558 0.2204 0.08276 0.005304 0.3730 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.78    525.0 0.01506 0.1224 0.95820.00040130.0001804 0.7181
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8619 0.4747 0.01133 0.002547 0.04867 0.5419
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2274 0.2230 0.9237 0.6398 0.1248 0.4193
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9936 0.9924 0.009435 0.0017780.0003517 0.2398

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
0.0003517 0.2398 0.04263 0.03585 0.2202 0.08297 0.005278 0.3730 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.85    528.0 0.01510 0.1237 0.95670.00041920.0001849 0.7196
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8606 0.4742 0.01190 0.002667 0.04955 0.5398
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2278 0.2233 0.9227 0.6360 0.1235 0.4199
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9935 0.9920 0.009665 0.0018860.0005101 0.2396

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
0.0005101 0.2396 0.04254 0.03612 0.2199 0.08319 0.005253 0.3729 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.93    531.0 0.01515 0.1250 0.95530.00043800.0001897 0.7210
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8592 0.4738 0.01249 0.002794 0.05043 0.5376
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2282 0.2236 0.9217 0.6320 0.1222 0.4206
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9935 0.9915 0.009912 0.0019990.0006767 0.2394

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
0.0006767 0.2394 0.04247 0.03640 0.2196 0.08342 0.005227 0.3728 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00    534.0 0.01520 0.1264 0.95390.00045790.0001948 0.7223
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8578 0.4733 0.01312 0.002926 0.05131 0.5354
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2286 0.2239 0.9206 0.6279 0.1208 0.4213
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9934 0.9910 0.01018 0.0021160.0008518 0.2392

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
0.0008518 0.2392 0.04240 0.03667 0.2193 0.08368 0.005202 0.3727 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.06    537.0 0.01528 0.1277 0.95240.00047890.0002002 0.7236

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8563 0.4728 0.01378 0.003065 0.05219 0.5332
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2290 0.2241 0.9196 0.6235 0.1194 0.4219
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9933 0.9905 0.01046 0.002238 0.001036 0.2389

mode liq bi ep g mu pl ru q H2O
 0.001036 0.2389 0.04235 0.03695 0.2190 0.08395 0.005176 0.3726 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.12 540.0 0.01536 0.1291 0.95100 0.00050100 0.0002059 0.7249
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8549 0.4723 0.01448 0.003212 0.05308 0.5310
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2294 0.2244 0.9185 0.6190 0.1179 0.4224
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9933 0.9900 0.01077 0.002364 0.001230 0.2387

mode liq bi ep g mu pl ru q H2O
 0.001230 0.2387 0.04231 0.03722 0.2186 0.08424 0.005151 0.3725 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.18 543.0 0.01546 0.1304 0.94960 0.00052440 0.0002120 0.7261
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8534 0.4718 0.01522 0.003365 0.05397 0.5288
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2298 0.2247 0.9174 0.6143 0.1163 0.4230
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9933 0.9895 0.01110 0.002496 0.001434 0.2385

mode liq bi ep g mu pl ru q H2O
 0.001434 0.2385 0.04228 0.03749 0.2182 0.08455 0.005125 0.3724 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.23 546.0 0.01557 0.1318 0.94820 0.00054910 0.0002184 0.7273
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8518 0.4712 0.01600 0.003527 0.05486 0.5265
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2302 0.2250 0.9163 0.6094 0.1146 0.4235
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9932 0.9889 0.01146 0.002632 0.001648 0.2383

mode liq bi ep g mu pl ru q H2O
 0.001648 0.2383 0.04226 0.03777 0.2178 0.08489 0.005100 0.3723 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.27 549.0 0.01569 0.1332 0.94690 0.00057530 0.0002252 0.7284
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8503 0.4707 0.01682 0.003698 0.05576 0.5242

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2306 0.2252 0.9151 0.6043 0.1129 0.4240
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9884 0.01184 0.002772 0.001874 0.2380

mode liq bi ep g mu pl ru q H2O
0.001874 0.2380 0.04226 0.03804 0.2173 0.08524 0.005074 0.3722 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.31 552.0 0.01583 0.1346 0.94550.00060300.0002323 0.7295
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8487 0.4701 0.01770 0.003877 0.05665 0.5219
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2310 0.2255 0.9140 0.5989 0.1111 0.4244
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9878 0.01226 0.002918 0.002113 0.2378

mode liq bi ep g mu pl ru q H2O
0.002113 0.2378 0.04227 0.03831 0.2168 0.08562 0.005049 0.3721 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.35 555.0 0.01598 0.1361 0.94420.00063240.0002399 0.7305
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8471 0.4695 0.01863 0.004067 0.05755 0.5196
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2314 0.2258 0.9128 0.5934 0.1092 0.4248
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9871 0.01271 0.003068 0.002364 0.2375

mode liq bi ep g mu pl ru q H2O
0.002364 0.2375 0.04230 0.03858 0.2163 0.08603 0.005023 0.3719 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.37 558.0 0.01616 0.1375 0.94290.00066360.0002478 0.7315
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8454 0.4688 0.01962 0.004267 0.05845 0.5172
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2317 0.2260 0.9115 0.5875 0.1072 0.4251
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9865 0.01320 0.003223 0.002629 0.2372

mode liq bi ep g mu pl ru q H2O
0.002629 0.2372 0.04234 0.03885 0.2157 0.08646 0.004998 0.3718 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 561.0 0.01634 0.1390 0.94170.00069680.0002562 0.7324
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8437 0.4682 0.02067 0.004479 0.05935 0.5148
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2321 0.2263 0.9103 0.5815 0.1052 0.4255

y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9858 0.01374 0.003384 0.002909 0.2369

mode liq bi ep g mu pl ru q H2O
0.002909 0.2369 0.04240 0.03911 0.2151 0.08693 0.004973 0.3716 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.41 564.0 0.01655 0.1405 0.94040.00073210.0002651 0.7332
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8419 0.4675 0.02179 0.004703 0.06026 0.5124
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2325 0.2265 0.9090 0.5752 0.1030 0.4257
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9851 0.01432 0.003549 0.003206 0.2366

mode liq bi ep g mu pl ru q H2O
0.003206 0.2366 0.04248 0.03938 0.2144 0.08742 0.004947 0.3715 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.42 567.0 0.01678 0.1420 0.93920.00076970.0002743 0.7340
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8401 0.4668 0.02299 0.004941 0.06116 0.5099
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2328 0.2267 0.9077 0.5686 0.1008 0.4260
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9933 0.9844 0.01496 0.003719 0.003519 0.2363

mode liq bi ep g mu pl ru q H2O
0.003519 0.2363 0.04257 0.03964 0.2137 0.08795 0.004922 0.3713 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.42 570.0 0.01703 0.1436 0.93800.00080980.0002841 0.7348
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8383 0.4661 0.02427 0.005193 0.06207 0.5074
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2331 0.2269 0.9063 0.5617 0.09846 0.4261
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9933 0.9837 0.01565 0.003894 0.003851 0.2360

mode liq bi ep g mu pl ru q H2O
0.003851 0.2360 0.04268 0.03991 0.2130 0.08851 0.004897 0.3712 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.41 573.0 0.01730 0.1451 0.93690.00085260.0002943 0.7354
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8364 0.4653 0.02565 0.005461 0.06297 0.5048
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2335 0.2271 0.9049 0.5546 0.09604 0.4263
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9934 0.9829 0.01642 0.004075 0.004204 0.2357

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0.004204	0.2357	0.04280	0.04017	0.2121	0.08911	0.004872	0.3710	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.39	576.0	0.01760	0.1467	0.93570	0.00089850	0.0003051	0.7360
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8345	0.4645	0.02713	0.005746	0.06388	0.5022	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2338	0.2273	0.9034	0.5471	0.09353	0.4264	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9934	0.9821	0.01726	0.004260	0.004578	0.2354	

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0.004578	0.2354	0.04294	0.04043	0.2113	0.08975	0.004847	0.3708	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.36	579.0	0.01792	0.1483	0.93460	0.00094770	0.0003163	0.7366
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8325	0.4637	0.02872	0.006050	0.06479	0.4995	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2341	0.2275	0.9019	0.5393	0.09094	0.4264	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9935	0.9813	0.01819	0.004451	0.004977	0.2350	

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0.004977	0.2350	0.04309	0.04070	0.2103	0.09043	0.004822	0.3706	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.33	582.0	0.01828	0.1500	0.9336	0.0010010	0.0003280	0.7371
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8304	0.4628	0.03044	0.006375	0.06570	0.4967	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2344	0.2276	0.9004	0.5312	0.08825	0.4264	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9936	0.9804	0.01922	0.004647	0.005401	0.2347	

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0.005401	0.2347	0.04326	0.04097	0.2093	0.09117	0.004798	0.3704	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.28	585.0	0.01866	0.1516	0.9325	0.0010570	0.0003403	0.7375
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8283	0.4619	0.03230	0.006723	0.06662	0.4938	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2346	0.2278	0.8987	0.5228	0.08548	0.4263	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9937	0.9795	0.02036	0.004848	0.005855	0.2343	

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
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0.005855	0.2343	0.04344	0.04125	0.2083	0.09195	0.004773	0.3702	0
<hr/>								
P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.23	588.0	0.01908	0.1533	0.9315	0.0011190	0.0003530	0.7378	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.8262	0.4610	0.03432	0.007097	0.06753	0.4908		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2349	0.2279	0.8971	0.5140	0.08262	0.4261		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9938	0.9785	0.02162	0.005054	0.006341	0.2339		
<hr/>								
mode	liq	bi	ep	g	mu	pl	ru	q H2O
	0.006341	0.2339	0.04363	0.04153	0.2071	0.09279	0.004748	0.3700 0
<hr/>								
P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.16	591.0	0.01954	0.1550	0.9304	0.0011850	0.0003662	0.7380	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.8239	0.4600	0.03652	0.007498	0.06845	0.4878		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2352	0.2280	0.8953	0.5048	0.07969	0.4259		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9939	0.9775	0.02304	0.005266	0.006862	0.2335		
<hr/>								
mode	liq	bi	ep	g	mu	pl	ru	q H2O
	0.006862	0.2335	0.04383	0.04182	0.2059	0.09370	0.004724	0.3697 0
<hr/>								
P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.08	594.0	0.02004	0.1567	0.9294	0.0012570	0.0003799	0.7382	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.8216	0.4590	0.03892	0.007930	0.06937	0.4846		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2354	0.2282	0.8935	0.4952	0.07668	0.4255		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9941	0.9764	0.02462	0.005483	0.007422	0.2330		
<hr/>								
mode	liq	bi	ep	g	mu	pl	ru	q H2O
	0.007422	0.2330	0.04403	0.04212	0.2046	0.09467	0.004700	0.3694 0
<hr/>								
P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.00	597.0	0.02058	0.1585	0.9284	0.0013350	0.0003941	0.7382	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.8192	0.4579	0.04154	0.008397	0.07029	0.4812		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2357	0.2283	0.8916	0.4853	0.07361	0.4251		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9942	0.9753	0.02640	0.005705	0.008026	0.2326		
<hr/>								
mode	liq	bi	ep	g	mu	pl	ru	q H2O
	0.008026	0.2326	0.04423	0.04244	0.2032	0.09572	0.004676	0.3692 0


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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.89    600.0 0.02117 0.1602 0.9273 0.0014190.0004087 0.7382
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8167 0.4567 0.04441 0.008903 0.07122 0.4777
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2359 0.2284 0.8896 0.4750 0.07048 0.4246
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9944 0.9741 0.02840 0.005931 0.008679 0.2321

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
0.008679 0.2321 0.04443 0.04279 0.2016 0.09685 0.004652 0.3689 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.78    603.0 0.02182 0.1620 0.9263 0.0015120.0004237 0.7381
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8142 0.4555 0.04757 0.009453 0.07215 0.4740
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2362 0.2285 0.8875 0.4642 0.06730 0.4240
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9946 0.9729 0.03067 0.006162 0.009388 0.2316

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
0.009388 0.2316 0.04461 0.04315 0.2000 0.09807 0.004628 0.3686 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.65    606.0 0.02252 0.1639 0.9252 0.0016120.0004390 0.7378
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8116 0.4542 0.05105 0.01005 0.07309 0.4701
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2365 0.2287 0.8852 0.4530 0.06410 0.4233
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9947 0.9715 0.03323 0.006397 0.01016 0.2310

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
0.01016 0.2310 0.04478 0.04355 0.1982 0.09941 0.004604 0.3682 0

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.51    609.0 0.02329 0.1657 0.9240 0.0017220.0004546 0.7374
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8088 0.4528 0.05488 0.01070 0.07403 0.4660
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2368 0.2289 0.8829 0.4415 0.06088 0.4225
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9949 0.9701 0.03614 0.006635 0.01100 0.2305

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
0.01100 0.2305 0.04492 0.04399 0.1963 0.1009 0.004580 0.3679 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.36    612.0 0.02412 0.1675 0.9228 0.0018430.0004703 0.7370

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8060 0.4513 0.05913 0.01142 0.07499 0.4617
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2372 0.2291 0.8804 0.4295 0.05766 0.4215
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9951 0.9685 0.03945 0.006874 0.01192 0.2298

mode liq bi ep g mu pl ru q H2O
0.01192 0.2298 0.04502 0.04447 0.1943 0.1024 0.004557 0.3675 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 615.0 0.02503 0.1694 0.9216 0.0019760.0004861 0.7363
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8031 0.4497 0.06382 0.01221 0.07595 0.4570
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2377 0.2294 0.8778 0.4172 0.05447 0.4204
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9953 0.9668 0.04322 0.007113 0.01293 0.2292

mode liq bi ep g mu pl ru q H2O
0.01293 0.2292 0.04507 0.04501 0.1920 0.1042 0.004534 0.3671 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.02 618.0 0.02601 0.1712 0.9202 0.0021210.0005020 0.7356
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8001 0.4480 0.06903 0.01307 0.07692 0.4520
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2383 0.2299 0.8750 0.4045 0.05133 0.4192
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9955 0.9649 0.04752 0.007351 0.01404 0.2285

mode liq bi ep g mu pl ru q H2O
0.01404 0.2285 0.04506 0.04560 0.1896 0.1061 0.004511 0.3666 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.83 621.0 0.02707 0.1731 0.9187 0.0022810.0005176 0.7347
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7970 0.4462 0.07478 0.01403 0.07790 0.4466
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2391 0.2305 0.8720 0.3914 0.04826 0.4178
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9957 0.9629 0.05242 0.007585 0.01526 0.2277

mode liq bi ep g mu pl ru q H2O
0.01526 0.2277 0.04497 0.04627 0.1870 0.1082 0.004488 0.3661 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.63 624.0 0.02822 0.1749 0.9171 0.0024550.0005331 0.7336
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7939 0.4443 0.08115 0.01509 0.07889 0.4409

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2401 0.2312 0.8688 0.3781 0.04529 0.4162
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9959 0.9607 0.05800 0.007810 0.01662 0.2269

mode liq bi ep g mu pl ru q H2O
0.01662 0.2269 0.04479 0.04701 0.1841 0.1105 0.004465 0.3656 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.42 627.0 0.02946 0.1767 0.9154 0.0026470.0005482 0.7324
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7906 0.4422 0.08818 0.01626 0.07989 0.4347
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2413 0.2322 0.8655 0.3645 0.04243 0.4144
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9961 0.9582 0.06433 0.008025 0.01811 0.2260

mode liq bi ep g mu pl ru q H2O
0.01811 0.2260 0.04449 0.04784 0.1810 0.1131 0.004442 0.3650 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 630.0 0.03077 0.1784 0.9135 0.0028560.0005628 0.7311
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7873 0.4399 0.09591 0.01757 0.08091 0.4281
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2429 0.2335 0.8619 0.3507 0.03973 0.4124
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9963 0.9555 0.07150 0.008224 0.01976 0.2251

mode liq bi ep g mu pl ru q H2O
0.01976 0.2251 0.04406 0.04876 0.1776 0.1160 0.004420 0.3643 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.98 633.0 0.03217 0.1801 0.9114 0.0030830.0005769 0.7295
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7840 0.4375 0.1044 0.01904 0.08194 0.4210
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2449 0.2352 0.8580 0.3366 0.03718 0.4103
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9965 0.9525 0.07957 0.008402 0.02158 0.2241

mode liq bi ep g mu pl ru q H2O
0.02158 0.2241 0.04347 0.04978 0.1739 0.1192 0.004398 0.3636 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.76 636.0 0.03365 0.1817 0.9092 0.0033280.0005904 0.7279
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7807 0.4349 0.1136 0.02068 0.08297 0.4133
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2475 0.2374 0.8539 0.3225 0.03482 0.4080

y(mu) na(mu) ca(pl) k(pl) liq bi
0.9967 0.9491 0.08858 0.008556 0.02359 0.2230

mode liq bi ep g mu pl ru q H2O
0.02359 0.2230 0.04270 0.05090 0.1699 0.1227 0.004377 0.3628 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.53 639.0 0.03521 0.1832 0.9067 0.0035910.0006033 0.7261
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7773 0.4321 0.1235 0.02252 0.08401 0.4052
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2506 0.2401 0.8496 0.3082 0.03265 0.4055
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9968 0.9453 0.09857 0.008680 0.02580 0.2218

mode liq bi ep g mu pl ru q H2O
0.02580 0.2218 0.04174 0.05211 0.1656 0.1267 0.004357 0.3619 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.31 642.0 0.03683 0.1846 0.9041 0.0038720.0006155 0.7242
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7740 0.4292 0.1342 0.02461 0.08505 0.3965
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2546 0.2434 0.8450 0.2938 0.03067 0.4028
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9969 0.9411 0.1096 0.008771 0.02822 0.2206

mode liq bi ep g mu pl ru q H2O
0.02822 0.2206 0.04056 0.05341 0.1610 0.1310 0.004337 0.3609 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.09 645.0 0.03851 0.1858 0.9014 0.0041690.0006271 0.7222
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7706 0.4262 0.1456 0.02699 0.08608 0.3874
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2594 0.2475 0.8402 0.2793 0.02889 0.4000
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9971 0.9363 0.1215 0.008827 0.03086 0.2192

mode liq bi ep g mu pl ru q H2O
0.03086 0.2192 0.03916 0.05480 0.1560 0.1358 0.004319 0.3598 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.87 648.0 0.04026 0.1870 0.8985 0.0044800.0006382 0.7201
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7673 0.4230 0.1576 0.02971 0.08711 0.3778
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2652 0.2524 0.8351 0.2647 0.02729 0.3971
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9972 0.9309 0.1343 0.008845 0.03374 0.2179

mode	liq	bi	ep	g	mu	pl	ru	q	H2O	
	0.03374	0.2179	0.03751	0.05627	0.1506	0.1411	0.004301	0.3586		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.66	651.0	0.04206	0.1881	0.8956	0.0048010	0.0006488	0.7179	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7641	0.4196	0.1702	0.03286	0.08811	0.3677		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2722	0.2583	0.8297	0.2499	0.02587	0.3941		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9972	0.9247	0.1480	0.008827	0.03687	0.2164		

mode	liq	bi	ep	g	mu	pl	ru	q	H2O	
	0.03687	0.2164	0.03561	0.05780	0.1448	0.1469	0.004286	0.3573		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.46	654.0	0.04391	0.1891	0.8926	0.0051310	0.0006589	0.7156	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7608	0.4162	0.1833	0.03654	0.08908	0.3572		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2805	0.2653	0.8240	0.2348	0.02462	0.3911		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9973	0.9177	0.1624	0.008773	0.04027	0.2148		

mode	liq	bi	ep	g	mu	pl	ru	q	H2O	
	0.04027	0.2148	0.03344	0.05939	0.1386	0.1533	0.004272	0.3558		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.25	657.0	0.04584	0.1899	0.8895	0.0054650	0.0006686	0.7134	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7576	0.4126	0.1967	0.04087	0.09001	0.3462		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2904	0.2733	0.8180	0.2194	0.02352	0.3880		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9973	0.9095	0.1774	0.008687	0.04395	0.2132		

mode	liq	bi	ep	g	mu	pl	ru	q	H2O	
	0.04395	0.2132	0.03100	0.06103	0.1320	0.1603	0.004260	0.3542		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.05	660.0	0.04783	0.1907	0.8865	0.0057970	0.0006778	0.7111	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7543	0.4089	0.2103	0.04604	0.09089	0.3349		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.3019	0.2825	0.8117	0.2036	0.02255	0.3849		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9973	0.8998	0.1927	0.008570	0.04794	0.2115		

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
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0.04794 0.2115 0.02828 0.06273 0.1250 0.1679 0.004251 0.3525 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.84 663.0 0.04992 0.1915 0.8835 0.0061220.0006866 0.7088
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7510 0.4050 0.2240 0.05229 0.09171 0.3232
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3154 0.2930 0.8050 0.1873 0.02172 0.3819
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9973 0.8880 0.2084 0.008427 0.05227 0.2097

mode liq bi ep g mu pl ru q H2O
0.05227 0.2097 0.02525 0.06450 0.1174 0.1761 0.004246 0.3505 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.63 666.0 0.05213 0.1922 0.8808 0.0064320.0006946 0.7064
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7476 0.4009 0.2375 0.05993 0.09244 0.3111
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3310 0.3046 0.7978 0.1706 0.02102 0.3788
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9972 0.8730 0.2241 0.008258 0.05700 0.2077

mode liq bi ep g mu pl ru q H2O
0.05700 0.2077 0.02191 0.06641 0.1093 0.1851 0.004245 0.3483 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 669.0 0.05448 0.1929 0.8785 0.0067180.0007018 0.7039
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7440 0.3963 0.2505 0.06945 0.09306 0.2987
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3489 0.3172 0.7901 0.1534 0.02048 0.3756
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9970 0.8523 0.2395 0.008062 0.06224 0.2053

mode liq bi ep g mu pl ru q H2O
0.06224 0.2053 0.01821 0.06861 0.1006 0.1949 0.004252 0.3458 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.16 672.0 0.05698 0.1936 0.8773 0.0069570.0007087 0.7005
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7402 0.3900 0.2619 0.08174 0.09357 0.2863
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3699 0.3307 0.7809 0.1356 0.02012 0.3712
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9964 0.8162 0.2541 0.007813 0.06834 0.2019

mode liq bi ep g mu pl ru q H2O
0.06834 0.2019 0.01405 0.07177 0.09118 0.2059 0.004277 0.3426 0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.60	549.0	0.01139	0.1298	0.88530	0.0004414	9.278e-5	0.7318
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8582	0.4625	0.01388	0.003854	0.06142	0.5274	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2551	0.2480	0.9159	0.7286	0.1974	0.4198	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9886	0.9758	0.005650	0.005140	7.308e-5	0.2333	

mode	liq	bi	ep	g	mu	pl	ru	q
	7.308e-5	0.2333	0	0.07114	0.2452	0.06920	0.004940	0.3762

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.67	552.0	0.01145	0.1311	0.88390	0.0004611	9.736e-5	0.7328
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8569	0.4617	0.01446	0.004022	0.06233	0.5254	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2560	0.2487	0.9147	0.7242	0.1960	0.4201	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9884	0.9748	0.005796	0.0053380	0.0003129	0.2329	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.0003129	0.2329	0	0.07153	0.2447	0.06960	0.004916	0.3760

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.74	555.0	0.01153	0.1325	0.88250	0.00048180	0.0001022	0.7338
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8554	0.4609	0.01506	0.004197	0.06324	0.5233	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2568	0.2494	0.9135	0.7197	0.1946	0.4203	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9882	0.9738	0.005949	0.0055410	0.0005624	0.2325	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.0005624	0.2325	0	0.07194	0.2443	0.07002	0.004893	0.3758

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.81	558.0	0.01160	0.1338	0.88120	0.00050350	0.0001072	0.7347
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8540	0.4600	0.01569	0.004380	0.06415	0.5212	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2578	0.2501	0.9123	0.7151	0.1931	0.4205	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	

0.9880 0.9727 0.006111 0.0057480.0008223 0.2320

mode liq bi ep g mu pl ru q
0.0008223 0.2320 0 0.07236 0.2438 0.07045 0.004869 0.3757

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.87 561.0 0.01169 0.1351 0.87990.00052620.0001126 0.7356
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8526 0.4591 0.01635 0.004572 0.06507 0.5192
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2587 0.2508 0.9111 0.7104 0.1916 0.4206
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9878 0.9716 0.006281 0.005961 0.001093 0.2316

mode liq bi ep g mu pl ru q
0.001093 0.2316 0 0.07279 0.2433 0.07090 0.004845 0.3755

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.93 564.0 0.01178 0.1365 0.87880.00055000.0001182 0.7364
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8511 0.4582 0.01703 0.004773 0.06599 0.5171
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2596 0.2515 0.9098 0.7057 0.1901 0.4207
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9877 0.9704 0.006460 0.006178 0.001375 0.2311

mode liq bi ep g mu pl ru q
0.001375 0.2311 0 0.07324 0.2428 0.07136 0.004822 0.3753

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.99 567.0 0.01187 0.1378 0.87760.00057490.0001240 0.7372
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8496 0.4573 0.01774 0.004983 0.06691 0.5150
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2606 0.2522 0.9085 0.7008 0.1885 0.4208
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9875 0.9692 0.006648 0.006400 0.001669 0.2306

mode liq bi ep g mu pl ru q
0.001669 0.2306 0 0.07370 0.2423 0.07184 0.004798 0.3751

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.05 570.0 0.01198 0.1392 0.87650.00060110.0001302 0.7380
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8481 0.4563 0.01849 0.005204 0.06784 0.5128
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2615 0.2530 0.9072 0.6958 0.1869 0.4208
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9873 0.9680 0.006847 0.006627 0.001975 0.2302

mode	liq	bi	ep	g	mu	pl	ru	q
	0.001975	0.2302	0	0.07418	0.2417	0.07234	0.004775	0.3749

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
19.10	573.0	0.01209	0.1406	0.87550	0.00062840	0.0001367	0.7387	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.8466	0.4553	0.01926	0.005435	0.06877	0.5107		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2625	0.2537	0.9058	0.6908	0.1853	0.4207		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9871	0.9667	0.007057	0.006859	0.002295	0.2296		

mode	liq	bi	ep	g	mu	pl	ru	q
	0.002295	0.2296	0	0.07467	0.2411	0.07286	0.004752	0.3747

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
19.15	576.0	0.01220	0.1420	0.87460	0.00065710	0.0001435	0.7394	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.8450	0.4542	0.02007	0.005677	0.06970	0.5085		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2635	0.2545	0.9045	0.6856	0.1836	0.4207		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9870	0.9654	0.007278	0.007096	0.002628	0.2291		

mode	liq	bi	ep	g	mu	pl	ru	q
	0.002628	0.2291	0	0.07518	0.2405	0.07339	0.004729	0.3744

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
19.20	579.0	0.01232	0.1434	0.87370	0.00068720	0.0001507	0.7400	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.8435	0.4531	0.02092	0.005931	0.07064	0.5064		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2645	0.2552	0.9031	0.6803	0.1819	0.4205		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9868	0.9640	0.007512	0.007338	0.002976	0.2286		

mode	liq	bi	ep	g	mu	pl	ru	q
	0.002976	0.2286	0	0.07571	0.2399	0.07395	0.004706	0.3742

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
19.24	582.0	0.01245	0.1448	0.87290	0.00071870	0.0001582	0.7405	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.8419	0.4520	0.02181	0.006197	0.07158	0.5042		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2655	0.2560	0.9016	0.6750	0.1802	0.4204		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9867	0.9625	0.007759	0.007585	0.003339	0.2280		

mode	liq	bi	ep	g	mu	pl	ru	q
	0.003339	0.2280	0	0.07626	0.2392	0.07453	0.004684	0.3740

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.28 585.0 0.01259 0.1462 0.87210.00075180.0001660 0.7410
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8403 0.4508 0.02273 0.006477 0.07252 0.5020
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2666 0.2568 0.9001 0.6695 0.1784 0.4201
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9865 0.9610 0.008020 0.007836 0.003719 0.2274

mode liq bi ep g mu pl ru q
 0.003719 0.2274 0 0.07682 0.2385 0.07513 0.004662 0.3737

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.32 588.0 0.01274 0.1477 0.87140.00078650.0001742 0.7415
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8386 0.4496 0.02370 0.006771 0.07347 0.4997
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2676 0.2576 0.8986 0.6639 0.1766 0.4199
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9863 0.9594 0.008296 0.008093 0.004116 0.2268

mode liq bi ep g mu pl ru q
 0.004116 0.2268 0 0.07741 0.2378 0.07575 0.004639 0.3735

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.35 591.0 0.01289 0.1491 0.87080.00082280.0001829 0.7419
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8370 0.4484 0.02472 0.007080 0.07442 0.4975
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2687 0.2584 0.8971 0.6582 0.1747 0.4195
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9862 0.9577 0.008588 0.008354 0.004531 0.2262

mode liq bi ep g mu pl ru q
 0.004531 0.2262 0 0.07801 0.2370 0.07640 0.004618 0.3732

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.38 594.0 0.01305 0.1506 0.87030.00086100.0001919 0.7422
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8353 0.4470 0.02578 0.007405 0.07537 0.4952
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2698 0.2592 0.8955 0.6523 0.1728 0.4191
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9861 0.9560 0.008898 0.008620 0.004965 0.2255

mode liq bi ep g mu pl ru q
 0.004965 0.2255 0 0.07864 0.2362 0.07707 0.004596 0.3729

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.40 597.0 0.01322 0.1521 0.86980.00090110.0002014 0.7425
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8336 0.4457 0.02689 0.007747 0.07633 0.4928
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2709 0.2600 0.8938 0.6464 0.1709 0.4187
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9859 0.9542 0.009227 0.008890 0.005420 0.2249

mode liq bi ep g mu pl ru q
 0.005420 0.2249 0 0.07929 0.2354 0.07777 0.004575 0.3727

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.42 600.0 0.01339 0.1536 0.86940.00094310.0002113 0.7428
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8318 0.4443 0.02806 0.008106 0.07729 0.4905
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2720 0.2608 0.8922 0.6403 0.1689 0.4181
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9858 0.9523 0.009577 0.009165 0.005897 0.2242

mode liq bi ep g mu pl ru q
 0.005897 0.2242 0 0.07997 0.2346 0.07850 0.004554 0.3724

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.44 603.0 0.01358 0.1551 0.86910.00098730.0002216 0.7430
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8301 0.4428 0.02928 0.008486 0.07825 0.4881
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2732 0.2617 0.8904 0.6341 0.1669 0.4176
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9856 0.9503 0.009948 0.009444 0.006397 0.2234

mode liq bi ep g mu pl ru q
 0.006397 0.2234 0 0.08067 0.2337 0.07925 0.004533 0.3721

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.45 606.0 0.01378 0.1567 0.8688 0.0010340.0002324 0.7431
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8283 0.4413 0.03056 0.008885 0.07922 0.4857
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2744 0.2625 0.8886 0.6277 0.1648 0.4169
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9855 0.9482 0.01034 0.009728 0.006921 0.2227

mode liq bi ep g mu pl ru q
 0.006921 0.2227 0 0.08140 0.2327 0.08005 0.004513 0.3717

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.46 609.0 0.01399 0.1582 0.8687 0.0010820.0002437 0.7431
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.8265 0.4397 0.03191 0.009307 0.08019 0.4832
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2756 0.2634 0.8868 0.6212 0.1627 0.4161
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9854 0.9460 0.01076 0.01001 0.007472 0.2219

mode liq bi ep g mu pl ru q
0.007472 0.2219 0 0.08216 0.2317 0.08087 0.004493 0.3714

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.47 612.0 0.01420 0.1598 0.8686 0.0011340.0002555 0.7431
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8246 0.4380 0.03332 0.009752 0.08116 0.4807
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2768 0.2643 0.8849 0.6146 0.1606 0.4153
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9853 0.9436 0.01121 0.01030 0.008051 0.2210

mode liq bi ep g mu pl ru q
0.008051 0.2210 0 0.08295 0.2307 0.08173 0.004473 0.3711

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.47 615.0 0.01443 0.1614 0.8685 0.0011880.0002679 0.7430
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8227 0.4363 0.03481 0.01022 0.08214 0.4781
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2780 0.2652 0.8829 0.6078 0.1584 0.4144
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9851 0.9412 0.01169 0.01060 0.008660 0.2202

mode liq bi ep g mu pl ru q
0.008660 0.2202 0 0.08377 0.2296 0.08263 0.004454 0.3707

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.46 618.0 0.01467 0.1630 0.8686 0.0012440.0002807 0.7428
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8208 0.4345 0.03637 0.01072 0.08311 0.4755
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2793 0.2661 0.8809 0.6009 0.1561 0.4134
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9850 0.9386 0.01220 0.01089 0.009302 0.2193

mode liq bi ep g mu pl ru q
0.009302 0.2193 0 0.08463 0.2285 0.08358 0.004436 0.3703

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.45 621.0 0.01492 0.1646 0.8688 0.0013040.0002942 0.7426
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8189 0.4326 0.03801 0.01125 0.08409 0.4729
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2806 0.2671 0.8788 0.5938 0.1538 0.4123
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9849 0.9358 0.01275 0.01119 0.009978 0.2183

mode liq bi ep g mu pl ru q
0.009978 0.2183 0 0.08552 0.2273 0.08456 0.004418 0.3699

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.43 624.0 0.01519 0.1662 0.8690 0.0013670.0003082 0.7422
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8169 0.4306 0.03973 0.01181 0.08508 0.4702
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2820 0.2680 0.8766 0.5865 0.1515 0.4111
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9848 0.9328 0.01334 0.01149 0.01069 0.2173

mode liq bi ep g mu pl ru q
0.01069 0.2173 0 0.08646 0.2260 0.08560 0.004401 0.3695

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.41 627.0 0.01547 0.1679 0.8694 0.0014330.0003229 0.7418
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8149 0.4285 0.04155 0.01240 0.08606 0.4674
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2834 0.2690 0.8743 0.5790 0.1490 0.4098
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9847 0.9297 0.01397 0.01179 0.01145 0.2163

mode liq bi ep g mu pl ru q
0.01145 0.2163 0 0.08744 0.2247 0.08669 0.004384 0.3691

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.39 630.0 0.01576 0.1696 0.8698 0.0015030.0003381 0.7413
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8128 0.4263 0.04346 0.01303 0.08705 0.4645
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2848 0.2700 0.8719 0.5713 0.1466 0.4084
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9845 0.9263 0.01465 0.01208 0.01225 0.2151

mode liq bi ep g mu pl ru q
0.01225 0.2151 0 0.08847 0.2233 0.08783 0.004368 0.3686

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.35 633.0 0.01607 0.1713 0.8704 0.0015760.0003541 0.7407
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8107 0.4240 0.04548 0.01370 0.08804 0.4616
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2862 0.2711 0.8694 0.5634 0.1440 0.4068
y(mu) na(mu) ca(pl) k(pl) liq bi

0.9844 0.9227 0.01538 0.01238 0.01310 0.2140

mode liq bi ep g mu pl ru q
0.01310 0.2140 0 0.08955 0.2219 0.08904 0.004354 0.3681

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.32 636.0 0.01640 0.1730 0.8710 0.0016540.0003707 0.7399
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8086 0.4216 0.04761 0.01441 0.08903 0.4585
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2877 0.2721 0.8668 0.5553 0.1414 0.4051
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9842 0.9188 0.01618 0.01267 0.01400 0.2127

mode liq bi ep g mu pl ru q
0.01400 0.2127 0 0.09069 0.2203 0.09031 0.004340 0.3676

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.27 639.0 0.01675 0.1747 0.8718 0.0017360.0003881 0.7390
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8064 0.4190 0.04986 0.01517 0.09002 0.4554
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2893 0.2732 0.8640 0.5469 0.1387 0.4032
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9841 0.9145 0.01704 0.01295 0.01496 0.2114

mode liq bi ep g mu pl ru q
0.01496 0.2114 0 0.09190 0.2187 0.09167 0.004327 0.3670

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.22 642.0 0.01711 0.1765 0.8727 0.0018220.0004063 0.7380
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8042 0.4163 0.05224 0.01599 0.09101 0.4522
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2909 0.2744 0.8611 0.5382 0.1360 0.4012
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9839 0.9099 0.01797 0.01323 0.01598 0.2100

mode liq bi ep g mu pl ru q
0.01598 0.2100 0 0.09317 0.2170 0.09310 0.004315 0.3664

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.16 645.0 0.01750 0.1783 0.8738 0.0019140.0004253 0.7369
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8019 0.4134 0.05476 0.01687 0.09201 0.4489
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2926 0.2756 0.8581 0.5293 0.1332 0.3989
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9837 0.9049 0.01899 0.01349 0.01708 0.2085

mode	liq	bi	ep	g	mu	pl	ru	q
	0.01708	0.2085	0	0.09452	0.2152	0.09463	0.004305	0.3658

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.09	648.0	0.01791	0.1801	0.8751	0.0020110	0.0004451	0.7355
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7995	0.4103	0.05742	0.01781	0.09300	0.4454	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2944	0.2769	0.8548	0.5200	0.1302	0.3965	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9835	0.8993	0.02010	0.01374	0.01826	0.2069	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.01826	0.2069	0	0.09597	0.2132	0.09627	0.004297	0.3651

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.01	651.0	0.01835	0.1819	0.8765	0.0021140	0.0004660	0.7340
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7971	0.4069	0.06025	0.01883	0.09399	0.4418	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2963	0.2782	0.8513	0.5102	0.1272	0.3937	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9832	0.8931	0.02132	0.01396	0.01954	0.2052	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.01954	0.2052	0	0.09751	0.2111	0.09803	0.004291	0.3643

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.92	654.0	0.01882	0.1838	0.8782	0.0022230	0.0004879	0.7322
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7947	0.4033	0.06325	0.01994	0.09498	0.4381	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2983	0.2796	0.8475	0.5001	0.1241	0.3907	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9829	0.8862	0.02267	0.01416	0.02093	0.2032	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.02093	0.2032	0	0.09918	0.2089	0.09993	0.004286	0.3635

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.82	657.0	0.01932	0.1857	0.8801	0.0023390	0.0005111	0.7301
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7921	0.3993	0.06645	0.02115	0.09596	0.4341	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3005	0.2811	0.8435	0.4894	0.1208	0.3873	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9826	0.8783	0.02417	0.01432	0.02244	0.2012	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.02244	0.2012	0	0.1010	0.2065	0.1020	0.004285	0.3626

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
18.71	660.0	0.01986	0.1876	0.8823	0.0024630	0.0005357	0.7277	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7895	0.3950	0.06987	0.02250	0.09694	0.4300		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.3028	0.2828	0.8390	0.4780	0.1173	0.3835		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9821	0.8693	0.02584	0.01444	0.02411	0.1988		
mode	liq	bi	ep	g	mu	pl	ru	q
	0.02411	0.1988	0	0.1030	0.2039	0.1043	0.004288	0.3616

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
18.59	663.0	0.02045	0.1896	0.8850	0.0025960	0.0005620	0.7249	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7868	0.3901	0.07352	0.02399	0.09790	0.4255		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.3054	0.2846	0.8340	0.4658	0.1137	0.3791		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9815	0.8587	0.02773	0.01449	0.02598	0.1962		
mode	liq	bi	ep	g	mu	pl	ru	q
	0.02598	0.1962	0	0.1052	0.2010	0.1069	0.004294	0.3605

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
18.44	666.0	0.02109	0.1916	0.8881	0.0027370	0.0005904	0.7214	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7839	0.3845	0.07746	0.02569	0.09885	0.4208		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.3084	0.2867	0.8283	0.4524	0.1098	0.3740		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9807	0.8460	0.02989	0.01446	0.02809	0.1932		
mode	liq	bi	ep	g	mu	pl	ru	q
	0.02809	0.1932	0	0.1078	0.1978	0.1098	0.004307	0.3591

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
18.27	669.0	0.02180	0.1937	0.8919	0.0028900	0.0006216	0.7172	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7810	0.3780	0.08172	0.02768	0.09977	0.4156		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.3118	0.2891	0.8217	0.4375	0.1055	0.3679		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.9796	0.8301	0.03239	0.01432	0.03056	0.1896		
mode	liq	bi	ep	g	mu	pl	ru	q
	0.03056	0.1896	0	0.1107	0.1941	0.1132	0.004329	0.3575

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
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18.07 672.0 0.02260 0.1958 0.8969 0.0030560.0006571 0.7116
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7778 0.3699 0.08640 0.03010 0.1007 0.4097
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3160 0.2922 0.8134 0.4202 0.1007 0.3601
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9779 0.8090 0.03538 0.01399 0.03356 0.1850

mode liq bi ep g mu pl ru q
 0.03356 0.1850 0 0.1144 0.1898 0.1174 0.004365 0.3555

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.82 675.0 0.02355 0.1981 0.9038 0.0032370.0007002 0.7034
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7744 0.3587 0.09165 0.03332 0.1015 0.4025
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3217 0.2963 0.8021 0.3981 0.09477 0.3491
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9750 0.7775 0.03913 0.01333 0.03756 0.1786

mode liq bi ep g mu pl ru q
 0.03756 0.1786 0 0.1195 0.1842 0.1230 0.004427 0.3527

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.43 678.0 0.02483 0.2005 0.9178 0.0034370.0007674 0.6855
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7703 0.3363 0.09810 0.03938 0.1020 0.3908
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3330 0.3043 0.7791 0.3595 0.08497 0.3262
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9657 0.7051 0.04465 0.01162 0.04505 0.1650

mode liq bi ep g mu pl ru q
 0.04505 0.1650 0 0.1299 0.1746 0.1340 0.004590 0.3469

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.45 684.0 0.02487 0.2042 0.9499 0.0035140.0008555 0.6151
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7665 0.2570 0.1037 0.05919 0.1036 0.3420
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3680 0.3271 0.6829 0.2614 0.06406 0.2459
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8705 0.3581 0.04635 0.007420 0.06893 0.1058

mode liq bi ep g mu pl ru q
 0.06893 0.1058 0 0.1729 0.1548 0.1692 0.005341 0.3230

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.41 687.0 0.02537 0.2060 0.9493 0.0036730.0008618 0.6123
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7640 0.2531 0.1073 0.06151 0.1048 0.3357
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3701 0.3280 0.6758 0.2555 0.06305 0.2430
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8628 0.3306 0.04850 0.007631 0.07129 0.1020

mode liq bi ep g mu pl ru q
 0.07129 0.1020 0 0.1756 0.1527 0.1718 0.005376 0.3213

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.33 690.0 0.02597 0.2078 0.9483 0.003851 0.0008685 0.6110
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7613 0.2505 0.1112 0.06365 0.1060 0.3303
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3718 0.3287 0.6706 0.2509 0.06226 0.2414
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8578 0.3092 0.05111 0.007912 0.07336 0.09934

mode liq bi ep g mu pl ru q
 0.07336 0.09934 0 0.1773 0.1507 0.1739 0.005396 0.3200

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.24 693.0 0.02666 0.2097 0.9469 0.004047 0.0008757 0.6104
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7585 0.2489 0.1154 0.06572 0.1071 0.3254
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3733 0.3292 0.6665 0.2470 0.06161 0.2408
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8546 0.2915 0.05411 0.008241 0.07529 0.09749

mode liq bi ep g mu pl ru q
 0.07529 0.09749 0 0.1785 0.1486 0.1758 0.005406 0.3189

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.13 696.0 0.02741 0.2116 0.9452 0.004259 0.0008836 0.6105
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7557 0.2479 0.1199 0.06775 0.1082 0.3208
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3747 0.3296 0.6633 0.2434 0.06104 0.2408
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8527 0.2763 0.05750 0.008609 0.07713 0.09619

mode liq bi ep g mu pl ru q
 0.07713 0.09619 0 0.1793 0.1464 0.1775 0.005408 0.3180

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.01 699.0 0.02824 0.2135 0.9433 0.004489 0.0008920 0.6110
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7527 0.2473 0.1246 0.06980 0.1094 0.3165
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.3761 0.3300 0.6607 0.2401 0.06052 0.2413
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8516 0.2629 0.06128 0.009010 0.07893 0.09533

mode liq bi ep g mu pl ru q
0.07893 0.09533 0 0.1797 0.1442 0.1791 0.005405 0.3173

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : bi, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.19 560.0 0.4354 0.1153 0.02656 0.06209 0.4510 0.8841
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5396 0.1165 0.3770 0.9993 0.9606 0.2906
k(pl) x(ilm) Q(ilm)
0.002674 0.8392 0.7935

mode bi g mu pl ilm ru q H2O
0.2293 0.03864 0.1660 0.1717 0.01269 0 0.3683 0.01331

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.31 564.0 0.4342 0.1192 0.02705 0.06320 0.4461 0.8820
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5272 0.1106 0.3772 0.9992 0.9592 0.2900
k(pl) x(ilm) Q(ilm)
0.002786 0.8358 0.7884

mode bi g mu pl ilm ru q H2O
0.2289 0.03902 0.1642 0.1735 0.01268 0 0.3681 0.01368

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.43 568.0 0.4330 0.1232 0.02754 0.06432 0.4412 0.8797
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5147 0.1047 0.3774 0.9992 0.9576 0.2894
k(pl) x(ilm) Q(ilm)
0.002902 0.8323 0.7832

mode bi g mu pl ilm ru q H2O
0.2284 0.03940 0.1623 0.1753 0.01268 0 0.3678 0.01406

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.54 572.0 0.4318 0.1274 0.02803 0.06545 0.4362 0.8774
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5018 0.09894 0.3776 0.9991 0.9560 0.2890

k(pl) x(ilm) Q(ilm)
0.003021 0.8286 0.7779

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2280	0.03976	0.1603	0.1773	0.01267		0	0.3675 0.01445

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.65 576.0 0.4306 0.1317 0.02851 0.06659 0.4311 0.8751
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4887 0.09323 0.3777 0.9991 0.9543 0.2886
k(pl) x(ilm) Q(ilm)
0.003143 0.8250 0.7724

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2276	0.04012	0.1582	0.1793	0.01267		0	0.3672 0.01486

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.76 580.0 0.4294 0.1362 0.02900 0.06774 0.4260 0.8726
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4754 0.08761 0.3778 0.9991 0.9525 0.2883
k(pl) x(ilm) Q(ilm)
0.003269 0.8212 0.7668

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2271	0.04047	0.1561	0.1815	0.01267		0	0.3669 0.01529

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.87 584.0 0.4281 0.1408 0.02948 0.06889 0.4208 0.8701
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4618 0.08208 0.3778 0.9990 0.9506 0.2881
k(pl) x(ilm) Q(ilm)
0.003399 0.8174 0.7611

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2266	0.04081	0.1539	0.1837	0.01267		0	0.3666 0.01573

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.97 588.0 0.4268 0.1456 0.02996 0.07005 0.4155 0.8675
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4479 0.07666 0.3779 0.9990 0.9485 0.2880
k(pl) x(ilm) Q(ilm)
0.003532 0.8136 0.7552

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2261	0.04115	0.1516	0.1861	0.01267		0	0.3662 0.01618

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.40 696.0 0.3624 0.4070 0.03637 0.1026 0.2139 0.7039
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03401 0.002369 0.3338 0.9688 0.3174 0.2673

k(pl) x(ilm) Q(ilm)
0.008720 0.7406 0.6156

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1822	0.07267	0.04885	0.3003	0.01297		0	0.3445 0.03853

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.31 704.0 0.3641 0.4236 0.03596 0.1050 0.2025 0.6995
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03062 0.002321 0.3364 0.9666 0.2894 0.2666
k(pl) x(ilm) Q(ilm)
0.009649 0.7370 0.6060

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1827	0.07295	0.04525	0.3026	0.01284		0	0.3446 0.03907

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.28 708.0 0.3650 0.4312 0.03576 0.1061 0.1972 0.6975
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02923 0.002307 0.3378 0.9656 0.2775 0.2663
k(pl) x(ilm) Q(ilm)
0.01014 0.7352 0.6011

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1830	0.07305	0.04362	0.3036	0.01277		0	0.3447 0.03931

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.25 712.0 0.3659 0.4383 0.03557 0.1073 0.1923 0.6957
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02798 0.002300 0.3392 0.9647 0.2665 0.2660
k(pl) x(ilm) Q(ilm)
0.01066 0.7333 0.5961

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1833	0.07314	0.04207	0.3045	0.01270		0	0.3448 0.03954

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.22 716.0 0.3669 0.4451 0.03538 0.1084 0.1876 0.6939
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02686 0.002297 0.3406 0.9640 0.2565 0.2657
k(pl) x(ilm) Q(ilm)
0.01120 0.7315 0.5910

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1836	0.07321	0.04061	0.3053	0.01264		0	0.3449 0.03975

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.19 720.0 0.3678 0.4516 0.03519 0.1096 0.1831 0.6922
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02583 0.002297 0.3421 0.9632 0.2472 0.2654

k(pl) x(ilm) Q(ilm)
0.01176 0.7296 0.5859

mode bi g mu pl ilm ru q H2O
0.1839 0.07327 0.03920 0.3061 0.01257 0 0.3450 0.03995

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.17 724.0 0.3687 0.4577 0.03501 0.1107 0.1788 0.6906
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02490 0.002301 0.3435 0.9626 0.2386 0.2652
k(pl) x(ilm) Q(ilm)
0.01234 0.7277 0.5806

mode bi g mu pl ilm ru q H2O
0.1842 0.07333 0.03786 0.3068 0.01250 0 0.3451 0.04014

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.15 728.0 0.3696 0.4636 0.03484 0.1119 0.1747 0.6890
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02405 0.002308 0.3450 0.9620 0.2306 0.2649
k(pl) x(ilm) Q(ilm)
0.01295 0.7258 0.5752

mode bi g mu pl ilm ru q H2O
0.1846 0.07340 0.03658 0.3075 0.01243 0 0.3452 0.04033

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.13 732.0 0.3705 0.4692 0.03467 0.1130 0.1707 0.6875
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02326 0.002316 0.3465 0.9614 0.2232 0.2647
k(pl) x(ilm) Q(ilm)
0.01358 0.7239 0.5697

mode bi g mu pl ilm ru q H2O
0.1849 0.07346 0.03534 0.3082 0.01236 0 0.3453 0.04050

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.12 736.0 0.3714 0.4745 0.03450 0.1142 0.1670 0.6860
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02252 0.002327 0.3479 0.9609 0.2162 0.2644
k(pl) x(ilm) Q(ilm)
0.01423 0.7219 0.5642

mode bi g mu pl ilm ru q H2O
0.1852 0.07353 0.03414 0.3088 0.01229 0 0.3454 0.04068

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.11 740.0 0.3722 0.4797 0.03434 0.1153 0.1633 0.6845
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02184 0.002340 0.3494 0.9605 0.2096 0.2642

k(pl) x(ilm) Q(ilm)
0.01491 0.7200 0.5585

mode bi g mu pl ilm ru q H2O
0.1854 0.07360 0.03298 0.3095 0.01223 0 0.3454 0.04084

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.09 744.0 0.3730 0.4846 0.03419 0.1164 0.1598 0.6831
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02120 0.002354 0.3508 0.9600 0.2034 0.2639
k(pl) x(ilm) Q(ilm)
0.01562 0.7181 0.5527

mode bi g mu pl ilm ru q H2O
0.1857 0.07368 0.03186 0.3101 0.01216 0 0.3455 0.04101

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.08 748.0 0.3739 0.4894 0.03404 0.1176 0.1564 0.6817
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02060 0.002370 0.3522 0.9596 0.1975 0.2636
k(pl) x(ilm) Q(ilm)
0.01636 0.7161 0.5469

mode bi g mu pl ilm ru q H2O
0.1860 0.07376 0.03077 0.3106 0.01209 0 0.3456 0.04117

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.07 752.0 0.3746 0.4940 0.03389 0.1187 0.1532 0.6803
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02003 0.002387 0.3536 0.9593 0.1920 0.2634
k(pl) x(ilm) Q(ilm)
0.01712 0.7141 0.5409

mode bi g mu pl ilm ru q H2O
0.1862 0.07386 0.02971 0.3112 0.01202 0 0.3457 0.04133

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.06 756.0 0.3754 0.4984 0.03375 0.1198 0.1500 0.6789
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01950 0.002405 0.3550 0.9590 0.1867 0.2631
k(pl) x(ilm) Q(ilm)
0.01792 0.7121 0.5348

mode bi g mu pl ilm ru q H2O
0.1864 0.07396 0.02867 0.3117 0.01196 0 0.3457 0.04148

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.06 760.0 0.3762 0.5027 0.03360 0.1209 0.1470 0.6775
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01899 0.002424 0.3564 0.9587 0.1818 0.2629

k(pl) x(ilm) Q(ilm)
0.01874 0.7102 0.5286

mode bi g mu pl ilm ru q H2O
0.1867 0.07407 0.02766 0.3123 0.01189 0 0.3458 0.04164

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.05 764.0 0.3769 0.5069 0.03347 0.1221 0.1440 0.6762
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01850 0.002444 0.3578 0.9584 0.1771 0.2626
k(pl) x(ilm) Q(ilm)
0.01960 0.7082 0.5223

mode bi g mu pl ilm ru q H2O
0.1868 0.07419 0.02667 0.3128 0.01183 0 0.3458 0.04179

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.04 768.0 0.3776 0.5110 0.03333 0.1232 0.1411 0.6748
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01804 0.002465 0.3591 0.9582 0.1726 0.2623
k(pl) x(ilm) Q(ilm)
0.02049 0.7062 0.5159

mode bi g mu pl ilm ru q H2O
0.1870 0.07433 0.02570 0.3134 0.01176 0 0.3459 0.04194

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.03 772.0 0.3783 0.5149 0.03320 0.1243 0.1383 0.6735
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01760 0.002486 0.3605 0.9580 0.1683 0.2620
k(pl) x(ilm) Q(ilm)
0.02141 0.7042 0.5093

mode bi g mu pl ilm ru q H2O
0.1872 0.07447 0.02474 0.3139 0.01170 0 0.3459 0.04210

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.03 776.0 0.3789 0.5188 0.03307 0.1254 0.1356 0.6721
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01718 0.002508 0.3618 0.9578 0.1643 0.2618
k(pl) x(ilm) Q(ilm)
0.02237 0.7022 0.5026

mode bi g mu pl ilm ru q H2O
0.1873 0.07463 0.02380 0.3144 0.01164 0 0.3460 0.04225

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.02 780.0 0.3795 0.5226 0.03293 0.1265 0.1329 0.6708
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01677 0.002530 0.3631 0.9577 0.1604 0.2615

k(pl) x(ilm) Q(ilm)
0.02336 0.7001 0.4958

mode bi g mu pl ilm ru q H2O
0.1874 0.07479 0.02287 0.3150 0.01157 0 0.3460 0.04240

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.01 784.0 0.3802 0.5263 0.03281 0.1276 0.1303 0.6694
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01637 0.002552 0.3643 0.9576 0.1568 0.2612
k(pl) x(ilm) Q(ilm)
0.02439 0.6981 0.4889

mode bi g mu pl ilm ru q H2O
0.1875 0.07497 0.02195 0.3155 0.01151 0 0.3460 0.04256

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.01 788.0 0.3807 0.5300 0.03268 0.1287 0.1277 0.6681
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01599 0.002575 0.3656 0.9575 0.1533 0.2609
k(pl) x(ilm) Q(ilm)
0.02546 0.6961 0.4818

mode bi g mu pl ilm ru q H2O
0.1876 0.07517 0.02104 0.3160 0.01145 0 0.3460 0.04271

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.00 792.0 0.3813 0.5336 0.03255 0.1297 0.1252 0.6668
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01563 0.002598 0.3668 0.9575 0.1500 0.2605
k(pl) x(ilm) Q(ilm)
0.02656 0.6941 0.4746

mode bi g mu pl ilm ru q H2O
0.1877 0.07537 0.02014 0.3166 0.01140 0 0.3460 0.04287

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.99 796.0 0.3819 0.5371 0.03242 0.1308 0.1228 0.6654
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01527 0.002622 0.3680 0.9575 0.1469 0.2602
k(pl) x(ilm) Q(ilm)
0.02771 0.6921 0.4672

mode bi g mu pl ilm ru q H2O
0.1877 0.07558 0.01925 0.3171 0.01134 0 0.3460 0.04302

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.99 800.0 0.3824 0.5407 0.03229 0.1319 0.1204 0.6641
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.01492 0.002645 0.3692 0.9575 0.1439 0.2599

k(pl) x(ilm) Q(ilm)
0.02889 0.6900 0.4597

mode bi g mu pl ilm ru q H2O
0.1877 0.07581 0.01835 0.3177 0.01128 0 0.3460 0.04318
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.61 651.7 0.04252 0.1884 0.8948 0.0048800.0006513 0.7175
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7633 0.4190 0.1735 0.03376 0.08834 0.3651
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2743 0.2601 0.8284 0.2461 0.02556 0.3936
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9230 0.1515 0.008823 0.7365 0.6307

mode liq bi ep g mu pl ilm ru q H2O
0.03576 0.2161 0.03506 0.05804 0.1433 0.1494 0 0.004281 0.35720.0008508

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.62 651.5 0.04241 0.1883 0.8948 0.0048530.0006507 0.7180
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7634 0.4198 0.1728 0.03364 0.08824 0.3655
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2744 0.2602 0.8291 0.2467 0.02569 0.3944
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9232 0.1504 0.008843 0.7379 0.6329

mode liq bi ep g mu pl ilm ru q H2O
0.02997 0.2166 0.03509 0.05753 0.1436 0.1517 0 0.004278 0.3579 0.003319

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.63 651.3 0.04231 0.1882 0.8948 0.0048260.0006501 0.7186
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7636 0.4207 0.1721 0.03352 0.08815 0.3659
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2745 0.2603 0.8298 0.2474 0.02582 0.3952
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9233 0.1494 0.008863 0.7393 0.6350

mode liq bi ep g mu pl ilm ru q H2O
0.02408 0.2171 0.03512 0.05700 0.1439 0.1540 0 0.004275 0.3586 0.005829

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

```

12.64  651.1 0.04221 0.1882 0.8949 0.0048000.0006494 0.7192
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7638 0.4216 0.1714 0.03340 0.08805 0.3664
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2746 0.2604 0.8305 0.2481 0.02594 0.3961
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9972 0.9235 0.1484 0.008884 0.7407 0.6371

```

```

mode  liq  bi  ep  g  mu  pl  ilm  ru  q  H2O
      0.01809 0.2177 0.03515 0.05647 0.1442 0.1564 0 0.004272 0.3594 0.008385

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.65  650.8 0.04211 0.1881 0.8949 0.0047730.0006487 0.7197
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7640 0.4225 0.1708 0.03328 0.08795 0.3668
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2747 0.2605 0.8313 0.2488 0.02607 0.3969
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9972 0.9236 0.1474 0.008904 0.7421 0.6391

```

```

mode  liq  bi  ep  g  mu  pl  ilm  ru  q  H2O
      0.01201 0.2182 0.03518 0.05593 0.1445 0.1588 0 0.004269 0.3601 0.01099

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.66  650.6 0.04201 0.1881 0.8949 0.0047470.0006480 0.7203
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7642 0.4233 0.1701 0.03317 0.08786 0.3672
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2748 0.2606 0.8320 0.2495 0.02620 0.3978
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9972 0.9238 0.1464 0.008925 0.7435 0.6412

```

```

mode  liq  bi  ep  g  mu  pl  ilm  ru  q  H2O
      0.005822 0.2187 0.03521 0.05539 0.1448 0.1613 0 0.004266 0.3609 0.01364

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.28	666.0	0.04741	0.1898	0.9051	0.006762	0.0006779	0.6591
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7546	0.3369	0.2132	0.04276	0.09497	0.3307	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2668	0.2529	0.7537	0.1952	0.01766	0.3146	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9732	0.5287	0.2181	0.006683	0.46440	0.0002039	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.03704	0.1670	0	0.1025	0.1027	0.2283	0.005844	0.003615	0.3373	0.01568

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.27	666.2	0.04746	0.1898	0.9054	0.006790	0.0006782	0.6579
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7545	0.3354	0.2137	0.04290	0.09507	0.3300	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2667	0.2528	0.7522	0.1944	0.01756	0.3132	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9725	0.5226	0.2190	0.006645	0.46360	0.0001983	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.04294	0.1660	0	0.1034	0.1023	0.2262	0.005839	0.003628	0.3363	0.01330

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.27	666.4	0.04751	0.1898	0.9057	0.006819	0.0006784	0.6568
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7544	0.3340	0.2142	0.04304	0.09516	0.3294	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2666	0.2526	0.7507	0.1936	0.01746	0.3118	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9718	0.5167	0.2199	0.006608	0.46280	0.0001933	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.04870	0.1651	0	0.1042	0.1020	0.2242	0.005835	0.003641	0.3354	0.01098

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.27	666.6	0.04756	0.1898	0.9059	0.006848	0.0006786	0.6557
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7543	0.3326	0.2147	0.04317	0.09526	0.3287	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2665	0.2525	0.7492	0.1929	0.01737	0.3105	

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9711 0.5111 0.2209 0.006574 0.46200.0001886

mode liq bi ep g mu pl ilm ru q H2O
0.05431 0.1642 0 0.1050 0.1016 0.2223 0.005831 0.003653 0.3344 0.008714

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.27 666.8 0.04761 0.1898 0.9061 0.0068770.0006788 0.6547
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7542 0.3313 0.2152 0.04330 0.09535 0.3281
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2664 0.2524 0.7478 0.1922 0.01728 0.3093
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9704 0.5056 0.2218 0.006541 0.46130.0001843

mode liq bi ep g mu pl ilm ru q H2O
0.05980 0.1633 0 0.1058 0.1013 0.2204 0.005827 0.003665 0.3335 0.006503

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.27 667.0 0.04767 0.1898 0.9063 0.0069060.0006789 0.6537
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7541 0.3301 0.2157 0.04343 0.09544 0.3274
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2663 0.2523 0.7464 0.1914 0.01719 0.3081
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9698 0.5003 0.2228 0.006510 0.46060.0001804

mode liq bi ep g mu pl ilm ru q H2O
0.06516 0.1624 0 0.1065 0.1009 0.2185 0.005824 0.003675 0.3326 0.004343

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.26 667.2 0.04773 0.1898 0.9065 0.0069360.0006791 0.6527
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7540 0.3289 0.2162 0.04355 0.09553 0.3267
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2662 0.2522 0.7451 0.1907 0.01710 0.3069
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9691 0.4952 0.2238 0.006481 0.45990.0001768

mode liq bi ep g mu pl ilm ru q H2O
0.07041 0.1616 0 0.1072 0.1006 0.2167 0.005821 0.003686 0.3318 0.002230

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

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phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.98 668.3 0.04968 0.1913 0.9059 0.0067340.0007139 0.6579
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7506 0.3362 0.2298 0.04270 0.09542 0.3202
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7428 0.1541 0.01175 0.3137 0.9624 0.4348
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2245 0.006559 0.47300.0002610 0.005294 0.1646

mode liq bi g mu pl ilm ru ky q H2O
 0.005294 0.1646 0.09977 0.09171 0.2590 0.006383 0.003507 0 0.3381 0.03160

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.00 668.4 0.04958 0.1912 0.9060 0.0067750.0007114 0.6569
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7508 0.3349 0.2291 0.04285 0.09550 0.3202
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7421 0.1563 0.01205 0.3125 0.9624 0.4353
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2253 0.006532 0.47150.0002473 0.01398 0.1638

mode liq bi g mu pl ilm ru ky q H2O
 0.01398 0.1638 0.1008 0.09206 0.2546 0.006344 0.003527 0 0.3370 0.02790

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.02 668.5 0.04948 0.1911 0.9061 0.0068160.0007089 0.6558
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7510 0.3335 0.2285 0.04300 0.09558 0.3202
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7413 0.1585 0.01235 0.3112 0.9623 0.4359
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2262 0.006505 0.47010.0002349 0.02274 0.1630

mode liq bi g mu pl ilm ru ky q H2O
 0.02274 0.1630 0.1018 0.09243 0.2502 0.006304 0.003547 0 0.3358 0.02417

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.04 668.5 0.04938 0.1909 0.9062 0.0068580.0007063 0.6548
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7512 0.3321 0.2279 0.04315 0.09566 0.3203
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7406 0.1608 0.01267 0.3099 0.9623 0.4366
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2270 0.006479 0.46860.0002235 0.03158 0.1622

mode liq bi g mu pl ilm ru ky q H2O
 0.03158 0.1622 0.1028 0.09281 0.2457 0.006262 0.003568 0 0.3347 0.02040

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.06 668.6 0.04928 0.1908 0.9064 0.0068990.0007037 0.6538
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7514 0.3307 0.2273 0.04331 0.09574 0.3203
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7399 0.1631 0.01300 0.3086 0.9623 0.4375
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2278 0.006453 0.46710.0002130 0.04050 0.1614

mode liq bi g mu pl ilm ru ky q H2O
 0.04050 0.1614 0.1039 0.09322 0.2411 0.006220 0.003588 0 0.3335 0.01659

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.08 668.7 0.04918 0.1907 0.9065 0.0069410.0007011 0.6527
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7515 0.3293 0.2267 0.04346 0.09582 0.3203
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7391 0.1655 0.01335 0.3073 0.9624 0.4385
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2286 0.006426 0.46560.0002034 0.04951 0.1606

mode liq bi g mu pl ilm ru ky q H2O
 0.04951 0.1606 0.1049 0.09363 0.2365 0.006176 0.003609 0 0.3324 0.01273

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.10 668.8 0.04908 0.1906 0.9066 0.0069830.0006983 0.6516
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7517 0.3279 0.2261 0.04362 0.09590 0.3203
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7384 0.1679 0.01370 0.3060 0.9624 0.4396
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2295 0.006400 0.46410.0001944 0.05862 0.1598

mode liq bi g mu pl ilm ru ky q H2O
 0.05862 0.1598 0.1060 0.09407 0.2317 0.006130 0.003630 0 0.3312 0.008816

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.12 668.8 0.04898 0.1905 0.9067 0.0070260.0006956 0.6506
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7519 0.3265 0.2255 0.04378 0.09598 0.3203
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7376 0.1704 0.01407 0.3046 0.9625 0.4409
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2303 0.006374 0.46260.0001862 0.06783 0.1590

mode liq bi g mu pl ilm ru ky q H2O
 0.06783 0.1590 0.1071 0.09453 0.2269 0.006083 0.003652 0 0.3301 0.004852

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.14 668.9 0.04888 0.1903 0.9067 0.0070690.0006928 0.6495
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7521 0.3251 0.2249 0.04393 0.09607 0.3202
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7369 0.1729 0.01446 0.3033 0.9626 0.4424
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2311 0.006349 0.46110.0001785 0.07717 0.1582

mode liq bi g mu pl ilm ru ky q H2O
0.07717 0.1582 0.1082 0.09501 0.2220 0.006035 0.003673 0 0.32890.0008272
calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

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phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.16 674.1 0.05776 0.1931 0.8738 0.0073980.0007848 0.6956
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7395 0.3899 0.2720 0.03682 0.09602 0.2971
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7758 0.1324 0.008235 0.3643 0.9307 0.2305
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2694 0.007649 0.7490 0.6385 0.09470 0.2047

mode liq bi g mu pl ilm ru ky q H2O
0.09470 0.2047 0.05440 0.01500 0.2621 0.01254 0 0.02533 0.3288 0.002442

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.17 673.6 0.05747 0.1933 0.8756 0.0072840.0007838 0.6952
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7398 0.3894 0.2709 0.03682 0.09585 0.2980
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7753 0.1307 0.008074 0.3638 0.9316 0.2352
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2651 0.007649 0.7492 0.6389 0.07961 0.2042

mode liq bi g mu pl ilm ru ky q H2O
0.07961 0.2042 0.05461 0.01725 0.2678 0.01257 0 0.02465 0.3310 0.008359

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.18 673.1 0.05719 0.1934 0.8773 0.0071710.0007829 0.6948
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7401 0.3889 0.2699 0.03681 0.09568 0.2989
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7748 0.1289 0.007914 0.3632 0.9326 0.2402
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2609 0.007648 0.7494 0.6394 0.06414 0.2038

mode liq bi g mu pl ilm ru ky q H2O

0.06414 0.2038 0.05482 0.01952 0.2736 0.01260 0 0.02396 0.3331 0.01444

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.19 672.6 0.05691 0.1935 0.8791 0.0070580.0007819 0.6944
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7404 0.3884 0.2688 0.03681 0.09550 0.2998
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7743 0.1271 0.007756 0.3626 0.9336 0.2454
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2567 0.007647 0.7495 0.6399 0.04825 0.2033

mode liq bi g mu pl ilm ru ky q H2O
0.04825 0.2033 0.05504 0.02183 0.2796 0.01263 0 0.02325 0.3354 0.02070

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 672.1 0.05663 0.1937 0.8807 0.0069460.0007811 0.6940
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7407 0.3879 0.2677 0.03680 0.09533 0.3007
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7737 0.1253 0.007598 0.3621 0.9346 0.2508
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2525 0.007645 0.7497 0.6404 0.03191 0.2029

mode liq bi g mu pl ilm ru ky q H2O
0.03191 0.2029 0.05526 0.02418 0.2858 0.01265 0 0.02252 0.3377 0.02715

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.21 671.7 0.05635 0.1938 0.8824 0.0068350.0007803 0.6935
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7409 0.3874 0.2666 0.03680 0.09516 0.3015
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7732 0.1235 0.007442 0.3615 0.9357 0.2566
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2483 0.007643 0.7499 0.6408 0.01507 0.2024

mode liq bi g mu pl ilm ru ky q H2O
0.01507 0.2024 0.05550 0.02659 0.2922 0.01268 0 0.02177 0.3400 0.03381

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

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phases : liq, bi, g, mu, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.67 672.5 0.06095 0.1960 0.8681 0.0065920.0008201 0.7148
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7341 0.4239 0.2924 0.03528 0.09195 0.2838
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7911 0.1030 0.005761 0.3933 0.9351 0.2287
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2543 0.008431 0.7408 0.6273 0.001168 0.2273

mode liq bi g mu pl ilm ky q H2O
0.001168 0.2273 0.03454 0 0.3082 0.01221 0.02970 0.3460 0.04088

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.68 672.6 0.06092 0.1959 0.8680 0.0066280.0008197 0.7145
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7342 0.4232 0.2921 0.03531 0.09207 0.2840
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7908 0.1038 0.005823 0.3928 0.9349 0.2281
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2554 0.008410 0.7409 0.6274 0.005999 0.2268

mode liq bi g mu pl ilm ky q H2O
0.005999 0.2268 0.03496 0 0.3062 0.01222 0.02969 0.3452 0.03897

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.69 672.8 0.06089 0.1958 0.8678 0.0066650.0008193 0.7141
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7342 0.4225 0.2918 0.03535 0.09218 0.2842
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7906 0.1046 0.005886 0.3922 0.9346 0.2274
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2565 0.008389 0.7410 0.6276 0.01081 0.2263

mode liq bi g mu pl ilm ky q H2O
0.01081 0.2263 0.03538 0 0.3041 0.01222 0.02968 0.3444 0.03706

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70 672.9 0.06086 0.1957 0.8676 0.0067010.0008188 0.7137
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7343 0.4218 0.2914 0.03539 0.09230 0.2844
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7903 0.1055 0.005950 0.3916 0.9344 0.2267
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2575 0.008369 0.7411 0.6277 0.01561 0.2259

mode liq bi g mu pl ilm ky q H2O
0.01561 0.2259 0.03580 0 0.3021 0.01222 0.02967 0.3436 0.03516

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.71 673.0 0.06083 0.1956 0.8675 0.0067370.0008183 0.7134
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7344 0.4210 0.2911 0.03543 0.09241 0.2846
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7900 0.1063 0.006015 0.3910 0.9342 0.2260
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2586 0.008349 0.7413 0.6278 0.02039 0.2254

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.02039	0.2254	0.03622		0	0.3001	0.01223	0.02966	0.3428 0.03327

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.72 673.1 0.06080 0.1955 0.8673 0.0067740.0008179 0.7130

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7345 0.4203 0.2908 0.03547 0.09253 0.2848

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7897 0.1072 0.006081 0.3904 0.9339 0.2253

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2597 0.008328 0.7414 0.6280 0.02515 0.2249

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.02515	0.2249	0.03664		0	0.2981	0.01223	0.02965	0.3420 0.03138

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.73 673.2 0.06078 0.1954 0.8672 0.0068100.0008174 0.7126

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7346 0.4196 0.2905 0.03550 0.09265 0.2850

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7894 0.1081 0.006148 0.3899 0.9337 0.2247

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2607 0.008308 0.7415 0.6281 0.02989 0.2244

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.02989	0.2244	0.03706		0	0.2960	0.01224	0.02964	0.3412 0.02950

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.74 673.3 0.06075 0.1953 0.8670 0.0068470.0008169 0.7123

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7347 0.4189 0.2901 0.03554 0.09277 0.2852

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7892 0.1089 0.006216 0.3893 0.9335 0.2240

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2618 0.008288 0.7417 0.6282 0.03462 0.2240

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.03462	0.2240	0.03748		0	0.2940	0.01224	0.02963	0.3404 0.02762

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.75 673.5 0.06072 0.1952 0.8668 0.0068840.0008164 0.7119

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7348 0.4182 0.2898 0.03558 0.09289 0.2854

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7889 0.1098 0.006285 0.3887 0.9332 0.2233

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2629 0.008268 0.7418 0.6284 0.03933 0.2235

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.03933	0.2235	0.03791		0	0.2920	0.01225	0.02962	0.3396 0.02575

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.76	673.6	0.06069	0.1951	0.8667	0.0069210.0008159	0.7115	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7349	0.4175	0.2895	0.03562	0.09301	0.2856	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7886	0.1107	0.006355	0.3881	0.9330	0.2227	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2640	0.008248	0.7420	0.6285	0.04402	0.2230	

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.04402	0.2230	0.03833		0	0.2900	0.01225	0.02961	0.3388 0.02389

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.77	673.7	0.06066	0.1950	0.8665	0.0069590.0008154	0.7112	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7349	0.4168	0.2892	0.03566	0.09313	0.2858	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7883	0.1116	0.006426	0.3875	0.9328	0.2220	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2650	0.008228	0.7421	0.6287	0.04870	0.2225	

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.04870	0.2225	0.03876		0	0.2881	0.01225	0.02961	0.3380 0.02203

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.78	673.8	0.06063	0.1950	0.8663	0.0069960.0008148	0.7108	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7350	0.4160	0.2889	0.03569	0.09325	0.2860	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7880	0.1125	0.006499	0.3869	0.9325	0.2213	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2661	0.008208	0.7422	0.6288	0.05336	0.2221	

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.05336	0.2221	0.03918		0	0.2861	0.01226	0.02960	0.3373 0.02018

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.79	673.9	0.06061	0.1949	0.8662	0.0070330.0008143	0.7104	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7351	0.4153	0.2885	0.03573	0.09337	0.2862	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7878	0.1134	0.006572	0.3864	0.9323	0.2207	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2672	0.008188	0.7424	0.6290	0.05800	0.2216	

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.05800	0.2216	0.03961		0	0.2841	0.01226	0.02960	0.3365 0.01833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.80 674.0 0.06058 0.1948 0.8660 0.0070710.0008138 0.7100
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7352 0.4146 0.2882 0.03577 0.09349 0.2864
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7875 0.1143 0.006647 0.3858 0.9321 0.2200
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2683 0.008169 0.7425 0.6291 0.06263 0.2211

mode liq bi g mu pl ilm ky q H2O
 0.06263 0.2211 0.04004 0 0.2821 0.01227 0.02959 0.3357 0.01649

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.81 674.2 0.06055 0.1947 0.8658 0.0071090.0008132 0.7096
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7353 0.4139 0.2879 0.03581 0.09361 0.2866
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7872 0.1153 0.006723 0.3852 0.9318 0.2193
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2693 0.008149 0.7427 0.6293 0.06724 0.2207

mode liq bi g mu pl ilm ky q H2O
 0.06724 0.2207 0.04047 0 0.2801 0.01227 0.02959 0.3350 0.01466

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.82 674.3 0.06052 0.1946 0.8657 0.0071470.0008126 0.7093
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7354 0.4132 0.2876 0.03584 0.09373 0.2868
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7869 0.1162 0.006799 0.3846 0.9316 0.2187
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2704 0.008130 0.7428 0.6295 0.07183 0.2202

mode liq bi g mu pl ilm ky q H2O
 0.07183 0.2202 0.04090 0 0.2782 0.01227 0.02959 0.3342 0.01283

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.83 674.4 0.06050 0.1945 0.8655 0.0071850.0008121 0.7089
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7354 0.4124 0.2873 0.03588 0.09386 0.2870
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7866 0.1171 0.006877 0.3840 0.9314 0.2180
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2715 0.008110 0.7430 0.6296 0.07641 0.2197

mode liq bi g mu pl ilm ky q H2O
 0.07641 0.2197 0.04133 0 0.2762 0.01228 0.02958 0.3334 0.01100

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.84 674.5 0.06047 0.1944 0.8653 0.0072230.0008115 0.7085
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7355 0.4117 0.2870 0.03592 0.09398 0.2872
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7863 0.1181 0.006957 0.3834 0.9311 0.2174
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2726 0.008091 0.7431 0.6298 0.08097 0.2193

mode liq bi g mu pl ilm ky q H2O
 0.08097 0.2193 0.04176 0 0.2743 0.01228 0.02958 0.3327 0.009185

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.85 674.6 0.06044 0.1943 0.8652 0.0072610.0008109 0.7081
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7356 0.4110 0.2866 0.03596 0.09410 0.2873
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7860 0.1190 0.007037 0.3828 0.9309 0.2167
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2736 0.008072 0.7433 0.6300 0.08552 0.2188

mode liq bi g mu pl ilm ky q H2O
 0.08552 0.2188 0.04220 0 0.2723 0.01228 0.02958 0.3319 0.007372

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.86 674.8 0.06042 0.1942 0.8650 0.0073000.0008103 0.7077
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7357 0.4103 0.2863 0.03600 0.09423 0.2875
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7857 0.1200 0.007119 0.3822 0.9307 0.2161
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2747 0.008052 0.7434 0.6301 0.09005 0.2183

mode liq bi g mu pl ilm ky q H2O
 0.09005 0.2183 0.04263 0 0.2704 0.01229 0.02958 0.3312 0.005565

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.87 674.9 0.06039 0.1941 0.8648 0.0073380.0008097 0.7073
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7358 0.4095 0.2860 0.03603 0.09435 0.2877
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7855 0.1210 0.007202 0.3816 0.9304 0.2154
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2758 0.008033 0.7436 0.6303 0.09456 0.2178

mode liq bi g mu pl ilm ky q H2O
 0.09456 0.2178 0.04307 0 0.2685 0.01229 0.02958 0.3304 0.003763

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.88 675.0 0.06036 0.1940 0.8646 0.0073770.0008090 0.7069
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7359 0.4088 0.2857 0.03607 0.09448 0.2879
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7852 0.1219 0.007286 0.3810 0.9302 0.2148
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2769 0.008014 0.7438 0.6305 0.09906 0.2174

mode liq bi g mu pl ilm ky q H2O
 0.09906 0.2174 0.04350 0 0.2665 0.01229 0.02958 0.3297 0.001966

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.89 675.1 0.06034 0.1939 0.8645 0.007416 0.0008084 0.7066
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7359 0.4081 0.2854 0.03611 0.09460 0.2880
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7849 0.1229 0.007372 0.3804 0.9300 0.2141
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2779 0.007996 0.7439 0.6307 0.1035 0.2169

mode liq bi g mu pl ilm ky q H2O
 0.1035 0.2169 0.04394 0 0.2646 0.01230 0.02958 0.32890 0.001755

calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

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phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.58 689.0 0.1069 0.2155 0.8616 0.004915 0.001455 0.6998
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6631 0.4208 0.3680 0.03492 0.08895 0.2381
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2735 0.7772 0.7439 0.02132 0.002045 0.2693
 k(pl) x(ilm) Q(ilm)
 0.008281 0.7422 0.6215

mode liq bi cd g pl ilm ky q H2O
 0.01363 0.2238 0 0.03747 0.3082 0.01250 0.02192 0.3456 0.03692

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.59 689.5 0.1070 0.2151 0.8612 0.005007 0.001463 0.6989
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6632 0.4189 0.3671 0.03503 0.08923 0.2386
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2723 0.7777 0.7425 0.02165 0.002064 0.2738
 k(pl) x(ilm) Q(ilm)
 0.008180 0.7425 0.6216

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.02862	0.2223	0	0.03854	0.3024	0.01252	0.02165	0.3418	0.03216

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.61	690.0	0.1071	0.2147	0.8607	0.005100	0.001471	0.6980
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6634	0.4171	0.3663	0.03513	0.08951	0.2391	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2711	0.7782	0.7411	0.02197	0.002084	0.2782	
	k(pl)	x(ilm)	Q(ilm)				
	0.008082	0.7427	0.6217				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.04314	0.2208	0	0.03958	0.2968	0.01255	0.02139	0.3382	0.02754

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.62	690.5	0.1072	0.2144	0.8602	0.005193	0.001479	0.6970
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6636	0.4153	0.3655	0.03524	0.08978	0.2395	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2699	0.7787	0.7398	0.02229	0.002104	0.2827	
	k(pl)	x(ilm)	Q(ilm)				
	0.007987	0.7430	0.6218				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.05720	0.2194	0	0.04060	0.2913	0.01257	0.02114	0.3347	0.02307

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.64	691.0	0.1073	0.2140	0.8597	0.005286	0.001487	0.6962
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6637	0.4136	0.3647	0.03534	0.09006	0.2399	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2688	0.7792	0.7385	0.02261	0.002124	0.2871	
	k(pl)	x(ilm)	Q(ilm)				
	0.007894	0.7432	0.6219				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.07084	0.2180	0	0.04160	0.2861	0.01259	0.02090	0.3313	0.01873

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.65	691.5	0.1074	0.2136	0.8592	0.005380	0.001495	0.6953
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6639	0.4118	0.3639	0.03544	0.09033	0.2403	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2677	0.7796	0.7372	0.02292	0.002144	0.2915	
	k(pl)	x(ilm)	Q(ilm)				
	0.007804	0.7434	0.6220				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
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0.08407 0.2166 0 0.04257 0.2810 0.01261 0.02066 0.3280 0.01451

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.67 692.0 0.1075 0.2133 0.8587 0.005474 0.001503 0.6944
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6640 0.4102 0.3631 0.03554 0.09060 0.2406
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2666 0.7801 0.7359 0.02324 0.002164 0.2959
k(pl) x(ilm) Q(ilm)
0.007716 0.7436 0.6220

mode liq bi cd g pl ilm ky q H2O
0.09692 0.2152 0 0.04353 0.2761 0.01264 0.02042 0.3247 0.01041

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.68 692.5 0.1076 0.2129 0.8581 0.005569 0.001511 0.6936
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6641 0.4085 0.3624 0.03563 0.09087 0.2410
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2655 0.7805 0.7346 0.02355 0.002184 0.3003
k(pl) x(ilm) Q(ilm)
0.007630 0.7438 0.6221

mode liq bi cd g pl ilm ky q H2O
0.1094 0.2139 0 0.04446 0.2713 0.01266 0.02019 0.3216 0.006432

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 693.0 0.1077 0.2125 0.8576 0.005664 0.001518 0.6928
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6643 0.4069 0.3617 0.03573 0.09114 0.2413
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2644 0.7810 0.7334 0.02387 0.002204 0.3047
k(pl) x(ilm) Q(ilm)
0.007547 0.7440 0.6221

mode liq bi cd g pl ilm ky q H2O
0.1215 0.2126 0 0.04538 0.2667 0.01268 0.01996 0.3185 0.002559

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

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phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.15 687.3 0.1134 0.2181 0.8332 0.004699 0.001385 0.7364
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6531 0.4919 0.4153 0.03057 0.08461 0.2024
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.3234 0.7573 0.7876 0.02052 0.001849 0.2674
k(pl) x(ilm) Q(ilm)
0.01001 0.7384 0.6167

mode liq bi cd g pl ilm ky q H2O
0 0.2229 0.06632 0.007253 0.3151 0.012970.0002373 0.3391 0.03610

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.16 687.3 0.1133 0.2180 0.8339 0.004702 0.001387 0.7356
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6534 0.4902 0.4141 0.03068 0.08471 0.2034
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3222 0.7578 0.7866 0.02054 0.001853 0.2673
k(pl) x(ilm) Q(ilm)
0.009967 0.7385 0.6168

mode liq bi cd g pl ilm ky q H2O
0 0.2230 0.06463 0.008002 0.3150 0.012950.0007993 0.3394 0.03623

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.17 687.3 0.1131 0.2180 0.8347 0.004705 0.001389 0.7347
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6536 0.4884 0.4129 0.03079 0.08481 0.2043
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3209 0.7583 0.7856 0.02055 0.001857 0.2673
k(pl) x(ilm) Q(ilm)
0.009926 0.7386 0.6169

mode liq bi cd g pl ilm ky q H2O
0 0.2231 0.06293 0.008749 0.3150 0.01294 0.001360 0.3396 0.03636

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.18 687.4 0.1129 0.2179 0.8354 0.004709 0.001390 0.7339
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6539 0.4866 0.4117 0.03090 0.08491 0.2053
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3197 0.7588 0.7847 0.02057 0.001861 0.2672
k(pl) x(ilm) Q(ilm)
0.009885 0.7387 0.6170

mode liq bi cd g pl ilm ky q H2O
0 0.2231 0.06125 0.009494 0.3150 0.01293 0.001918 0.3399 0.03649

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.19 687.4 0.1128 0.2179 0.8361 0.004712 0.001392 0.7330
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6541 0.4849 0.4105 0.03100 0.08501 0.2062
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3184 0.7593 0.7837 0.02058 0.001865 0.2672
k(pl) x(ilm) Q(ilm)

0.009844 0.7388 0.6172

mode liq bi cd g pl ilm ky q H2O
0 0.2232 0.05956 0.01024 0.3149 0.01292 0.002475 0.3401 0.03662

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 687.4 0.1126 0.2178 0.8368 0.004715 0.001393 0.7322
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6544 0.4831 0.4093 0.03111 0.08511 0.2072
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3172 0.7598 0.7827 0.02060 0.001869 0.2671
k(pl) x(ilm) Q(ilm)
0.009803 0.7389 0.6173

mode liq bi cd g pl ilm ky q H2O
0 0.2232 0.05789 0.01098 0.3149 0.01291 0.003031 0.3404 0.03674

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.21 687.5 0.1124 0.2177 0.8375 0.004718 0.001395 0.7313
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6546 0.4814 0.4081 0.03122 0.08521 0.2081
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3160 0.7603 0.7817 0.02061 0.001873 0.2671
k(pl) x(ilm) Q(ilm)
0.009763 0.7390 0.6174

mode liq bi cd g pl ilm ky q H2O
0 0.2233 0.05621 0.01171 0.3148 0.01289 0.003585 0.3406 0.03687

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.22 687.5 0.1123 0.2177 0.8383 0.004721 0.001397 0.7305
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6549 0.4796 0.4070 0.03132 0.08531 0.2091
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3148 0.7607 0.7807 0.02062 0.001877 0.2670
k(pl) x(ilm) Q(ilm)
0.009722 0.7390 0.6175

mode liq bi cd g pl ilm ky q H2O
0 0.2233 0.05455 0.01245 0.3148 0.01288 0.004137 0.3408 0.03700

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.23 687.5 0.1121 0.2176 0.8390 0.004725 0.001398 0.7296
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6551 0.4779 0.4058 0.03143 0.08540 0.2100
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3135 0.7612 0.7797 0.02064 0.001881 0.2670
k(pl) x(ilm) Q(ilm)
0.009681 0.7391 0.6176

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2234	0.05288	0.01318	0.3148	0.01287	0.004688	0.3411	0.03712	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.24	687.6	0.1120	0.2176	0.8397	0.004728	0.001400	0.7288		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6554	0.4761	0.4046	0.03154	0.08550	0.2109			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3123	0.7617	0.7787	0.02065	0.001885	0.2669			
	k(pl)	x(ilm)	Q(ilm)						
	0.009641	0.7392	0.6178						

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2235	0.05122	0.01391	0.3147	0.01286	0.005237	0.3413	0.03725	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.25	687.6	0.1118	0.2175	0.8404	0.004731	0.001402	0.7279		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6556	0.4744	0.4035	0.03164	0.08560	0.2118			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3111	0.7622	0.7777	0.02066	0.001890	0.2669			
	k(pl)	x(ilm)	Q(ilm)						
	0.009600	0.7393	0.6179						

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2235	0.04957	0.01464	0.3147	0.01285	0.005784	0.3416	0.03738	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.26	687.6	0.1116	0.2174	0.8411	0.004734	0.001403	0.7271		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6558	0.4727	0.4023	0.03175	0.08570	0.2127			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3099	0.7627	0.7767	0.02068	0.001894	0.2668			
	k(pl)	x(ilm)	Q(ilm)						
	0.009560	0.7394	0.6180						

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2236	0.04792	0.01537	0.3146	0.01283	0.006330	0.3418	0.03751	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.27	687.7	0.1115	0.2174	0.8418	0.004737	0.001405	0.7262		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6561	0.4710	0.4011	0.03186	0.08580	0.2137			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3087	0.7631	0.7757	0.02069	0.001898	0.2668			
	k(pl)	x(ilm)	Q(ilm)						
	0.009519	0.7395	0.6181						

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2236	0.04628	0.01610	0.3146	0.01282	0.006874	0.3421	0.03763	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.28	687.7	0.1113	0.2173	0.8425	0.004741	0.001406	0.7254
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6563	0.4692	0.4000	0.03196	0.08590	0.2146	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3075	0.7636	0.7747	0.02070	0.001902	0.2667	
	k(pl)	x(ilm)	Q(ilm)				
	0.009479	0.7396	0.6182				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2237	0.04464	0.01682	0.3146	0.01281	0.007417	0.3423	0.03776	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.29	687.7	0.1112	0.2173	0.8432	0.004744	0.001408	0.7245
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6566	0.4675	0.3988	0.03207	0.08600	0.2155	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3063	0.7641	0.7737	0.02072	0.001906	0.2667	
	k(pl)	x(ilm)	Q(ilm)				
	0.009439	0.7397	0.6183				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2237	0.04300	0.01754	0.3145	0.01280	0.007958	0.3426	0.03788	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.30	687.8	0.1110	0.2172	0.8439	0.004747	0.001410	0.7237
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6568	0.4658	0.3977	0.03217	0.08610	0.2164	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3051	0.7646	0.7727	0.02073	0.001911	0.2666	
	k(pl)	x(ilm)	Q(ilm)				
	0.009399	0.7398	0.6185				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2238	0.04137	0.01826	0.3145	0.01279	0.008498	0.3428	0.03801	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.31	687.8	0.1108	0.2172	0.8446	0.004750	0.001411	0.7228
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6570	0.4641	0.3965	0.03228	0.08620	0.2172	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3039	0.7650	0.7717	0.02074	0.001915	0.2666	
	k(pl)	x(ilm)	Q(ilm)				
	0.009358	0.7398	0.6186				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2238	0.03974	0.01898	0.3144	0.01277	0.009036	0.3430	0.03814	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.32 687.8 0.1107 0.2171 0.8453 0.004754 0.001413 0.7219
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6573 0.4624 0.3954 0.03238 0.08630 0.2181
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3027 0.7655 0.7707 0.02076 0.001919 0.2665
 k(pl) x(ilm) Q(ilm)
 0.009318 0.7399 0.6187

mode liq bi cd g pl ilm ky q H2O
 0 0.2239 0.03812 0.01969 0.3144 0.01276 0.009573 0.3433 0.03826

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.33 687.9 0.1105 0.2170 0.8461 0.004757 0.001414 0.7211
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6575 0.4607 0.3942 0.03248 0.08640 0.2190
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3015 0.7660 0.7696 0.02077 0.001923 0.2665
 k(pl) x(ilm) Q(ilm)
 0.009278 0.7400 0.6188

mode liq bi cd g pl ilm ky q H2O
 0 0.2240 0.03650 0.02041 0.3144 0.01275 0.01011 0.3435 0.03839

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.34 687.9 0.1104 0.2170 0.8468 0.004760 0.001416 0.7202
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6578 0.4590 0.3931 0.03259 0.08650 0.2199
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3003 0.7665 0.7686 0.02078 0.001928 0.2664
 k(pl) x(ilm) Q(ilm)
 0.009239 0.7401 0.6189

mode liq bi cd g pl ilm ky q H2O
 0 0.2240 0.03489 0.02112 0.3143 0.01274 0.01064 0.3438 0.03851

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.35 687.9 0.1102 0.2169 0.8475 0.004763 0.001417 0.7194
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6580 0.4573 0.3920 0.03269 0.08660 0.2207
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2991 0.7669 0.7676 0.02080 0.001932 0.2664
 k(pl) x(ilm) Q(ilm)
 0.009199 0.7402 0.6190

mode liq bi cd g pl ilm ky q H2O
 0 0.2241 0.03328 0.02183 0.3143 0.01273 0.01117 0.3440 0.03864

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.36 687.9 0.1100 0.2169 0.8482 0.004767 0.001419 0.7185
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6582 0.4556 0.3908 0.03279 0.08670 0.2216
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2979 0.7674 0.7666 0.02081 0.001936 0.2663
k(pl) x(ilm) Q(ilm)
0.009159 0.7403 0.6191

mode liq bi cd g pl ilm ky q H2O
0 0.2241 0.03167 0.02253 0.3143 0.01271 0.01170 0.3442 0.03876

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.37 688.0 0.1099 0.2168 0.8488 0.004770 0.001420 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6585 0.4539 0.3897 0.03290 0.08680 0.2225
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2967 0.7679 0.7655 0.02082 0.001941 0.2663
k(pl) x(ilm) Q(ilm)
0.009119 0.7404 0.6193

mode liq bi cd g pl ilm ky q H2O
0 0.2242 0.03007 0.02324 0.3142 0.01270 0.01223 0.3445 0.03888

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.38 688.0 0.1097 0.2168 0.8495 0.004773 0.001422 0.7168
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6587 0.4523 0.3886 0.03300 0.08690 0.2233
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2956 0.7684 0.7645 0.02083 0.001945 0.2662
k(pl) x(ilm) Q(ilm)
0.009080 0.7405 0.6194

mode liq bi cd g pl ilm ky q H2O
0 0.2242 0.02848 0.02394 0.3142 0.01269 0.01276 0.3447 0.03901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.39 688.0 0.1096 0.2167 0.8502 0.004777 0.001423 0.7159
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6589 0.4506 0.3875 0.03310 0.08700 0.2241
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2944 0.7688 0.7635 0.02084 0.001949 0.2662
k(pl) x(ilm) Q(ilm)
0.009040 0.7405 0.6195

mode liq bi cd g pl ilm ky q H2O
0 0.2243 0.02688 0.02465 0.3141 0.01268 0.01329 0.3449 0.03913

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 688.1 0.1094 0.2167 0.8509 0.004780 0.001425 0.7150
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6592 0.4489 0.3864 0.03321 0.08710 0.2250
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2932 0.7693 0.7624 0.02086 0.001954 0.2661
k(pl) x(ilm) Q(ilm)
0.009001 0.7406 0.6196

mode liq bi cd g pl ilm ky q H2O
0 0.2243 0.02529 0.02535 0.3141 0.01267 0.01381 0.3452 0.03926

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.41 688.1 0.1092 0.2166 0.8516 0.004783 0.001426 0.7141
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6594 0.4473 0.3853 0.03331 0.08720 0.2258
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2921 0.7698 0.7614 0.02087 0.001958 0.2661
k(pl) x(ilm) Q(ilm)
0.008962 0.7407 0.6197

mode liq bi cd g pl ilm ky q H2O
0 0.2244 0.02371 0.02605 0.3141 0.01265 0.01434 0.3454 0.03938

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.42 688.1 0.1091 0.2165 0.8523 0.004786 0.001428 0.7133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6596 0.4456 0.3842 0.03341 0.08729 0.2266
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2909 0.7702 0.7603 0.02088 0.001963 0.2660
k(pl) x(ilm) Q(ilm)
0.008922 0.7408 0.6198

mode liq bi cd g pl ilm ky q H2O
0 0.2244 0.02213 0.02674 0.3140 0.01264 0.01486 0.3457 0.03950

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.43 688.2 0.1089 0.2165 0.8530 0.004790 0.001429 0.7124
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6599 0.4440 0.3831 0.03351 0.08739 0.2275
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2897 0.7707 0.7593 0.02089 0.001967 0.2660
k(pl) x(ilm) Q(ilm)
0.008883 0.7409 0.6199

mode liq bi cd g pl ilm ky q H2O
0 0.2245 0.02055 0.02744 0.3140 0.01263 0.01538 0.3459 0.03963

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.44 688.2 0.1088 0.2164 0.8537 0.004793 0.001431 0.7115
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6601 0.4423 0.3820 0.03361 0.08749 0.2283
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2886 0.7712 0.7582 0.02090 0.001971 0.2659
k(pl) x(ilm) Q(ilm)

0.008844 0.7410 0.6200

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2246	0.01898	0.02813	0.3139	0.01262	0.01590	0.3461	0.03975	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 688.2 0.1086 0.2164 0.8544 0.004796 0.001432 0.7106
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6603 0.4407 0.3809 0.03371 0.08759 0.2291
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2874 0.7716 0.7572 0.02092 0.001976 0.2659
k(pl) x(ilm) Q(ilm)
0.008805 0.7411 0.6201

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2246	0.01741	0.02882	0.3139	0.01261	0.01642	0.3464	0.03987	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.46 688.3 0.1085 0.2163 0.8551 0.004800 0.001434 0.7098
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6606 0.4390 0.3798 0.03381 0.08769 0.2299
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2863 0.7721 0.7561 0.02093 0.001980 0.2658
k(pl) x(ilm) Q(ilm)
0.008766 0.7411 0.6203

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2247	0.01584	0.02952	0.3139	0.01260	0.01693	0.3466	0.04000	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.47 688.3 0.1083 0.2163 0.8557 0.004803 0.001435 0.7089
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6608 0.4374 0.3787 0.03391 0.08779 0.2307
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2851 0.7725 0.7550 0.02094 0.001985 0.2658
k(pl) x(ilm) Q(ilm)
0.008727 0.7412 0.6204

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2247	0.01428	0.03020	0.3138	0.01258	0.01745	0.3468	0.04012	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.48 688.3 0.1081 0.2162 0.8564 0.004806 0.001436 0.7080
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6610 0.4358 0.3776 0.03401 0.08789 0.2315
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2840 0.7730 0.7540 0.02095 0.001989 0.2657
k(pl) x(ilm) Q(ilm)
0.008689 0.7413 0.6205

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2248	0.01272	0.03089	0.3138	0.01257	0.01796	0.3470	0.04024	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.49	688.3	0.1080	0.2162	0.8571	0.004809	0.001438	0.7071
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6613	0.4341	0.3765	0.03411	0.08799	0.2322	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2828	0.7735	0.7529	0.02096	0.001994	0.2657	
	k(pl)	x(ilm)	Q(ilm)				
	0.008650	0.7414	0.6206				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2248	0.01117	0.03158	0.3138	0.01256	0.01848	0.3473	0.04037	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.50	688.4	0.1078	0.2161	0.8578	0.004813	0.001439	0.7062
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6615	0.4325	0.3755	0.03421	0.08809	0.2330	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2817	0.7739	0.7518	0.02097	0.001998	0.2657	
	k(pl)	x(ilm)	Q(ilm)				
	0.008611	0.7415	0.6207				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2249	0.009614	0.03226	0.3137	0.01255	0.01899	0.3475	0.04049	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.51	688.4	0.1077	0.2161	0.8585	0.004816	0.001441	0.7053
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6617	0.4309	0.3744	0.03431	0.08819	0.2338	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2806	0.7744	0.7508	0.02098	0.002003	0.2656	
	k(pl)	x(ilm)	Q(ilm)				
	0.008573	0.7416	0.6208				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2249	0.008066	0.03295	0.3137	0.01254	0.01950	0.3477	0.04061	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.52	688.4	0.1075	0.2160	0.8591	0.004819	0.001442	0.7044
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6620	0.4293	0.3733	0.03441	0.08829	0.2345	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2794	0.7748	0.7497	0.02099	0.002008	0.2656	
	k(pl)	x(ilm)	Q(ilm)				
	0.008534	0.7416	0.6209				

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
0	0.2250	0.006521	0.03363	0.3136	0.01253	0.02001	0.3480	0.04073	

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.53  688.5  0.1074  0.2160  0.8598  0.004823  0.001443  0.7036
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6622  0.4277  0.3723  0.03450  0.08839  0.2353
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.2783  0.7753  0.7486  0.02100  0.002012  0.2655
      k(pl)  x(ilm)  Q(ilm)
      0.008496  0.7417  0.6210

```

```

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
0  0.2250  0.004980  0.03431  0.3136  0.01251  0.02051  0.3482  0.04086

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.54  688.5  0.1072  0.2159  0.8605  0.004826  0.001445  0.7027
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6624  0.4261  0.3712  0.03460  0.08849  0.2360
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.2772  0.7757  0.7475  0.02101  0.002017  0.2655
      k(pl)  x(ilm)  Q(ilm)
      0.008458  0.7418  0.6211

```

```

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
0  0.2251  0.003442  0.03499  0.3136  0.01250  0.02102  0.3484  0.04098

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.55  688.5  0.1071  0.2158  0.8611  0.004829  0.001446  0.7018
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6626  0.4245  0.3701  0.03470  0.08858  0.2368
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.2760  0.7762  0.7464  0.02102  0.002021  0.2654
      k(pl)  x(ilm)  Q(ilm)
      0.008420  0.7419  0.6212

```

```

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
0  0.2251  0.001907  0.03567  0.3135  0.01249  0.02153  0.3486  0.04110

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.56  688.6  0.1069  0.2158  0.8618  0.004833  0.001448  0.7009
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6629  0.4229  0.3691  0.03479  0.08868  0.2375
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.2749  0.7767  0.7454  0.02103  0.002026  0.2654
      k(pl)  x(ilm)  Q(ilm)
      0.008382  0.7420  0.6213

```

```

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
0  0.22520  0.003751  0.03634  0.3135  0.01248  0.02203  0.3489  0.04122

```

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.32	691.4	0.1135	0.2147	0.8314	0.005464	0.001459	0.7257
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6556	0.4681	0.4017	0.03198	0.08722	0.2126
		x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)
		0.3074	0.7637	0.7735	0.02321	0.002013	0.3045
		k(pl)	x(ilm)	Q(ilm)			
		0.008895	0.7417	0.6195			

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1189	0.2087	0.05976	0.02027	0.2707	0.013170	0.0001509	0.3084	0

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.33	691.5	0.1133	0.2146	0.8320	0.005471	0.001461	0.7248
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6558	0.4664	0.4006	0.03208	0.08733	0.2135
		x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)
		0.3062	0.7642	0.7725	0.02323	0.002018	0.3046
		k(pl)	x(ilm)	Q(ilm)			
		0.008857	0.7418	0.6196			

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1192	0.2088	0.05817	0.02096	0.2705	0.013150	0.0006769	0.3086	0

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.34	691.5	0.1132	0.2146	0.8327	0.005477	0.001463	0.7240
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6561	0.4647	0.3995	0.03219	0.08743	0.2143
		x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)
		0.3051	0.7647	0.7715	0.02325	0.002023	0.3047
		k(pl)	x(ilm)	Q(ilm)			
		0.008820	0.7419	0.6197			

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1195	0.2089	0.05657	0.02164	0.2703	0.01314	0.001202	0.3088	0

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.35	691.6	0.1130	0.2145	0.8334	0.005484	0.001465	0.7232
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6563	0.4630	0.3984	0.03229	0.08754	0.2152
		x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)
		0.3039	0.7651	0.7705	0.02328	0.002028	0.3047
		k(pl)	x(ilm)	Q(ilm)			
		0.008782	0.7419	0.6198			

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1197	0.2090	0.05499	0.02233	0.2701	0.01313	0.001725	0.3090		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.36	691.6	0.1129	0.2144	0.8341	0.005491	0.001467	0.7223	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6565	0.4613	0.3973	0.03239	0.08764	0.2160		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.3027	0.7656	0.7695	0.02330	0.002032	0.3048		
	k(pl)	x(ilm)	Q(ilm)					
	0.008745	0.7420	0.6198					

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1200	0.2090	0.05340	0.02301	0.2699	0.01312	0.002248	0.3092		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.37	691.7	0.1127	0.2144	0.8348	0.005497	0.001468	0.7215	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6568	0.4597	0.3962	0.03249	0.08775	0.2168		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.3015	0.7661	0.7685	0.02333	0.002037	0.3049		
	k(pl)	x(ilm)	Q(ilm)					
	0.008707	0.7421	0.6199					

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1203	0.2091	0.05182	0.02370	0.2697	0.01310	0.002769	0.3094		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.38	691.7	0.1126	0.2143	0.8355	0.005504	0.001470	0.7206	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6570	0.4580	0.3951	0.03260	0.08785	0.2177		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.3004	0.7665	0.7674	0.02335	0.002042	0.3050		
	k(pl)	x(ilm)	Q(ilm)					
	0.008670	0.7421	0.6200					

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1206	0.2092	0.05024	0.02438	0.2696	0.01309	0.003289	0.3097		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.39	691.8	0.1124	0.2143	0.8361	0.005511	0.001472	0.7198	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6572	0.4564	0.3940	0.03270	0.08796	0.2185		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.2992	0.7670	0.7664	0.02337	0.002048	0.3051		
	k(pl)	x(ilm)	Q(ilm)					
	0.008633	0.7422	0.6201					

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
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0.1209 0.2093 0.04867 0.02506 0.2694 0.01308 0.003808 0.3099 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 691.8 0.1123 0.2142 0.8368 0.005517 0.001474 0.7190
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6575 0.4547 0.3930 0.03280 0.08806 0.2193
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2981 0.7674 0.7654 0.02340 0.002053 0.3051
k(pl) x(ilm) Q(ilm)
0.008595 0.7423 0.6201

mode liq bi cd g pl ilm ky q H2O
0.1212 0.2093 0.04710 0.02574 0.2692 0.01307 0.004325 0.3101 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.41 691.9 0.1121 0.2141 0.8375 0.005524 0.001475 0.7181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6577 0.4531 0.3919 0.03290 0.08817 0.2201
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2969 0.7679 0.7644 0.02342 0.002058 0.3052
k(pl) x(ilm) Q(ilm)
0.008558 0.7423 0.6202

mode liq bi cd g pl ilm ky q H2O
0.1214 0.2094 0.04553 0.02641 0.2690 0.01306 0.004842 0.3103 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.42 691.9 0.1120 0.2141 0.8382 0.005531 0.001477 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6579 0.4514 0.3908 0.03300 0.08827 0.2209
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2958 0.7684 0.7634 0.02345 0.002063 0.3053
k(pl) x(ilm) Q(ilm)
0.008521 0.7424 0.6203

mode liq bi cd g pl ilm ky q H2O
0.1217 0.2095 0.04397 0.02709 0.2688 0.01304 0.005357 0.3105 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.43 692.0 0.1118 0.2140 0.8388 0.005537 0.001479 0.7164
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6582 0.4498 0.3897 0.03310 0.08838 0.2217
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2946 0.7688 0.7623 0.02347 0.002068 0.3054
k(pl) x(ilm) Q(ilm)
0.008484 0.7425 0.6204

mode liq bi cd g pl ilm ky q H2O
0.1220 0.2096 0.04241 0.02776 0.2687 0.01303 0.005872 0.3107 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.44 692.0 0.1117 0.2139 0.8395 0.005544 0.001481 0.7156
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6584 0.4481 0.3886 0.03320 0.08848 0.2225
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2935 0.7693 0.7613 0.02349 0.002073 0.3055
 k(pl) x(ilm) Q(ilm)
 0.008448 0.7425 0.6204

mode liq bi cd g pl ilm ky q H2O
 0.1223 0.2097 0.04085 0.02843 0.2685 0.01302 0.006385 0.3109 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.45 692.1 0.1115 0.2139 0.8402 0.005551 0.001482 0.7147
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6586 0.4465 0.3876 0.03330 0.08859 0.2233
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2923 0.7697 0.7603 0.02352 0.002078 0.3055
 k(pl) x(ilm) Q(ilm)
 0.008411 0.7426 0.6205

mode liq bi cd g pl ilm ky q H2O
 0.1225 0.2097 0.03929 0.02910 0.2683 0.01301 0.006897 0.3111 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.46 692.1 0.1114 0.2138 0.8409 0.005558 0.001484 0.7139
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6588 0.4449 0.3865 0.03340 0.08869 0.2241
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2912 0.7702 0.7592 0.02354 0.002083 0.3056
 k(pl) x(ilm) Q(ilm)
 0.008374 0.7427 0.6206

mode liq bi cd g pl ilm ky q H2O
 0.1228 0.2098 0.03774 0.02977 0.2681 0.01299 0.007408 0.3113 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.47 692.2 0.1112 0.2137 0.8415 0.005564 0.001486 0.7130
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6591 0.4433 0.3855 0.03350 0.08880 0.2249
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2900 0.7706 0.7582 0.02356 0.002088 0.3057
 k(pl) x(ilm) Q(ilm)
 0.008338 0.7427 0.6206

mode liq bi cd g pl ilm ky q H2O
 0.1231 0.2099 0.03619 0.03043 0.2679 0.01298 0.007918 0.3115 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.48 692.2 0.1111 0.2137 0.8422 0.005571 0.001487 0.7122

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6593 0.4416 0.3844 0.03360 0.08890 0.2256
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2889 0.7711 0.7572 0.02358 0.002094 0.3058
 k(pl) x(ilm) Q(ilm)
 0.008301 0.7428 0.6207

mode liq bi cd g pl ilm ky q H2O
 0.1234 0.2100 0.03465 0.03110 0.2678 0.01297 0.008427 0.3117 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.49 692.3 0.1109 0.2136 0.8429 0.005578 0.001489 0.7113
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6595 0.4400 0.3833 0.03370 0.08901 0.2264
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2878 0.7715 0.7561 0.02361 0.002099 0.3059
 k(pl) x(ilm) Q(ilm)
 0.008265 0.7428 0.6208

mode liq bi cd g pl ilm ky q H2O
 0.1237 0.2100 0.03311 0.03176 0.2676 0.01296 0.008934 0.3120 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.50 692.3 0.1108 0.2136 0.8435 0.005585 0.001491 0.7104
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6598 0.4384 0.3823 0.03380 0.08911 0.2272
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2867 0.7720 0.7551 0.02363 0.002104 0.3059
 k(pl) x(ilm) Q(ilm)
 0.008229 0.7429 0.6209

mode liq bi cd g pl ilm ky q H2O
 0.1239 0.2101 0.03157 0.03243 0.2674 0.01295 0.009441 0.3122 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.51 692.4 0.1106 0.2135 0.8442 0.005591 0.001493 0.7096
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6600 0.4368 0.3812 0.03390 0.08922 0.2279
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2855 0.7725 0.7540 0.02365 0.002109 0.3060
 k(pl) x(ilm) Q(ilm)
 0.008192 0.7430 0.6209

mode liq bi cd g pl ilm ky q H2O
 0.1242 0.2102 0.03003 0.03309 0.2672 0.01293 0.009947 0.3124 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.52 692.4 0.1105 0.2134 0.8449 0.005598 0.001494 0.7087
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6602 0.4352 0.3802 0.03400 0.08932 0.2287

x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2844 0.7729 0.7530 0.02367 0.002114 0.3061
k(pl) x(ilm) Q(ilm)
0.008156 0.7430 0.6210

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1245	0.2103	0.02850	0.03375	0.2671	0.01292	0.01045	0.3126	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.53 692.5 0.1104 0.2134 0.8455 0.005605 0.001496 0.7079
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6604 0.4336 0.3792 0.03410 0.08943 0.2294
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2833 0.7734 0.7519 0.02370 0.002120 0.3062
k(pl) x(ilm) Q(ilm)
0.008120 0.7431 0.6211

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1247	0.2104	0.02697	0.03441	0.2669	0.01291	0.01096	0.3128	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.54 692.5 0.1102 0.2133 0.8462 0.005612 0.001498 0.7070
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6607 0.4320 0.3781 0.03419 0.08953 0.2301
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2822 0.7738 0.7509 0.02372 0.002125 0.3063
k(pl) x(ilm) Q(ilm)
0.008084 0.7432 0.6211

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1250	0.2104	0.02544	0.03506	0.2667	0.01290	0.01146	0.3130	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.55 692.6 0.1101 0.2132 0.8469 0.005619 0.001499 0.7061
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6609 0.4304 0.3771 0.03429 0.08964 0.2309
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2811 0.7742 0.7498 0.02374 0.002130 0.3063
k(pl) x(ilm) Q(ilm)
0.008048 0.7432 0.6212

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O
	0.1253	0.2105	0.02391	0.03572	0.2665	0.01288	0.01196	0.3132	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.56 692.6 0.1099 0.2132 0.8475 0.005625 0.001501 0.7053
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6611 0.4289 0.3761 0.03439 0.08975 0.2316
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2800 0.7747 0.7487 0.02376 0.002136 0.3064

k(pl) x(ilm) Q(ilm)
0.008013 0.7433 0.6213

mode liq bi cd g pl ilm ky q H2O
0.1256 0.2106 0.02239 0.03637 0.2663 0.01287 0.01246 0.3134 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.57 692.7 0.1098 0.2131 0.8482 0.005632 0.001502 0.7044
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6613 0.4273 0.3750 0.03448 0.08985 0.2323
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2788 0.7751 0.7477 0.02379 0.002141 0.3065
k(pl) x(ilm) Q(ilm)
0.007977 0.7433 0.6213

mode liq bi cd g pl ilm ky q H2O
0.1258 0.2107 0.02087 0.03703 0.2662 0.01286 0.01296 0.3136 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.58 692.7 0.1096 0.2131 0.8488 0.005639 0.001504 0.7035
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6615 0.4257 0.3740 0.03458 0.08996 0.2330
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2777 0.7756 0.7466 0.02381 0.002146 0.3066
k(pl) x(ilm) Q(ilm)
0.007942 0.7434 0.6214

mode liq bi cd g pl ilm ky q H2O
0.1261 0.2108 0.01936 0.03768 0.2660 0.01285 0.01346 0.3138 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.59 692.8 0.1095 0.2130 0.8495 0.005646 0.001506 0.7027
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6618 0.4241 0.3730 0.03468 0.09006 0.2337
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2766 0.7760 0.7455 0.02383 0.002152 0.3067
k(pl) x(ilm) Q(ilm)
0.007906 0.7435 0.6214

mode liq bi cd g pl ilm ky q H2O
0.1264 0.2108 0.01784 0.03833 0.2658 0.01284 0.01396 0.3140 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 692.8 0.1093 0.2129 0.8501 0.005653 0.001507 0.7018
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6620 0.4226 0.3720 0.03477 0.09017 0.2344
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2755 0.7765 0.7445 0.02385 0.002157 0.3067
k(pl) x(ilm) Q(ilm)
0.007871 0.7435 0.6215

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1266	0.2109	0.01633	0.03898	0.2656	0.01282	0.01445	0.3142		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.61	692.9	0.1092	0.2129	0.8508	0.005660	0.001509	0.7009	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6622	0.4210	0.3710	0.03487	0.09027	0.2351		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.2744	0.7769	0.7434	0.02387	0.002163	0.3068		
	k(pl)	x(ilm)	Q(ilm)					
	0.007835	0.7436	0.6216					

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1269	0.2110	0.01482	0.03963	0.2655	0.01281	0.01495	0.3144		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.62	692.9	0.1090	0.2128	0.8515	0.005667	0.001510	0.7000	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6624	0.4194	0.3700	0.03496	0.09038	0.2358		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.2733	0.7774	0.7423	0.02389	0.002168	0.3069		
	k(pl)	x(ilm)	Q(ilm)					
	0.007800	0.7436	0.6216					

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1272	0.2111	0.01331	0.04027	0.2653	0.01280	0.01544	0.3146		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.63	693.0	0.1089	0.2128	0.8521	0.005673	0.001512	0.6992	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6627	0.4179	0.3690	0.03506	0.09048	0.2364		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.2723	0.7778	0.7412	0.02391	0.002174	0.3070		
	k(pl)	x(ilm)	Q(ilm)					
	0.007765	0.7437	0.6217					

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
	0.1274	0.2111	0.01181	0.04092	0.2651	0.01279	0.01594	0.3149		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.64	693.0	0.1088	0.2127	0.8528	0.005680	0.001513	0.6983	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6629	0.4164	0.3680	0.03515	0.09059	0.2371		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.2712	0.7782	0.7401	0.02394	0.002179	0.3071		
	k(pl)	x(ilm)	Q(ilm)					
	0.007730	0.7438	0.6218					

mode	liq	bi	cd	g	pl	ilm	ky	q	H2O	
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0.1277 0.2112 0.01031 0.04157 0.2649 0.01277 0.01643 0.3151 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.65 693.1 0.1086 0.2126 0.8534 0.005687 0.001515 0.6974
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6631 0.4148 0.3670 0.03524 0.09069 0.2378
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2701 0.7787 0.7390 0.02396 0.002185 0.3071
k(pl) x(ilm) Q(ilm)
0.007695 0.7438 0.6218

mode liq bi cd g pl ilm ky q H2O
0.1280 0.2113 0.008807 0.04221 0.2647 0.01276 0.01692 0.3153 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.66 693.1 0.1085 0.2126 0.8540 0.005694 0.001517 0.6965
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6633 0.4133 0.3660 0.03534 0.09080 0.2384
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2690 0.7791 0.7379 0.02398 0.002190 0.3072
k(pl) x(ilm) Q(ilm)
0.007660 0.7439 0.6219

mode liq bi cd g pl ilm ky q H2O
0.1282 0.2114 0.007309 0.04285 0.2646 0.01275 0.01742 0.3155 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.67 693.2 0.1083 0.2125 0.8547 0.005701 0.001518 0.6957
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6635 0.4117 0.3650 0.03543 0.09090 0.2391
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2679 0.7796 0.7369 0.02400 0.002196 0.3073
k(pl) x(ilm) Q(ilm)
0.007626 0.7439 0.6219

mode liq bi cd g pl ilm ky q H2O
0.1285 0.2115 0.005814 0.04350 0.2644 0.01274 0.01791 0.3157 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.68 693.2 0.1082 0.2125 0.8553 0.005708 0.001520 0.6948
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6637 0.4102 0.3641 0.03552 0.09101 0.2397
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2668 0.7800 0.7358 0.02402 0.002201 0.3074
k(pl) x(ilm) Q(ilm)
0.007591 0.7440 0.6220

mode liq bi cd g pl ilm ky q H2O
0.1288 0.2115 0.004321 0.04414 0.2642 0.01273 0.01840 0.3159 0

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.69    693.2  0.1080  0.2124  0.8560 0.005715 0.001521 0.6939
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6640  0.4087  0.3631  0.03562 0.09112 0.2403
      x(cd)  h(cd)  x(g)   z(g)   f(g)  ca(pl)
      0.2658  0.7804  0.7347  0.02404 0.002207 0.3075
      k(pl)  x(ilm)  Q(ilm)
      0.007557 0.7440 0.6221

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
0.1290 0.2116 0.002829 0.04478 0.2640 0.01271 0.01888 0.3161 0

```

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.70    693.3  0.1079  0.2124  0.8566 0.005722 0.001523 0.6930
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6642  0.4072  0.3621  0.03571 0.09122 0.2409
      x(cd)  h(cd)  x(g)   z(g)   f(g)  ca(pl)
      0.2647  0.7809  0.7335  0.02406 0.002213 0.3075
      k(pl)  x(ilm)  Q(ilm)
      0.007522 0.7441 0.6221

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
0.1293 0.2117 0.001340 0.04542 0.2639 0.01270 0.01937 0.3163 0

```

calcs use:

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, cd, g, pl, ilm, ky, q

```

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.42    701.2  0.1152  0.2217  0.8193 0.005860 0.001616 0.7259
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6455  0.4621  0.4031  0.03242 0.09114 0.2095
      x(cd)  h(cd)  x(g)   z(g)   f(g)  ca(pl)
      0.3054  0.7586  0.7663  0.02282 0.002126 0.3059
      k(pl)  x(ilm)  Q(ilm)
      0.01004 0.7386 0.6098

mode  liq  bi  cd  g  pl  ilm  ky  q
0.1245 0.2058 0.05780 0.02386 0.2686 0.01301 0 0.3065

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.44    703.1  0.1156  0.2231  0.8169 0.005942 0.001649 0.7259
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6435  0.4608  0.4033  0.03251 0.09192 0.2090
      x(cd)  h(cd)  x(g)   z(g)   f(g)  ca(pl)
      0.3049  0.7576  0.7649  0.02275 0.002149 0.3062
      k(pl)  x(ilm)  Q(ilm)

```

0.01028 0.7379 0.6079

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1257	0.2052	0.05731	0.02464	0.2681	0.01298	0	0.3061

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.46 705.0 0.1159 0.2245 0.8144 0.006024 0.001681 0.7258
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6415 0.4595 0.4035 0.03261 0.09272 0.2085
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3044 0.7565 0.7634 0.02268 0.002172 0.3064
k(pl) x(ilm) Q(ilm)
0.01052 0.7373 0.6060

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1269	0.2045	0.05682	0.02542	0.2677	0.01295	0	0.3057

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.48 706.9 0.1163 0.2259 0.8120 0.006108 0.001715 0.7257
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6395 0.4581 0.4036 0.03270 0.09351 0.2079
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3039 0.7555 0.7618 0.02261 0.002196 0.3067
k(pl) x(ilm) Q(ilm)
0.01076 0.7367 0.6041

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1282	0.2039	0.05632	0.02622	0.2673	0.01292	0	0.3052

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 708.8 0.1166 0.2273 0.8095 0.006193 0.001749 0.7256
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6374 0.4568 0.4037 0.03280 0.09432 0.2074
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3034 0.7544 0.7603 0.02254 0.002219 0.3070
k(pl) x(ilm) Q(ilm)
0.01101 0.7361 0.6021

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1294	0.2032	0.05582	0.02704	0.2668	0.01290	0	0.3048

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.52 710.8 0.1170 0.2287 0.8070 0.006279 0.001783 0.7255
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6354 0.4554 0.4038 0.03289 0.09513 0.2069
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3028 0.7534 0.7587 0.02247 0.002243 0.3073
k(pl) x(ilm) Q(ilm)
0.01127 0.7355 0.6002

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1307	0.2025	0.05531	0.02786	0.2664	0.01287	0	0.3044

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.54	712.7	0.1174	0.2301	0.8045	0.006367	0.001818	0.7254
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6333	0.4540	0.4040	0.03299	0.09595	0.2064	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3023	0.7523	0.7572	0.02240	0.002267	0.3076	
	k(pl)	x(ilm)	Q(ilm)				
	0.01153	0.7349	0.5982				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1320	0.2019	0.05480	0.02870	0.2659	0.01284	0	0.3039

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.56	714.6	0.1178	0.2315	0.8019	0.006456	0.001854	0.7253
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6313	0.4526	0.4040	0.03309	0.09677	0.2059	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3017	0.7512	0.7556	0.02233	0.002292	0.3079	
	k(pl)	x(ilm)	Q(ilm)				
	0.01180	0.7343	0.5962				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1333	0.2011	0.05428	0.02956	0.2654	0.01281	0	0.3035

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.58	716.5	0.1181	0.2329	0.7994	0.006547	0.001890	0.7251
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6292	0.4511	0.4041	0.03318	0.09760	0.2054	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3011	0.7500	0.7540	0.02226	0.002316	0.3082	
	k(pl)	x(ilm)	Q(ilm)				
	0.01207	0.7337	0.5942				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1346	0.2004	0.05376	0.03043	0.2650	0.01279	0	0.3030

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.60	718.4	0.1185	0.2343	0.7967	0.006639	0.001926	0.7250
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6271	0.4497	0.4042	0.03328	0.09844	0.2049	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3004	0.7489	0.7523	0.02219	0.002341	0.3085	
	k(pl)	x(ilm)	Q(ilm)				
	0.01234	0.7331	0.5922				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1360	0.1997	0.05323	0.03131	0.2645	0.01276	0	0.3025

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.62	720.3	0.1189	0.2357	0.7941	0.006732	0.001963	0.7248
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6250	0.4482	0.4042	0.03338	0.09928	0.2044	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2998	0.7478	0.7507	0.02212	0.002366	0.3088	
	k(pl)	x(ilm)	Q(ilm)				
	0.01262	0.7325	0.5903				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1374	0.1989	0.05269	0.03220	0.2640	0.01273	0	0.3020

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.64	722.2	0.1193	0.2371	0.7915	0.006826	0.002001	0.7246
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6229	0.4466	0.4043	0.03348	0.1001	0.2039	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2992	0.7466	0.7490	0.02205	0.002391	0.3091	
	k(pl)	x(ilm)	Q(ilm)				
	0.01291	0.7319	0.5883				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1388	0.1981	0.05215	0.03311	0.2635	0.01271	0	0.3015

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.66	724.1	0.1197	0.2385	0.7888	0.006922	0.002039	0.7244
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6207	0.4451	0.4043	0.03358	0.1010	0.2035	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2985	0.7454	0.7473	0.02198	0.002417	0.3094	
	k(pl)	x(ilm)	Q(ilm)				
	0.01320	0.7313	0.5863				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1403	0.1973	0.05160	0.03404	0.2630	0.01268	0	0.3010

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.68	726.0	0.1201	0.2399	0.7861	0.007019	0.002078	0.7241
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6186	0.4436	0.4043	0.03368	0.1018	0.2030	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2978	0.7443	0.7456	0.02191	0.002443	0.3098	
	k(pl)	x(ilm)	Q(ilm)				
	0.01350	0.7308	0.5843				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1418	0.1965	0.05105	0.03498	0.2625	0.01266	0	0.3005

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.70 727.9 0.1205 0.2413 0.7834 0.007118 0.002117 0.7239
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6165 0.4420 0.4043 0.03378 0.1027 0.2025
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2971 0.7431 0.7439 0.02184 0.002469 0.3101
k(pl) x(ilm) Q(ilm)
0.01380 0.7302 0.5823

mode liq bi cd g pl ilm ky q
0.1433 0.1957 0.05049 0.03593 0.2620 0.01264 0 0.2999

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.72 729.8 0.1209 0.2427 0.7807 0.007218 0.002156 0.7236
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6143 0.4404 0.4042 0.03388 0.1036 0.2021
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2964 0.7419 0.7421 0.02177 0.002495 0.3104
k(pl) x(ilm) Q(ilm)
0.01410 0.7296 0.5803

mode liq bi cd g pl ilm ky q
0.1448 0.1949 0.04992 0.03690 0.2615 0.01261 0 0.2994

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.74 731.7 0.1213 0.2442 0.7779 0.007320 0.002196 0.7233
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6122 0.4387 0.4042 0.03399 0.1045 0.2016
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2956 0.7407 0.7404 0.02170 0.002521 0.3107
k(pl) x(ilm) Q(ilm)
0.01441 0.7291 0.5783

mode liq bi cd g pl ilm ky q
0.1463 0.1940 0.04935 0.03789 0.2610 0.01259 0 0.2988

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.76 733.6 0.1217 0.2456 0.7752 0.007423 0.002237 0.7230
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6100 0.4371 0.4042 0.03409 0.1053 0.2012
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2948 0.7394 0.7386 0.02164 0.002548 0.3111
k(pl) x(ilm) Q(ilm)
0.01473 0.7285 0.5763

mode liq bi cd g pl ilm ky q
0.1479 0.1931 0.04877 0.03889 0.2605 0.01257 0 0.2983

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.78 735.5 0.1221 0.2470 0.7724 0.007527 0.002278 0.7227
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6078 0.4354 0.4041 0.03419 0.1062 0.2007
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2941 0.7382 0.7367 0.02157 0.002574 0.3114
k(pl) x(ilm) Q(ilm)
0.01505 0.7280 0.5743

mode liq bi cd g pl ilm ky q
0.1495 0.1922 0.04818 0.03990 0.2600 0.01255 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 737.4 0.1225 0.2484 0.7696 0.007633 0.002320 0.7223
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6057 0.4337 0.4040 0.03430 0.1071 0.2003
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2932 0.7370 0.7349 0.02150 0.002602 0.3117
k(pl) x(ilm) Q(ilm)
0.01537 0.7275 0.5723

mode liq bi cd g pl ilm ky q
0.1511 0.1913 0.04758 0.04093 0.2594 0.01253 0 0.2971

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.82 739.3 0.1229 0.2498 0.7669 0.007740 0.002362 0.7219
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6035 0.4320 0.4039 0.03440 0.1080 0.1998
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2924 0.7357 0.7330 0.02144 0.002629 0.3121
k(pl) x(ilm) Q(ilm)
0.01570 0.7270 0.5704

mode liq bi cd g pl ilm ky q
0.1528 0.1904 0.04698 0.04198 0.2589 0.01251 0 0.2965

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.84 741.2 0.1233 0.2513 0.7641 0.007849 0.002404 0.7216
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6013 0.4302 0.4038 0.03451 0.1089 0.1994
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2916 0.7344 0.7311 0.02137 0.002656 0.3124
k(pl) x(ilm) Q(ilm)
0.01603 0.7265 0.5684

mode liq bi cd g pl ilm ky q
0.1545 0.1894 0.04637 0.04304 0.2584 0.01249 0 0.2959

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.86 743.1 0.1237 0.2527 0.7613 0.007959 0.002447 0.7211
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5991 0.4284 0.4037 0.03461 0.1098 0.1990
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2907 0.7332 0.7292 0.02130 0.002684 0.3127
k(pl) x(ilm) Q(ilm)
0.01637 0.7260 0.5665

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1562	0.1884	0.04576	0.04411	0.2578	0.01248	0	0.2952

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.88 744.9 0.1241 0.2541 0.7584 0.008070 0.002490 0.7207
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5970 0.4266 0.4036 0.03472 0.1108 0.1986
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2898 0.7319 0.7273 0.02124 0.002712 0.3131
k(pl) x(ilm) Q(ilm)
0.01671 0.7255 0.5645

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1579	0.1874	0.04513	0.04520	0.2573	0.01246	0	0.2946

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 746.8 0.1245 0.2555 0.7556 0.008183 0.002534 0.7203
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5948 0.4248 0.4034 0.03483 0.1117 0.1982
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2889 0.7306 0.7254 0.02117 0.002740 0.3134
k(pl) x(ilm) Q(ilm)
0.01706 0.7250 0.5626

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1597	0.1864	0.04451	0.04631	0.2567	0.01245	0	0.2939

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.92 748.6 0.1249 0.2569 0.7528 0.008297 0.002578 0.7198
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5926 0.4230 0.4032 0.03493 0.1126 0.1978
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2880 0.7293 0.7234 0.02111 0.002768 0.3138
k(pl) x(ilm) Q(ilm)
0.01741 0.7246 0.5607

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1615	0.1854	0.04387	0.04743	0.2561	0.01243	0	0.2933

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.94 750.5 0.1253 0.2583 0.7499 0.008413 0.002622 0.7193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5904 0.4211 0.4030 0.03504 0.1135 0.1974
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2870 0.7280 0.7214 0.02105 0.002796 0.3141
k(pl) x(ilm) Q(ilm)

0.01777 0.7242 0.5588

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1633	0.1843	0.04323	0.04857	0.2556	0.01242	0	0.2926

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.96 752.3 0.1258 0.2597 0.7470 0.008529 0.002666 0.7188
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5882 0.4192 0.4028 0.03515 0.1145 0.1970
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2861 0.7267 0.7194 0.02098 0.002825 0.3145
k(pl) x(ilm) Q(ilm)
0.01812 0.7238 0.5570

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1651	0.1833	0.04259	0.04972	0.2550	0.01241	0	0.2919

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.98 754.2 0.1262 0.2610 0.7442 0.008647 0.002710 0.7182
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5860 0.4173 0.4026 0.03526 0.1154 0.1966
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2851 0.7254 0.7173 0.02092 0.002854 0.3148
k(pl) x(ilm) Q(ilm)
0.01849 0.7234 0.5551

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1670	0.1822	0.04194	0.05089	0.2544	0.01239	0	0.2912

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 756.0 0.1266 0.2624 0.7413 0.008766 0.002755 0.7177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5839 0.4153 0.4023 0.03536 0.1164 0.1962
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2841 0.7241 0.7152 0.02086 0.002883 0.3152
k(pl) x(ilm) Q(ilm)
0.01885 0.7230 0.5533

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1689	0.1811	0.04128	0.05207	0.2538	0.01238	0	0.2905

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.02 757.8 0.1270 0.2638 0.7384 0.008887 0.002800 0.7171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5817 0.4134 0.4021 0.03547 0.1173 0.1958
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2830 0.7228 0.7131 0.02080 0.002912 0.3155
k(pl) x(ilm) Q(ilm)
0.01922 0.7226 0.5515

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1708	0.1799	0.04061	0.05326	0.2532	0.01237	0	0.2897

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.04	759.6	0.1275	0.2651	0.7356	0.009008	0.002845	0.7165
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5795	0.4114	0.4018	0.03558	0.1183	0.1955	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2820	0.7215	0.7110	0.02073	0.002941	0.3159	
	k(pl)	x(ilm)	Q(ilm)				
	0.01959	0.7223	0.5498				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1728	0.1788	0.03994	0.05447	0.2526	0.01237	0	0.2890

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.06	761.4	0.1279	0.2665	0.7327	0.009131	0.002890	0.7159
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5773	0.4094	0.4015	0.03569	0.1192	0.1951	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2809	0.7202	0.7089	0.02067	0.002970	0.3162	
	k(pl)	x(ilm)	Q(ilm)				
	0.01996	0.7219	0.5480				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1748	0.1776	0.03926	0.05570	0.2520	0.01236	0	0.2882

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.08	763.1	0.1284	0.2678	0.7298	0.009255	0.002935	0.7152
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5752	0.4073	0.4011	0.03580	0.1202	0.1947	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2798	0.7189	0.7067	0.02061	0.003000	0.3166	
	k(pl)	x(ilm)	Q(ilm)				
	0.02034	0.7216	0.5463				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1768	0.1764	0.03858	0.05694	0.2514	0.01235	0	0.2875

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.10	764.9	0.1288	0.2691	0.7269	0.009380	0.002980	0.7146
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5730	0.4053	0.4008	0.03591	0.1211	0.1944	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2787	0.7176	0.7045	0.02055	0.003030	0.3170	
	k(pl)	x(ilm)	Q(ilm)				
	0.02072	0.7213	0.5447				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.1788	0.1752	0.03789	0.05819	0.2508	0.01235	0	0.2867

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.12 766.7 0.1293 0.2705 0.7241 0.009506 0.003025 0.7139
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5708 0.4032 0.4005 0.03602 0.1221 0.1940
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2776 0.7163 0.7023 0.02049 0.003059 0.3173
k(pl) x(ilm) Q(ilm)
0.02110 0.7211 0.5430

mode liq bi cd g pl ilm ky q
0.1809 0.1740 0.03720 0.05945 0.2502 0.01235 0 0.2859

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.14 768.4 0.1297 0.2718 0.7212 0.009634 0.003070 0.7132
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5687 0.4011 0.4001 0.03612 0.1231 0.1937
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2764 0.7150 0.7001 0.02043 0.003089 0.3177
k(pl) x(ilm) Q(ilm)
0.02148 0.7208 0.5414

mode liq bi cd g pl ilm ky q
0.1830 0.1728 0.03649 0.06073 0.2496 0.01234 0 0.2851

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.16 770.1 0.1301 0.2731 0.7184 0.009762 0.003115 0.7124
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5666 0.3990 0.3997 0.03623 0.1241 0.1933
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2752 0.7136 0.6979 0.02038 0.003119 0.3180
k(pl) x(ilm) Q(ilm)
0.02187 0.7206 0.5399

mode liq bi cd g pl ilm ky q
0.1851 0.1715 0.03578 0.06203 0.2490 0.01234 0 0.2843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.18 771.8 0.1306 0.2743 0.7155 0.009892 0.003161 0.7117
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5644 0.3968 0.3993 0.03634 0.1250 0.1930
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2741 0.7123 0.6956 0.02032 0.003150 0.3184
k(pl) x(ilm) Q(ilm)
0.02226 0.7204 0.5383

mode liq bi cd g pl ilm ky q
0.1872 0.1703 0.03507 0.06333 0.2483 0.01234 0 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.20 773.6 0.1310 0.2756 0.7127 0.01002 0.003206 0.7109
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5623 0.3947 0.3989 0.03645 0.1260 0.1927
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2729 0.7110 0.6933 0.02026 0.003180 0.3188
k(pl) x(ilm) Q(ilm)
0.02265 0.7202 0.5368

mode liq bi cd g pl ilm ky q
0.1894 0.1690 0.03435 0.06465 0.2477 0.01234 0 0.2826

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.22 775.2 0.1315 0.2769 0.7099 0.01015 0.003251 0.7101
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5602 0.3925 0.3985 0.03656 0.1270 0.1923
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2716 0.7097 0.6909 0.02020 0.003210 0.3191
k(pl) x(ilm) Q(ilm)
0.02304 0.7201 0.5354

mode liq bi cd g pl ilm ky q
0.1915 0.1677 0.03362 0.06598 0.2471 0.01234 0 0.2818

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.24 776.9 0.1320 0.2781 0.7071 0.01029 0.003295 0.7093
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5581 0.3903 0.3980 0.03666 0.1280 0.1920
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2704 0.7084 0.6886 0.02015 0.003241 0.3195
k(pl) x(ilm) Q(ilm)
0.02343 0.7199 0.5340

mode liq bi cd g pl ilm ky q
0.1937 0.1664 0.03289 0.06733 0.2464 0.01235 0 0.2809

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.26 778.6 0.1324 0.2794 0.7043 0.01042 0.003340 0.7084
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5560 0.3881 0.3975 0.03677 0.1290 0.1916
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2691 0.7071 0.6862 0.02009 0.003272 0.3199
k(pl) x(ilm) Q(ilm)
0.02382 0.7198 0.5326

mode liq bi cd g pl ilm ky q
0.1960 0.1650 0.03215 0.06869 0.2458 0.01235 0 0.2800

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.28 780.3 0.1329 0.2806 0.7015 0.01056 0.003385 0.7075
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5539 0.3859 0.3971 0.03688 0.1300 0.1913
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2679 0.7059 0.6838 0.02003 0.003302 0.3202
k(pl) x(ilm) Q(ilm)
0.02421 0.7197 0.5313

mode liq bi cd g pl ilm ky q
0.1982 0.1637 0.03140 0.07005 0.2451 0.01236 0 0.2791

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.30 781.9 0.1333 0.2818 0.6987 0.01069 0.003429 0.7067
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5518 0.3836 0.3966 0.03698 0.1310 0.1910
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2666 0.7046 0.6814 0.01998 0.003333 0.3206
k(pl) x(ilm) Q(ilm)
0.02460 0.7197 0.5300

mode liq bi cd g pl ilm ky q
0.2005 0.1623 0.03065 0.07144 0.2445 0.01237 0 0.2783

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.32 783.5 0.1338 0.2830 0.6960 0.01083 0.003473 0.7057
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5498 0.3813 0.3961 0.03709 0.1320 0.1906
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2653 0.7033 0.6790 0.01992 0.003364 0.3210
k(pl) x(ilm) Q(ilm)
0.02499 0.7196 0.5288

mode liq bi cd g pl ilm ky q
0.2028 0.1610 0.02989 0.07283 0.2438 0.01237 0 0.2774

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.34 785.2 0.1342 0.2842 0.6933 0.01097 0.003517 0.7048
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5477 0.3791 0.3956 0.03720 0.1330 0.1903
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2639 0.7020 0.6765 0.01987 0.003395 0.3214
k(pl) x(ilm) Q(ilm)
0.02539 0.7196 0.5276

mode liq bi cd g pl ilm ky q
0.2051 0.1596 0.02912 0.07423 0.2432 0.01238 0 0.2764

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.36 786.8 0.1347 0.2854 0.6906 0.01111 0.003561 0.7039
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5457 0.3768 0.3951 0.03730 0.1340 0.1900
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2626 0.7007 0.6740 0.01981 0.003427 0.3217
k(pl) x(ilm) Q(ilm)
0.02578 0.7196 0.5264

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2074	0.1582	0.02835	0.07565	0.2425	0.01240	0	0.2755

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.38 788.4 0.1351 0.2865 0.6879 0.01125 0.003604 0.7029
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5437 0.3745 0.3945 0.03740 0.1350 0.1896
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2612 0.6995 0.6715 0.01976 0.003458 0.3221
k(pl) x(ilm) Q(ilm)
0.02617 0.7196 0.5253

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2098	0.1567	0.02757	0.07707	0.2418	0.01241	0	0.2746

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 790.0 0.1356 0.2877 0.6852 0.01139 0.003647 0.7019
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5417 0.3721 0.3940 0.03751 0.1360 0.1893
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2599 0.6982 0.6690 0.01970 0.003489 0.3225
k(pl) x(ilm) Q(ilm)
0.02656 0.7197 0.5242

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2122	0.1553	0.02678	0.07851	0.2411	0.01242	0	0.2737

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.42 791.5 0.1360 0.2888 0.6826 0.01153 0.003690 0.7009
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5397 0.3698 0.3934 0.03761 0.1370 0.1889
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2585 0.6970 0.6664 0.01965 0.003521 0.3229
k(pl) x(ilm) Q(ilm)
0.02696 0.7198 0.5232

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2146	0.1539	0.02599	0.07996	0.2405	0.01244	0	0.2727

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.44 793.1 0.1365 0.2900 0.6799 0.01167 0.003733 0.6999
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5377 0.3675 0.3929 0.03771 0.1380 0.1886
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2571 0.6957 0.6639 0.01960 0.003552 0.3232
k(pl) x(ilm) Q(ilm)

0.02735 0.7199 0.5223

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2170	0.1524	0.02519	0.08142	0.2398	0.01245	0	0.2718

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.46 794.7 0.1369 0.2911 0.6773 0.01181 0.003775 0.6988
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5357 0.3651 0.3923 0.03781 0.1391 0.1882
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2557 0.6945 0.6613 0.01954 0.003584 0.3236
k(pl) x(ilm) Q(ilm)
0.02774 0.7200 0.5213

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2194	0.1509	0.02438	0.08289	0.2391	0.01247	0	0.2708

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.48 796.2 0.1374 0.2922 0.6748 0.01196 0.003817 0.6977
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5338 0.3627 0.3917 0.03791 0.1401 0.1879
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2543 0.6932 0.6586 0.01949 0.003616 0.3240
k(pl) x(ilm) Q(ilm)
0.02812 0.7201 0.5205

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2219	0.1495	0.02357	0.08437	0.2384	0.01249	0	0.2698

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 797.7 0.1378 0.2933 0.6722 0.01210 0.003858 0.6966
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5318 0.3604 0.3911 0.03801 0.1411 0.1875
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2529 0.6920 0.6560 0.01944 0.003648 0.3244
k(pl) x(ilm) Q(ilm)
0.02851 0.7203 0.5196

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2244	0.1480	0.02275	0.08585	0.2377	0.01251	0	0.2688

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.52 799.3 0.1383 0.2944 0.6697 0.01225 0.003900 0.6955
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5299 0.3580 0.3905 0.03811 0.1421 0.1872
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2514 0.6908 0.6533 0.01939 0.003680 0.3248
k(pl) x(ilm) Q(ilm)
0.02890 0.7205 0.5189

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2269	0.1465	0.02192	0.08735	0.2370	0.01253	0	0.2679

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.54	800.8	0.1387	0.2954	0.6672	0.01240	0.003940	0.6944
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5280	0.3556	0.3899	0.03820	0.1432	0.1868	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2500	0.6896	0.6507	0.01933	0.003712	0.3252	
	k(pl)	x(ilm)	Q(ilm)				
	0.02928	0.7207	0.5181				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2294	0.1449	0.02109	0.08886	0.2363	0.01255	0	0.2669

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.56	802.3	0.1391	0.2965	0.6647	0.01255	0.003981	0.6932
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5261	0.3532	0.3893	0.03830	0.1442	0.1864	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2485	0.6884	0.6479	0.01928	0.003744	0.3256	
	k(pl)	x(ilm)	Q(ilm)				
	0.02966	0.7209	0.5174				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2320	0.1434	0.02024	0.09038	0.2356	0.01258	0	0.2659

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.58	803.8	0.1396	0.2975	0.6622	0.01270	0.004021	0.6921
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5242	0.3508	0.3887	0.03839	0.1452	0.1860	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2470	0.6872	0.6452	0.01923	0.003776	0.3260	
	k(pl)	x(ilm)	Q(ilm)				
	0.03004	0.7212	0.5168				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2345	0.1419	0.01940	0.09191	0.2348	0.01260	0	0.2649

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	805.2	0.1400	0.2985	0.6598	0.01285	0.004060	0.6909
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5223	0.3483	0.3881	0.03849	0.1463	0.1856	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2455	0.6860	0.6425	0.01918	0.003809	0.3263	
	k(pl)	x(ilm)	Q(ilm)				
	0.03042	0.7215	0.5162				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2371	0.1403	0.01854	0.09345	0.2341	0.01263	0	0.2638

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.62	806.7	0.1405	0.2996	0.6574	0.01300	0.004099	0.6897
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5204	0.3459	0.3874	0.03858	0.1473	0.1852	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2441	0.6848	0.6397	0.01913	0.003841	0.3267	
	k(pl)	x(ilm)	Q(ilm)				
	0.03080	0.7218	0.5157				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2397	0.1388	0.01767	0.09500	0.2334	0.01266	0	0.2628

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.64	808.2	0.1409	0.3006	0.6550	0.01315	0.004138	0.6884
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5186	0.3435	0.3868	0.03867	0.1484	0.1848	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2426	0.6836	0.6369	0.01907	0.003874	0.3271	
	k(pl)	x(ilm)	Q(ilm)				
	0.03118	0.7221	0.5152				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2423	0.1372	0.01680	0.09656	0.2326	0.01268	0	0.2618

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.66	809.6	0.1413	0.3016	0.6527	0.01330	0.004176	0.6872
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5168	0.3410	0.3861	0.03875	0.1494	0.1844	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2411	0.6824	0.6341	0.01902	0.003906	0.3275	
	k(pl)	x(ilm)	Q(ilm)				
	0.03155	0.7225	0.5147				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2450	0.1356	0.01592	0.09813	0.2319	0.01271	0	0.2607

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.68	811.1	0.1418	0.3025	0.6503	0.01346	0.004213	0.6859
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5149	0.3386	0.3855	0.03884	0.1505	0.1840	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2395	0.6813	0.6313	0.01897	0.003939	0.3279	
	k(pl)	x(ilm)	Q(ilm)				
	0.03192	0.7229	0.5143				

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2476	0.1340	0.01503	0.09971	0.2312	0.01275	0	0.2597

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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7.70 812.5 0.1422 0.3035 0.6480 0.01361 0.004251 0.6847
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5131 0.3361 0.3848 0.03893 0.1515 0.1835
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2380 0.6801 0.6284 0.01892 0.003972 0.3284
k(pl) x(ilm) Q(ilm)
0.03229 0.7233 0.5140

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2503	0.1324	0.01414	0.1013	0.2304	0.01278	0	0.2587

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.72 813.9 0.1426 0.3045 0.6457 0.01377 0.004287 0.6834
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5113 0.3337 0.3842 0.03901 0.1526 0.1831
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2365 0.6789 0.6255 0.01887 0.004005 0.3288
k(pl) x(ilm) Q(ilm)
0.03266 0.7237 0.5137

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2530	0.1308	0.01323	0.1029	0.2297	0.01281	0	0.2576

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.74 815.3 0.1430 0.3054 0.6435 0.01393 0.004324 0.6820
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5095 0.3312 0.3835 0.03909 0.1537 0.1827
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2349 0.6778 0.6227 0.01882 0.004038 0.3292
k(pl) x(ilm) Q(ilm)
0.03302 0.7241 0.5134

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2557	0.1292	0.01232	0.1045	0.2289	0.01285	0	0.2565

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.76 816.8 0.1435 0.3064 0.6412 0.01408 0.004359 0.6807
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5078 0.3287 0.3829 0.03917 0.1547 0.1822
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2334 0.6766 0.6197 0.01877 0.004071 0.3296
k(pl) x(ilm) Q(ilm)
0.03338 0.7246 0.5132

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2585	0.1275	0.01139	0.1061	0.2281	0.01289	0	0.2555

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.78 818.2 0.1439 0.3073 0.6390 0.01424 0.004394 0.6794
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5060 0.3263 0.3822 0.03925 0.1558 0.1817
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2319 0.6755 0.6168 0.01871 0.004104 0.3300
k(pl) x(ilm) Q(ilm)
0.03374 0.7251 0.5130

mode liq bi cd g pl ilm ky q
0.2613 0.1259 0.01046 0.1078 0.2273 0.01292 0 0.2544

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 819.5 0.1443 0.3082 0.6368 0.01440 0.004429 0.6780
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5042 0.3238 0.3815 0.03933 0.1569 0.1812
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2303 0.6744 0.6138 0.01866 0.004137 0.3304
k(pl) x(ilm) Q(ilm)
0.03410 0.7256 0.5129

mode liq bi cd g pl ilm ky q
0.2640 0.1242 0.009523 0.1094 0.2266 0.01296 0 0.2533

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.82 820.9 0.1447 0.3091 0.6347 0.01457 0.004463 0.6766
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5025 0.3213 0.3809 0.03940 0.1580 0.1807
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2287 0.6732 0.6109 0.01861 0.004170 0.3308
k(pl) x(ilm) Q(ilm)
0.03445 0.7262 0.5128

mode liq bi cd g pl ilm ky q
0.2669 0.1226 0.008573 0.1111 0.2258 0.01301 0 0.2522

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.84 822.3 0.1452 0.3100 0.6325 0.01473 0.004497 0.6752
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5008 0.3188 0.3802 0.03948 0.1591 0.1802
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2272 0.6721 0.6079 0.01856 0.004204 0.3313
k(pl) x(ilm) Q(ilm)
0.03480 0.7267 0.5128

mode liq bi cd g pl ilm ky q
0.2697 0.1209 0.007613 0.1127 0.2250 0.01305 0 0.2511

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.86 823.7 0.1456 0.3109 0.6304 0.01489 0.004530 0.6738
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4991 0.3164 0.3795 0.03955 0.1601 0.1797
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2256 0.6710 0.6049 0.01851 0.004237 0.3317
k(pl) x(ilm) Q(ilm)
0.03515 0.7273 0.5128

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2725	0.1192	0.006644	0.1144	0.2242	0.01309	0	0.2500

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.88 825.1 0.1460 0.3118 0.6283 0.01506 0.004562 0.6723
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4973 0.3139 0.3788 0.03962 0.1612 0.1792
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2240 0.6699 0.6018 0.01846 0.004271 0.3321
k(pl) x(ilm) Q(ilm)
0.03549 0.7279 0.5129

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2754	0.1175	0.005665	0.1161	0.2234	0.01314	0	0.2489

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.90 826.4 0.1464 0.3127 0.6262 0.01522 0.004594 0.6709
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4956 0.3114 0.3782 0.03968 0.1623 0.1787
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2224 0.6687 0.5988 0.01841 0.004304 0.3326
k(pl) x(ilm) Q(ilm)
0.03584 0.7285 0.5130

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2783	0.1158	0.004675	0.1178	0.2225	0.01318	0	0.2477

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.92 827.8 0.1468 0.3135 0.6242 0.01539 0.004625 0.6694
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4940 0.3089 0.3775 0.03975 0.1635 0.1781
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2209 0.6676 0.5957 0.01835 0.004338 0.3330
k(pl) x(ilm) Q(ilm)
0.03618 0.7292 0.5132

mode	liq	bi	cd	g	pl	ilm	ky	q
	0.2812	0.1140	0.003675	0.1195	0.2217	0.01323	0	0.2466

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.94 829.1 0.1472 0.3144 0.6221 0.01556 0.004656 0.6679
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4923 0.3064 0.3768 0.03981 0.1646 0.1775
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2193 0.6665 0.5926 0.01830 0.004372 0.3335
k(pl) x(ilm) Q(ilm)

0.03651 0.7298 0.5134

mode liq bi cd g pl ilm ky q
0.2842 0.1123 0.002664 0.1212 0.2209 0.01328 0 0.2455

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.96 830.5 0.1477 0.3152 0.6201 0.01573 0.004686 0.6664
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4906 0.3039 0.3761 0.03987 0.1657 0.1770
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2177 0.6654 0.5895 0.01825 0.004406 0.3339
k(pl) x(ilm) Q(ilm)
0.03685 0.7305 0.5136

mode liq bi cd g pl ilm ky q
0.2872 0.1106 0.001642 0.1229 0.2201 0.01333 0 0.2443

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.98 831.8 0.1481 0.3160 0.6181 0.01590 0.004716 0.6649
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4889 0.3014 0.3755 0.03993 0.1668 0.1764
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2161 0.6643 0.5863 0.01820 0.004440 0.3344
k(pl) x(ilm) Q(ilm)
0.03718 0.7312 0.5139

mode liq bi cd g pl ilm ky q
0.2902 0.10880 0.0006091 0.1247 0.2192 0.01339 0 0.2432

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 875.2 0.05945 0.3024 0.7278 0.02461 0.002498 0.6153
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6089 0.1958 0.2333 0.06342 0.1927 0.1804
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5016 0.1386 0.03131 0.2289 0.7995 0.05049
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3580 0.01288 0.1028 0.1156 0.3885 2.990e-5

mode liq bi g mu ksp pl ilm ru q
0.2103 0 0.2482 0.05979 0.05697 0.1539 0.003654 0.006205 0.2610

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.01 875.2 0.05938 0.3025 0.7283 0.02458 0.002500 0.6153

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6089 0.1958 0.2330 0.06341 0.1927 0.1804
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5016 0.1387 0.03137 0.2289 0.7992 0.05047
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3582 0.01286 0.1025 0.1157 0.3885 2.989e-5

mode liq bi g mu ksp pl ilm ru q
 0.2101 0 0.2483 0.05995 0.05692 0.1538 0.003644 0.006206 0.2610

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.02 875.2 0.05931 0.3025 0.7287 0.02455 0.002502 0.6154
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6090 0.1958 0.2328 0.06341 0.1927 0.1805
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5016 0.1389 0.03142 0.2289 0.7989 0.05045
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3584 0.01284 0.1022 0.1158 0.3884 2.988e-5

mode liq bi g mu ksp pl ilm ru q
 0.2100 0 0.2483 0.06011 0.05687 0.1538 0.003635 0.006208 0.2611

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.03 875.3 0.05924 0.3025 0.7292 0.02452 0.002504 0.6154
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6091 0.1958 0.2325 0.06340 0.1928 0.1806
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5016 0.1390 0.03148 0.2289 0.7987 0.05043
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3585 0.01282 0.1019 0.1159 0.3884 2.987e-5

mode liq bi g mu ksp pl ilm ru q
 0.2099 0 0.2483 0.06027 0.05681 0.1537 0.003626 0.006209 0.2612

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.04 875.3 0.05917 0.3026 0.7296 0.02448 0.002506 0.6155
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6091 0.1958 0.2322 0.06340 0.1928 0.1807
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5017 0.1392 0.03154 0.2289 0.7984 0.05042
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3587 0.01280 0.1016 0.1160 0.3883 2.986e-5

mode liq bi g mu ksp pl ilm ru q
 0.2097 0 0.2484 0.06042 0.05676 0.1537 0.003616 0.006211 0.2612

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.05 875.3 0.05911 0.3026 0.7301 0.02445 0.002508 0.6155
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6092 0.1958 0.2319 0.06339 0.1928 0.1808

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5017 0.1393 0.03160 0.2289 0.7981 0.05040
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3589 0.01278 0.1013 0.1162 0.3883 2.984e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2096	0	0.2484	0.06058	0.05671	0.1536	0.003607	0.006212	0.2613

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.06 875.4 0.05904 0.3026 0.7305 0.02442 0.002510 0.6155
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6093 0.1958 0.2316 0.06338 0.1928 0.1809
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5017 0.1395 0.03166 0.2289 0.7979 0.05038
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3591 0.01276 0.1010 0.1163 0.3882 2.983e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2095	0	0.2484	0.06074	0.05666	0.1536	0.003597	0.006213	0.2613

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.07 875.4 0.05897 0.3027 0.7310 0.02439 0.002513 0.6156
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6094 0.1957 0.2314 0.06338 0.1928 0.1809
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5018 0.1396 0.03171 0.2289 0.7976 0.05036
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3593 0.01274 0.1007 0.1164 0.3882 2.982e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2093	0	0.2485	0.06090	0.05660	0.1535	0.003588	0.006215	0.2614

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.08 875.4 0.05891 0.3027 0.7314 0.02436 0.002515 0.6156
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6094 0.1957 0.2311 0.06337 0.1928 0.1810
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5018 0.1398 0.03177 0.2289 0.7974 0.05035
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3595 0.01272 0.1004 0.1165 0.3881 2.981e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2092	0	0.2485	0.06105	0.05655	0.1535	0.003578	0.006216	0.2614

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.09 875.5 0.05884 0.3027 0.7319 0.02433 0.002517 0.6156
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6095 0.1957 0.2308 0.06337 0.1928 0.1811
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5018 0.1399 0.03183 0.2289 0.7971 0.05033

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3597 0.01270 0.1001 0.1166 0.3881 2.980e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2091	0	0.2485	0.06121	0.05650	0.1534	0.003569	0.006218	0.2615

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.10 875.5 0.05877 0.3028 0.7323 0.02429 0.002519 0.6157
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6096 0.1957 0.2305 0.06336 0.1929 0.1812
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5019 0.1401 0.03189 0.2289 0.7968 0.05031
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3598 0.01268 0.09977 0.1168 0.3881 2.979e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2089	0	0.2485	0.06137	0.05644	0.1534	0.003560	0.006219	0.2615

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.11 875.5 0.05870 0.3028 0.7328 0.02426 0.002521 0.6157
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6096 0.1957 0.2303 0.06335 0.1929 0.1813
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5019 0.1402 0.03195 0.2289 0.7966 0.05029
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3600 0.01267 0.09947 0.1169 0.3880 2.978e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2088	0	0.2486	0.06153	0.05639	0.1533	0.003550	0.006221	0.2616

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.12 875.6 0.05864 0.3028 0.7332 0.02423 0.002523 0.6157
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6097 0.1957 0.2300 0.06335 0.1929 0.1813
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5019 0.1404 0.03200 0.2289 0.7963 0.05027
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3602 0.01265 0.09918 0.1170 0.3880 2.977e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2087	0	0.2486	0.06168	0.05633	0.1533	0.003541	0.006222	0.2617

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.13 875.6 0.05857 0.3029 0.7336 0.02420 0.002525 0.6158
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6098 0.1957 0.2297 0.06334 0.1929 0.1814
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5019 0.1405 0.03206 0.2289 0.7960 0.05026
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3604 0.01263 0.09889 0.1171 0.3879 2.976e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2085	0	0.2486	0.06184	0.05628	0.1532	0.003531	0.006224	0.2617

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.14	875.6	0.05850	0.3029	0.7341	0.02417	0.002528	0.6158
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6099	0.1957	0.2294	0.06333	0.1929	0.1815	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5020	0.1407	0.03212	0.2289	0.7958	0.05024	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3606	0.01261	0.09859	0.1172	0.3879	2.974e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2084	0	0.2487	0.06200	0.05623	0.1532	0.003522	0.006225	0.2618

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.15	875.6	0.05844	0.3029	0.7345	0.02414	0.002530	0.6159
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6099	0.1957	0.2292	0.06333	0.1929	0.1816	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5020	0.1408	0.03218	0.2289	0.7955	0.05022	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3607	0.01259	0.09830	0.1174	0.3878	2.973e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2083	0	0.2487	0.06215	0.05617	0.1532	0.003513	0.006227	0.2618

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.16	875.7	0.05837	0.3030	0.7350	0.02410	0.002532	0.6159
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6100	0.1957	0.2289	0.06332	0.1929	0.1817	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5020	0.1410	0.03224	0.2289	0.7952	0.05020	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3609	0.01257	0.09801	0.1175	0.3878	2.972e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2081	0	0.2487	0.06231	0.05612	0.1531	0.003503	0.006228	0.2619

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.17	875.7	0.05831	0.3030	0.7354	0.02407	0.002534	0.6159
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6101	0.1956	0.2286	0.06331	0.1929	0.1818	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5021	0.1411	0.03229	0.2289	0.7950	0.05018	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3611	0.01255	0.09772	0.1176	0.3877	2.971e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.2080 0 0.2487 0.06246 0.05606 0.1531 0.003494 0.006230 0.2619

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.18 875.7 0.05824 0.3030 0.7358 0.02404 0.002536 0.6160
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6101 0.1956 0.2283 0.06331 0.1930 0.1818
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5021 0.1413 0.03235 0.2289 0.7947 0.05017
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3613 0.01253 0.09744 0.1177 0.3877 2.970e-5

mode liq bi g mu ksp pl ilm ru q
0.2079 0 0.2488 0.06262 0.05601 0.1530 0.003485 0.006231 0.2620

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.19 875.8 0.05817 0.3031 0.7363 0.02401 0.002538 0.6160
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6102 0.1956 0.2281 0.06330 0.1930 0.1819
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5021 0.1414 0.03241 0.2289 0.7944 0.05015
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3615 0.01251 0.09715 0.1178 0.3877 2.969e-5

mode liq bi g mu ksp pl ilm ru q
0.2078 0 0.2488 0.06277 0.05595 0.1530 0.003475 0.006232 0.2620

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 875.8 0.05811 0.3031 0.7367 0.02398 0.002541 0.6160
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6103 0.1956 0.2278 0.06329 0.1930 0.1820
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5022 0.1415 0.03247 0.2289 0.7942 0.05013
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3616 0.01249 0.09686 0.1180 0.3876 2.968e-5

mode liq bi g mu ksp pl ilm ru q
0.2076 0 0.2488 0.06293 0.05590 0.1529 0.003466 0.006234 0.2621

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.21 875.8 0.05804 0.3031 0.7372 0.02395 0.002543 0.6161
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6103 0.1956 0.2275 0.06329 0.1930 0.1821
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5022 0.1417 0.03252 0.2289 0.7939 0.05011
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3618 0.01247 0.09658 0.1181 0.3876 2.967e-5

mode liq bi g mu ksp pl ilm ru q
0.2075 0 0.2489 0.06308 0.05584 0.1529 0.003457 0.006235 0.2621

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.22    875.9 0.05798 0.3032 0.7376 0.02392 0.002545 0.6161
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6104 0.1956 0.2273 0.06328 0.1930 0.1822
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5022 0.1418 0.03258 0.2289 0.7936 0.05009
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3620 0.01245 0.09629 0.1182 0.3875 2.966e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2074  0 0.2489 0.06324 0.05578 0.1528 0.003447 0.006237 0.2622

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.23    875.9 0.05791 0.3032 0.7380 0.02388 0.002547 0.6162
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6105 0.1956 0.2270 0.06327 0.1930 0.1822
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5023 0.1420 0.03264 0.2289 0.7934 0.05007
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3622 0.01243 0.09601 0.1183 0.3875 2.965e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2072  0 0.2489 0.06339 0.05573 0.1528 0.003438 0.006238 0.2623

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.24    875.9 0.05785 0.3032 0.7385 0.02385 0.002549 0.6162
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6106 0.1956 0.2267 0.06327 0.1930 0.1823
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5023 0.1421 0.03270 0.2289 0.7931 0.05006
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3624 0.01241 0.09572 0.1184 0.3875 2.964e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2071  0 0.2489 0.06355 0.05567 0.1528 0.003429 0.006240 0.2623

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.25    876.0 0.05778 0.3033 0.7389 0.02382 0.002552 0.6162
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6106 0.1956 0.2264 0.06326 0.1931 0.1824
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5023 0.1423 0.03275 0.2289 0.7928 0.05004
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3625 0.01239 0.09544 0.1186 0.3874 2.963e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2070  0 0.2490 0.06370 0.05562 0.1527 0.003420 0.006241 0.2624

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.26    876.0 0.05772 0.3033 0.7393 0.02379 0.002554 0.6163

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6107 0.1956 0.2262 0.06325 0.1931 0.1825
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5023 0.1424 0.03281 0.2289 0.7926 0.05002
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3627 0.01237 0.09516 0.1187 0.3874 2.962e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2068	0	0.2490	0.06386	0.05556	0.1527	0.003410	0.006243	0.2624

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.27 876.0 0.05765 0.3033 0.7398 0.02376 0.002556 0.6163
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6108 0.1956 0.2259 0.06325 0.1931 0.1826
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5024 0.1425 0.03287 0.2289 0.7923 0.05000
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3629 0.01235 0.09488 0.1188 0.3873 2.961e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2067	0	0.2490	0.06401	0.05550	0.1526	0.003401	0.006244	0.2625

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.28 876.1 0.05759 0.3034 0.7402 0.02373 0.002558 0.6164
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6108 0.1956 0.2256 0.06324 0.1931 0.1826
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5024 0.1427 0.03293 0.2289 0.7920 0.04998
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3631 0.01233 0.09460 0.1189 0.3873 2.960e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2066	0	0.2490	0.06416	0.05545	0.1526	0.003392	0.006245	0.2625

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.29 876.1 0.05752 0.3034 0.7406 0.02370 0.002561 0.6164
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6109 0.1955 0.2254 0.06323 0.1931 0.1827
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5024 0.1428 0.03298 0.2289 0.7918 0.04996
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3632 0.01231 0.09432 0.1190 0.3873 2.959e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2065	0	0.2491	0.06432	0.05539	0.1526	0.003383	0.006247	0.2626

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.30 876.1 0.05746 0.3034 0.7410 0.02367 0.002563 0.6164
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6110 0.1955 0.2251 0.06322 0.1931 0.1828

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5025 0.1430 0.03304 0.2289 0.7915 0.04994
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3634 0.01229 0.09404 0.1191 0.3872 2.958e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2063	0	0.2491	0.06447	0.05533	0.1525	0.003373	0.006248	0.2626

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.31 876.2 0.05739 0.3035 0.7415 0.02364 0.002565 0.6165
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6110 0.1955 0.2248 0.06322 0.1931 0.1829
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5025 0.1431 0.03310 0.2290 0.7912 0.04992
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3636 0.01227 0.09376 0.1193 0.3872 2.957e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2062	0	0.2491	0.06462	0.05528	0.1525	0.003364	0.006250	0.2627

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.32 876.2 0.05733 0.3035 0.7419 0.02360 0.002567 0.6165
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6111 0.1955 0.2245 0.06321 0.1932 0.1830
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5025 0.1432 0.03316 0.2290 0.7909 0.04991
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3638 0.01225 0.09349 0.1194 0.3871 2.956e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2061	0	0.2492	0.06478	0.05522	0.1524	0.003355	0.006251	0.2627

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.33 876.2 0.05726 0.3035 0.7423 0.02357 0.002569 0.6166
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6112 0.1955 0.2243 0.06320 0.1932 0.1830
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5026 0.1434 0.03321 0.2290 0.7907 0.04989
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3639 0.01223 0.09321 0.1195 0.3871 2.955e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2060	0	0.2492	0.06493	0.05516	0.1524	0.003346	0.006252	0.2628

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.34 876.3 0.05720 0.3036 0.7427 0.02354 0.002572 0.6166
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6112 0.1955 0.2240 0.06319 0.1932 0.1831
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5026 0.1435 0.03327 0.2290 0.7904 0.04987

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3641 0.01221 0.09294 0.1196 0.3871 2.954e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2058	0	0.2492	0.06508	0.05511	0.1524	0.003337	0.006254	0.2628

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.35 876.3 0.05714 0.3036 0.7432 0.02351 0.002574 0.6166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6113 0.1955 0.2237 0.06319 0.1932 0.1832
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5026 0.1437 0.03333 0.2290 0.7901 0.04985
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3643 0.01219 0.09266 0.1197 0.3870 2.953e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2057	0	0.2492	0.06523	0.05505	0.1523	0.003327	0.006255	0.2629

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.36 876.3 0.05707 0.3036 0.7436 0.02348 0.002576 0.6167
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6114 0.1955 0.2235 0.06318 0.1932 0.1833
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5026 0.1438 0.03338 0.2290 0.7899 0.04983
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3645 0.01217 0.09239 0.1198 0.3870 2.952e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2056	0	0.2493	0.06539	0.05499	0.1523	0.003318	0.006257	0.2629

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.37 876.4 0.05701 0.3037 0.7440 0.02345 0.002579 0.6167
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6114 0.1955 0.2232 0.06317 0.1932 0.1834
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5027 0.1439 0.03344 0.2290 0.7896 0.04981
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3646 0.01215 0.09212 0.1200 0.3869 2.951e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2055	0	0.2493	0.06554	0.05493	0.1522	0.003309	0.006258	0.2630

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.38 876.4 0.05695 0.3037 0.7444 0.02342 0.002581 0.6168
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6115 0.1955 0.2229 0.06316 0.1932 0.1834
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5027 0.1441 0.03350 0.2290 0.7893 0.04979
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3648 0.01213 0.09185 0.1201 0.3869 2.950e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2053	0	0.2493	0.06569	0.05487	0.1522	0.003300	0.006260	0.2630

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.39	876.4	0.05688	0.3037	0.7448	0.02339	0.002583	0.6168
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6116	0.1955	0.2227	0.06315	0.1933	0.1835	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5027	0.1442	0.03356	0.2290	0.7891	0.04977	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3650	0.01211	0.09157	0.1202	0.3869	2.949e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2052	0	0.2493	0.06584	0.05481	0.1522	0.003291	0.006261	0.2631

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.40	876.5	0.05682	0.3038	0.7453	0.02336	0.002585	0.6168
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6116	0.1955	0.2224	0.06315	0.1933	0.1836	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5028	0.1443	0.03361	0.2290	0.7888	0.04975	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3651	0.01210	0.09131	0.1203	0.3868	2.948e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2051	0	0.2494	0.06599	0.05476	0.1521	0.003282	0.006262	0.2631

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.41	876.5	0.05676	0.3038	0.7457	0.02333	0.002588	0.6169
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6117	0.1955	0.2221	0.06314	0.1933	0.1837	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5028	0.1445	0.03367	0.2290	0.7885	0.04974	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3653	0.01208	0.09104	0.1204	0.3868	2.947e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2050	0	0.2494	0.06615	0.05470	0.1521	0.003273	0.006264	0.2632

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.42	876.5	0.05669	0.3038	0.7461	0.02329	0.002590	0.6169
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6117	0.1955	0.2219	0.06313	0.1933	0.1838	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5028	0.1446	0.03373	0.2290	0.7883	0.04972	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3655	0.01206	0.09077	0.1205	0.3867	2.946e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.2048 0 0.2494 0.06630 0.05464 0.1521 0.003263 0.006265 0.2632

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.43 876.6 0.05663 0.3039 0.7465 0.02326 0.002592 0.6170
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6118 0.1955 0.2216 0.06312 0.1933 0.1838
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5029 0.1447 0.03378 0.2290 0.7880 0.04970
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3657 0.01204 0.09050 0.1206 0.3867 2.945e-5

mode liq bi g mu ksp pl ilm ru q
0.2047 0 0.2494 0.06645 0.05458 0.1520 0.003254 0.006267 0.2633

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.44 876.6 0.05657 0.3039 0.7469 0.02323 0.002595 0.6170
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6119 0.1955 0.2213 0.06311 0.1933 0.1839
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5029 0.1449 0.03384 0.2290 0.7877 0.04968
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3658 0.01202 0.09023 0.1208 0.3867 2.944e-5

mode liq bi g mu ksp pl ilm ru q
0.2046 0 0.2494 0.06660 0.05452 0.1520 0.003245 0.006268 0.2633

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.45 876.6 0.05650 0.3039 0.7474 0.02320 0.002597 0.6171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6119 0.1954 0.2211 0.06310 0.1933 0.1840
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5029 0.1450 0.03390 0.2290 0.7874 0.04966
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3660 0.01200 0.08997 0.1209 0.3866 2.943e-5

mode liq bi g mu ksp pl ilm ru q
0.2045 0 0.2495 0.06675 0.05446 0.1520 0.003236 0.006269 0.2634

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.46 876.7 0.05644 0.3040 0.7478 0.02317 0.002599 0.6171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6120 0.1954 0.2208 0.06310 0.1934 0.1841
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5030 0.1451 0.03395 0.2290 0.7872 0.04964
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3662 0.01198 0.08970 0.1210 0.3866 2.942e-5

mode liq bi g mu ksp pl ilm ru q
0.2043 0 0.2495 0.06690 0.05440 0.1519 0.003227 0.006271 0.2634

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.47    876.7  0.05638  0.3040  0.7482  0.02314  0.002602  0.6171
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6121  0.1954  0.2205  0.06309  0.1934  0.1842
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5030  0.1453  0.03401  0.2290  0.7869  0.04962
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3663  0.01196  0.08944  0.1211  0.3866  2.941e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2042  0  0.2495  0.06705  0.05434  0.1519  0.003218  0.006272  0.2635

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.48    876.7  0.05632  0.3040  0.7486  0.02311  0.002604  0.6172
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6121  0.1954  0.2203  0.06308  0.1934  0.1842
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5030  0.1454  0.03407  0.2290  0.7866  0.04960
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3665  0.01194  0.08918  0.1212  0.3865  2.940e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2041  0  0.2495  0.06720  0.05428  0.1518  0.003209  0.006274  0.2635

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.49    876.8  0.05625  0.3041  0.7490  0.02308  0.002606  0.6172
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6122  0.1954  0.2200  0.06307  0.1934  0.1843
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5030  0.1455  0.03412  0.2290  0.7864  0.04958
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3667  0.01192  0.08891  0.1213  0.3865  2.939e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2040  0  0.2496  0.06735  0.05422  0.1518  0.003200  0.006275  0.2636

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.50    876.8  0.05619  0.3041  0.7494  0.02305  0.002609  0.6173
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6122  0.1954  0.2198  0.06306  0.1934  0.1844
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5031  0.1457  0.03418  0.2291  0.7861  0.04956
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3668  0.01190  0.08865  0.1214  0.3865  2.938e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2039  0  0.2496  0.06750  0.05416  0.1518  0.003191  0.006276  0.2636

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.51    876.8  0.05613  0.3041  0.7498  0.02302  0.002611  0.6173

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6123 0.1954 0.2195 0.06305 0.1934 0.1845
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5031 0.1458 0.03424 0.2291 0.7858 0.04954
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3670 0.01188 0.08839 0.1215 0.3864 2.937e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2037	0	0.2496	0.06765	0.05410	0.1518	0.003182	0.006278	0.2637

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.52 876.9 0.05607 0.3042 0.7502 0.02299 0.002613 0.6173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6124 0.1954 0.2192 0.06304 0.1934 0.1846
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5031 0.1459 0.03429 0.2291 0.7855 0.04952
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3672 0.01186 0.08813 0.1217 0.3864 2.936e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2036	0	0.2496	0.06780	0.05404	0.1517	0.003173	0.006279	0.2637

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.53 876.9 0.05601 0.3042 0.7506 0.02296 0.002616 0.6174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6124 0.1954 0.2190 0.06304 0.1935 0.1846
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5032 0.1461 0.03435 0.2291 0.7853 0.04950
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3673 0.01184 0.08787 0.1218 0.3863 2.935e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2035	0	0.2497	0.06795	0.05398	0.1517	0.003164	0.006281	0.2638

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.54 876.9 0.05594 0.3042 0.7510 0.02293 0.002618 0.6174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6125 0.1954 0.2187 0.06303 0.1935 0.1847
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5032 0.1462 0.03441 0.2291 0.7850 0.04948
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3675 0.01182 0.08761 0.1219 0.3863 2.934e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2034	0	0.2497	0.06810	0.05392	0.1517	0.003155	0.006282	0.2638

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.55 877.0 0.05588 0.3043 0.7514 0.02290 0.002620 0.6175
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6126 0.1954 0.2184 0.06302 0.1935 0.1848

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5032 0.1463 0.03446 0.2291 0.7847 0.04946
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3677 0.01180 0.08735 0.1220 0.3863 2.933e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2033	0	0.2497	0.06825	0.05386	0.1516	0.003146	0.006283	0.2639

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.56 877.0 0.05582 0.3043 0.7519 0.02287 0.002623 0.6175
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6126 0.1954 0.2182 0.06301 0.1935 0.1849
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5033 0.1464 0.03452 0.2291 0.7845 0.04944
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3678 0.01178 0.08710 0.1221 0.3862 2.932e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2031	0	0.2497	0.06840	0.05380	0.1516	0.003137	0.006285	0.2639

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.57 877.0 0.05576 0.3044 0.7523 0.02284 0.002625 0.6176
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6127 0.1954 0.2179 0.06300 0.1935 0.1850
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5033 0.1466 0.03457 0.2291 0.7842 0.04942
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3680 0.01176 0.08684 0.1222 0.3862 2.931e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2030	0	0.2497	0.06854	0.05374	0.1516	0.003128	0.006286	0.2640

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.58 877.1 0.05570 0.3044 0.7527 0.02281 0.002628 0.6176
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6127 0.1954 0.2177 0.06299 0.1935 0.1850
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5033 0.1467 0.03463 0.2291 0.7839 0.04940
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3681 0.01174 0.08659 0.1223 0.3862 2.930e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2029	0	0.2498	0.06869	0.05367	0.1515	0.003119	0.006287	0.2640

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.59 877.1 0.05564 0.3044 0.7531 0.02278 0.002630 0.6177
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6128 0.1954 0.2174 0.06298 0.1936 0.1851
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5034 0.1468 0.03469 0.2291 0.7836 0.04938

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3683 0.01172 0.08633 0.1224 0.3861 2.930e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.2028	0	0.2498	0.06884	0.05361	0.1515	0.003110	0.006289	0.2641	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 877.2 0.05558 0.3045 0.7535 0.02275 0.002632 0.6177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6129 0.1954 0.2171 0.06297 0.1936 0.1852
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5034 0.1470 0.03474 0.2291 0.7834 0.04936
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3685 0.01170 0.08608 0.1225 0.3861 2.929e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.2027	0	0.2498	0.06899	0.05355	0.1515	0.003101	0.006290	0.2641	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.61 877.2 0.05551 0.3045 0.7539 0.02272 0.002635 0.6177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6129 0.1954 0.2169 0.06296 0.1936 0.1853
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5034 0.1471 0.03480 0.2291 0.7831 0.04934
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3686 0.01168 0.08582 0.1226 0.3861 2.928e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.2025	0	0.2498	0.06914	0.05349	0.1514	0.003092	0.006292	0.2642	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.62 877.2 0.05545 0.3045 0.7543 0.02269 0.002637 0.6178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6130 0.1954 0.2166 0.06295 0.1936 0.1853
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5034 0.1472 0.03486 0.2291 0.7828 0.04932
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3688 0.01166 0.08557 0.1228 0.3860 2.927e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.2024	0	0.2499	0.06929	0.05343	0.1514	0.003083	0.006293	0.2642	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.63 877.3 0.05539 0.3046 0.7547 0.02266 0.002640 0.6178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6130 0.1954 0.2164 0.06294 0.1936 0.1854
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5035 0.1473 0.03491 0.2292 0.7825 0.04930
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3690 0.01164 0.08532 0.1229 0.3860 2.926e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.2023	0	0.2499	0.06943	0.05336	0.1514	0.003074	0.006294	0.2643	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.64	877.3	0.05533	0.3046	0.7551	0.02263	0.002642	0.6179
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6131	0.1954	0.2161	0.06294	0.1936	0.1855	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5035	0.1475	0.03497	0.2292	0.7823	0.04928	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3691	0.01162	0.08507	0.1230	0.3860	2.925e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.2022	0	0.2499	0.06958	0.05330	0.1514	0.003065	0.006296	0.2643	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.65	877.3	0.05527	0.3046	0.7555	0.02260	0.002644	0.6179
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6132	0.1954	0.2158	0.06293	0.1936	0.1856	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5035	0.1476	0.03502	0.2292	0.7820	0.04926	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3693	0.01160	0.08482	0.1231	0.3859	2.924e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.2021	0	0.2499	0.06973	0.05324	0.1513	0.003056	0.006297	0.2644	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.66	877.4	0.05521	0.3047	0.7558	0.02257	0.002647	0.6180
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6132	0.1954	0.2156	0.06292	0.1937	0.1857	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5036	0.1477	0.03508	0.2292	0.7817	0.04924	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3694	0.01158	0.08457	0.1232	0.3859	2.923e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.2020	0	0.2499	0.06988	0.05318	0.1513	0.003047	0.006298	0.2644	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.67	877.4	0.05515	0.3047	0.7562	0.02254	0.002649	0.6180
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6133	0.1954	0.2153	0.06291	0.1937	0.1857	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5036	0.1478	0.03514	0.2292	0.7814	0.04922	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3696	0.01156	0.08432	0.1233	0.3859	2.922e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.2018 0 0.2500 0.07002 0.05311 0.1513 0.003038 0.006300 0.2645

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.68 877.4 0.05509 0.3047 0.7566 0.02251 0.002652 0.6181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6133 0.1953 0.2151 0.06290 0.1937 0.1858
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5036 0.1480 0.03519 0.2292 0.7812 0.04920
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3697 0.01154 0.08408 0.1234 0.3858 2.921e-5

mode liq bi g mu ksp pl ilm ru q
0.2017 0 0.2500 0.07017 0.05305 0.1512 0.003029 0.006301 0.2645

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.69 877.5 0.05503 0.3048 0.7570 0.02248 0.002654 0.6181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6134 0.1953 0.2148 0.06289 0.1937 0.1859
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5037 0.1481 0.03525 0.2292 0.7809 0.04918
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3699 0.01152 0.08383 0.1235 0.3858 2.921e-5

mode liq bi g mu ksp pl ilm ru q
0.2016 0 0.2500 0.07032 0.05299 0.1512 0.003021 0.006302 0.2645

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.70 877.5 0.05497 0.3048 0.7574 0.02245 0.002657 0.6181
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6135 0.1953 0.2146 0.06288 0.1937 0.1860
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5037 0.1482 0.03530 0.2292 0.7806 0.04916
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3701 0.01150 0.08358 0.1236 0.3858 2.920e-5

mode liq bi g mu ksp pl ilm ru q
0.2015 0 0.2500 0.07046 0.05292 0.1512 0.003012 0.006304 0.2646

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.71 877.5 0.05491 0.3048 0.7578 0.02242 0.002659 0.6182
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6135 0.1953 0.2143 0.06287 0.1937 0.1860
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5037 0.1483 0.03536 0.2292 0.7804 0.04914
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3702 0.01148 0.08334 0.1237 0.3857 2.919e-5

mode liq bi g mu ksp pl ilm ru q
0.2014 0 0.2500 0.07061 0.05286 0.1512 0.003003 0.006305 0.2646

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.72    877.6 0.05485 0.3049 0.7582 0.02239 0.002662 0.6182
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6136 0.1953 0.2140 0.06286 0.1937 0.1861
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5038 0.1485 0.03542 0.2292 0.7801 0.04912
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3704 0.01147 0.08310 0.1238 0.3857 2.918e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2013  0 0.2501 0.07076 0.05280 0.1511 0.002994 0.006306 0.2647

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.73    877.6 0.05479 0.3049 0.7586 0.02236 0.002664 0.6183
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6136 0.1953 0.2138 0.06285 0.1938 0.1862
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5038 0.1486 0.03547 0.2292 0.7798 0.04910
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3705 0.01145 0.08285 0.1239 0.3857 2.917e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2011  0 0.2501 0.07090 0.05273 0.1511 0.002985 0.006308 0.2647

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.74    877.7 0.05473 0.3049 0.7590 0.02233 0.002667 0.6183
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6137 0.1953 0.2135 0.06284 0.1938 0.1863
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5038 0.1487 0.03553 0.2293 0.7795 0.04908
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3707 0.01143 0.08261 0.1240 0.3856 2.916e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2010  0 0.2501 0.07105 0.05267 0.1511 0.002976 0.006309 0.2648

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.75    877.7 0.05467 0.3050 0.7594 0.02230 0.002669 0.6184
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6137 0.1953 0.2133 0.06283 0.1938 0.1864
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5039 0.1488 0.03558 0.2293 0.7793 0.04906
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3708 0.01141 0.08237 0.1242 0.3856 2.915e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.2009  0 0.2501 0.07120 0.05260 0.1511 0.002967 0.006310 0.2648

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.76    877.7 0.05461 0.3050 0.7598 0.02227 0.002671 0.6184

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6138 0.1953 0.2130 0.06282 0.1938 0.1864
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5039 0.1489 0.03564 0.2293 0.7790 0.04904
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3710 0.01139 0.08213 0.1243 0.3856 2.914e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2008	0	0.2501	0.07134	0.05254	0.1510	0.002959	0.006312	0.2649

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.77 877.8 0.05456 0.3051 0.7601 0.02224 0.002674 0.6185
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6139 0.1953 0.2128 0.06281 0.1938 0.1865
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5039 0.1491 0.03569 0.2293 0.7787 0.04902
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3711 0.01137 0.08189 0.1244 0.3855 2.914e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2007	0	0.2502	0.07149	0.05247	0.1510	0.002950	0.006313	0.2649

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.78 877.8 0.05450 0.3051 0.7605 0.02221 0.002676 0.6185
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6139 0.1953 0.2125 0.06280 0.1938 0.1866
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5039 0.1492 0.03575 0.2293 0.7784 0.04900
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3713 0.01135 0.08165 0.1245 0.3855 2.913e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2006	0	0.2502	0.07163	0.05241	0.1510	0.002941	0.006315	0.2650

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.79 877.8 0.05444 0.3051 0.7609 0.02218 0.002679 0.6186
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6140 0.1953 0.2123 0.06279 0.1939 0.1867
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5040 0.1493 0.03580 0.2293 0.7781 0.04898
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3715 0.01133 0.08141 0.1246 0.3855 2.912e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2005	0	0.2502	0.07178	0.05234	0.1510	0.002932	0.006316	0.2650

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.80 877.9 0.05438 0.3052 0.7613 0.02215 0.002681 0.6186
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6140 0.1953 0.2120 0.06278 0.1939 0.1867

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5040 0.1494 0.03586 0.2293 0.7779 0.04896
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3716 0.01131 0.08117 0.1247 0.3854 2.911e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2003	0	0.2502	0.07192	0.05228	0.1509	0.002923	0.006317	0.2651

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.81 877.9 0.05432 0.3052 0.7617 0.02212 0.002684 0.6186
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6141 0.1953 0.2117 0.06277 0.1939 0.1868
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5040 0.1495 0.03592 0.2293 0.7776 0.04894
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3718 0.01129 0.08093 0.1248 0.3854 2.910e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2002	0	0.2502	0.07207	0.05221	0.1509	0.002915	0.006319	0.2651

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.82 878.0 0.05426 0.3052 0.7621 0.02209 0.002687 0.6187
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6141 0.1953 0.2115 0.06276 0.1939 0.1869
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5041 0.1497 0.03597 0.2293 0.7773 0.04892
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3719 0.01127 0.08069 0.1249 0.3854 2.909e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2001	0	0.2503	0.07221	0.05215	0.1509	0.002906	0.006320	0.2651

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.83 878.0 0.05420 0.3053 0.7624 0.02206 0.002689 0.6187
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6142 0.1953 0.2112 0.06275 0.1939 0.1870
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5041 0.1498 0.03603 0.2293 0.7770 0.04889
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3721 0.01125 0.08046 0.1250 0.3853 2.909e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2000	0	0.2503	0.07236	0.05208	0.1509	0.002897	0.006321	0.2652

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.84 878.0 0.05414 0.3053 0.7628 0.02203 0.002692 0.6188
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6142 0.1953 0.2110 0.06273 0.1939 0.1871
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5041 0.1499 0.03608 0.2294 0.7768 0.04887

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3722 0.01123 0.08022 0.1251 0.3853 2.908e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.1999	0	0.2503	0.07250	0.05202	0.1509	0.002888	0.006323	0.2652	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.85 878.1 0.05409 0.3053 0.7632 0.02200 0.002694 0.6188
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6143 0.1953 0.2107 0.06272 0.1939 0.1871
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5042 0.1500 0.03614 0.2294 0.7765 0.04885
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3724 0.01121 0.07999 0.1252 0.3853 2.907e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.1998	0	0.2503	0.07265	0.05195	0.1508	0.002880	0.006324	0.2653	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.86 878.1 0.05403 0.3054 0.7636 0.02197 0.002697 0.6189
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6144 0.1953 0.2105 0.06271 0.1940 0.1872
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5042 0.1501 0.03619 0.2294 0.7762 0.04883
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3725 0.01119 0.07976 0.1253 0.3853 2.906e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.1997	0	0.2503	0.07279	0.05188	0.1508	0.002871	0.006325	0.2653	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.87 878.1 0.05397 0.3054 0.7640 0.02195 0.002699 0.6189
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6144 0.1953 0.2102 0.06270 0.1940 0.1873
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5042 0.1503 0.03625 0.2294 0.7759 0.04881
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3727 0.01117 0.07952 0.1254 0.3852 2.905e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.1996	0	0.2503	0.07294	0.05182	0.1508	0.002862	0.006327	0.2654	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.88 878.2 0.05391 0.3054 0.7643 0.02192 0.002702 0.6190
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6145 0.1953 0.2100 0.06269 0.1940 0.1874
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5043 0.1504 0.03630 0.2294 0.7757 0.04879
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3728 0.01115 0.07929 0.1255 0.3852 2.904e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.1994	0	0.2504	0.07308	0.05175	0.1508	0.002853	0.006328	0.2654	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.89	878.2	0.05385	0.3055	0.7647	0.02189	0.002704	0.6190
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6145	0.1953	0.2097	0.06268	0.1940	0.1874	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5043	0.1505	0.03636	0.2294	0.7754	0.04877	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3730	0.01113	0.07906	0.1256	0.3852	2.904e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.1993	0	0.2504	0.07323	0.05168	0.1508	0.002845	0.006329	0.2655	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.90	878.3	0.05380	0.3055	0.7651	0.02186	0.002707	0.6191
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6146	0.1953	0.2095	0.06267	0.1940	0.1875	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5043	0.1506	0.03641	0.2294	0.7751	0.04875	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3731	0.01111	0.07883	0.1257	0.3851	2.903e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.1992	0	0.2504	0.07337	0.05162	0.1507	0.002836	0.006330	0.2655	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.91	878.3	0.05374	0.3056	0.7655	0.02183	0.002709	0.6191
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6146	0.1953	0.2092	0.06266	0.1940	0.1876	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5043	0.1507	0.03647	0.2294	0.7748	0.04873	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3733	0.01109	0.07860	0.1258	0.3851	2.902e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
0.1991	0	0.2504	0.07351	0.05155	0.1507	0.002827	0.006332	0.2655	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.92	878.3	0.05368	0.3056	0.7658	0.02180	0.002712	0.6192
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6147	0.1953	0.2090	0.06265	0.1941	0.1877	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5044	0.1508	0.03652	0.2295	0.7745	0.04871	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3734	0.01107	0.07837	0.1259	0.3851	2.901e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.1990 0 0.2504 0.07366 0.05148 0.1507 0.002819 0.006333 0.2656

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.93 878.4 0.05362 0.3056 0.7662 0.02177 0.002715 0.6192
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6147 0.1953 0.2087 0.06264 0.1941 0.1877
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5044 0.1510 0.03658 0.2295 0.7743 0.04869
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3735 0.01105 0.07814 0.1260 0.3850 2.900e-5

mode liq bi g mu ksp pl ilm ru q
0.1989 0 0.2504 0.07380 0.05142 0.1507 0.002810 0.006334 0.2656

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.94 878.4 0.05357 0.3057 0.7666 0.02174 0.002717 0.6193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6148 0.1953 0.2085 0.06263 0.1941 0.1878
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5044 0.1511 0.03663 0.2295 0.7740 0.04866
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3737 0.01103 0.07791 0.1261 0.3850 2.899e-5

mode liq bi g mu ksp pl ilm ru q
0.1988 0 0.2505 0.07394 0.05135 0.1507 0.002801 0.006336 0.2657

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.95 878.4 0.05351 0.3057 0.7670 0.02171 0.002720 0.6193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6148 0.1953 0.2082 0.06262 0.1941 0.1879
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5045 0.1512 0.03669 0.2295 0.7737 0.04864
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3738 0.01101 0.07769 0.1262 0.3850 2.899e-5

mode liq bi g mu ksp pl ilm ru q
0.1987 0 0.2505 0.07409 0.05128 0.1506 0.002792 0.006337 0.2657

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.96 878.5 0.05345 0.3057 0.7673 0.02168 0.002722 0.6194
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6149 0.1953 0.2080 0.06260 0.1941 0.1880
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5045 0.1513 0.03674 0.2295 0.7734 0.04862
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3740 0.01100 0.07746 0.1263 0.3850 2.898e-5

mode liq bi g mu ksp pl ilm ru q
0.1986 0 0.2505 0.07423 0.05121 0.1506 0.002784 0.006338 0.2658

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.97    878.5  0.05340  0.3058  0.7677  0.02166  0.002725  0.6194
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6150  0.1953  0.2077  0.06259  0.1941  0.1880
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5045  0.1514  0.03680  0.2295  0.7732  0.04860
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3741  0.01098  0.07724  0.1264  0.3849  2.897e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1985  0  0.2505  0.07437  0.05114  0.1506  0.002775  0.006340  0.2658

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```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.98    878.6  0.05334  0.3058  0.7681  0.02163  0.002728  0.6195
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6150  0.1953  0.2075  0.06258  0.1942  0.1881
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5046  0.1515  0.03685  0.2295  0.7729  0.04858
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3743  0.01096  0.07701  0.1265  0.3849  2.896e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1983  0  0.2505  0.07452  0.05108  0.1506  0.002767  0.006341  0.2658

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.99    878.6  0.05328  0.3058  0.7684  0.02160  0.002730  0.6195
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6151  0.1953  0.2072  0.06257  0.1942  0.1882
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5046  0.1516  0.03691  0.2295  0.7726  0.04856
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3744  0.01094  0.07679  0.1266  0.3849  2.896e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1982  0  0.2505  0.07466  0.05101  0.1506  0.002758  0.006342  0.2659

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
20.00    878.6  0.05323  0.3059  0.7688  0.02157  0.002733  0.6195
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6151  0.1953  0.2070  0.06256  0.1942  0.1883
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5046  0.1517  0.03696  0.2296  0.7723  0.04854
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3746  0.01092  0.07656  0.1267  0.3848  2.895e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1981  0  0.2506  0.07480  0.05094  0.1505  0.002749  0.006344  0.2659

```

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.04 663.8 0.04921 0.1897 0.8764 0.0067570.0006446 0.7023
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7530 0.3969 0.2277 0.03836 0.09327 0.3266
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2649 0.2513 0.8030 0.2144 0.01942 0.3721
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9958 0.8337 0.2247 0.008405 0.6521 0.4934

mode liq bi ep g mu pl ilm ru q H2O
0 0.2065 0.01205 0.06453 0.1144 0.2141 0.005657 0.002668 0.3559 0.02422

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.06 663.1 0.04890 0.1896 0.8767 0.0066460.0006434 0.7041
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7535 0.3996 0.2253 0.03801 0.09296 0.3283
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2652 0.2516 0.8055 0.2162 0.01968 0.3747
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9961 0.8464 0.2206 0.008485 0.6655 0.5164

mode liq bi ep g mu pl ilm ru q H2O
0 0.2081 0.01403 0.06303 0.1164 0.2102 0.005381 0.002696 0.3566 0.02356

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.08 662.5 0.04860 0.1896 0.8772 0.0065460.0006429 0.7054
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7539 0.4016 0.2230 0.03773 0.09270 0.3299
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2655 0.2519 0.8074 0.2178 0.01991 0.3766
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9963 0.8552 0.2169 0.008544 0.6743 0.5311

mode liq bi ep g mu pl ilm ru q H2O
0 0.2092 0.01560 0.06203 0.1181 0.2070 0.005121 0.002740 0.3571 0.02305

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 661.9 0.04831 0.1896 0.8778 0.0064540.0006426 0.7065
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7543 0.4032 0.2208 0.03749 0.09246 0.3315
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2658 0.2522 0.8090 0.2192 0.02014 0.3781
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9965 0.8620 0.2134 0.008590 0.6811 0.5424

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
0	0.2100	0.01696	0.06127	0.1196	0.2043	0.004873	0.002791	0.3575	0.02261	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
12.12	661.4	0.04804	0.1896	0.8785	0.0063670	0.0006424	0.7075			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7547	0.4046	0.2185	0.03727	0.09223	0.3331				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2661	0.2525	0.8104	0.2205	0.02036	0.3795				
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)				
	0.9966	0.8677	0.2100	0.008630	0.6867	0.5516				

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
0	0.2108	0.01818	0.06065	0.1210	0.2018	0.004635	0.002844	0.3578	0.02221	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
12.14	660.8	0.04777	0.1896	0.8791	0.0062830	0.0006423	0.7083			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7551	0.4059	0.2163	0.03706	0.09202	0.3346				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2664	0.2528	0.8117	0.2218	0.02058	0.3807				
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)				
	0.9967	0.8725	0.2068	0.008665	0.6915	0.5594				

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
0	0.2114	0.01930	0.06013	0.1223	0.1996	0.004405	0.002899	0.3581	0.02185	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
12.16	660.3	0.04750	0.1895	0.8798	0.0062030	0.0006424	0.7091			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7555	0.4070	0.2142	0.03686	0.09181	0.3361				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2667	0.2531	0.8129	0.2231	0.02079	0.3818				
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)				
	0.9968	0.8768	0.2037	0.008696	0.6958	0.5663				

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
0	0.2120	0.02033	0.05967	0.1236	0.1974	0.004183	0.002956	0.3584	0.02151	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
12.18	659.8	0.04724	0.1895	0.8805	0.0061260	0.0006424	0.7098			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7559	0.4081	0.2121	0.03667	0.09162	0.3375				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2670	0.2534	0.8140	0.2243	0.02101	0.3828				
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)				
	0.9968	0.8805	0.2007	0.008723	0.6996	0.5725				

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
0	0.2125	0.02130	0.05927	0.1247	0.1954	0.003968	0.003012	0.3586	0.02119	

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.20    659.4  0.04699  0.1895  0.8811  0.0060510.0006425  0.7105
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7563  0.4091  0.2100  0.03649  0.09142  0.3390
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2673  0.2537  0.8151  0.2255  0.02122  0.3838
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9969  0.8839  0.1978  0.008748  0.7031  0.5780

mode      liq    bi    ep    g    mu    pl    ilm    ru    q    H2O
0  0.2129  0.02221  0.05892  0.1259  0.1935  0.003759  0.003069  0.3589  0.02089

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.22    658.9  0.04674  0.1894  0.8818  0.0059780.0006427  0.7111
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7567  0.4100  0.2080  0.03631  0.09123  0.3404
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2677  0.2540  0.8161  0.2267  0.02143  0.3847
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9969  0.8870  0.1950  0.008770  0.7063  0.5831

mode      liq    bi    ep    g    mu    pl    ilm    ru    q    H2O
0  0.2133  0.02307  0.05859  0.1270  0.1917  0.003556  0.003126  0.3591  0.02060

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.24    658.5  0.04649  0.1894  0.8825  0.0059080.0006428  0.7117
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7570  0.4109  0.2060  0.03614  0.09105  0.3418
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2680  0.2543  0.8171  0.2278  0.02164  0.3855
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9970  0.8899  0.1922  0.008791  0.7093  0.5878

mode      liq    bi    ep    g    mu    pl    ilm    ru    q    H2O
0  0.2137  0.02388  0.05830  0.1280  0.1900  0.003358  0.003182  0.3592  0.02033

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```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.26    658.0  0.04625  0.1894  0.8831  0.0058390.0006430  0.7123
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7574  0.4118  0.2040  0.03597  0.09087  0.3432
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2683  0.2546  0.8180  0.2290  0.02185  0.3863
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9970  0.8925  0.1895  0.008810  0.7120  0.5921

mode      liq    bi    ep    g    mu    pl    ilm    ru    q    H2O
0  0.2141  0.02466  0.05803  0.1290  0.1883  0.003165  0.003238  0.3594  0.02007

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

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12.28 657.6 0.04601 0.1893 0.8838 0.0057730.0006432 0.7128
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7578 0.4126 0.2021 0.03581 0.09070 0.3445
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2686 0.2549 0.8189 0.2301 0.02206 0.3871
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9970 0.8950 0.1869 0.008827 0.7146 0.5961

mode liq bi ep g mu pl ilm ru q H2O
 0 0.2145 0.02540 0.05778 0.1300 0.1867 0.002976 0.003294 0.3596 0.01982

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.30 657.2 0.04578 0.1893 0.8844 0.0057080.0006434 0.7133
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7581 0.4133 0.2002 0.03565 0.09053 0.3459
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2689 0.2552 0.8198 0.2312 0.02228 0.3879
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9970 0.8973 0.1843 0.008842 0.7170 0.5999

mode liq bi ep g mu pl ilm ru q H2O
 0 0.2148 0.02610 0.05755 0.1309 0.1852 0.002792 0.003349 0.3597 0.01957

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.32 656.8 0.04555 0.1892 0.8851 0.0056440.0006436 0.7138
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7585 0.4141 0.1983 0.03549 0.09036 0.3472
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2693 0.2555 0.8207 0.2323 0.02249 0.3886
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9971 0.8994 0.1818 0.008856 0.7192 0.6034

mode liq bi ep g mu pl ilm ru q H2O
 0 0.2151 0.02678 0.05733 0.1319 0.1837 0.002613 0.003404 0.3599 0.01934

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.34 656.3 0.04532 0.1892 0.8857 0.0055820.0006438 0.7143
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7588 0.4148 0.1964 0.03533 0.09019 0.3485
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2696 0.2558 0.8215 0.2334 0.02270 0.3893
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9971 0.9014 0.1794 0.008869 0.7213 0.6067

mode liq bi ep g mu pl ilm ru q H2O
 0 0.2154 0.02742 0.05713 0.1328 0.1822 0.002437 0.003458 0.3600 0.01911

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.36 655.9 0.04509 0.1891 0.8863 0.0055210.0006441 0.7148
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7592 0.4155 0.1946 0.03518 0.09003 0.3498
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2699 0.2561 0.8223 0.2345 0.02291 0.3900
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.9033 0.1770 0.008881 0.7233 0.6099

mode liq bi ep g mu pl ilm ru q H2O
0 0.2157 0.02804 0.05694 0.1337 0.1808 0.002265 0.003511 0.3601 0.01889

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.38 655.6 0.04487 0.1891 0.8869 0.005462 0.0006443 0.7153
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7595 0.4161 0.1928 0.03503 0.08987 0.3510
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2702 0.2564 0.8231 0.2355 0.02313 0.3906
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.9051 0.1747 0.008892 0.7252 0.6128

mode liq bi ep g mu pl ilm ru q H2O
0 0.2160 0.02864 0.05675 0.1345 0.1795 0.002097 0.003564 0.3603 0.01868

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 655.2 0.04465 0.1890 0.8875 0.005404 0.0006445 0.7157
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7599 0.4168 0.1911 0.03488 0.08971 0.3523
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2705 0.2567 0.8238 0.2366 0.02334 0.3913
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.9068 0.1724 0.008901 0.7271 0.6156

mode liq bi ep g mu pl ilm ru q H2O
0 0.2163 0.02921 0.05658 0.1353 0.1782 0.001932 0.003617 0.3604 0.01847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.42 654.8 0.04443 0.1889 0.8881 0.005347 0.0006447 0.7162
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7602 0.4174 0.1893 0.03474 0.08955 0.3535
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2709 0.2570 0.8246 0.2376 0.02356 0.3919
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.9085 0.1701 0.008910 0.7288 0.6183

mode liq bi ep g mu pl ilm ru q H2O
0 0.2165 0.02976 0.05642 0.1362 0.1769 0.001771 0.003669 0.3605 0.01827

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.44 654.4 0.04422 0.1889 0.8887 0.005291 0.0006449 0.7166
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7606 0.4180 0.1876 0.03459 0.08940 0.3547
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2712 0.2573 0.8253 0.2387 0.02377 0.3925
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9100 0.1679 0.008917 0.7304 0.6208

mode liq bi ep g mu pl ilm ru q H2O
0 0.2168 0.03029 0.05627 0.1370 0.1757 0.001613 0.003720 0.3606 0.01808

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.46 654.0 0.04401 0.1888 0.8893 0.0052370.0006452 0.7170
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7609 0.4186 0.1859 0.03445 0.08925 0.3559
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2715 0.2576 0.8260 0.2397 0.02399 0.3931
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9115 0.1658 0.008924 0.7320 0.6232

mode liq bi ep g mu pl ilm ru q H2O
0 0.2170 0.03080 0.05612 0.1377 0.1745 0.001458 0.003770 0.3607 0.01789

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.48 653.7 0.04380 0.1887 0.8899 0.0051830.0006454 0.7174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7612 0.4192 0.1842 0.03431 0.08910 0.3571
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2718 0.2579 0.8267 0.2407 0.02421 0.3937
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9129 0.1636 0.008929 0.7335 0.6256

mode liq bi ep g mu pl ilm ru q H2O
0 0.2173 0.03130 0.05598 0.1385 0.1733 0.001306 0.003820 0.3608 0.01770

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 653.3 0.04359 0.1887 0.8904 0.0051310.0006456 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7616 0.4198 0.1826 0.03417 0.08895 0.3583
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2722 0.2582 0.8274 0.2417 0.02443 0.3942
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9143 0.1616 0.008934 0.7349 0.6278

mode liq bi ep g mu pl ilm ru q H2O
0 0.2175 0.03178 0.05584 0.1392 0.1722 0.001157 0.003870 0.3609 0.01752

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.52 653.0 0.04338 0.1886 0.8910 0.0050790.0006458 0.7182
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7619 0.4204 0.1810 0.03403 0.08881 0.3594
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2725 0.2585 0.8280 0.2427 0.02465 0.3948
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9972 0.9156 0.1595 0.008938 0.7363 0.6299

mode liq bi ep g mu pl ilm ru q H2O
0 0.2177 0.03224 0.05571 0.1400 0.1711 0.001011 0.003918 0.3610 0.01734

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.54 652.6 0.04318 0.1885 0.8915 0.0050290.0006460 0.7186
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7622 0.4209 0.1794 0.03390 0.08866 0.3606
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2728 0.2588 0.8287 0.2438 0.02487 0.3953
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9168 0.1575 0.008941 0.7376 0.6319

mode liq bi ep g mu pl ilm ru q H2O
0 0.2179 0.03268 0.05559 0.1407 0.17000.0008674 0.003967 0.3611 0.01717

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.56 652.2 0.04298 0.1885 0.8921 0.0049790.0006462 0.7189
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7626 0.4214 0.1778 0.03376 0.08852 0.3617
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2731 0.2591 0.8293 0.2448 0.02509 0.3959
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9180 0.1556 0.008944 0.7388 0.6338

mode liq bi ep g mu pl ilm ru q H2O
0 0.2181 0.03311 0.05547 0.1414 0.16900.0007266 0.004014 0.3612 0.01700

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.58 651.9 0.04278 0.1884 0.8926 0.0049310.0006464 0.7193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7629 0.4220 0.1762 0.03363 0.08838 0.3628
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2735 0.2594 0.8300 0.2457 0.02531 0.3964
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9192 0.1536 0.008946 0.7400 0.6357

mode liq bi ep g mu pl ilm ru q H2O
0 0.2183 0.03353 0.05535 0.1421 0.16790.0005882 0.004061 0.3613 0.01684

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 651.6 0.04258 0.1883 0.8931 0.0048830.0006466 0.7197
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7632 0.4225 0.1747 0.03350 0.08824 0.3639
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2738 0.2597 0.8306 0.2467 0.02554 0.3969
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9203 0.1517 0.008947 0.7411 0.6374

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mode   liq   bi   ep   g   mu   pl   ilm   ru   q   H2O
      0 0.2185 0.03394 0.05524 0.1428 0.16690.0004524 0.004107 0.3613 0.01667
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.62  651.2 0.04239 0.1882 0.8936 0.0048360.0006468 0.7200
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7636 0.4230 0.1732 0.03337 0.08810 0.3650
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2741 0.2600 0.8312 0.2477 0.02576 0.3974
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9972 0.9214 0.1499 0.008947 0.7423 0.6391

mode   liq   bi   ep   g   mu   pl   ilm   ru   q   H2O
      0 0.2187 0.03433 0.05513 0.1434 0.16600.0003189 0.004153 0.3614 0.01652
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.64  650.9 0.04219 0.1882 0.8941 0.0047890.0006470 0.7203
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7639 0.4235 0.1717 0.03324 0.08797 0.3661
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2744 0.2603 0.8318 0.2487 0.02599 0.3979
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9972 0.9224 0.1481 0.008947 0.7433 0.6408

mode   liq   bi   ep   g   mu   pl   ilm   ru   q   H2O
      0 0.2189 0.03471 0.05502 0.1441 0.16500.0001877 0.004198 0.3615 0.01636
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.66  650.6 0.04200 0.1881 0.8946 0.0047440.0006472 0.7207
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7642 0.4240 0.1702 0.03311 0.08783 0.3671
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2748 0.2606 0.8324 0.2497 0.02622 0.3984
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9972 0.9234 0.1463 0.008946 0.7443 0.6424

mode   liq   bi   ep   g   mu   pl   ilm   ru   q   H2O
      0 0.2191 0.03508 0.05492 0.1447 0.1641 5.874e-5 0.004243 0.3616 0.01621
calcs use:

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2   O
  6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.02  664.9 0.04959 0.1897 0.8769 0.0069070.0006477 0.6988
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7524 0.3916 0.2302 0.03894 0.09374 0.3248

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f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2647 0.2511 0.7985 0.2116 0.01907 0.3672
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9961 0.8442 0.2301 0.008247 0.6124 0.4201

mode liq bi ep g mu pl ilm ru q H2O
0.05685 0.2027 0.01480 0.06941 0.1141 0.1861 0.004519 0.003114 0.3483 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.04 664.2 0.04927 0.1897 0.8775 0.0067950.0006471 0.7003
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7529 0.3938 0.2277 0.03865 0.09344 0.3266
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2650 0.2514 0.8006 0.2133 0.01932 0.3693
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9964 0.8541 0.2259 0.008312 0.6366 0.4659

mode liq bi ep g mu pl ilm ru q H2O
0.05541 0.2040 0.01646 0.06795 0.1161 0.1834 0.004401 0.003080 0.3492 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.06 663.6 0.04896 0.1897 0.8781 0.0066920.0006469 0.7015
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7533 0.3956 0.2253 0.03839 0.09318 0.3283
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2654 0.2518 0.8024 0.2148 0.01955 0.3710
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9965 0.8614 0.2221 0.008364 0.6497 0.4894

mode liq bi ep g mu pl ilm ru q H2O
0.05422 0.2051 0.01783 0.06692 0.1177 0.1811 0.004223 0.003093 0.3498 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.08 663.0 0.04867 0.1897 0.8788 0.0065950.0006468 0.7026
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7537 0.3972 0.2229 0.03815 0.09294 0.3300
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2657 0.2521 0.8041 0.2162 0.01978 0.3725
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9966 0.8674 0.2184 0.008409 0.6592 0.5060

mode liq bi ep g mu pl ilm ru q H2O
0.05316 0.2059 0.01904 0.06611 0.1192 0.1790 0.004034 0.003121 0.3504 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 662.4 0.04839 0.1897 0.8794 0.0065040.0006468 0.7035
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7541 0.3986 0.2206 0.03793 0.09271 0.3316
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2661 0.2524 0.8055 0.2176 0.02000 0.3738

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9967 0.8724 0.2149 0.008448 0.6669 0.5191

mode liq bi ep g mu pl ilm ru q H2O
0.05220 0.2067 0.02013 0.06542 0.1205 0.1771 0.003845 0.003156 0.3509 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.12 661.9 0.04811 0.1896 0.8801 0.0064160.0006468 0.7044
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7545 0.3999 0.2183 0.03772 0.09248 0.3332
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2664 0.2527 0.8069 0.2189 0.02022 0.3750
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9968 0.8767 0.2116 0.008484 0.6733 0.5299

mode liq bi ep g mu pl ilm ru q H2O
0.05131 0.2074 0.02114 0.06482 0.1218 0.1754 0.003657 0.003196 0.3513 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.14 661.3 0.04784 0.1896 0.8808 0.0063310.0006469 0.7052
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7549 0.4011 0.2161 0.03752 0.09227 0.3348
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2667 0.2531 0.8082 0.2202 0.02044 0.3762
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9969 0.8806 0.2083 0.008515 0.6789 0.5392

mode liq bi ep g mu pl ilm ru q H2O
0.05047 0.2080 0.02208 0.06429 0.1231 0.1737 0.003471 0.003238 0.3517 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.16 660.8 0.04757 0.1896 0.8815 0.0062500.0006471 0.7060
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7553 0.4022 0.2139 0.03732 0.09206 0.3363
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2671 0.2534 0.8094 0.2214 0.02066 0.3773
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9969 0.8841 0.2052 0.008545 0.6838 0.5473

mode liq bi ep g mu pl ilm ru q H2O
0.04968 0.2085 0.02297 0.06381 0.1242 0.1721 0.003289 0.003282 0.3521 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.18 660.3 0.04731 0.1896 0.8822 0.0061710.0006472 0.7067
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7557 0.4033 0.2118 0.03713 0.09186 0.3379
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2674 0.2537 0.8105 0.2227 0.02087 0.3783
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9970 0.8872 0.2021 0.008571 0.6882 0.5545

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O	
	0.04893	0.2090	0.02380	0.06337	0.1254	0.1706	0.003110	0.003327	0.3524	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.20	659.9	0.04705	0.1895	0.8829	0.0060950	0.0006474	0.7074	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7561	0.4043	0.2097	0.03694	0.09167	0.3393		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2677	0.2540	0.8116	0.2239	0.02109	0.3792		
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
	0.9970	0.8901	0.1992	0.008596	0.6922	0.5611		

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O	
	0.04821	0.2095	0.02458	0.06297	0.1265	0.1692	0.002934	0.003373	0.3527	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.22	659.4	0.04680	0.1895	0.8836	0.0060210	0.0006476	0.7080	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7565	0.4052	0.2076	0.03676	0.09148	0.3408		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2681	0.2543	0.8127	0.2251	0.02130	0.3801		
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
	0.9970	0.8927	0.1963	0.008618	0.6959	0.5670		

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O	
	0.04753	0.2100	0.02533	0.06260	0.1275	0.1678	0.002762	0.003419	0.3530	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.24	658.9	0.04655	0.1895	0.8842	0.0059490	0.0006478	0.7086	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7568	0.4061	0.2056	0.03659	0.09129	0.3422		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2684	0.2546	0.8137	0.2262	0.02151	0.3810		
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
	0.9971	0.8952	0.1935	0.008639	0.6993	0.5724		

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O	
	0.04687	0.2104	0.02604	0.06226	0.1285	0.1665	0.002594	0.003466	0.3533	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.26	658.5	0.04631	0.1894	0.8849	0.0058790	0.0006480	0.7092	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7572	0.4070	0.2036	0.03641	0.09111	0.3436		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.2687	0.2549	0.8147	0.2274	0.02173	0.3819		
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
	0.9971	0.8975	0.1908	0.008658	0.7025	0.5775		

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
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0.04623 0.2108 0.02671 0.06193 0.1295 0.1653 0.002428 0.003513 0.3536 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.28 658.1 0.04607 0.1894 0.8855 0.0058110.0006482 0.7098
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7576 0.4078 0.2017 0.03624 0.09093 0.3450
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2690 0.2552 0.8156 0.2285 0.02194 0.3827
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.8997 0.1881 0.008676 0.7054 0.5821

mode liq bi ep g mu pl ilm ru q H2O
0.04562 0.2112 0.02736 0.06163 0.1305 0.1640 0.002266 0.003560 0.3538 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 657.6 0.04583 0.1893 0.8862 0.0057440.0006485 0.7104
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7579 0.4087 0.1997 0.03608 0.09075 0.3464
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2694 0.2555 0.8165 0.2297 0.02216 0.3835
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.9017 0.1855 0.008692 0.7081 0.5865

mode liq bi ep g mu pl ilm ru q H2O
0.04503 0.2116 0.02798 0.06134 0.1314 0.1629 0.002107 0.003606 0.3541 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.32 657.2 0.04560 0.1893 0.8868 0.0056800.0006487 0.7109
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7583 0.4094 0.1978 0.03591 0.09058 0.3477
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2697 0.2558 0.8174 0.2308 0.02237 0.3842
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9036 0.1830 0.008708 0.7107 0.5906

mode liq bi ep g mu pl ilm ru q H2O
0.04446 0.2119 0.02857 0.06107 0.1323 0.1617 0.001951 0.003653 0.3543 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.34 656.8 0.04537 0.1892 0.8874 0.0056160.0006489 0.7114
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7587 0.4102 0.1960 0.03575 0.09041 0.3490
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2700 0.2561 0.8183 0.2319 0.02258 0.3850
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9054 0.1805 0.008722 0.7131 0.5944

mode liq bi ep g mu pl ilm ru q H2O
0.04391 0.2123 0.02914 0.06081 0.1332 0.1606 0.001798 0.003699 0.3546 0

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.36    656.4  0.04514  0.1892  0.8880  0.0055550  0.0006491  0.7119
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7590  0.4109  0.1942  0.03559  0.09025  0.3503
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2703  0.2564  0.8191  0.2330  0.02280  0.3857
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9972  0.9071  0.1780  0.008734  0.7154  0.5980

mode  liq  bi  ep  g  mu  pl  ilm  ru  q  H2O
      0.04337  0.2126  0.02969  0.06057  0.1340  0.1596  0.001648  0.003745  0.3548  0

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.38    656.0  0.04492  0.1891  0.8886  0.0054940  0.0006493  0.7124
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7594  0.4117  0.1924  0.03544  0.09008  0.3516
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2706  0.2567  0.8200  0.2341  0.02302  0.3864
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9972  0.9087  0.1757  0.008746  0.7176  0.6014

mode  liq  bi  ep  g  mu  pl  ilm  ru  q  H2O
      0.04285  0.2129  0.03022  0.06033  0.1349  0.1585  0.001500  0.003791  0.3550  0

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.40    655.6  0.04470  0.1891  0.8892  0.0054350  0.0006495  0.7129
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7597  0.4124  0.1906  0.03528  0.08992  0.3528
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2710  0.2570  0.8208  0.2351  0.02323  0.3871
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9972  0.9103  0.1733  0.008757  0.7196  0.6046

mode  liq  bi  ep  g  mu  pl  ilm  ru  q  H2O
      0.04234  0.2133  0.03072  0.06011  0.1357  0.1575  0.001356  0.003836  0.3552  0

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.42    655.2  0.04448  0.1890  0.8898  0.0053770  0.0006497  0.7134
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7601  0.4130  0.1888  0.03513  0.08976  0.3541
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2713  0.2573  0.8215  0.2362  0.02345  0.3877
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9972  0.9117  0.1711  0.008766  0.7216  0.6077

mode  liq  bi  ep  g  mu  pl  ilm  ru  q  H2O
      0.04184  0.2135  0.03121  0.05989  0.1365  0.1566  0.001213  0.003881  0.3554  0

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.44    654.8  0.04426  0.1890  0.8903  0.0053210  0.0006500  0.7138

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7604 0.4137 0.1871 0.03498 0.08960 0.3553
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2716 0.2576 0.8223 0.2373 0.02367 0.3884
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9972 0.9131 0.1688 0.008775 0.7235 0.6106

mode liq bi ep g mu pl ilm ru q H2O
 0.04136 0.2138 0.03168 0.05968 0.1373 0.1556 0.001074 0.003926 0.3556 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.46 654.4 0.04405 0.1889 0.8909 0.005265 0.0006502 0.7143
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7607 0.4144 0.1854 0.03483 0.08945 0.3565
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2719 0.2579 0.8231 0.2383 0.02389 0.3890
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9972 0.9145 0.1666 0.008783 0.7252 0.6133

mode liq bi ep g mu pl ilm ru q H2O
 0.04089 0.2141 0.03214 0.05949 0.1380 0.1547 0.0009366 0.003970 0.3557 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.48 654.1 0.04384 0.1888 0.8914 0.005211 0.0006504 0.7147
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7611 0.4150 0.1837 0.03469 0.08930 0.3577
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2723 0.2582 0.8238 0.2394 0.02411 0.3897
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9972 0.9158 0.1645 0.008790 0.7269 0.6159

mode liq bi ep g mu pl ilm ru q H2O
 0.04043 0.2144 0.03258 0.05929 0.1388 0.1538 0.0008018 0.004014 0.3559 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.50 653.7 0.04363 0.1888 0.8920 0.005157 0.0006506 0.7151
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7614 0.4156 0.1821 0.03454 0.08915 0.3589
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2726 0.2585 0.8245 0.2404 0.02433 0.3903
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9972 0.9170 0.1624 0.008796 0.7285 0.6184

mode liq bi ep g mu pl ilm ru q H2O
 0.03999 0.2147 0.03300 0.05911 0.1395 0.1529 0.0006693 0.004058 0.3561 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.52 653.3 0.04342 0.1887 0.8925 0.005105 0.0006508 0.7156
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7618 0.4162 0.1805 0.03440 0.08900 0.3600

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2729 0.2588 0.8252 0.2414 0.02455 0.3909
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9972 0.9182 0.1603 0.008802 0.7301 0.6208

mode liq bi ep g mu pl ilm ru q H2O
 0.03955 0.2149 0.03342 0.05893 0.1402 0.15210.0005391 0.004101 0.3563 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.54 653.0 0.04322 0.1886 0.8931 0.0050540.0006510 0.7160
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7621 0.4168 0.1789 0.03426 0.08885 0.3612
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2732 0.2591 0.8259 0.2425 0.02477 0.3914
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9972 0.9194 0.1583 0.008806 0.7315 0.6231

mode liq bi ep g mu pl ilm ru q H2O
 0.03912 0.2152 0.03381 0.05876 0.1409 0.15120.0004110 0.004143 0.3564 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.56 652.6 0.04301 0.1885 0.8936 0.0050030.0006511 0.7164
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7624 0.4174 0.1773 0.03412 0.08871 0.3623
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2735 0.2594 0.8266 0.2435 0.02499 0.3920
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9972 0.9205 0.1563 0.008810 0.7329 0.6253

mode liq bi ep g mu pl ilm ru q H2O
 0.03870 0.2154 0.03420 0.05859 0.1416 0.15040.0002850 0.004185 0.3566 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.58 652.3 0.04281 0.1885 0.8941 0.0049540.0006513 0.7168
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7628 0.4180 0.1757 0.03398 0.08856 0.3634
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2739 0.2597 0.8273 0.2445 0.02522 0.3926
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9972 0.9216 0.1544 0.008813 0.7343 0.6274

mode liq bi ep g mu pl ilm ru q H2O
 0.03829 0.2157 0.03457 0.05843 0.1423 0.14960.0001611 0.004227 0.3567 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 651.9 0.04262 0.1884 0.8946 0.0049050.0006515 0.7172
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7631 0.4185 0.1742 0.03384 0.08842 0.3645
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2742 0.2600 0.8279 0.2455 0.02544 0.3931

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9226 0.1524 0.008815 0.7356 0.6294

mode liq bi ep g mu pl ilm ru q H2O
0.03789 0.2159 0.03493 0.05827 0.1430 0.1489 3.914e-5 0.004268 0.3569 0
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.15 687.3 0.1135 0.2181 0.8329 0.004698 0.001384 0.7368
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6530 0.4927 0.4158 0.03053 0.08457 0.2020
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3239 0.7571 0.7880 0.02052 0.001847 0.2674
k(pl) x(ilm) Q(ilm)
0.01003 0.7384 0.6166

mode liq bi cd g pl ilm ky q H2O
0 0.2229 0.06704 0.006937 0.3151 0.01297 0 0.3390 0.03605
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, cd, g, pl, ilm, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.32 691.4 0.1135 0.2147 0.8312 0.005462 0.001459 0.7259
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6555 0.4685 0.4021 0.03195 0.08719 0.2124
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3078 0.7636 0.7738 0.02320 0.002011 0.3045
k(pl) x(ilm) Q(ilm)
0.008906 0.7417 0.6195

mode liq bi cd g pl ilm ky q H2O
0.1188 0.2087 0.06022 0.02007 0.2707 0.01317 0 0.3083 0
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196
<=====>
phases : liq, bi, cd, g, pl, ilm, ky, q, H2O


```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.28  690.5  0.1135  0.2155  0.8317  0.005287  0.001442  0.7282
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6550  0.4736  0.4049  0.03165  0.08661  0.2103
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.3111  0.7622  0.7769  0.02260  0.001974  0.2962
      k(pl)  x(ilm)  Q(ilm)
      0.009136  0.7410  0.6190

```

```

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
      0.09453  0.2116  0.06164  0.01735  0.2797  0.01313  0  0.3146  0.007405

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.29  690.7  0.1135  0.2153  0.8316  0.005334  0.001446  0.7276
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6552  0.4723  0.4041  0.03173  0.08677  0.2109
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.3102  0.7626  0.7760  0.02276  0.001984  0.2984
      k(pl)  x(ilm)  Q(ilm)
      0.009073  0.7412  0.6191

```

```

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
      0.1011  0.2108  0.06126  0.01809  0.2772  0.01314  0  0.3129  0.005389

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.30  691.0  0.1135  0.2151  0.8314  0.005381  0.001451  0.7270
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6553  0.4709  0.4034  0.03181  0.08692  0.2114
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.3093  0.7630  0.7752  0.02292  0.001994  0.3006
      k(pl)  x(ilm)  Q(ilm)
      0.009011  0.7414  0.6193

```

```

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
      0.1077  0.2100  0.06087  0.01882  0.2748  0.01315  0  0.3112  0.003389

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.31  691.2  0.1135  0.2149  0.8313  0.005428  0.001455  0.7264
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6554  0.4695  0.4026  0.03189  0.08708  0.2120
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.3084  0.7633  0.7744  0.02308  0.002004  0.3029
      k(pl)  x(ilm)  Q(ilm)
      0.008950  0.7416  0.6194

```

```

mode  liq  bi  cd  g  pl  ilm  ky  q  H2O
      0.1142  0.2093  0.06049  0.01955  0.2724  0.01316  0  0.3095  0.001405

```

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : bi, cd, g, pl, ilm, ky, q, H2O

P(kbar)	T(°C)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.00	675.8	0.4962	0.4127	0.03015	0.08112	0.2063	0.3237
		h(cd)	x(g)	z(g)	f(g)	ca(pl)	k(pl)
		0.7555	0.7938	0.02078	0.001729	0.2679	0.008817
		x(ilm)	Q(ilm)				
		0.7420	0.6276				

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2238	0.06865	0.004868	0.3148	0.01317		0	0.3390 0.03574

P(kbar)	T(°C)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.01	676.6	0.4959	0.4129	0.03018	0.08135	0.2060	0.3237
		h(cd)	x(g)	z(g)	f(g)	ca(pl)	k(pl)
		0.7556	0.7934	0.02076	0.001737	0.2679	0.008896
		x(ilm)	Q(ilm)				
		0.7418	0.6268				

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2238	0.06854	0.005009	0.3148	0.01316		0	0.3390 0.03576

P(kbar)	T(°C)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.02	677.4	0.4957	0.4132	0.03020	0.08159	0.2057	0.3238
		h(cd)	x(g)	z(g)	f(g)	ca(pl)	k(pl)
		0.7557	0.7930	0.02075	0.001745	0.2678	0.008975
		x(ilm)	Q(ilm)				
		0.7415	0.6261				

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2237	0.06843	0.005149	0.3148	0.01315		0	0.3390 0.03578

P(kbar)	T(°C)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.03	678.1	0.4954	0.4134	0.03023	0.08182	0.2054	0.3238
		h(cd)	x(g)	z(g)	f(g)	ca(pl)	k(pl)
		0.7558	0.7926	0.02073	0.001753	0.2678	0.009055
		x(ilm)	Q(ilm)				
		0.7413	0.6254				

mode	bi	cd	g	pl	ilm	ky	q	H2O
	0.2236	0.06832	0.005290	0.3148	0.01313		0	0.3390 0.03580

P(kbar)	T(°C)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.04	678.9	0.4952	0.4136	0.03026	0.08206	0.2051	0.3238
		h(cd)	x(g)	z(g)	f(g)	ca(pl)	k(pl)
		0.7560	0.7922	0.02071	0.001761	0.2678	0.009135

x(ilm) Q(ilm)
0.7410 0.6246

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2236	0.06821	0.005431	0.3149	0.01312			0	0.3390 0.03583

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.05 679.7 0.4950 0.4138 0.03028 0.08229 0.2048 0.3238
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7561 0.7918 0.02069 0.001769 0.2677 0.009216
x(ilm) Q(ilm)
0.7408 0.6239

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2235	0.06810	0.005573	0.3149	0.01310			0	0.3390 0.03585

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.06 680.5 0.4947 0.4140 0.03031 0.08253 0.2045 0.3238
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7562 0.7914 0.02067 0.001777 0.2677 0.009298
x(ilm) Q(ilm)
0.7405 0.6231

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2235	0.06799	0.005714	0.3149	0.01309			0	0.3390 0.03587

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.07 681.3 0.4945 0.4142 0.03033 0.08277 0.2042 0.3238
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7563 0.7910 0.02065 0.001785 0.2677 0.009380
x(ilm) Q(ilm)
0.7403 0.6224

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2234	0.06788	0.005856	0.3149	0.01308			0	0.3390 0.03589

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.08 682.1 0.4943 0.4144 0.03036 0.08300 0.2039 0.3238
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7564 0.7906 0.02064 0.001793 0.2676 0.009463
x(ilm) Q(ilm)
0.7400 0.6216

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2233	0.06777	0.005998	0.3149	0.01306			0	0.3390 0.03591

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.09 682.9 0.4940 0.4146 0.03038 0.08324 0.2037 0.3239
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7565 0.7902 0.02062 0.001801 0.2676 0.009547

x(ilm) Q(ilm)
0.7398 0.6209

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2233	0.06766	0.006140	0.3150	0.01305			0	0.3390 0.03593

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.10 683.6 0.4938 0.4148 0.03041 0.08348 0.2034 0.3239
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7566 0.7898 0.02060 0.001809 0.2676 0.009631
x(ilm) Q(ilm)
0.7395 0.6201

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2232	0.06754	0.006282	0.3150	0.01303			0	0.3390 0.03595

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.11 684.4 0.4935 0.4150 0.03043 0.08372 0.2031 0.3239
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7567 0.7894 0.02058 0.001818 0.2675 0.009716
x(ilm) Q(ilm)
0.7393 0.6194

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2231	0.06743	0.006425	0.3150	0.01302			0	0.3390 0.03597

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.12 685.2 0.4933 0.4152 0.03046 0.08395 0.2028 0.3239
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7568 0.7890 0.02056 0.001826 0.2675 0.009802
x(ilm) Q(ilm)
0.7390 0.6186

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2231	0.06732	0.006568	0.3150	0.01301			0	0.3390 0.03599

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.13 686.0 0.4931 0.4155 0.03049 0.08419 0.2025 0.3239
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7570 0.7886 0.02055 0.001834 0.2675 0.009888
x(ilm) Q(ilm)
0.7388 0.6179

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2230	0.06721	0.006711	0.3151	0.01299			0	0.3390 0.03601

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.14 686.8 0.4928 0.4157 0.03051 0.08443 0.2022 0.3239
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7571 0.7882 0.02053 0.001842 0.2674 0.009975

x(ilm) Q(ilm)
0.7385 0.6171

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2230	0.06710	0.006854	0.3151	0.01298	0	0.3390	0.03604	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.15 687.6 0.4926 0.4159 0.03054 0.08467 0.2019 0.3239
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7572 0.7878 0.02051 0.001851 0.2674 0.01006
x(ilm) Q(ilm)
0.7383 0.6163

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2229	0.06700	0.006997	0.3151	0.01296	0	0.3390	0.03606	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.16 688.4 0.4924 0.4161 0.03056 0.08490 0.2016 0.3240
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7573 0.7874 0.02049 0.001859 0.2673 0.01015
x(ilm) Q(ilm)
0.7380 0.6155

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2228	0.06689	0.007141	0.3151	0.01295	0	0.3390	0.03608	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.17 689.2 0.4921 0.4163 0.03059 0.08514 0.2013 0.3240
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7574 0.7870 0.02047 0.001867 0.2673 0.01024
x(ilm) Q(ilm)
0.7377 0.6148

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2228	0.06678	0.007285	0.3151	0.01294	0	0.3390	0.03610	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.18 690.0 0.4919 0.4165 0.03061 0.08538 0.2010 0.3240
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7575 0.7866 0.02046 0.001876 0.2673 0.01033
x(ilm) Q(ilm)
0.7375 0.6140

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2227	0.06667	0.007429	0.3152	0.01292	0	0.3390	0.03612	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.19 690.7 0.4917 0.4167 0.03064 0.08562 0.2007 0.3240
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7576 0.7862 0.02044 0.001884 0.2672 0.01042

x(ilm) Q(ilm)
0.7372 0.6132

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2226	0.06656	0.007573	0.3152	0.01291			0	0.3390 0.03614

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.20 691.5 0.4914 0.4169 0.03066 0.08586 0.2004 0.3240
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7577 0.7858 0.02042 0.001892 0.2672 0.01051
x(ilm) Q(ilm)
0.7370 0.6124

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2226	0.06645	0.007718	0.3152	0.01290			0	0.3390 0.03616

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.21 692.3 0.4912 0.4171 0.03069 0.08610 0.2001 0.3240
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7578 0.7854 0.02040 0.001901 0.2672 0.01060
x(ilm) Q(ilm)
0.7367 0.6116

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2225	0.06634	0.007863	0.3152	0.01288			0	0.3390 0.03619

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.22 693.1 0.4909 0.4173 0.03071 0.08634 0.1999 0.3240
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7579 0.7850 0.02039 0.001909 0.2671 0.01069
x(ilm) Q(ilm)
0.7365 0.6108

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2224	0.06623	0.008008	0.3153	0.01287			0	0.3390 0.03621

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.23 693.9 0.4907 0.4175 0.03074 0.08658 0.1996 0.3241
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7580 0.7846 0.02037 0.001918 0.2671 0.01079
x(ilm) Q(ilm)
0.7362 0.6100

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2224	0.06612	0.008153	0.3153	0.01285			0	0.3390 0.03623

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.24 694.7 0.4905 0.4177 0.03076 0.08682 0.1993 0.3241
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7581 0.7842 0.02035 0.001926 0.2671 0.01088

x(ilm) Q(ilm)
0.7359 0.6093

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2223	0.06601	0.008299	0.3153	0.01284			0	0.3390 0.03625

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.25 695.5 0.4902 0.4179 0.03079 0.08706 0.1990 0.3241
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7583 0.7838 0.02033 0.001935 0.2670 0.01098
x(ilm) Q(ilm)
0.7357 0.6085

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2222	0.06590	0.008445	0.3153	0.01283			0	0.3390 0.03627

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.26 696.3 0.4900 0.4181 0.03082 0.08730 0.1987 0.3241
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7584 0.7834 0.02032 0.001943 0.2670 0.01107
x(ilm) Q(ilm)
0.7354 0.6076

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2221	0.06579	0.008591	0.3154	0.01281			0	0.3390 0.03629

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.27 697.1 0.4898 0.4183 0.03084 0.08754 0.1984 0.3241
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7585 0.7830 0.02030 0.001952 0.2670 0.01117
x(ilm) Q(ilm)
0.7351 0.6068

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2221	0.06568	0.008737	0.3154	0.01280			0	0.3390 0.03632

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.28 697.9 0.4895 0.4185 0.03087 0.08778 0.1981 0.3241
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7586 0.7826 0.02028 0.001961 0.2669 0.01126
x(ilm) Q(ilm)
0.7349 0.6060

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2220	0.06557	0.008884	0.3154	0.01278			0	0.3390 0.03634

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.29 698.7 0.4893 0.4186 0.03089 0.08802 0.1978 0.3241
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7587 0.7822 0.02027 0.001969 0.2669 0.01136

x(ilm) Q(ilm)
0.7346 0.6052

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2219	0.06546	0.009031	0.3154	0.01277	0	0.3390	0.03636	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.30 699.4 0.4891 0.4188 0.03092 0.08826 0.1976 0.3241
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7588 0.7818 0.02025 0.001978 0.2668 0.01146
x(ilm) Q(ilm)
0.7344 0.6044

mode	bi	cd	g	pl	ilm	ky	q	H2O
0.2219	0.06535	0.009178	0.3155	0.01276	0	0.3390	0.03638	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.846	66.748	9.232	2.112	4.714	5.105	1.526	2.846	0.675	0.196

<=====>

phases : liq, bi, cd, g, pl, ilm, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 688.3 0.1159 0.2194 0.8314 0.004673 0.001501 0.7395
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6494 0.4966 0.4057 0.03062 0.08410 0.2063
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3284 0.7491 0.7905 0.02044 0.001886 0.2676
k(pl) x(ilm) Q(ilm)
0.01011 0.7391 0.6173

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2232	0.06985	0.004796	0.3152	0.01300	0.3381	0.03587	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.01 688.2 0.1157 0.2193 0.8315 0.004674 0.001492 0.7393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6497 0.4963 0.4064 0.03061 0.08413 0.2060
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3281 0.7497 0.7904 0.02045 0.001883 0.2675
k(pl) x(ilm) Q(ilm)
0.01010 0.7391 0.6172

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2232	0.06966	0.004943	0.3152	0.01300	0.3382	0.03589	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.02 688.1 0.1156 0.2192 0.8316 0.004676 0.001484 0.7392

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6499 0.4961 0.4071 0.03061 0.08416 0.2057
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3278 0.7502 0.7902 0.02045 0.001880 0.2675
k(pl) x(ilm) Q(ilm)
0.01010 0.7390 0.6172

mode liq bi cd g pl ilm q H2O
0 0.2231 0.06947 0.005090 0.3152 0.01299 0.3382 0.03590

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.03 688.0 0.1154 0.2191 0.8317 0.004678 0.001476 0.7390
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6502 0.4958 0.4077 0.03060 0.08419 0.2054
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3275 0.7508 0.7900 0.02046 0.001878 0.2675
k(pl) x(ilm) Q(ilm)
0.01009 0.7390 0.6171

mode liq bi cd g pl ilm q H2O
0 0.2231 0.06927 0.005237 0.3152 0.01299 0.3383 0.03591

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.04 688.0 0.1152 0.2190 0.8318 0.004679 0.001468 0.7388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6504 0.4955 0.4084 0.03059 0.08422 0.2051
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3272 0.7513 0.7898 0.02046 0.001875 0.2675
k(pl) x(ilm) Q(ilm)
0.01008 0.7389 0.6171

mode liq bi cd g pl ilm q H2O
0 0.2231 0.06908 0.005384 0.3152 0.01299 0.3383 0.03592

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.05 687.9 0.1151 0.2190 0.8319 0.004681 0.001460 0.7386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6507 0.4953 0.4091 0.03059 0.08426 0.2048
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3269 0.7519 0.7897 0.02047 0.001872 0.2675
k(pl) x(ilm) Q(ilm)
0.01008 0.7389 0.6171

mode liq bi cd g pl ilm q H2O
0 0.2231 0.06889 0.005531 0.3152 0.01299 0.3384 0.03593

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.06 687.8 0.1149 0.2189 0.8320 0.004683 0.001452 0.7384
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6509 0.4950 0.4098 0.03058 0.08429 0.2045

x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3266 0.7524 0.7895 0.02047 0.001870 0.2675
 k(pl) x(ilm) Q(ilm)
 0.01007 0.7388 0.6170

mode liq bi cd g pl ilm q H2O
 0 0.2231 0.06869 0.005678 0.3152 0.01299 0.3385 0.03594

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.07 687.8 0.1147 0.2188 0.8321 0.004684 0.001444 0.7382
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6512 0.4947 0.4105 0.03058 0.08432 0.2042
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3263 0.7530 0.7893 0.02048 0.001867 0.2675
 k(pl) x(ilm) Q(ilm)
 0.01007 0.7388 0.6170

mode liq bi cd g pl ilm q H2O
 0 0.2231 0.06850 0.005825 0.3151 0.01298 0.3385 0.03596

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.08 687.7 0.1146 0.2187 0.8322 0.004686 0.001436 0.7380
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6514 0.4945 0.4112 0.03057 0.08435 0.2039
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3260 0.7535 0.7891 0.02048 0.001864 0.2675
 k(pl) x(ilm) Q(ilm)
 0.01006 0.7387 0.6169

mode liq bi cd g pl ilm q H2O
 0 0.2230 0.06831 0.005972 0.3151 0.01298 0.3386 0.03597

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.09 687.6 0.1144 0.2186 0.8323 0.004688 0.001428 0.7378
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6517 0.4942 0.4119 0.03056 0.08439 0.2036
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3257 0.7541 0.7890 0.02049 0.001862 0.2675
 k(pl) x(ilm) Q(ilm)
 0.01006 0.7387 0.6169

mode liq bi cd g pl ilm q H2O
 0 0.2230 0.06812 0.006119 0.3151 0.01298 0.3387 0.03598

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.10 687.6 0.1142 0.2185 0.8324 0.004690 0.001420 0.7376
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6519 0.4939 0.4126 0.03056 0.08442 0.2034
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3254 0.7546 0.7888 0.02049 0.001859 0.2674

k(pl) x(ilm) Q(ilm)
0.01005 0.7386 0.6168

mode liq bi cd g pl ilm q H2O
0 0.2230 0.06792 0.006265 0.3151 0.01298 0.3387 0.03599

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.11 687.5 0.1141 0.2184 0.8325 0.004691 0.001412 0.7374
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6522 0.4937 0.4133 0.03055 0.08445 0.2031
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3250 0.7552 0.7886 0.02050 0.001856 0.2674
k(pl) x(ilm) Q(ilm)
0.01005 0.7386 0.6168

mode liq bi cd g pl ilm q H2O
0 0.2230 0.06773 0.006412 0.3151 0.01298 0.3388 0.03600

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.12 687.4 0.1139 0.2183 0.8326 0.004693 0.001404 0.7373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6524 0.4934 0.4140 0.03054 0.08448 0.2028
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3247 0.7557 0.7884 0.02050 0.001854 0.2674
k(pl) x(ilm) Q(ilm)
0.01004 0.7385 0.6168

mode liq bi cd g pl ilm q H2O
0 0.2230 0.06754 0.006559 0.3151 0.01298 0.3388 0.03602

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.13 687.4 0.1138 0.2183 0.8327 0.004695 0.001397 0.7371
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6527 0.4931 0.4147 0.03054 0.08451 0.2025
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3244 0.7563 0.7883 0.02051 0.001851 0.2674
k(pl) x(ilm) Q(ilm)
0.01003 0.7384 0.6167

mode liq bi cd g pl ilm q H2O
0 0.2229 0.06735 0.006705 0.3151 0.01297 0.3389 0.03603

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.14 687.3 0.1136 0.2182 0.8328 0.004697 0.001389 0.7369
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6529 0.4929 0.4154 0.03053 0.08455 0.2022
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3241 0.7568 0.7881 0.02051 0.001849 0.2674
k(pl) x(ilm) Q(ilm)
0.01003 0.7384 0.6167

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2229	0.06715	0.006852	0.3151	0.01297	0.3390	0.03604	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.15	687.2	0.1134	0.2181	0.8329	0.004698	0.001381	0.7367
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6531	0.4926	0.4161	0.03052	0.08458	0.2019	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3238	0.7574	0.7879	0.02052	0.001846	0.2674	
	k(pl)	x(ilm)	Q(ilm)				
	0.01002	0.7383	0.6166				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2229	0.06696	0.006998	0.3151	0.01297	0.3390	0.03605	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.16	687.2	0.1133	0.2180	0.8330	0.004700	0.001374	0.7365
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6534	0.4923	0.4168	0.03052	0.08461	0.2016	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3235	0.7579	0.7877	0.02053	0.001843	0.2674	
	k(pl)	x(ilm)	Q(ilm)				
	0.01002	0.7383	0.6166				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2229	0.06677	0.007145	0.3151	0.01297	0.3391	0.03606	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.17	687.1	0.1131	0.2179	0.8331	0.004702	0.001366	0.7363
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6536	0.4920	0.4174	0.03051	0.08465	0.2013	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3232	0.7584	0.7876	0.02053	0.001841	0.2674	
	k(pl)	x(ilm)	Q(ilm)				
	0.01001	0.7382	0.6165				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2229	0.06658	0.007291	0.3151	0.01297	0.3391	0.03608	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.18	687.0	0.1129	0.2178	0.8332	0.004704	0.001359	0.7361
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6539	0.4918	0.4181	0.03050	0.08468	0.2010	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3229	0.7590	0.7874	0.02054	0.001838	0.2674	
	k(pl)	x(ilm)	Q(ilm)				
	0.01001	0.7382	0.6165				

mode	liq	bi	cd	g	pl	ilm	q	H2O
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0 0.2229 0.06638 0.007438 0.3151 0.01296 0.3392 0.03609

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.19 687.0 0.1128 0.2177 0.8333 0.004706 0.001351 0.7359
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6541 0.4915 0.4188 0.03050 0.08471 0.2007
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3226 0.7595 0.7872 0.02054 0.001836 0.2674
k(pl) x(ilm) Q(ilm)
0.01000 0.7381 0.6164

mode liq bi cd g pl ilm q H2O
0 0.2228 0.06619 0.007584 0.3151 0.01296 0.3393 0.03610

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 686.9 0.1126 0.2176 0.8335 0.004708 0.001344 0.7357
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6544 0.4912 0.4195 0.03049 0.08474 0.2004
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3223 0.7600 0.7870 0.02055 0.001833 0.2673
k(pl) x(ilm) Q(ilm)
0.009996 0.7381 0.6164

mode liq bi cd g pl ilm q H2O
0 0.2228 0.06600 0.007730 0.3151 0.01296 0.3393 0.03611

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.21 686.8 0.1125 0.2176 0.8336 0.004709 0.001336 0.7355
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6546 0.4910 0.4202 0.03048 0.08478 0.2001
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3220 0.7606 0.7869 0.02055 0.001830 0.2673
k(pl) x(ilm) Q(ilm)
0.009990 0.7380 0.6163

mode liq bi cd g pl ilm q H2O
0 0.2228 0.06581 0.007876 0.3150 0.01296 0.3394 0.03613

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.22 686.8 0.1123 0.2175 0.8337 0.004711 0.001329 0.7354
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6548 0.4907 0.4209 0.03047 0.08481 0.1998
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3217 0.7611 0.7867 0.02056 0.001828 0.2673
k(pl) x(ilm) Q(ilm)
0.009984 0.7380 0.6163

mode liq bi cd g pl ilm q H2O
0 0.2228 0.06561 0.008022 0.3150 0.01296 0.3394 0.03614

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.23 686.7 0.1121 0.2174 0.8338 0.004713 0.001322 0.7352
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6551 0.4904 0.4216 0.03047 0.08484 0.1996
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3214 0.7616 0.7865 0.02056 0.001825 0.2673
k(pl) x(ilm) Q(ilm)
0.009979 0.7379 0.6162

mode liq bi cd g pl ilm q H2O
0 0.2228 0.06542 0.008168 0.3150 0.01296 0.3395 0.03615

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.24 686.6 0.1120 0.2173 0.8339 0.004715 0.001315 0.7350
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6553 0.4902 0.4223 0.03046 0.08487 0.1993
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3210 0.7622 0.7863 0.02057 0.001823 0.2673
k(pl) x(ilm) Q(ilm)
0.009973 0.7379 0.6162

mode liq bi cd g pl ilm q H2O
0 0.2227 0.06523 0.008314 0.3150 0.01295 0.3396 0.03616

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.25 686.6 0.1118 0.2172 0.8340 0.004717 0.001307 0.7348
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6556 0.4899 0.4230 0.03045 0.08491 0.1990
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3207 0.7627 0.7862 0.02057 0.001820 0.2673
k(pl) x(ilm) Q(ilm)
0.009968 0.7378 0.6161

mode liq bi cd g pl ilm q H2O
0 0.2227 0.06504 0.008460 0.3150 0.01295 0.3396 0.03617

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.26 686.5 0.1117 0.2171 0.8341 0.004719 0.001300 0.7346
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6558 0.4896 0.4237 0.03044 0.08494 0.1987
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3204 0.7632 0.7860 0.02058 0.001818 0.2673
k(pl) x(ilm) Q(ilm)
0.009962 0.7377 0.6161

mode liq bi cd g pl ilm q H2O
0 0.2227 0.06485 0.008606 0.3150 0.01295 0.3397 0.03619

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.27 686.4 0.1115 0.2170 0.8342 0.004721 0.001293 0.7344

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6560 0.4894 0.4243 0.03044 0.08497 0.1984
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3201 0.7638 0.7858 0.02058 0.001815 0.2673
k(pl) x(ilm) Q(ilm)
0.009957 0.7377 0.6160

mode liq bi cd g pl ilm q H2O
0 0.2227 0.06465 0.008752 0.3150 0.01295 0.3398 0.03620

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.28 686.4 0.1113 0.2170 0.8343 0.004723 0.001286 0.7342
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6563 0.4891 0.4250 0.03043 0.08501 0.1981
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3198 0.7643 0.7856 0.02059 0.001813 0.2673
k(pl) x(ilm) Q(ilm)
0.009951 0.7376 0.6160

mode liq bi cd g pl ilm q H2O
0 0.2227 0.06446 0.008897 0.3150 0.01295 0.3398 0.03621

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.29 686.3 0.1112 0.2169 0.8344 0.004725 0.001279 0.7340
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6565 0.4888 0.4257 0.03042 0.08504 0.1978
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3195 0.7648 0.7855 0.02059 0.001810 0.2672
k(pl) x(ilm) Q(ilm)
0.009945 0.7376 0.6159

mode liq bi cd g pl ilm q H2O
0 0.2227 0.06427 0.009043 0.3150 0.01294 0.3399 0.03622

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 686.2 0.1110 0.2168 0.8345 0.004727 0.001272 0.7338
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6568 0.4886 0.4264 0.03041 0.08507 0.1975
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3192 0.7653 0.7853 0.02060 0.001807 0.2672
k(pl) x(ilm) Q(ilm)
0.009940 0.7375 0.6159

mode liq bi cd g pl ilm q H2O
0 0.2226 0.06408 0.009189 0.3150 0.01294 0.3399 0.03624

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.31 686.2 0.1109 0.2167 0.8346 0.004728 0.001265 0.7336
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6570 0.4883 0.4271 0.03040 0.08510 0.1972

x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3189 0.7658 0.7851 0.02061 0.001805 0.2672
k(pl) x(ilm) Q(ilm)
0.009934 0.7375 0.6158

mode liq bi cd g pl ilm q H2O
0 0.2226 0.06389 0.009334 0.3150 0.01294 0.3400 0.03625

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.32 686.1 0.1107 0.2166 0.8347 0.004730 0.001258 0.7334
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6572 0.4880 0.4278 0.03040 0.08514 0.1969
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3186 0.7664 0.7849 0.02061 0.001802 0.2672
k(pl) x(ilm) Q(ilm)
0.009929 0.7374 0.6158

mode liq bi cd g pl ilm q H2O
0 0.2226 0.06369 0.009480 0.3150 0.01294 0.3401 0.03626

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.33 686.0 0.1105 0.2165 0.8348 0.004732 0.001251 0.7333
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6575 0.4877 0.4285 0.03039 0.08517 0.1966
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3183 0.7669 0.7847 0.02062 0.001800 0.2672
k(pl) x(ilm) Q(ilm)
0.009923 0.7373 0.6157

mode liq bi cd g pl ilm q H2O
0 0.2226 0.06350 0.009625 0.3150 0.01294 0.3401 0.03627

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.34 686.0 0.1104 0.2164 0.8349 0.004734 0.001245 0.7331
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6577 0.4875 0.4292 0.03038 0.08520 0.1963
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3180 0.7674 0.7846 0.02062 0.001797 0.2672
k(pl) x(ilm) Q(ilm)
0.009917 0.7373 0.6157

mode liq bi cd g pl ilm q H2O
0 0.2226 0.06331 0.009770 0.3150 0.01294 0.3402 0.03629

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.35 685.9 0.1102 0.2164 0.8350 0.004736 0.001238 0.7329
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6579 0.4872 0.4298 0.03037 0.08524 0.1960
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3177 0.7679 0.7844 0.02063 0.001795 0.2672

k(pl) x(ilm) Q(ilm)
0.009912 0.7372 0.6156

mode liq bi cd g pl ilm q H2O
0 0.2225 0.06312 0.009916 0.3149 0.01293 0.3402 0.03630

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.36 685.8 0.1101 0.2163 0.8351 0.004738 0.001231 0.7327
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6582 0.4869 0.4305 0.03036 0.08527 0.1957
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3174 0.7684 0.7842 0.02063 0.001792 0.2672
k(pl) x(ilm) Q(ilm)
0.009906 0.7372 0.6156

mode liq bi cd g pl ilm q H2O
0 0.2225 0.06293 0.01006 0.3149 0.01293 0.3403 0.03631

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.37 685.8 0.1099 0.2162 0.8352 0.004740 0.001224 0.7325
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6584 0.4867 0.4312 0.03036 0.08530 0.1955
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3171 0.7690 0.7840 0.02064 0.001790 0.2672
k(pl) x(ilm) Q(ilm)
0.009901 0.7371 0.6155

mode liq bi cd g pl ilm q H2O
0 0.2225 0.06274 0.01021 0.3149 0.01293 0.3404 0.03632

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.38 685.7 0.1097 0.2161 0.8353 0.004742 0.001218 0.7323
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6587 0.4864 0.4319 0.03035 0.08534 0.1952
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3168 0.7695 0.7839 0.02064 0.001788 0.2672
k(pl) x(ilm) Q(ilm)
0.009895 0.7371 0.6155

mode liq bi cd g pl ilm q H2O
0 0.2225 0.06255 0.01035 0.3149 0.01293 0.3404 0.03634

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.39 685.7 0.1096 0.2160 0.8354 0.004744 0.001211 0.7321
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6589 0.4861 0.4326 0.03034 0.08537 0.1949
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3165 0.7700 0.7837 0.02065 0.001785 0.2671
k(pl) x(ilm) Q(ilm)
0.009889 0.7370 0.6154

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2225	0.06236	0.01050	0.3149	0.01293	0.3405	0.03635	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.40	685.6	0.1094	0.2159	0.8354	0.004746	0.001205	0.7319
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6591	0.4859	0.4333	0.03033	0.08540	0.1946	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3162	0.7705	0.7835	0.02065	0.001783	0.2671	
	k(pl)	x(ilm)	Q(ilm)				
	0.009884	0.7369	0.6154				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2225	0.06216	0.01064	0.3149	0.01292	0.3405	0.03636	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.41	685.5	0.1093	0.2158	0.8355	0.004749	0.001198	0.7317
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6594	0.4856	0.4340	0.03032	0.08544	0.1943	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3159	0.7710	0.7833	0.02066	0.001780	0.2671	
	k(pl)	x(ilm)	Q(ilm)				
	0.009878	0.7369	0.6153				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2224	0.06197	0.01079	0.3149	0.01292	0.3406	0.03637	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.42	685.5	0.1091	0.2158	0.8356	0.004751	0.001192	0.7315
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6596	0.4853	0.4346	0.03031	0.08547	0.1940	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3156	0.7715	0.7831	0.02066	0.001778	0.2671	
	k(pl)	x(ilm)	Q(ilm)				
	0.009873	0.7368	0.6152				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2224	0.06178	0.01093	0.3149	0.01292	0.3407	0.03639	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.43	685.4	0.1090	0.2157	0.8357	0.004753	0.001185	0.7313
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6598	0.4851	0.4353	0.03030	0.08550	0.1937	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3153	0.7720	0.7830	0.02067	0.001775	0.2671	
	k(pl)	x(ilm)	Q(ilm)				
	0.009867	0.7368	0.6152				

mode	liq	bi	cd	g	pl	ilm	q	H2O
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0 0.2224 0.06159 0.01108 0.3149 0.01292 0.3407 0.03640

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.44 685.3 0.1088 0.2156 0.8358 0.004755 0.001179 0.7311
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6601 0.4848 0.4360 0.03030 0.08554 0.1934
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3150 0.7725 0.7828 0.02067 0.001773 0.2671
k(pl) x(ilm) Q(ilm)
0.009861 0.7367 0.6151

mode liq bi cd g pl ilm q H2O
0 0.2224 0.06140 0.01122 0.3149 0.01292 0.3408 0.03641

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 685.3 0.1086 0.2155 0.8359 0.004757 0.001172 0.7310
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6603 0.4845 0.4367 0.03029 0.08557 0.1931
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3147 0.7731 0.7826 0.02068 0.001770 0.2671
k(pl) x(ilm) Q(ilm)
0.009856 0.7366 0.6151

mode liq bi cd g pl ilm q H2O
0 0.2224 0.06121 0.01136 0.3149 0.01292 0.3408 0.03642

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.46 685.2 0.1085 0.2154 0.8360 0.004759 0.001166 0.7308
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6605 0.4842 0.4374 0.03028 0.08560 0.1928
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3144 0.7736 0.7824 0.02069 0.001768 0.2671
k(pl) x(ilm) Q(ilm)
0.009850 0.7366 0.6150

mode liq bi cd g pl ilm q H2O
0 0.2224 0.06102 0.01151 0.3149 0.01291 0.3409 0.03644

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.47 685.1 0.1083 0.2153 0.8361 0.004761 0.001160 0.7306
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6608 0.4840 0.4380 0.03027 0.08564 0.1925
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3140 0.7741 0.7822 0.02069 0.001765 0.2671
k(pl) x(ilm) Q(ilm)
0.009845 0.7365 0.6150

mode liq bi cd g pl ilm q H2O
0 0.2223 0.06083 0.01165 0.3149 0.01291 0.3410 0.03645

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.48 685.1 0.1082 0.2153 0.8362 0.004763 0.001153 0.7304
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6610 0.4837 0.4387 0.03026 0.08567 0.1922
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3137 0.7746 0.7821 0.02070 0.001763 0.2670
 k(pl) x(ilm) Q(ilm)
 0.009839 0.7365 0.6149

mode liq bi cd g pl ilm q H2O
 0 0.2223 0.06064 0.01180 0.3149 0.01291 0.3410 0.03646

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.49 685.0 0.1080 0.2152 0.8363 0.004765 0.001147 0.7302
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6612 0.4834 0.4394 0.03025 0.08570 0.1919
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3134 0.7751 0.7819 0.02070 0.001761 0.2670
 k(pl) x(ilm) Q(ilm)
 0.009833 0.7364 0.6148

mode liq bi cd g pl ilm q H2O
 0 0.2223 0.06045 0.01194 0.3148 0.01291 0.3411 0.03648

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.50 685.0 0.1079 0.2151 0.8364 0.004767 0.001141 0.7300
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6614 0.4832 0.4401 0.03024 0.08574 0.1917
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3131 0.7756 0.7817 0.02071 0.001758 0.2670
 k(pl) x(ilm) Q(ilm)
 0.009828 0.7363 0.6148

mode liq bi cd g pl ilm q H2O
 0 0.2223 0.06026 0.01209 0.3148 0.01291 0.3411 0.03649

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.51 684.9 0.1077 0.2150 0.8365 0.004770 0.001135 0.7298
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6617 0.4829 0.4408 0.03023 0.08577 0.1914
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3128 0.7761 0.7815 0.02071 0.001756 0.2670
 k(pl) x(ilm) Q(ilm)
 0.009822 0.7363 0.6147

mode liq bi cd g pl ilm q H2O
 0 0.2223 0.06007 0.01223 0.3148 0.01290 0.3412 0.03650

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.52 684.8 0.1076 0.2149 0.8366 0.004772 0.001129 0.7296

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6619 0.4826 0.4415 0.03022 0.08580 0.1911
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3125 0.7766 0.7813 0.02072 0.001753 0.2670
k(pl) x(ilm) Q(ilm)
0.009816 0.7362 0.6147

mode liq bi cd g pl ilm q H2O
0 0.2222 0.05988 0.01237 0.3148 0.01290 0.3413 0.03651

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.53 684.8 0.1074 0.2148 0.8367 0.004774 0.001123 0.7294
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6621 0.4824 0.4421 0.03021 0.08584 0.1908
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3122 0.7771 0.7812 0.02072 0.001751 0.2670
k(pl) x(ilm) Q(ilm)
0.009811 0.7362 0.6146

mode liq bi cd g pl ilm q H2O
0 0.2222 0.05969 0.01252 0.3148 0.01290 0.3413 0.03653

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.54 684.7 0.1072 0.2148 0.8368 0.004776 0.001117 0.7292
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6624 0.4821 0.4428 0.03020 0.08587 0.1905
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3119 0.7776 0.7810 0.02073 0.001749 0.2670
k(pl) x(ilm) Q(ilm)
0.009805 0.7361 0.6146

mode liq bi cd g pl ilm q H2O
0 0.2222 0.05950 0.01266 0.3148 0.01290 0.3414 0.03654

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.55 684.6 0.1071 0.2147 0.8369 0.004778 0.001111 0.7290
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6626 0.4818 0.4435 0.03019 0.08590 0.1902
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3116 0.7781 0.7808 0.02073 0.001746 0.2670
k(pl) x(ilm) Q(ilm)
0.009799 0.7360 0.6145

mode liq bi cd g pl ilm q H2O
0 0.2222 0.05931 0.01281 0.3148 0.01290 0.3414 0.03655

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.56 684.6 0.1069 0.2146 0.8370 0.004781 0.001105 0.7288
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6628 0.4815 0.4442 0.03018 0.08594 0.1899

x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3113 0.7786 0.7806 0.02074 0.001744 0.2670
k(pl) x(ilm) Q(ilm)
0.009794 0.7360 0.6144

mode liq bi cd g pl ilm q H2O
0 0.2222 0.05912 0.01295 0.3148 0.01290 0.3415 0.03657

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.57 684.5 0.1068 0.2145 0.8371 0.004783 0.001099 0.7287
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6630 0.4813 0.4449 0.03017 0.08597 0.1896
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3110 0.7791 0.7804 0.02074 0.001741 0.2669
k(pl) x(ilm) Q(ilm)
0.009788 0.7359 0.6144

mode liq bi cd g pl ilm q H2O
0 0.2222 0.05893 0.01309 0.3148 0.01289 0.3416 0.03658

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.58 684.5 0.1066 0.2144 0.8372 0.004785 0.001093 0.7285
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6633 0.4810 0.4455 0.03016 0.08600 0.1893
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3107 0.7796 0.7802 0.02075 0.001739 0.2669
k(pl) x(ilm) Q(ilm)
0.009782 0.7359 0.6143

mode liq bi cd g pl ilm q H2O
0 0.2221 0.05874 0.01324 0.3148 0.01289 0.3416 0.03659

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.59 684.4 0.1065 0.2143 0.8373 0.004787 0.001087 0.7283
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6635 0.4807 0.4462 0.03015 0.08604 0.1890
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3104 0.7801 0.7801 0.02075 0.001737 0.2669
k(pl) x(ilm) Q(ilm)
0.009777 0.7358 0.6142

mode liq bi cd g pl ilm q H2O
0 0.2221 0.05855 0.01338 0.3148 0.01289 0.3417 0.03660

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 684.3 0.1063 0.2143 0.8374 0.004789 0.001081 0.7281
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6637 0.4805 0.4469 0.03014 0.08607 0.1887
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3101 0.7805 0.7799 0.02076 0.001734 0.2669

k(pl) x(ilm) Q(ilm)
0.009771 0.7357 0.6142

mode liq bi cd g pl ilm q H2O
0 0.2221 0.05836 0.01352 0.3148 0.01289 0.3417 0.03662

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.61 684.3 0.1062 0.2142 0.8375 0.004792 0.001075 0.7279
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6640 0.4802 0.4476 0.03013 0.08610 0.1884
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3098 0.7810 0.7797 0.02077 0.001732 0.2669
k(pl) x(ilm) Q(ilm)
0.009765 0.7357 0.6141

mode liq bi cd g pl ilm q H2O
0 0.2221 0.05817 0.01367 0.3148 0.01289 0.3418 0.03663

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.62 684.2 0.1060 0.2141 0.8376 0.004794 0.001069 0.7277
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6642 0.4799 0.4482 0.03012 0.08614 0.1881
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3095 0.7815 0.7795 0.02077 0.001730 0.2669
k(pl) x(ilm) Q(ilm)
0.009760 0.7356 0.6141

mode liq bi cd g pl ilm q H2O
0 0.2221 0.05798 0.01381 0.3148 0.01289 0.3419 0.03664

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.63 684.2 0.1059 0.2140 0.8377 0.004796 0.001064 0.7275
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6644 0.4797 0.4489 0.03011 0.08617 0.1879
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3092 0.7820 0.7793 0.02078 0.001727 0.2669
k(pl) x(ilm) Q(ilm)
0.009754 0.7355 0.6140

mode liq bi cd g pl ilm q H2O
0 0.2221 0.05779 0.01395 0.3147 0.01288 0.3419 0.03666

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.64 684.1 0.1057 0.2139 0.8378 0.004798 0.001058 0.7273
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6646 0.4794 0.4496 0.03010 0.08621 0.1876
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3089 0.7825 0.7792 0.02078 0.001725 0.2669
k(pl) x(ilm) Q(ilm)
0.009748 0.7355 0.6139

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2220	0.05760	0.01410	0.3147	0.01288	0.3420	0.03667	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.65	684.0	0.1056	0.2138	0.8379	0.004801	0.001052	0.7271
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6649	0.4791	0.4503	0.03009	0.08624	0.1873	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3086	0.7830	0.7790	0.02079	0.001723	0.2669	
	k(pl)	x(ilm)	Q(ilm)				
	0.009743	0.7354	0.6139				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2220	0.05741	0.01424	0.3147	0.01288	0.3420	0.03668	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.66	684.0	0.1054	0.2138	0.8380	0.004803	0.001047	0.7269
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6651	0.4788	0.4509	0.03008	0.08627	0.1870	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3083	0.7835	0.7788	0.02079	0.001720	0.2669	
	k(pl)	x(ilm)	Q(ilm)				
	0.009737	0.7354	0.6138				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2220	0.05722	0.01438	0.3147	0.01288	0.3421	0.03670	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.67	683.9	0.1053	0.2137	0.8381	0.004805	0.001041	0.7267
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6653	0.4786	0.4516	0.03007	0.08631	0.1867	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3080	0.7840	0.7786	0.02080	0.001718	0.2668	
	k(pl)	x(ilm)	Q(ilm)				
	0.009731	0.7353	0.6137				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2220	0.05703	0.01453	0.3147	0.01288	0.3422	0.03671	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.68	683.9	0.1051	0.2136	0.8382	0.004808	0.001035	0.7265
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6655	0.4783	0.4523	0.03006	0.08634	0.1864	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3078	0.7844	0.7784	0.02080	0.001716	0.2668	
	k(pl)	x(ilm)	Q(ilm)				
	0.009726	0.7352	0.6137				

mode	liq	bi	cd	g	pl	ilm	q	H2O
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0 0.2220 0.05684 0.01467 0.3147 0.01288 0.3422 0.03672

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.69 683.8 0.1050 0.2135 0.8383 0.004810 0.001030 0.7264
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6658 0.4780 0.4530 0.03005 0.08637 0.1861
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3075 0.7849 0.7782 0.02081 0.001713 0.2668
k(pl) x(ilm) Q(ilm)
0.009720 0.7352 0.6136

mode liq bi cd g pl ilm q H2O
0 0.2219 0.05666 0.01481 0.3147 0.01287 0.3423 0.03674

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 683.7 0.1048 0.2134 0.8384 0.004812 0.001024 0.7262
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6660 0.4778 0.4536 0.03004 0.08641 0.1858
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3072 0.7854 0.7781 0.02081 0.001711 0.2668
k(pl) x(ilm) Q(ilm)
0.009714 0.7351 0.6135

mode liq bi cd g pl ilm q H2O
0 0.2219 0.05647 0.01495 0.3147 0.01287 0.3423 0.03675

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.71 683.7 0.1047 0.2133 0.8385 0.004815 0.001019 0.7260
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6662 0.4775 0.4543 0.03003 0.08644 0.1855
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3069 0.7859 0.7779 0.02082 0.001709 0.2668
k(pl) x(ilm) Q(ilm)
0.009709 0.7350 0.6135

mode liq bi cd g pl ilm q H2O
0 0.2219 0.05628 0.01510 0.3147 0.01287 0.3424 0.03676

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.72 683.6 0.1045 0.2133 0.8386 0.004817 0.001013 0.7258
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6664 0.4772 0.4550 0.03002 0.08648 0.1852
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3066 0.7864 0.7777 0.02082 0.001706 0.2668
k(pl) x(ilm) Q(ilm)
0.009703 0.7350 0.6134

mode liq bi cd g pl ilm q H2O
0 0.2219 0.05609 0.01524 0.3147 0.01287 0.3425 0.03678

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.73 683.6 0.1044 0.2132 0.8387 0.004819 0.001008 0.7256
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6666 0.4770 0.4557 0.03001 0.08651 0.1849
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3063 0.7868 0.7775 0.02083 0.001704 0.2668
k(pl) x(ilm) Q(ilm)
0.009697 0.7349 0.6133

mode liq bi cd g pl ilm q H2O
0 0.2219 0.05590 0.01538 0.3147 0.01287 0.3425 0.03679

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.74 683.5 0.1042 0.2131 0.8388 0.004822 0.001003 0.7254
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6669 0.4767 0.4563 0.03000 0.08654 0.1846
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3060 0.7873 0.7773 0.02083 0.001702 0.2668
k(pl) x(ilm) Q(ilm)
0.009692 0.7348 0.6133

mode liq bi cd g pl ilm q H2O
0 0.2219 0.05571 0.01552 0.3147 0.01286 0.3426 0.03680

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.75 683.4 0.1040 0.2130 0.8389 0.0048240.0009971 0.7252
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6671 0.4764 0.4570 0.02999 0.08658 0.1844
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3057 0.7878 0.7771 0.02084 0.001700 0.2668
k(pl) x(ilm) Q(ilm)
0.009686 0.7348 0.6132

mode liq bi cd g pl ilm q H2O
0 0.2218 0.05552 0.01567 0.3147 0.01286 0.3426 0.03681

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.76 683.4 0.1039 0.2129 0.8390 0.0048260.0009918 0.7250
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6673 0.4761 0.4577 0.02998 0.08661 0.1841
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3054 0.7883 0.7770 0.02085 0.001697 0.2667
k(pl) x(ilm) Q(ilm)
0.009680 0.7347 0.6131

mode liq bi cd g pl ilm q H2O
0 0.2218 0.05534 0.01581 0.3147 0.01286 0.3427 0.03683

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.77 683.3 0.1038 0.2129 0.8391 0.0048290.0009865 0.7248

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6675 0.4759 0.4584 0.02997 0.08664 0.1838
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3051 0.7888 0.7768 0.02085 0.001695 0.2667
k(pl) x(ilm) Q(ilm)
0.009674 0.7346 0.6131

mode liq bi cd g pl ilm q H2O
0 0.2218 0.05515 0.01595 0.3147 0.01286 0.3427 0.03684

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.78 683.3 0.1036 0.2128 0.8392 0.0048310.0009812 0.7246
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6678 0.4756 0.4590 0.02995 0.08668 0.1835
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3048 0.7892 0.7766 0.02086 0.001693 0.2667
k(pl) x(ilm) Q(ilm)
0.009669 0.7346 0.6130

mode liq bi cd g pl ilm q H2O
0 0.2218 0.05496 0.01609 0.3146 0.01286 0.3428 0.03685

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.79 683.2 0.1035 0.2127 0.8393 0.0048340.0009760 0.7244
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6680 0.4753 0.4597 0.02994 0.08671 0.1832
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3045 0.7897 0.7764 0.02086 0.001690 0.2667
k(pl) x(ilm) Q(ilm)
0.009663 0.7345 0.6129

mode liq bi cd g pl ilm q H2O
0 0.2218 0.05477 0.01623 0.3146 0.01286 0.3429 0.03687

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 683.1 0.1033 0.2126 0.8394 0.0048360.0009708 0.7242
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6682 0.4751 0.4604 0.02993 0.08675 0.1829
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3042 0.7902 0.7762 0.02087 0.001688 0.2667
k(pl) x(ilm) Q(ilm)
0.009657 0.7344 0.6129

mode liq bi cd g pl ilm q H2O
0 0.2218 0.05458 0.01638 0.3146 0.01285 0.3429 0.03688

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.81 683.1 0.1032 0.2125 0.8395 0.0048390.0009656 0.7240
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6684 0.4748 0.4610 0.02992 0.08678 0.1826

x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3039 0.7906 0.7760 0.02087 0.001686 0.2667
k(pl) x(ilm) Q(ilm)
0.009651 0.7344 0.6128

mode liq bi cd g pl ilm q H2O
0 0.2217 0.05440 0.01652 0.3146 0.01285 0.3430 0.03689

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.82 683.0 0.1030 0.2124 0.8396 0.0048410.0009604 0.7239
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6686 0.4745 0.4617 0.02991 0.08681 0.1823
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3036 0.7911 0.7759 0.02088 0.001684 0.2667
k(pl) x(ilm) Q(ilm)
0.009646 0.7343 0.6127

mode liq bi cd g pl ilm q H2O
0 0.2217 0.05421 0.01666 0.3146 0.01285 0.3430 0.03691

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.83 683.0 0.1029 0.2124 0.8397 0.0048430.0009553 0.7237
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6689 0.4743 0.4624 0.02990 0.08685 0.1820
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3033 0.7916 0.7757 0.02088 0.001681 0.2667
k(pl) x(ilm) Q(ilm)
0.009640 0.7342 0.6127

mode liq bi cd g pl ilm q H2O
0 0.2217 0.05402 0.01680 0.3146 0.01285 0.3431 0.03692

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.84 682.9 0.1027 0.2123 0.8398 0.0048460.0009502 0.7235
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6691 0.4740 0.4630 0.02989 0.08688 0.1817
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3030 0.7920 0.7755 0.02089 0.001679 0.2667
k(pl) x(ilm) Q(ilm)
0.009634 0.7342 0.6126

mode liq bi cd g pl ilm q H2O
0 0.2217 0.05383 0.01694 0.3146 0.01285 0.3432 0.03693

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.85 682.8 0.1026 0.2122 0.8399 0.0048480.0009451 0.7233
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6693 0.4737 0.4637 0.02988 0.08692 0.1814
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3027 0.7925 0.7753 0.02089 0.001677 0.2667

k(pl) x(ilm) Q(ilm)
0.009629 0.7341 0.6125

mode liq bi cd g pl ilm q H2O
0 0.2217 0.05365 0.01708 0.3146 0.01285 0.3432 0.03695

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.86 682.8 0.1024 0.2121 0.8400 0.0048510.0009401 0.7231
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6695 0.4735 0.4644 0.02986 0.08695 0.1812
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3024 0.7930 0.7751 0.02090 0.001675 0.2666
k(pl) x(ilm) Q(ilm)
0.009623 0.7340 0.6125

mode liq bi cd g pl ilm q H2O
0 0.2216 0.05346 0.01723 0.3146 0.01284 0.3433 0.03696

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.87 682.7 0.1023 0.2120 0.8401 0.0048530.0009350 0.7229
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6697 0.4732 0.4650 0.02985 0.08698 0.1809
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3021 0.7934 0.7749 0.02090 0.001673 0.2666
k(pl) x(ilm) Q(ilm)
0.009617 0.7340 0.6124

mode liq bi cd g pl ilm q H2O
0 0.2216 0.05327 0.01737 0.3146 0.01284 0.3433 0.03697

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.88 682.7 0.1021 0.2120 0.8402 0.0048560.0009301 0.7227
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6699 0.4729 0.4657 0.02984 0.08702 0.1806
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3018 0.7939 0.7747 0.02091 0.001670 0.2666
k(pl) x(ilm) Q(ilm)
0.009611 0.7339 0.6123

mode liq bi cd g pl ilm q H2O
0 0.2216 0.05308 0.01751 0.3146 0.01284 0.3434 0.03699

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.89 682.6 0.1020 0.2119 0.8403 0.0048580.0009251 0.7225
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6702 0.4726 0.4664 0.02983 0.08705 0.1803
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3015 0.7944 0.7746 0.02092 0.001668 0.2666
k(pl) x(ilm) Q(ilm)
0.009605 0.7338 0.6122

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2216	0.05290	0.01765	0.3146	0.01284	0.3435	0.03700	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.90	682.5	0.1018	0.2118	0.8404	0.0048610	0.0009202	0.7223
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6704	0.4724	0.4670	0.02982	0.08708	0.1800	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3013	0.7948	0.7744	0.02092	0.001666	0.2666	
	k(pl)	x(ilm)	Q(ilm)				
	0.009600	0.7338	0.6122				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2216	0.05271	0.01779	0.3146	0.01284	0.3435	0.03702	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.91	682.5	0.1017	0.2117	0.8405	0.0048630	0.0009153	0.7221
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6706	0.4721	0.4677	0.02980	0.08712	0.1797	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3010	0.7953	0.7742	0.02093	0.001664	0.2666	
	k(pl)	x(ilm)	Q(ilm)				
	0.009594	0.7337	0.6121				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2216	0.05252	0.01793	0.3146	0.01284	0.3436	0.03703	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.92	682.4	0.1015	0.2116	0.8406	0.0048660	0.0009104	0.7219
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6708	0.4718	0.4684	0.02979	0.08715	0.1794	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3007	0.7958	0.7740	0.02093	0.001661	0.2666	
	k(pl)	x(ilm)	Q(ilm)				
	0.009588	0.7336	0.6120				

mode	liq	bi	cd	g	pl	ilm	q	H2O
0	0.2215	0.05234	0.01807	0.3145	0.01283	0.3436	0.03704	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.93	682.4	0.1014	0.2116	0.8407	0.0048680	0.0009055	0.7217
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6710	0.4716	0.4690	0.02978	0.08719	0.1791	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3004	0.7962	0.7738	0.02094	0.001659	0.2666	
	k(pl)	x(ilm)	Q(ilm)				
	0.009582	0.7336	0.6120				

mode	liq	bi	cd	g	pl	ilm	q	H2O
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0 0.2215 0.05215 0.01821 0.3145 0.01283 0.3437 0.03706

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.94 682.3 0.1012 0.2115 0.8408 0.0048710.0009007 0.7215
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6712 0.4713 0.4697 0.02977 0.08722 0.1788
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3001 0.7967 0.7736 0.02094 0.001657 0.2666
k(pl) x(ilm) Q(ilm)
0.009577 0.7335 0.6119

mode liq bi cd g pl ilm q H2O
0 0.2215 0.05196 0.01835 0.3145 0.01283 0.3437 0.03707

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.95 682.3 0.1011 0.2114 0.8409 0.0048740.0008959 0.7214
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6715 0.4710 0.4704 0.02976 0.08725 0.1785
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2998 0.7971 0.7734 0.02095 0.001655 0.2665
k(pl) x(ilm) Q(ilm)
0.009571 0.7334 0.6118

mode liq bi cd g pl ilm q H2O
0 0.2215 0.05178 0.01849 0.3145 0.01283 0.3438 0.03708

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.96 682.2 0.1009 0.2113 0.8410 0.0048760.0008911 0.7212
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6717 0.4708 0.4710 0.02974 0.08729 0.1783
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2995 0.7976 0.7733 0.02095 0.001653 0.2665
k(pl) x(ilm) Q(ilm)
0.009565 0.7334 0.6117

mode liq bi cd g pl ilm q H2O
0 0.2215 0.05159 0.01863 0.3145 0.01283 0.3439 0.03710

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.97 682.1 0.1008 0.2112 0.8411 0.0048790.0008864 0.7210
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6719 0.4705 0.4717 0.02973 0.08732 0.1780
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2992 0.7980 0.7731 0.02096 0.001650 0.2665
k(pl) x(ilm) Q(ilm)
0.009559 0.7333 0.6117

mode liq bi cd g pl ilm q H2O
0 0.2215 0.05141 0.01877 0.3145 0.01283 0.3439 0.03711

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.98  682.1  0.1007 0.2112 0.8412 0.0048810.0008817 0.7208
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6721 0.4702 0.4724 0.02972 0.08736 0.1777
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.2989 0.7985 0.7729 0.02096 0.001648 0.2665
      k(pl) x(ilm) Q(ilm)
      0.009554 0.7332 0.6116

```

```

mode  liq  bi  cd  g  pl  ilm  q  H2O
0  0.2214 0.05122 0.01891 0.3145 0.01282 0.3440 0.03712

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.99  682.0  0.1005 0.2111 0.8413 0.0048840.0008770 0.7206
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6723 0.4700 0.4730 0.02971 0.08739 0.1774
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.2986 0.7989 0.7727 0.02097 0.001646 0.2665
      k(pl) x(ilm) Q(ilm)
      0.009548 0.7332 0.6115

```

```

mode  liq  bi  cd  g  pl  ilm  q  H2O
0  0.2214 0.05103 0.01905 0.3145 0.01282 0.3440 0.03714

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00  682.0  0.1004 0.2110 0.8414 0.0048870.0008723 0.7204
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6725 0.4697 0.4737 0.02969 0.08742 0.1771
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.2983 0.7994 0.7725 0.02097 0.001644 0.2665
      k(pl) x(ilm) Q(ilm)
      0.009542 0.7331 0.6114

```

```

mode  liq  bi  cd  g  pl  ilm  q  H2O
0  0.2214 0.05085 0.01919 0.3145 0.01282 0.3441 0.03715

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.846 66.748 9.232 2.112 4.714 5.105 1.526 2.846 0.675 0.196

```

<=====>

phases : liq, bi, cd, g, pl, ilm, q, H2O

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-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00  693.7  0.1188 0.2174 0.8282 0.005410 0.001742 0.7318
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6478 0.4765 0.3798 0.03212 0.08613 0.2224
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.3169 0.7464 0.7791 0.02306 0.002107 0.3055
      k(pl) x(ilm) Q(ilm)

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0.009018 0.7433 0.6208

mode liq bi cd g pl ilm q H2O
0.1206 0.2088 0.06621 0.01575 0.2704 0.01324 0.3050 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.01 693.6 0.1186 0.2173 0.8283 0.005412 0.001732 0.7316
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6480 0.4763 0.3805 0.03211 0.08617 0.2221
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3166 0.7469 0.7790 0.02306 0.002104 0.3055
k(pl) x(ilm) Q(ilm)
0.009014 0.7432 0.6207

mode liq bi cd g pl ilm q H2O
0.1206 0.2088 0.06602 0.01589 0.2704 0.01324 0.3051 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.02 693.5 0.1184 0.2172 0.8284 0.005413 0.001723 0.7314
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6483 0.4760 0.3812 0.03211 0.08620 0.2218
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3163 0.7475 0.7788 0.02307 0.002100 0.3054
k(pl) x(ilm) Q(ilm)
0.009011 0.7432 0.6207

mode liq bi cd g pl ilm q H2O
0.1205 0.2088 0.06583 0.01603 0.2704 0.01324 0.3052 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.03 693.4 0.1183 0.2171 0.8285 0.005414 0.001713 0.7312
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6485 0.4758 0.3819 0.03210 0.08623 0.2214
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3160 0.7480 0.7786 0.02307 0.002097 0.3054
k(pl) x(ilm) Q(ilm)
0.009007 0.7432 0.6207

mode liq bi cd g pl ilm q H2O
0.1205 0.2088 0.06564 0.01616 0.2704 0.01323 0.3053 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.04 693.4 0.1181 0.2170 0.8286 0.005416 0.001703 0.7310
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6488 0.4755 0.3826 0.03210 0.08626 0.2211
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3157 0.7486 0.7785 0.02307 0.002094 0.3054
k(pl) x(ilm) Q(ilm)
0.009004 0.7431 0.6206

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1204	0.2088	0.06546	0.01630	0.2704	0.01323	0.3054		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.05	693.3	0.1179	0.2170	0.8287	0.005417	0.001694	0.7308		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6490	0.4753	0.3833	0.03210	0.08630	0.2208			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3154	0.7492	0.7783	0.02308	0.002091	0.3053			
	k(pl)	x(ilm)	Q(ilm)						
	0.009000	0.7431	0.6206						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1203	0.2088	0.06527	0.01643	0.2705	0.01323	0.3055		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.06	693.2	0.1178	0.2169	0.8288	0.005419	0.001684	0.7307		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6493	0.4750	0.3840	0.03209	0.08633	0.2205			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3152	0.7497	0.7781	0.02308	0.002088	0.3053			
	k(pl)	x(ilm)	Q(ilm)						
	0.008997	0.7430	0.6206						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1203	0.2088	0.06508	0.01657	0.2705	0.01323	0.3056		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.07	693.2	0.1176	0.2168	0.8289	0.005420	0.001675	0.7305		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6495	0.4748	0.3847	0.03209	0.08636	0.2202			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3149	0.7503	0.7780	0.02309	0.002085	0.3053			
	k(pl)	x(ilm)	Q(ilm)						
	0.008994	0.7430	0.6205						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1202	0.2088	0.06489	0.01671	0.2705	0.01323	0.3057		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.08	693.1	0.1174	0.2167	0.8290	0.005422	0.001665	0.7303		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6498	0.4745	0.3854	0.03208	0.08640	0.2199			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3146	0.7508	0.7778	0.02309	0.002082	0.3052			
	k(pl)	x(ilm)	Q(ilm)						
	0.008990	0.7429	0.6205						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1202	0.2088	0.06470	0.01684	0.2705	0.01322	0.3058		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.09 693.0 0.1173 0.2166 0.8291 0.005423 0.001656 0.7301
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6500 0.4743 0.3861 0.03208 0.08643 0.2196
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3143 0.7514 0.7776 0.02310 0.002079 0.3052
k(pl) x(ilm) Q(ilm)
0.008987 0.7429 0.6204

mode liq bi cd g pl ilm q H2O
0.1201 0.2088 0.06451 0.01698 0.2705 0.01322 0.3059 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.10 692.9 0.1171 0.2165 0.8292 0.005425 0.001647 0.7299
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6503 0.4740 0.3868 0.03207 0.08646 0.2192
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3140 0.7519 0.7775 0.02310 0.002076 0.3052
k(pl) x(ilm) Q(ilm)
0.008983 0.7428 0.6204

mode liq bi cd g pl ilm q H2O
0.1200 0.2088 0.06432 0.01712 0.2705 0.01322 0.3061 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.11 692.9 0.1169 0.2164 0.8293 0.005427 0.001638 0.7297
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6505 0.4738 0.3875 0.03207 0.08650 0.2189
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3137 0.7525 0.7773 0.02311 0.002073 0.3051
k(pl) x(ilm) Q(ilm)
0.008980 0.7428 0.6204

mode liq bi cd g pl ilm q H2O
0.1200 0.2088 0.06413 0.01725 0.2705 0.01322 0.3062 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.12 692.8 0.1168 0.2164 0.8293 0.005428 0.001628 0.7296
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6508 0.4735 0.3882 0.03206 0.08653 0.2186
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3134 0.7530 0.7771 0.02311 0.002070 0.3051
k(pl) x(ilm) Q(ilm)
0.008976 0.7427 0.6203

mode liq bi cd g pl ilm q H2O
0.1199 0.2088 0.06394 0.01739 0.2705 0.01321 0.3063 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.13 692.7 0.1166 0.2163 0.8294 0.005430 0.001619 0.7294
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6510 0.4733 0.3889 0.03206 0.08656 0.2183
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3131 0.7536 0.7770 0.02311 0.002067 0.3051
 k(pl) x(ilm) Q(ilm)
 0.008973 0.7427 0.6203

mode liq bi cd g pl ilm q H2O
 0.1199 0.2087 0.06376 0.01752 0.2705 0.01321 0.3064 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.14 692.7 0.1164 0.2162 0.8295 0.005431 0.001610 0.7292
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6513 0.4730 0.3896 0.03205 0.08660 0.2180
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3128 0.7541 0.7768 0.02312 0.002064 0.3050
 k(pl) x(ilm) Q(ilm)
 0.008969 0.7426 0.6203

mode liq bi cd g pl ilm q H2O
 0.1198 0.2087 0.06357 0.01766 0.2705 0.01321 0.3065 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.15 692.6 0.1163 0.2161 0.8296 0.005433 0.001601 0.7290
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6515 0.4728 0.3903 0.03205 0.08663 0.2177
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3126 0.7547 0.7766 0.02312 0.002061 0.3050
 k(pl) x(ilm) Q(ilm)
 0.008966 0.7426 0.6202

mode liq bi cd g pl ilm q H2O
 0.1197 0.2087 0.06338 0.01780 0.2706 0.01321 0.3066 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.16 692.5 0.1161 0.2160 0.8297 0.005435 0.001592 0.7288
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6517 0.4725 0.3910 0.03204 0.08666 0.2173
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3123 0.7552 0.7764 0.02313 0.002058 0.3050
 k(pl) x(ilm) Q(ilm)
 0.008962 0.7425 0.6202

mode liq bi cd g pl ilm q H2O
 0.1197 0.2087 0.06319 0.01793 0.2706 0.01320 0.3067 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.17 692.4 0.1159 0.2159 0.8298 0.005436 0.001583 0.7286
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6520 0.4723 0.3917 0.03204 0.08670 0.2170
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3120 0.7557 0.7763 0.02313 0.002055 0.3049
k(pl) x(ilm) Q(ilm)
0.008959 0.7425 0.6201

mode liq bi cd g pl ilm q H2O
0.1196 0.2087 0.06300 0.01807 0.2706 0.01320 0.3068 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.18 692.4 0.1158 0.2159 0.8299 0.005438 0.001575 0.7285
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6522 0.4720 0.3925 0.03203 0.08673 0.2167
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3117 0.7563 0.7761 0.02314 0.002052 0.3049
k(pl) x(ilm) Q(ilm)
0.008955 0.7424 0.6201

mode liq bi cd g pl ilm q H2O
0.1196 0.2087 0.06281 0.01820 0.2706 0.01320 0.3069 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.19 692.3 0.1156 0.2158 0.8300 0.005440 0.001566 0.7283
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6525 0.4718 0.3932 0.03203 0.08676 0.2164
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3114 0.7568 0.7759 0.02314 0.002049 0.3049
k(pl) x(ilm) Q(ilm)
0.008952 0.7424 0.6201

mode liq bi cd g pl ilm q H2O
0.1195 0.2087 0.06262 0.01834 0.2706 0.01320 0.3070 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 692.2 0.1154 0.2157 0.8301 0.005441 0.001557 0.7281
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6527 0.4715 0.3939 0.03202 0.08680 0.2161
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3111 0.7574 0.7758 0.02315 0.002046 0.3048
k(pl) x(ilm) Q(ilm)
0.008948 0.7423 0.6200

mode liq bi cd g pl ilm q H2O
0.1194 0.2087 0.06243 0.01848 0.2706 0.01320 0.3071 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.21 692.2 0.1153 0.2156 0.8302 0.005443 0.001548 0.7279
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6530 0.4713 0.3946 0.03201 0.08683 0.2158
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.3108 0.7579 0.7756 0.02315 0.002043 0.3048
k(pl) x(ilm) Q(ilm)
0.008944 0.7423 0.6200

mode liq bi cd g pl ilm q H2O
0.1194 0.2087 0.06224 0.01861 0.2706 0.01319 0.3072 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.22 692.1 0.1151 0.2155 0.8303 0.005445 0.001540 0.7277
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6532 0.4710 0.3953 0.03201 0.08686 0.2154
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3105 0.7584 0.7754 0.02315 0.002040 0.3048
k(pl) x(ilm) Q(ilm)
0.008941 0.7422 0.6199

mode liq bi cd g pl ilm q H2O
0.1193 0.2087 0.06205 0.01875 0.2706 0.01319 0.3073 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.23 692.0 0.1149 0.2154 0.8304 0.005447 0.001531 0.7275
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6535 0.4707 0.3960 0.03200 0.08690 0.2151
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3103 0.7590 0.7753 0.02316 0.002037 0.3047
k(pl) x(ilm) Q(ilm)
0.008937 0.7422 0.6199

mode liq bi cd g pl ilm q H2O
0.1193 0.2087 0.06187 0.01888 0.2706 0.01319 0.3074 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.24 692.0 0.1148 0.2154 0.8305 0.005448 0.001523 0.7274
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6537 0.4705 0.3967 0.03200 0.08693 0.2148
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3100 0.7595 0.7751 0.02316 0.002034 0.3047
k(pl) x(ilm) Q(ilm)
0.008934 0.7421 0.6198

mode liq bi cd g pl ilm q H2O
0.1192 0.2087 0.06168 0.01902 0.2706 0.01319 0.3075 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.25 691.9 0.1146 0.2153 0.8305 0.005450 0.001514 0.7272
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6539 0.4702 0.3974 0.03199 0.08697 0.2145
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3097 0.7600 0.7749 0.02317 0.002031 0.3047
k(pl) x(ilm) Q(ilm)

0.008930 0.7421 0.6198

mode liq bi cd g pl ilm q H2O
0.1192 0.2087 0.06149 0.01916 0.2707 0.01318 0.3076 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.26 691.8 0.1145 0.2152 0.8306 0.005452 0.001506 0.7270
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6542 0.4700 0.3981 0.03199 0.08700 0.2142
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3094 0.7606 0.7747 0.02317 0.002028 0.3046
k(pl) x(ilm) Q(ilm)
0.008927 0.7420 0.6198

mode liq bi cd g pl ilm q H2O
0.1191 0.2087 0.06130 0.01929 0.2707 0.01318 0.3077 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.27 691.7 0.1143 0.2151 0.8307 0.005454 0.001497 0.7268
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6544 0.4697 0.3988 0.03198 0.08703 0.2139
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3091 0.7611 0.7746 0.02318 0.002025 0.3046
k(pl) x(ilm) Q(ilm)
0.008923 0.7419 0.6197

mode liq bi cd g pl ilm q H2O
0.1191 0.2087 0.06111 0.01943 0.2707 0.01318 0.3078 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.28 691.7 0.1141 0.2150 0.8308 0.005455 0.001489 0.7266
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6547 0.4695 0.3995 0.03197 0.08707 0.2135
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3088 0.7616 0.7744 0.02318 0.002022 0.3046
k(pl) x(ilm) Q(ilm)
0.008919 0.7419 0.6197

mode liq bi cd g pl ilm q H2O
0.1190 0.2087 0.06092 0.01956 0.2707 0.01318 0.3079 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.29 691.6 0.1140 0.2150 0.8309 0.005457 0.001481 0.7264
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6549 0.4692 0.4002 0.03197 0.08710 0.2132
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3085 0.7622 0.7742 0.02319 0.002019 0.3046
k(pl) x(ilm) Q(ilm)
0.008916 0.7418 0.6196

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1189	0.2087	0.06073	0.01970	0.2707	0.01318	0.3080	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.30	691.5	0.1138	0.2149	0.8310	0.005459	0.001473	0.7262	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6551	0.4690	0.4009	0.03196	0.08713	0.2129		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.3082	0.7627	0.7741	0.02319	0.002016	0.3045		
	k(pl)	x(ilm)	Q(ilm)					
	0.008912	0.7418	0.6196					

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1189	0.2087	0.06054	0.01983	0.2707	0.01317	0.3082	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.31	691.5	0.1136	0.2148	0.8311	0.005461	0.001465	0.7261	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6554	0.4687	0.4016	0.03195	0.08717	0.2126		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.3080	0.7632	0.7739	0.02320	0.002013	0.3045		
	k(pl)	x(ilm)	Q(ilm)					
	0.008908	0.7417	0.6195					

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1188	0.2087	0.06035	0.01997	0.2707	0.01317	0.3083	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.32	691.4	0.1135	0.2147	0.8312	0.005463	0.001456	0.7259	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6556	0.4685	0.4023	0.03195	0.08720	0.2123		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.3077	0.7638	0.7737	0.02320	0.002011	0.3045		
	k(pl)	x(ilm)	Q(ilm)					
	0.008905	0.7417	0.6195					

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1188	0.2087	0.06017	0.02011	0.2707	0.01317	0.3084	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.33	691.3	0.1133	0.2146	0.8313	0.005465	0.001448	0.7257	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6558	0.4682	0.4030	0.03194	0.08724	0.2120		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.3074	0.7643	0.7735	0.02320	0.002008	0.3044		
	k(pl)	x(ilm)	Q(ilm)					
	0.008901	0.7416	0.6194					

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1187	0.2087	0.05998	0.02024	0.2707	0.01317	0.3085	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.34	691.3	0.1132	0.2145	0.8314	0.005467	0.001440	0.7255
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6561	0.4680	0.4037	0.03193	0.08727	0.2116	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3071	0.7648	0.7734	0.02321	0.002005	0.3044	
	k(pl)	x(ilm)	Q(ilm)				
	0.008898	0.7416	0.6194				

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1187	0.2087	0.05979	0.02038	0.2707	0.01316	0.3086		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.35	691.2	0.1130	0.2145	0.8315	0.005468	0.001432	0.7253
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6563	0.4677	0.4044	0.03193	0.08730	0.2113	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3068	0.7653	0.7732	0.02321	0.002002	0.3044	
	k(pl)	x(ilm)	Q(ilm)				
	0.008894	0.7415	0.6193				

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1186	0.2087	0.05960	0.02051	0.2707	0.01316	0.3087		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.36	691.1	0.1128	0.2144	0.8316	0.005470	0.001425	0.7251
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6566	0.4675	0.4051	0.03192	0.08734	0.2110	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3065	0.7658	0.7730	0.02322	0.001999	0.3043	
	k(pl)	x(ilm)	Q(ilm)				
	0.008890	0.7415	0.6193				

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1186	0.2087	0.05941	0.02065	0.2707	0.01316	0.3088		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.37	691.1	0.1127	0.2143	0.8317	0.005472	0.001417	0.7249
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6568	0.4672	0.4058	0.03191	0.08737	0.2107	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3062	0.7664	0.7728	0.02322	0.001996	0.3043	
	k(pl)	x(ilm)	Q(ilm)				
	0.008887	0.7414	0.6193				

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1185	0.2087	0.05922	0.02078	0.2707	0.01316	0.3089		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.38 691.0 0.1125 0.2142 0.8317 0.005474 0.001409 0.7248
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6570 0.4669 0.4065 0.03191 0.08741 0.2104
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3059 0.7669 0.7727 0.02323 0.001993 0.3043
k(pl) x(ilm) Q(ilm)
0.008883 0.7414 0.6192

mode liq bi cd g pl ilm q H2O
0.1185 0.2087 0.05903 0.02092 0.2708 0.01316 0.3090 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.39 690.9 0.1123 0.2141 0.8318 0.005476 0.001401 0.7246
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6573 0.4667 0.4072 0.03190 0.08744 0.2101
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3057 0.7674 0.7725 0.02323 0.001991 0.3042
k(pl) x(ilm) Q(ilm)
0.008879 0.7413 0.6192

mode liq bi cd g pl ilm q H2O
0.1184 0.2087 0.05884 0.02105 0.2708 0.01315 0.3091 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 690.9 0.1122 0.2141 0.8319 0.005478 0.001393 0.7244
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6575 0.4664 0.4079 0.03189 0.08748 0.2097
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3054 0.7679 0.7723 0.02324 0.001988 0.3042
k(pl) x(ilm) Q(ilm)
0.008876 0.7412 0.6191

mode liq bi cd g pl ilm q H2O
0.1184 0.2087 0.05865 0.02119 0.2708 0.01315 0.3092 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.41 690.8 0.1120 0.2140 0.8320 0.005480 0.001386 0.7242
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6577 0.4662 0.4086 0.03188 0.08751 0.2094
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3051 0.7684 0.7721 0.02324 0.001985 0.3042
k(pl) x(ilm) Q(ilm)
0.008872 0.7412 0.6191

mode liq bi cd g pl ilm q H2O
0.1183 0.2087 0.05847 0.02133 0.2708 0.01315 0.3093 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.42 690.7 0.1119 0.2139 0.8321 0.005482 0.001378 0.7240
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6580 0.4659 0.4093 0.03188 0.08754 0.2091
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3048 0.7690 0.7720 0.02325 0.001982 0.3042
k(pl) x(ilm) Q(ilm)
0.008868 0.7411 0.6190

mode liq bi cd g pl ilm q H2O
0.1183 0.2087 0.05828 0.02146 0.2708 0.01315 0.3094 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.43 690.7 0.1117 0.2138 0.8322 0.005484 0.001370 0.7238
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6582 0.4657 0.4100 0.03187 0.08758 0.2088
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3045 0.7695 0.7718 0.02325 0.001979 0.3041
k(pl) x(ilm) Q(ilm)
0.008864 0.7411 0.6190

mode liq bi cd g pl ilm q H2O
0.1182 0.2087 0.05809 0.02160 0.2708 0.01314 0.3095 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.44 690.6 0.1115 0.2137 0.8323 0.005486 0.001363 0.7236
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6584 0.4654 0.4106 0.03186 0.08761 0.2085
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3042 0.7700 0.7716 0.02326 0.001976 0.3041
k(pl) x(ilm) Q(ilm)
0.008861 0.7410 0.6189

mode liq bi cd g pl ilm q H2O
0.1182 0.2087 0.05790 0.02173 0.2708 0.01314 0.3096 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 690.5 0.1114 0.2137 0.8324 0.005488 0.001355 0.7235
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6587 0.4652 0.4113 0.03186 0.08765 0.2082
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3039 0.7705 0.7714 0.02326 0.001974 0.3041
k(pl) x(ilm) Q(ilm)
0.008857 0.7410 0.6189

mode liq bi cd g pl ilm q H2O
0.1181 0.2087 0.05771 0.02187 0.2708 0.01314 0.3097 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.46 690.5 0.1112 0.2136 0.8325 0.005490 0.001348 0.7233
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6589 0.4649 0.4120 0.03185 0.08768 0.2078
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.3037 0.7710 0.7713 0.02326 0.001971 0.3040
k(pl) x(ilm) Q(ilm)
0.008853 0.7409 0.6188

mode liq bi cd g pl ilm q H2O
0.1181 0.2087 0.05752 0.02200 0.2708 0.01314 0.3098 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.47 690.4 0.1111 0.2135 0.8326 0.005492 0.001341 0.7231
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6591 0.4647 0.4127 0.03184 0.08772 0.2075
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3034 0.7715 0.7711 0.02327 0.001968 0.3040
k(pl) x(ilm) Q(ilm)
0.008849 0.7408 0.6188

mode liq bi cd g pl ilm q H2O
0.1180 0.2087 0.05733 0.02214 0.2708 0.01314 0.3099 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.48 690.3 0.1109 0.2134 0.8327 0.005494 0.001333 0.7229
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6594 0.4644 0.4134 0.03183 0.08775 0.2072
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3031 0.7720 0.7709 0.02327 0.001965 0.3040
k(pl) x(ilm) Q(ilm)
0.008846 0.7408 0.6187

mode liq bi cd g pl ilm q H2O
0.1180 0.2087 0.05715 0.02227 0.2708 0.01313 0.3100 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.49 690.3 0.1108 0.2133 0.8328 0.005496 0.001326 0.7227
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6596 0.4641 0.4141 0.03182 0.08778 0.2069
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3028 0.7725 0.7707 0.02328 0.001963 0.3039
k(pl) x(ilm) Q(ilm)
0.008842 0.7407 0.6186

mode liq bi cd g pl ilm q H2O
0.1179 0.2087 0.05696 0.02241 0.2708 0.01313 0.3101 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 690.2 0.1106 0.2132 0.8329 0.005498 0.001319 0.7225
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6598 0.4639 0.4148 0.03182 0.08782 0.2066
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3025 0.7730 0.7706 0.02328 0.001960 0.3039
k(pl) x(ilm) Q(ilm)

0.008838 0.7407 0.6186

mode liq bi cd g pl ilm q H2O
0.1179 0.2087 0.05677 0.02254 0.2708 0.01313 0.3102 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.51 690.1 0.1104 0.2132 0.8329 0.005500 0.001311 0.7223
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6601 0.4636 0.4155 0.03181 0.08785 0.2063
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3022 0.7735 0.7704 0.02329 0.001957 0.3039
k(pl) x(ilm) Q(ilm)
0.008834 0.7406 0.6185

mode liq bi cd g pl ilm q H2O
0.1178 0.2087 0.05658 0.02268 0.2709 0.01313 0.3103 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.52 690.1 0.1103 0.2131 0.8330 0.005503 0.001304 0.7221
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6603 0.4634 0.4162 0.03180 0.08789 0.2059
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3020 0.7740 0.7702 0.02329 0.001954 0.3039
k(pl) x(ilm) Q(ilm)
0.008831 0.7406 0.6185

mode liq bi cd g pl ilm q H2O
0.1178 0.2087 0.05639 0.02281 0.2709 0.01312 0.3104 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.53 690.0 0.1101 0.2130 0.8331 0.005505 0.001297 0.7220
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6605 0.4631 0.4169 0.03179 0.08792 0.2056
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3017 0.7745 0.7700 0.02330 0.001952 0.3038
k(pl) x(ilm) Q(ilm)
0.008827 0.7405 0.6184

mode liq bi cd g pl ilm q H2O
0.1177 0.2086 0.05620 0.02295 0.2709 0.01312 0.3105 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.54 689.9 0.1100 0.2129 0.8332 0.005507 0.001290 0.7218
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6608 0.4629 0.4176 0.03178 0.08796 0.2053
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3014 0.7750 0.7699 0.02330 0.001949 0.3038
k(pl) x(ilm) Q(ilm)
0.008823 0.7404 0.6184

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1177	0.2086	0.05601	0.02308	0.2709	0.01312	0.3106		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.55	689.9	0.1098	0.2129	0.8333	0.005509	0.001283	0.7216		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6610	0.4626	0.4183	0.03178	0.08799	0.2050			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3011	0.7755	0.7697	0.02331	0.001946	0.3038			
	k(pl)	x(ilm)	Q(ilm)						
	0.008819	0.7404	0.6183						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1176	0.2086	0.05583	0.02322	0.2709	0.01312	0.3107		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.56	689.8	0.1096	0.2128	0.8334	0.005511	0.001276	0.7214		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6612	0.4623	0.4190	0.03177	0.08803	0.2047			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3008	0.7760	0.7695	0.02331	0.001943	0.3037			
	k(pl)	x(ilm)	Q(ilm)						
	0.008816	0.7403	0.6183						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1176	0.2086	0.05564	0.02335	0.2709	0.01312	0.3108		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.57	689.8	0.1095	0.2127	0.8335	0.005513	0.001269	0.7212		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6614	0.4621	0.4197	0.03176	0.08806	0.2044			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3005	0.7765	0.7693	0.02332	0.001941	0.3037			
	k(pl)	x(ilm)	Q(ilm)						
	0.008812	0.7403	0.6182						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1175	0.2086	0.05545	0.02349	0.2709	0.01311	0.3109		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.58	689.7	0.1093	0.2126	0.8336	0.005515	0.001262	0.7210		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6617	0.4618	0.4204	0.03175	0.08810	0.2041			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.3003	0.7770	0.7691	0.02332	0.001938	0.3037			
	k(pl)	x(ilm)	Q(ilm)						
	0.008808	0.7402	0.6182						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1175	0.2086	0.05526	0.02362	0.2709	0.01311	0.3110		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.59	689.6	0.1092	0.2125	0.8337	0.005518	0.001255	0.7208
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6619	0.4616	0.4211	0.03174	0.08813	0.2037	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3000	0.7775	0.7690	0.02333	0.001935	0.3037	
	k(pl)	x(ilm)	Q(ilm)				
	0.008804	0.7401	0.6181				

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1174	0.2086	0.05507	0.02376	0.2709	0.01311	0.3111		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.60	689.6	0.1090	0.2125	0.8338	0.005520	0.001248	0.7207
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6621	0.4613	0.4218	0.03173	0.08817	0.2034	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2997	0.7780	0.7688	0.02333	0.001933	0.3036	
	k(pl)	x(ilm)	Q(ilm)				
	0.008800	0.7401	0.6180				

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1174	0.2086	0.05488	0.02389	0.2709	0.01311	0.3112		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.61	689.5	0.1089	0.2124	0.8339	0.005522	0.001242	0.7205
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6624	0.4611	0.4224	0.03172	0.08820	0.2031	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2994	0.7785	0.7686	0.02334	0.001930	0.3036	
	k(pl)	x(ilm)	Q(ilm)				
	0.008796	0.7400	0.6180				

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1173	0.2086	0.05470	0.02403	0.2709	0.01311	0.3113		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.62	689.4	0.1087	0.2123	0.8340	0.005524	0.001235	0.7203
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6626	0.4608	0.4231	0.03172	0.08823	0.2028	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.2991	0.7790	0.7684	0.02334	0.001927	0.3036	
	k(pl)	x(ilm)	Q(ilm)				
	0.008793	0.7400	0.6179				

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1173	0.2086	0.05451	0.02416	0.2709	0.01310	0.3114		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

6.63 689.4 0.1086 0.2122 0.8341 0.005527 0.001228 0.7201
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6628 0.4606 0.4238 0.03171 0.08827 0.2025
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2988 0.7795 0.7682 0.02334 0.001925 0.3035
 k(pl) x(ilm) Q(ilm)
 0.008789 0.7399 0.6179

mode liq bi cd g pl ilm q H2O
 0.1172 0.2086 0.05432 0.02430 0.2709 0.01310 0.3115 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.64 689.3 0.1084 0.2121 0.8341 0.005529 0.001221 0.7199
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6630 0.4603 0.4245 0.03170 0.08830 0.2022
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2986 0.7800 0.7681 0.02335 0.001922 0.3035
 k(pl) x(ilm) Q(ilm)
 0.008785 0.7398 0.6178

mode liq bi cd g pl ilm q H2O
 0.1172 0.2086 0.05413 0.02443 0.2709 0.01310 0.3116 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.65 689.2 0.1082 0.2121 0.8342 0.005531 0.001215 0.7197
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6633 0.4600 0.4252 0.03169 0.08834 0.2018
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2983 0.7805 0.7679 0.02335 0.001919 0.3035
 k(pl) x(ilm) Q(ilm)
 0.008781 0.7398 0.6178

mode liq bi cd g pl ilm q H2O
 0.1171 0.2086 0.05394 0.02456 0.2709 0.01310 0.3117 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.66 689.2 0.1081 0.2120 0.8343 0.005533 0.001208 0.7195
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6635 0.4598 0.4259 0.03168 0.08837 0.2015
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2980 0.7810 0.7677 0.02336 0.001917 0.3035
 k(pl) x(ilm) Q(ilm)
 0.008777 0.7397 0.6177

mode liq bi cd g pl ilm q H2O
 0.1171 0.2086 0.05375 0.02470 0.2709 0.01309 0.3118 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.67 689.1 0.1079 0.2119 0.8344 0.005536 0.001202 0.7193
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6637 0.4595 0.4266 0.03167 0.08841 0.2012
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2977 0.7815 0.7675 0.02336 0.001914 0.3034
k(pl) x(ilm) Q(ilm)
0.008773 0.7397 0.6176

mode liq bi cd g pl ilm q H2O
0.1170 0.2086 0.05357 0.02483 0.2709 0.01309 0.3119 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.68 689.1 0.1078 0.2118 0.8345 0.005538 0.001195 0.7191
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6639 0.4593 0.4273 0.03166 0.08844 0.2009
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2974 0.7820 0.7673 0.02337 0.001911 0.3034
k(pl) x(ilm) Q(ilm)
0.008769 0.7396 0.6176

mode liq bi cd g pl ilm q H2O
0.1170 0.2086 0.05338 0.02497 0.2710 0.01309 0.3120 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.69 689.0 0.1076 0.2117 0.8346 0.005540 0.001189 0.7190
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6642 0.4590 0.4280 0.03165 0.08848 0.2006
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2971 0.7825 0.7672 0.02337 0.001909 0.3034
k(pl) x(ilm) Q(ilm)
0.008765 0.7395 0.6175

mode liq bi cd g pl ilm q H2O
0.1170 0.2086 0.05319 0.02510 0.2710 0.01309 0.3121 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 688.9 0.1075 0.2117 0.8347 0.005543 0.001182 0.7188
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6644 0.4588 0.4287 0.03164 0.08851 0.2003
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2969 0.7829 0.7670 0.02338 0.001906 0.3033
k(pl) x(ilm) Q(ilm)
0.008761 0.7395 0.6175

mode liq bi cd g pl ilm q H2O
0.1169 0.2086 0.05300 0.02524 0.2710 0.01309 0.3122 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.71 688.9 0.1073 0.2116 0.8348 0.005545 0.001176 0.7186
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6646 0.4585 0.4294 0.03163 0.08855 0.2000
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2966 0.7834 0.7668 0.02338 0.001904 0.3033
k(pl) x(ilm) Q(ilm)
0.008758 0.7394 0.6174

mode liq bi cd g pl ilm q H2O
0.1169 0.2086 0.05281 0.02537 0.2710 0.01308 0.3123 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.72 688.8 0.1072 0.2115 0.8349 0.005547 0.001169 0.7184
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6648 0.4582 0.4300 0.03162 0.08858 0.1996
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2963 0.7839 0.7666 0.02339 0.001901 0.3033
k(pl) x(ilm) Q(ilm)
0.008754 0.7394 0.6173

mode liq bi cd g pl ilm q H2O
0.1168 0.2086 0.05263 0.02550 0.2710 0.01308 0.3124 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.73 688.7 0.1070 0.2114 0.8350 0.005550 0.001163 0.7182
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6651 0.4580 0.4307 0.03161 0.08862 0.1993
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2960 0.7844 0.7664 0.02339 0.001898 0.3033
k(pl) x(ilm) Q(ilm)
0.008750 0.7393 0.6173

mode liq bi cd g pl ilm q H2O
0.1168 0.2086 0.05244 0.02564 0.2710 0.01308 0.3125 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.74 688.7 0.1069 0.2114 0.8351 0.005552 0.001157 0.7180
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6653 0.4577 0.4314 0.03160 0.08865 0.1990
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2957 0.7849 0.7663 0.02340 0.001896 0.3032
k(pl) x(ilm) Q(ilm)
0.008746 0.7392 0.6172

mode liq bi cd g pl ilm q H2O
0.1167 0.2086 0.05225 0.02577 0.2710 0.01308 0.3126 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.75 688.6 0.1067 0.2113 0.8352 0.005554 0.001150 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6655 0.4575 0.4321 0.03159 0.08869 0.1987
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2955 0.7854 0.7661 0.02340 0.001893 0.3032
k(pl) x(ilm) Q(ilm)

0.008742 0.7392 0.6172

mode liq bi cd g pl ilm q H2O
0.1167 0.2086 0.05206 0.02591 0.2710 0.01308 0.3127 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.76 688.6 0.1065 0.2112 0.8353 0.005557 0.001144 0.7176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6657 0.4572 0.4328 0.03158 0.08872 0.1984
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2952 0.7858 0.7659 0.02341 0.001891 0.3032
k(pl) x(ilm) Q(ilm)
0.008738 0.7391 0.6171

mode liq bi cd g pl ilm q H2O
0.1166 0.2086 0.05187 0.02604 0.2710 0.01307 0.3128 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.77 688.5 0.1064 0.2111 0.8353 0.005559 0.001138 0.7175
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6659 0.4570 0.4335 0.03157 0.08876 0.1981
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2949 0.7863 0.7657 0.02341 0.001888 0.3031
k(pl) x(ilm) Q(ilm)
0.008734 0.7390 0.6170

mode liq bi cd g pl ilm q H2O
0.1166 0.2086 0.05169 0.02617 0.2710 0.01307 0.3129 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.78 688.4 0.1062 0.2110 0.8354 0.005562 0.001132 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6662 0.4567 0.4342 0.03156 0.08879 0.1978
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2946 0.7868 0.7655 0.02342 0.001885 0.3031
k(pl) x(ilm) Q(ilm)
0.008730 0.7390 0.6170

mode liq bi cd g pl ilm q H2O
0.1166 0.2086 0.05150 0.02631 0.2710 0.01307 0.3130 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.79 688.4 0.1061 0.2110 0.8355 0.005564 0.001126 0.7171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6664 0.4564 0.4348 0.03155 0.08883 0.1974
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2943 0.7873 0.7654 0.02342 0.001883 0.3031
k(pl) x(ilm) Q(ilm)
0.008726 0.7389 0.6169

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mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1165 0.2086 0.05131 0.02644 0.2710 0.01307 0.3131 0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80  688.3 0.1059 0.2109 0.8356 0.005566 0.001120 0.7169
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6666 0.4562 0.4355 0.03154 0.08886 0.1971
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.2940 0.7877 0.7652 0.02343 0.001880 0.3031
      k(pl) x(ilm) Q(ilm)
      0.008722 0.7389 0.6168

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mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1165 0.2086 0.05112 0.02658 0.2710 0.01306 0.3132 0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.81  688.2 0.1058 0.2108 0.8357 0.005569 0.001114 0.7167
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6668 0.4559 0.4362 0.03153 0.08890 0.1968
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.2938 0.7882 0.7650 0.02343 0.001878 0.3030
      k(pl) x(ilm) Q(ilm)
      0.008718 0.7388 0.6168

```

```

mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1164 0.2086 0.05094 0.02671 0.2710 0.01306 0.3133 0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.82  688.2 0.1056 0.2107 0.8358 0.005571 0.001108 0.7165
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6670 0.4557 0.4369 0.03152 0.08893 0.1965
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.2935 0.7887 0.7648 0.02344 0.001875 0.3030
      k(pl) x(ilm) Q(ilm)
      0.008714 0.7387 0.6167

```

```

mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1164 0.2085 0.05075 0.02684 0.2710 0.01306 0.3134 0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.83  688.1 0.1055 0.2107 0.8359 0.005574 0.001102 0.7163
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6673 0.4554 0.4376 0.03151 0.08897 0.1962
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.2932 0.7892 0.7646 0.02344 0.001873 0.3030
      k(pl) x(ilm) Q(ilm)
      0.008710 0.7387 0.6167

```

```

mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1163 0.2085 0.05056 0.02698 0.2710 0.01306 0.3135 0

```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.84 688.1 0.1053 0.2106 0.8360 0.005576 0.001096 0.7161
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6675 0.4552 0.4383 0.03150 0.08900 0.1959
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2929 0.7896 0.7644 0.02345 0.001870 0.3029
k(pl) x(ilm) Q(ilm)
0.008706 0.7386 0.6166

mode liq bi cd g pl ilm q H2O
0.1163 0.2085 0.05037 0.02711 0.2710 0.01306 0.3136 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.85 688.0 0.1052 0.2105 0.8361 0.005579 0.001090 0.7159
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6677 0.4549 0.4390 0.03149 0.08904 0.1956
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2926 0.7901 0.7643 0.02345 0.001868 0.3029
k(pl) x(ilm) Q(ilm)
0.008702 0.7385 0.6165

mode liq bi cd g pl ilm q H2O
0.1163 0.2085 0.05019 0.02724 0.2710 0.01305 0.3137 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.86 687.9 0.1050 0.2104 0.8362 0.005581 0.001084 0.7158
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6679 0.4546 0.4396 0.03148 0.08908 0.1952
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2924 0.7906 0.7641 0.02346 0.001865 0.3029
k(pl) x(ilm) Q(ilm)
0.008698 0.7385 0.6165

mode liq bi cd g pl ilm q H2O
0.1162 0.2085 0.05000 0.02738 0.2710 0.01305 0.3138 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.87 687.9 0.1049 0.2103 0.8363 0.005584 0.001078 0.7156
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6681 0.4544 0.4403 0.03147 0.08911 0.1949
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2921 0.7910 0.7639 0.02346 0.001862 0.3029
k(pl) x(ilm) Q(ilm)
0.008694 0.7384 0.6164

mode liq bi cd g pl ilm q H2O
0.1162 0.2085 0.04981 0.02751 0.2710 0.01305 0.3139 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.88 687.8 0.1047 0.2103 0.8364 0.005586 0.001072 0.7154
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6684 0.4541 0.4410 0.03146 0.08915 0.1946
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2918 0.7915 0.7637 0.02347 0.001860 0.3028
k(pl) x(ilm) Q(ilm)
0.008690 0.7383 0.6163

mode liq bi cd g pl ilm q H2O
0.1161 0.2085 0.04962 0.02764 0.2710 0.01305 0.3140 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.89 687.8 0.1046 0.2102 0.8365 0.005589 0.001066 0.7152
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6686 0.4539 0.4417 0.03145 0.08918 0.1943
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2915 0.7920 0.7635 0.02347 0.001857 0.3028
k(pl) x(ilm) Q(ilm)
0.008686 0.7383 0.6163

mode liq bi cd g pl ilm q H2O
0.1161 0.2085 0.04944 0.02778 0.2711 0.01305 0.3141 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 687.7 0.1044 0.2101 0.8365 0.005592 0.001061 0.7150
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6688 0.4536 0.4424 0.03144 0.08922 0.1940
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2913 0.7924 0.7634 0.02348 0.001855 0.3028
k(pl) x(ilm) Q(ilm)
0.008682 0.7382 0.6162

mode liq bi cd g pl ilm q H2O
0.1160 0.2085 0.04925 0.02791 0.2711 0.01304 0.3142 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.91 687.6 0.1043 0.2100 0.8366 0.005594 0.001055 0.7148
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6690 0.4533 0.4431 0.03143 0.08925 0.1937
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2910 0.7929 0.7632 0.02348 0.001852 0.3028
k(pl) x(ilm) Q(ilm)
0.008678 0.7381 0.6161

mode liq bi cd g pl ilm q H2O
0.1160 0.2085 0.04906 0.02804 0.2711 0.01304 0.3143 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.92 687.6 0.1041 0.2100 0.8367 0.005597 0.001049 0.7146
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6692 0.4531 0.4437 0.03142 0.08929 0.1934
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2907 0.7934 0.7630 0.02348 0.001850 0.3027
k(pl) x(ilm) Q(ilm)
0.008674 0.7381 0.6161

mode liq bi cd g pl ilm q H2O
0.1160 0.2085 0.04888 0.02818 0.2711 0.01304 0.3144 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.93 687.5 0.1040 0.2099 0.8368 0.005599 0.001044 0.7144
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6694 0.4528 0.4444 0.03141 0.08932 0.1931
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2904 0.7938 0.7628 0.02349 0.001847 0.3027
k(pl) x(ilm) Q(ilm)
0.008670 0.7380 0.6160

mode liq bi cd g pl ilm q H2O
0.1159 0.2085 0.04869 0.02831 0.2711 0.01304 0.3145 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.94 687.5 0.1038 0.2098 0.8369 0.005602 0.001038 0.7142
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6697 0.4526 0.4451 0.03139 0.08936 0.1927
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2901 0.7943 0.7626 0.02349 0.001845 0.3027
k(pl) x(ilm) Q(ilm)
0.008666 0.7379 0.6159

mode liq bi cd g pl ilm q H2O
0.1159 0.2085 0.04850 0.02844 0.2711 0.01304 0.3146 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.95 687.4 0.1037 0.2097 0.8370 0.005604 0.001032 0.7141
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6699 0.4523 0.4458 0.03138 0.08939 0.1924
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2899 0.7948 0.7624 0.02350 0.001842 0.3026
k(pl) x(ilm) Q(ilm)
0.008662 0.7379 0.6159

mode liq bi cd g pl ilm q H2O
0.1158 0.2085 0.04831 0.02858 0.2711 0.01303 0.3147 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.96 687.3 0.1035 0.2096 0.8371 0.005607 0.001027 0.7139
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6701 0.4521 0.4465 0.03137 0.08943 0.1921
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2896 0.7952 0.7622 0.02350 0.001840 0.3026
k(pl) x(ilm) Q(ilm)
0.008657 0.7378 0.6158

mode liq bi cd g pl ilm q H2O
0.1158 0.2085 0.04813 0.02871 0.2711 0.01303 0.3148 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.97 687.3 0.1034 0.2096 0.8372 0.005610 0.001021 0.7137
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6703 0.4518 0.4471 0.03136 0.08946 0.1918
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2893 0.7957 0.7621 0.02351 0.001837 0.3026
k(pl) x(ilm) Q(ilm)
0.008653 0.7378 0.6157

mode liq bi cd g pl ilm q H2O
0.1158 0.2085 0.04794 0.02884 0.2711 0.01303 0.3149 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.98 687.2 0.1032 0.2095 0.8373 0.005612 0.001016 0.7135
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6705 0.4515 0.4478 0.03135 0.08950 0.1915
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2890 0.7961 0.7619 0.02351 0.001835 0.3026
k(pl) x(ilm) Q(ilm)
0.008649 0.7377 0.6156

mode liq bi cd g pl ilm q H2O
0.1157 0.2085 0.04775 0.02897 0.2711 0.01303 0.3150 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.99 687.2 0.1031 0.2094 0.8374 0.005615 0.001010 0.7133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6707 0.4513 0.4485 0.03134 0.08953 0.1912
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2888 0.7966 0.7617 0.02352 0.001833 0.3025
k(pl) x(ilm) Q(ilm)
0.008645 0.7376 0.6156

mode liq bi cd g pl ilm q H2O
0.1157 0.2085 0.04757 0.02911 0.2711 0.01303 0.3150 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 687.1 0.1029 0.2093 0.8375 0.005618 0.001005 0.7131
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6709 0.4510 0.4492 0.03133 0.08957 0.1909
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2885 0.7970 0.7615 0.02352 0.001830 0.3025
k(pl) x(ilm) Q(ilm)

0.008641 0.7376 0.6155

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1156	0.2085	0.04738	0.02924	0.2711	0.01302	0.3151		0

SIMILAR 01

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, H2O, (ru, ky, q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.50	683.8	0.06796	0.1919	0.8201	0.0093180	0.0007851	0.7287
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7280	0.4303	0.2799	0.1007	0.09573	0.2583	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.8094	0.1867	0.04494	0.4139	0.9241	0.1568	
	ca(pl)	k(pl)					
	0.3566	0.008147					

mode	liq	bi	g	mu	pl	ru	ky	q	H2O
0	0.2770	0.02226	0.01450	0.3340	0.003518	0.01898	0.2960	0.03374	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.75	682.9	0.06522	0.1913	0.8315	0.0092980	0.0007595	0.7166
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7316	0.4092	0.2678	0.09996	0.09624	0.2690	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7998	0.2035	0.05029	0.3949	0.9231	0.1655	
	ca(pl)	k(pl)					
	0.3470	0.007885					

mode	liq	bi	g	mu	pl	ru	ky	q	H2O
0	0.2599	0.03807	0.03164	0.3258	0.003721	0.01498	0.2929	0.03301	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	681.7	0.06251	0.1908	0.8429	0.0092330	0.0007335	0.7042
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7351	0.3894	0.2570	0.09784	0.09668	0.2786	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7897	0.2192	0.05464	0.3762	0.9225	0.1758	
	ca(pl)	k(pl)					
	0.3360	0.007625					

mode	liq	bi	g	mu	pl	ru	ky	q	H2O
0	0.2445	0.05291	0.04751	0.3171	0.003905	0.01160	0.2902	0.03228	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.25	680.4	0.05985	0.1903	0.8543	0.0091270	0.0007074	0.6916
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7385	0.3707	0.2471	0.09475	0.09704	0.2870	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7794	0.2336	0.05789	0.3581	0.9223	0.1882	
	ca(pl)	k(pl)					

0.3240 0.007364

mode liq bi g mu pl ru ky q H2O
0 0.2305 0.06693 0.06252 0.3079 0.004075 0.008618 0.2879 0.03151

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 678.9 0.05723 0.1898 0.8653 0.0089840.0006815 0.6788
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7420 0.3531 0.2380 0.09107 0.09731 0.2941
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7688 0.2467 0.06014 0.3404 0.9227 0.2034
ca(pl) k(pl)
0.3110 0.007099

mode liq bi g mu pl ru ky q H2O
0 0.2176 0.08029 0.07707 0.2982 0.004234 0.005856 0.2861 0.03067

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.75 677.2 0.05468 0.1893 0.8760 0.0088060.0006559 0.6657
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7453 0.3364 0.2294 0.08704 0.09749 0.3000
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7579 0.2587 0.06153 0.3232 0.9241 0.2222
ca(pl) k(pl)
0.2973 0.006827

mode liq bi g mu pl ru ky q H2O
0 0.2056 0.09313 0.09166 0.2877 0.004384 0.003109 0.2846 0.02971

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 675.3 0.05219 0.1889 0.8863 0.0085990.0006310 0.6523
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7486 0.3205 0.2211 0.08285 0.09757 0.3047
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7467 0.2695 0.06224 0.3065 0.9267 0.2467
ca(pl) k(pl)
0.2830 0.006546

mode liq bi g mu pl ru ky q H2O
0 0.1944 0.1056 0.1070 0.2763 0.0045280.0001066 0.2836 0.02853

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : liq, bi, g, mu, pl, ru, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 686.4 0.06843 0.1903 0.8114 0.010130.0007781 0.7223
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7283 0.4186 0.2785 0.09877 0.09725 0.2606

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.8044 0.2107 0.05322 0.4038 0.9208 0.1469
 ca(pl) k(pl)
 0.3794 0.007904

mode liq bi g mu pl ru ky q H2O
 0.08835 0.2682 0.03122 0.01078 0.2979 0.003576 0.02044 0.2795 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.80 685.5 0.06611 0.1899 0.8220 0.010060.0007565 0.7124
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7313 0.4021 0.2693 0.09714 0.09763 0.2690
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7964 0.2231 0.05657 0.3884 0.9200 0.1541
 ca(pl) k(pl)
 0.3697 0.007717

mode liq bi g mu pl ru ky q H2O
 0.08585 0.2549 0.04384 0.02484 0.2914 0.003736 0.01744 0.2780 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.00 684.4 0.06381 0.1896 0.8324 0.0099580.0007347 0.7024
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7342 0.3864 0.2609 0.09489 0.09795 0.2765
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7882 0.2345 0.05917 0.3735 0.9194 0.1623
 ca(pl) k(pl)
 0.3591 0.007528

mode liq bi g mu pl ru ky q H2O
 0.08340 0.2427 0.05579 0.03808 0.2847 0.003885 0.01478 0.2767 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.20 683.2 0.06154 0.1893 0.8427 0.0098310.0007127 0.6922
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7370 0.3714 0.2530 0.09219 0.09820 0.2833
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7798 0.2451 0.06107 0.3589 0.9191 0.1717
 ca(pl) k(pl)
 0.3479 0.007338

mode liq bi g mu pl ru ky q H2O
 0.08097 0.2315 0.06717 0.05069 0.2777 0.004025 0.01237 0.2756 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.40 681.9 0.05931 0.1890 0.8527 0.0096780.0006908 0.6820
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7398 0.3572 0.2454 0.08921 0.09839 0.2893
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7713 0.2549 0.06239 0.3447 0.9192 0.1827

ca(pl) k(pl)
0.3361 0.007143

mode	liq	bi	g	mu	pl	ru	ky	q	H2O	
	0.07851	0.2209	0.07807	0.06290	0.2705	0.004157	0.01011	0.2748		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 680.4 0.05712 0.1888 0.8625 0.0094990.0006691 0.6716
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7426 0.3436 0.2382 0.08608 0.09851 0.2946
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7627 0.2640 0.06320 0.3308 0.9197 0.1955
ca(pl) k(pl)
0.3237 0.006945

mode	liq	bi	g	mu	pl	ru	ky	q	H2O	
	0.07597	0.2111	0.08856	0.07491	0.2631	0.004283	0.007927	0.2742		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 678.8 0.05497 0.1885 0.8720 0.0092950.0006478 0.6611
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7454 0.3306 0.2312 0.08288 0.09855 0.2990
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7539 0.2723 0.06361 0.3173 0.9208 0.2109
ca(pl) k(pl)
0.3107 0.006740

mode	liq	bi	g	mu	pl	ru	ky	q	H2O	
	0.07329	0.2017	0.09870	0.08696	0.2553	0.004404	0.005711	0.2739		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 677.1 0.05287 0.1882 0.8812 0.0090710.0006271 0.6504
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7481 0.3181 0.2243 0.07967 0.09852 0.3027
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7449 0.2800 0.06367 0.3042 0.9228 0.2297
ca(pl) k(pl)
0.2974 0.006528

mode	liq	bi	g	mu	pl	ru	ky	q	H2O	
	0.07036	0.1929	0.1086	0.09941	0.2471	0.004521	0.003328	0.2738		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 675.3 0.05084 0.1880 0.8900 0.0088290.0006073 0.6396
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7508 0.3061 0.2176 0.07650 0.09842 0.3056
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7357 0.2871 0.06345 0.2913 0.9260 0.2539
ca(pl) k(pl)
0.2838 0.006306

mode liq bi g mu pl ru ky q H2O
0.06699 0.1844 0.1183 0.1128 0.2382 0.0046350.0005667 0.2741 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : liq, bi, g, mu, pl, ru, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 684.1 0.06906 0.1922 0.8156 0.0093130.0007951 0.7334
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7265 0.4390 0.2851 0.1006 0.09551 0.2537
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8132 0.1798 0.04261 0.4216 0.9246 0.1538
ca(pl) k(pl)
0.3601 0.008253

mode liq bi g mu pl ru ky q H2O
0 0.2844 0.01562 0.007193 0.3371 0.003431 0.02079 0.2975 0.03404

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 683.4 0.06686 0.1917 0.8246 0.0093150.0007749 0.7239
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7294 0.4217 0.2749 0.1006 0.09594 0.2627
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8056 0.1935 0.04718 0.4062 0.9237 0.1601
ca(pl) k(pl)
0.3529 0.008042

mode liq bi g mu pl ru ky q H2O
0 0.2699 0.02871 0.02153 0.3308 0.003602 0.01729 0.2947 0.03345

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 682.7 0.06468 0.1912 0.8338 0.0092880.0007543 0.7141
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7323 0.4051 0.2655 0.09964 0.09633 0.2710
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7978 0.2068 0.05125 0.3911 0.9230 0.1674
ca(pl) k(pl)
0.3449 0.007833

mode liq bi g mu pl ru ky q H2O
0 0.2567 0.04112 0.03490 0.3241 0.003759 0.01426 0.2923 0.03287

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 681.7 0.06251 0.1908 0.8429 0.0092330.0007335 0.7042
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7351 0.3894 0.2570 0.09784 0.09668 0.2786
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7897 0.2192 0.05464 0.3762 0.9225 0.1758
ca(pl) k(pl)
0.3360 0.007625

mode liq bi g mu pl ru ky q H2O
0 0.2445 0.05291 0.04751 0.3171 0.003905 0.01160 0.2902 0.03228

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 680.7 0.06038 0.1904 0.8520 0.0091510.0007126 0.6942
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7379 0.3743 0.2490 0.09543 0.09698 0.2854
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7815 0.2309 0.05732 0.3617 0.9223 0.1856
ca(pl) k(pl)
0.3265 0.007416

mode liq bi g mu pl ru ky q H2O
0 0.2332 0.06419 0.05957 0.3098 0.004042 0.009190 0.2884 0.03167

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 679.5 0.05827 0.1900 0.8609 0.0090450.0006918 0.6839
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7406 0.3600 0.2416 0.09260 0.09722 0.2914
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7731 0.2417 0.05935 0.3474 0.9225 0.1969
ca(pl) k(pl)
0.3163 0.007205

mode liq bi g mu pl ru ky q H2O
0 0.2226 0.07502 0.07128 0.3022 0.004171 0.006947 0.2868 0.03102

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 678.2 0.05620 0.1896 0.8696 0.0089160.0006712 0.6736
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7433 0.3463 0.2345 0.08949 0.09740 0.2966
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7645 0.2517 0.06079 0.3335 0.9231 0.2104
ca(pl) k(pl)
0.3056 0.006991

mode liq bi g mu pl ru ky q H2O
0 0.2127 0.08548 0.08287 0.2941 0.004295 0.004768 0.2855 0.03030

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 676.8 0.05417 0.1892 0.8781 0.0087660.0006508 0.6630
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7460 0.3332 0.2277 0.08621 0.09751 0.3011
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7557 0.2609 0.06172 0.3199 0.9245 0.2266
ca(pl) k(pl)
0.2945 0.006772

mode liq bi g mu pl ru ky q H2O
0 0.2033 0.09565 0.09463 0.2855 0.004413 0.002540 0.2844 0.02949

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 675.3 0.05219 0.1889 0.8863 0.0085990.0006310 0.6523
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7486 0.3205 0.2211 0.08285 0.09757 0.3047
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7467 0.2695 0.06224 0.3065 0.9267 0.2467
ca(pl) k(pl)
0.2830 0.006547

mode liq bi g mu pl ru ky q H2O
0 0.1944 0.1056 0.1070 0.2763 0.0045280.0001067 0.2836 0.02853

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ru, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 686.0 0.07013 0.1912 0.8065 0.0098440.0007978 0.7326
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7258 0.4372 0.2872 0.09995 0.09634 0.2523
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8127 0.1910 0.04667 0.4202 0.9229 0.1454
ca(pl) k(pl)
0.3779 0.008151

mode liq bi g mu pl ru ky q H2O
0.05797 0.2833 0.01697 0 0.3160 0.003413 0.02273 0.2873 0.01228

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ru, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 675.0 0.05073 0.1880 0.8908 0.0087560.0006081 0.6399
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7509 0.3065 0.2171 0.07701 0.09827 0.3059
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7360 0.2855 0.06328 0.2917 0.9267 0.2570
ca(pl) k(pl)

0.2816 0.006308

mode	liq	bi	g	mu	pl	ru	ky	q	H2O
	0.05558	0.1846	0.1178	0.1141	0.2430	0.004635	0	0.2757	0.004649

<=====>

phases : liq, bi, g, mu, pl, ru, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.24	675.0	0.05047	0.1879	0.8916	0.0087840	0.0006038	0.6376
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7513	0.3040	0.2164	0.07593	0.09840	0.3060	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7340	0.2883	0.06339	0.2890	0.9268	0.2591	
	ca(pl)	k(pl)					
	0.2813	0.006265					

mode	liq	bi	g	mu	pl	ru	ky	q	H2O
	0.06630	0.1829	0.1200	0.1154	0.2365	0.004655	0	0.2742	0

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ru, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.01	675.3	0.05211	0.1889	0.8867	0.0085920	0.0006302	0.6519
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7487	0.3200	0.2208	0.08271	0.09757	0.3048	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7463	0.2699	0.06225	0.3060	0.9268	0.2477	
	ca(pl)	k(pl)					
	0.2825	0.006537					

mode	liq	bi	g	mu	pl	ru	ky	q	H2O
	0	0.1940	0.1060	0.1075	0.2759	0.004532	0	0.2836	0.02849

<=====>

phases : liq, bi, g, mu, pl, ru, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.46	687.0	0.07012	0.1906	0.8038	0.010160	0.0007935	0.7294
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7262	0.4311	0.2856	0.09941	0.09695	0.2541	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.8101	0.2013	0.05033	0.4150	0.9216	0.1423	
	ca(pl)	k(pl)					
	0.3860	0.008039					

mode	liq	bi	g	mu	pl	ru	ky	q	H2O
	0.09019	0.2785	0.02164	0	0.3025	0.003452	0.02289	0.2808	0

<=====>

phases : liq, bi, g, mu, pl, ru, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.31 684.3 0.07010 0.1925 0.8113 0.0093000.0008045 0.7378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7251 0.4475 0.2904 0.1002 0.09530 0.2491
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8168 0.1732 0.04034 0.4289 0.9251 0.1511
ca(pl) k(pl)
0.3632 0.008354

mode liq bi g mu pl ru ky q H2O
0 0.2917 0.009142 0 0.3399 0.003345 0.02264 0.2989 0.03432

<=====>

phases : liq, bi, g, mu, ksp, pl, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 820.9 0.08240 0.2762 0.5228 0.02712 0.002094 0.6997
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6088 0.3145 0.2798 0.08036 0.1629 0.2133
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6817 0.2231 0.06011 0.3422 0.8533 0.04638
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2380 0.01382 0.2869 0.05493 0.1705 0.1835

mode liq bi g mu ksp pl ru ky q
0.1705 0.1835 0.1179 0.005789 0 0.2555 0.003041 0.02290 0.2409

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 823.2 0.08124 0.2768 0.5289 0.02739 0.002097 0.6947
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6092 0.3065 0.2769 0.07893 0.1644 0.2132
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6737 0.2253 0.05995 0.3348 0.8507 0.04650
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2419 0.01387 0.2785 0.05655 0.1692 0.1763

mode liq bi g mu ksp pl ru ky q
0.1692 0.1763 0.1247 0.01280 0 0.2522 0.003163 0.02148 0.2401

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 825.4 0.08010 0.2774 0.5352 0.02765 0.002100 0.6899
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6096 0.2989 0.2741 0.07753 0.1659 0.2128
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6657 0.2271 0.05973 0.3276 0.8480 0.04662

na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2458 0.01392 0.2702 0.05824 0.1679 0.1692

mode liq bi g mu ksp pl ru ky q
0.1679 0.1692 0.1315 0.01969 0 0.2489 0.003284 0.02007 0.2394

<=====>

phases : liq, bi, g, mu, ksp, pl, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.44 819.0 0.08335 0.2758 0.5180 0.02688 0.002092 0.7037
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6084 0.3211 0.2823 0.08155 0.1616 0.2132
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6883 0.2212 0.06019 0.3484 0.8555 0.04629
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2349 0.01377 0.2936 0.05366 0.1715 0.1895

mode liq bi g mu ksp pl ru ky q
0.1715 0.1895 0.1122 0 0 0.2583 0.002943 0.02408 0.2415

calcs use:

<=====>

phases : liq, bi, g, mu, ksp, pl, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 820.9 0.08244 0.2762 0.5221 0.02718 0.002091 0.6995
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6087 0.3143 0.2799 0.08015 0.1629 0.2133
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6816 0.2235 0.06008 0.3420 0.8533 0.04633
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2376 0.01383 0.2876 0.05482 0.1738 0.1838

mode liq bi g mu ksp pl ru ky q
0.1738 0.1838 0.1181 0 0.003684 0.2535 0.003035 0.02450 0.2397

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 823.2 0.08133 0.2767 0.5273 0.02753 0.002091 0.6943
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6091 0.3061 0.2771 0.07846 0.1645 0.2131
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6733 0.2261 0.05987 0.3343 0.8506 0.04639
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2411 0.01389 0.2801 0.05630 0.1765 0.1768

mode liq bi g mu ksp pl ru ky q
0.1765 0.1768 0.1252 0 0.008210 0.2476 0.003149 0.02499 0.2375

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 825.5 0.08023 0.2772 0.5328 0.02785 0.002091 0.6892

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.6094	0.2982	0.2744	0.07682	0.1660	0.2127
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.6651	0.2284	0.05960	0.3268	0.8480	0.04646
na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi
0.2447	0.01394	0.2725	0.05785	0.1791	0.1701

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.1791	0.1701	0.1322	0	0.01274	0.2417	0.003262	0.02546	0.2355

<=====>

phases : liq, bi, g, ksp, pl, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	903.5	0.1154	0.3206	0.4738	0.04214	0.003607	0.5957
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5092	0.1839	0.2484	0.1207	0.2054	0.1493		
x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
0.4567	0.1078	0.05406	0.2803	0.02330	0.3062		
k(pl)							
0.0721							

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3349	0	0.2591	0.07448	0.1777	0.0069960	0.0005490	0.1463

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	902.8	0.1128	0.3191	0.4800	0.04215	0.003531	0.5947
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5139	0.1830	0.2483	0.1166	0.2052	0.1500		
x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
0.4568	0.1124	0.05375	0.2822	0.02306	0.2997		
k(pl)							
0.07301							

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3300	0	0.2606	0.07813	0.1743	0.006996	0.001541	0.1484

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	902.1	0.1103	0.3176	0.4867	0.04212	0.003456	0.5936
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5185	0.1821	0.2481	0.1125	0.2050	0.1507		
x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
0.4569	0.1171	0.05343	0.2842	0.02282	0.2928		
k(pl)							
0.074							

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3253	0	0.2621	0.08182	0.1708	0.006996	0.002541	0.1505

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

15.20 901.3 0.1077 0.3162 0.4938 0.04204 0.003382 0.5925
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5231 0.1812 0.2479 0.1085 0.2048 0.1513
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4570 0.1219 0.05311 0.2864 0.02256 0.2857
k(pl)

0.07505

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3206	0	0.2637	0.08556	0.1671	0.006996	0.003547	0.1526

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 900.6 0.1052 0.3148 0.5013 0.04192 0.003308 0.5914
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5277 0.1803 0.2476 0.1047 0.2046 0.1520
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4571 0.1268 0.05279 0.2887 0.02230 0.2784
k(pl)

0.07618

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3161	0	0.2653	0.08935	0.1632	0.006996	0.004557	0.1546

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 899.8 0.1026 0.3135 0.5093 0.04175 0.003236 0.5903
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5322 0.1794 0.2472 0.1009 0.2044 0.1526
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4572 0.1317 0.05247 0.2912 0.02203 0.2708
k(pl)

0.07738

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3117	0	0.2669	0.09320	0.1591	0.006996	0.005570	0.1566

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 899.1 0.1001 0.3123 0.5177 0.04152 0.003166 0.5892
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5366 0.1785 0.2467 0.09735 0.2042 0.1532
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4572 0.1365 0.05215 0.2938 0.02175 0.2630
k(pl)

0.07867

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3074	0	0.2685	0.09710	0.1549	0.006996	0.006581	0.1585

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 898.3 0.09761 0.3111 0.5266 0.04125 0.003097 0.5882
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5410 0.1776 0.2461 0.09391 0.2040 0.1537
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4573 0.1414 0.05183 0.2965 0.02146 0.2550
k(pl)

0.08004

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3032	0	0.2701	0.1011	0.1506	0.006996	0.007587	0.1604

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 897.5 0.09514 0.3100 0.5359 0.04093 0.003029 0.5872
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5453 0.1767 0.2455 0.09063 0.2038 0.1543
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4574 0.1462 0.05151 0.2993 0.02115 0.2469
k(pl)

0.08149

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2992	0	0.2718	0.1051	0.1461	0.006996	0.008584	0.1623

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 896.7 0.09270 0.3089 0.5456 0.04056 0.002964 0.5862
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5496 0.1758 0.2447 0.08751 0.2035 0.1549
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4575 0.1509 0.05120 0.3023 0.02083 0.2386
k(pl)

0.08301

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2953	0	0.2734	0.1091	0.1416	0.006996	0.009569	0.1641

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 895.9 0.09028 0.3080 0.5557 0.04014 0.002900 0.5853
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5538 0.1749 0.2438 0.08457 0.2033 0.1554
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4576 0.1556 0.05090 0.3053 0.02051 0.2302
k(pl)

0.08461

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2915	0	0.2750	0.1132	0.1369	0.006996	0.01054	0.1658

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 895.2 0.08790 0.3071 0.5661 0.03968 0.002838 0.5844
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5579 0.1740 0.2428 0.08180 0.2031 0.1559
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)

0.4576 0.1601 0.05061 0.3084 0.02016 0.2218
k(pl)

0.08628

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2879	0	0.2765	0.1173	0.1322	0.006996	0.01148	0.1675

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 894.4 0.08556 0.3063 0.5768 0.03917 0.002778 0.5835
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5618 0.1732 0.2417 0.07920 0.2029 0.1564
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4577 0.1645 0.05032 0.3116 0.01981 0.2134
k(pl)

0.08801

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2844	0	0.2781	0.1215	0.1274	0.006996	0.01241	0.1692

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 893.7 0.08326 0.3055 0.5877 0.03863 0.002721 0.5827
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5657 0.1723 0.2406 0.07677 0.2027 0.1569
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4577 0.1687 0.05005 0.3149 0.01944 0.2049
k(pl)

0.0898

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2810	0	0.2796	0.1256	0.1227	0.006996	0.01330	0.1708

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 893.0 0.08100 0.3049 0.5988 0.03804 0.002665 0.5820
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5695 0.1715 0.2393 0.07451 0.2024 0.1574
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4578 0.1728 0.04979 0.3181 0.01906 0.1966
k(pl)

0.09163

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2778	0	0.2810	0.1298	0.1179	0.006996	0.01416	0.1723

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 892.3 0.07880 0.3043 0.6099 0.03743 0.002612 0.5814
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5732 0.1707 0.2380 0.07241 0.2022 0.1579
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4578 0.1766 0.04954 0.3214 0.01867 0.1883
k(pl)

0.0935

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2747	0	0.2824	0.1339	0.1131	0.006996	0.01499	0.1738

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 891.6 0.07664 0.3038 0.6210 0.03680 0.002561 0.5808
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5767 0.1700 0.2366 0.07046 0.2020 0.1584
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4579 0.1803 0.04930 0.3246 0.01827 0.1802
k(pl)

0.0954

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2718	0	0.2838	0.1380	0.1085	0.006996	0.01578	0.1753

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 891.0 0.07454 0.3034 0.6321 0.03614 0.002512 0.5802
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5802 0.1693 0.2351 0.06865 0.2018 0.1588
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4579 0.1837 0.04908 0.3278 0.01785 0.1722
k(pl)

0.0973

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2689	0	0.2850	0.1420	0.1039	0.006996	0.01653	0.1767

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 890.3 0.07250 0.3031 0.6431 0.03546 0.002465 0.5797
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5835 0.1686 0.2335 0.06698 0.2016 0.1593
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4580 0.1870 0.04887 0.3309 0.01743 0.1645
k(pl)

0.09921

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2663	0	0.2862	0.1459	0.09939	0.006996	0.01724	0.1780

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 889.7 0.07052 0.3028 0.6539 0.03478 0.002420 0.5793
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5866 0.1679 0.2319 0.06544 0.2014 0.1598
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4580 0.1900 0.04868 0.3339 0.01699 0.1569
k(pl)

0.1011

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2637	0	0.2874	0.1497	0.09503	0.006996	0.01790	0.1793

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.60	889.2	0.06860	0.3025	0.6645	0.03408	0.002377	0.5790
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5897	0.1673	0.2303	0.06402	0.2012	0.1602
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4581	0.1928	0.04849	0.3369	0.01655	0.1497
		k(pl)					
		0.103					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2613	0	0.2884	0.1535	0.09082	0.006996	0.01853	0.1805

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.80	888.6	0.06673	0.3023	0.6747	0.03339	0.002336	0.5787
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5927	0.1667	0.2286	0.06270	0.2011	0.1607
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4581	0.1955	0.04832	0.3397	0.01610	0.1427
		k(pl)					
		0.1048					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2589	0	0.2894	0.1571	0.08677	0.006996	0.01912	0.1816

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.00	888.1	0.06494	0.3022	0.6847	0.03269	0.002297	0.5784
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5955	0.1661	0.2269	0.06149	0.2009	0.1611
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4581	0.1980	0.04816	0.3423	0.01564	0.1359
		k(pl)					
		0.1066					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2567	0	0.2904	0.1606	0.08289	0.006996	0.01967	0.1827

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.20	887.7	0.06320	0.3021	0.6943	0.03200	0.002260	0.5782
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5982	0.1655	0.2251	0.06036	0.2008	0.1615
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4581	0.2002	0.04801	0.3449	0.01518	0.1295
		k(pl)					
		0.1083					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2546	0	0.2913	0.1639	0.07919	0.006996	0.02019	0.1838

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.40    887.2  0.06152  0.3020  0.7035  0.03132  0.002224  0.5781
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6008  0.1650  0.2234  0.05932  0.2006  0.1620
        x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
        0.4582  0.2023  0.04788  0.3472  0.01472  0.1233
        k(pl)
0.1099

```

```

mode  liq  bi  g  ksp  pl  ru  ky  q
0.2526  0  0.2921  0.1671  0.07569  0.006996  0.02067  0.1848

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.60    886.8  0.05991  0.3019  0.7124  0.03065  0.002190  0.5780
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6033  0.1645  0.2216  0.05835  0.2005  0.1624
        x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
        0.4582  0.2043  0.04775  0.3494  0.01425  0.1175
        k(pl)
0.1115

```

```

mode  liq  bi  g  ksp  pl  ru  ky  q
0.2507  0  0.2929  0.1702  0.07238  0.006996  0.02111  0.1857

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.80    886.4  0.05835  0.3019  0.7209  0.02999  0.002157  0.5779
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6057  0.1640  0.2197  0.05745  0.2004  0.1628
        x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
        0.4582  0.2061  0.04763  0.3514  0.01379  0.1119
        k(pl)
0.113

```

```

mode  liq  bi  g  ksp  pl  ru  ky  q
0.2489  0  0.2936  0.1731  0.06927  0.006996  0.02153  0.1867

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
20.00    886.0  0.05684  0.3018  0.7290  0.02934  0.002126  0.5779
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6081  0.1635  0.2179  0.05661  0.2002  0.1632
        x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
        0.4582  0.2078  0.04752  0.3532  0.01332  0.1066
        k(pl)
0.1143

```

```

mode  liq  bi  g  ksp  pl  ru  ky  q
0.2471  0  0.2942  0.1758  0.06636  0.006996  0.02191  0.1875

```

<=====>

phases : liq, bi, g, ksp, pl, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.49    903.9  0.1168  0.3215  0.4705  0.04212 0.003649 0.5963
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.5066  0.1843  0.2484  0.1231  0.2055  0.1489
      x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
      0.4566  0.1053  0.05424 0.2793  0.02343 0.3098
      k(pl)
0.07163

```

```

mode  liq  bi  g  ksp  pl  ru  ky  q
0.3377  0  0.2583 0.07247 0.1795 0.006996 0 0.1451

```

<=====>

phases : liq, bi, g, mu, ksp, pl, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.00    836.9  0.07459 0.2806  0.5695  0.02862 0.002116 0.6664
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6113  0.2645  0.2608  0.07131 0.1730 0.2084
      x(g)   z(g)   f(g)  fe(mu)  y(mu)  na(mu)
      0.6256  0.2327 0.05804 0.2946  0.8346 0.04720
      na(ksp) ca(ksp) ca(pl) k(pl)  liq  bi
      0.2668  0.01405 0.2288 0.06759 0.1618 0.1352

```

```

mode  liq  bi  g  mu  ksp  pl  ru  ky  q
0.1618 0.1352 0.1635 0.05302 0 0.2335 0.003904 0.01303 0.2360

```

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.00    840.5  0.09641 0.2881  0.4812  0.03114 0.002913 0.6893
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.5763  0.3031 0.3045 0.04878 0.1737 0.2030
      x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
      0.6435  0.1369 0.01934 0.2339 0.01620 0.3306
      k(pl)  x(ilm) Q(ilm)
      0.05335 0.53040.0001426

```

```

mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
0.1992 0.1681 0.1141 0 0.2679 0.005848 0.001858 0.01525 0.2277

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

```

```

12.00  749.0 0.07604 0.2268 0.6941 0.01669 0.001468 0.7253
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6760 0.3989 0.3242 0.03904 0.1262 0.2353
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.7603 0.1611 0.01471 0.3939 0.8876 0.07583
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.3827 0.01773 0.6669 0.4570 0.1155 0.2541

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1155 0.2541 0.03410 0 0.2949 0.0087020.0002629 0.02129 0.2712

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00  783.4 0.08059 0.2497 0.6086 0.02163 0.001864 0.7200
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6428 0.3706 0.3184 0.04276 0.1433 0.2247
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.7310 0.1703 0.01907 0.3790 0.8725 0.05724
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.3615 0.02873 0.54480.0004949 0.1382 0.2297

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1382 0.2297 0.06114 0 0.2839 0.006224 0.001250 0.02026 0.2594

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00  809.4 0.08319 0.2671 0.5355 0.02632 0.002102 0.7072
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6177 0.3369 0.3059 0.04692 0.1577 0.2182
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.6985 0.1858 0.02516 0.3555 0.8592 0.04794
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.3304 0.04248 0.52190.0001592 0.1613 0.2021

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1613 0.2021 0.08957 0 0.2721 0.005299 0.001652 0.02075 0.2472

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00  829.8 0.08384 0.2805 0.4805 0.03027 0.002212 0.6906
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5998 0.3029 0.2910 0.05120 0.1698 0.2119
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.6637 0.2021 0.03250 0.3288 0.8465 0.04311
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.2883 0.06051 0.4942 8.925e-5 0.1832 0.1732

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1832 0.1732 0.1205 0 0.2592 0.004105 0.002286 0.02209 0.2354

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00  846.7 0.08286 0.2902 0.4452 0.03324 0.002254 0.6722
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.5883 0.2713 0.2758 0.05523 0.1798 0.2045
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6274 0.2152 0.04014 0.3020 0.8339 0.04066
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2374 0.08626 0.4654 6.029e-5 0.2027 0.1442

mode liq bi g mu pl ilm ru ky q
 0.2027 0.1442 0.1522 0 0.2467 0.002749 0.003054 0.02384 0.2246

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.00 860.7 0.08025 0.2956 0.4352 0.03513 0.002262 0.6524
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5839 0.2422 0.2607 0.05892 0.1878 0.1960
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5897 0.2242 0.04745 0.2757 0.8211 0.03984
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1789 0.1296 0.4366 4.454e-5 0.2185 0.1144

mode liq bi g mu pl ilm ru ky q
 0.2185 0.1144 0.1850 0 0.2367 0.001308 0.003929 0.02558 0.2147

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.00 691.2 0.06635 0.1906 0.8122 0.011030.0008542 0.7053
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7292 0.3993 0.2996 0.03735 0.1022 0.2728
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7826 0.1746 0.01321 0.3768 0.9128 0.1404
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3859 0.007873 0.7345 0.6089 0.08736 0.2539

mode liq bi g mu pl ilm ru ky q
 0.08736 0.2539 0.02802 0.02331 0.2997 0.01104 0 0.01761 0.2791

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.83 742.0 0.07513 0.2223 0.7091 0.01585 0.001388 0.7253
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.6824 0.4030 0.3243 0.03834 0.1230 0.2380
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7651 0.1602 0.01405 0.3954 0.8906 0.08065
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3856 0.01612 0.6901 0.5058 0.1118 0.2578

```

```

mode liq bi g mu pl ilm ru ky q
0.1118 0.2578 0.02957 0 0.2968 0.009373 0 0.02163 0.2732

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.83 742.0 0.07513 0.2223 0.7091 0.01585 0.001388 0.7253
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6824 0.4030 0.3243 0.03834 0.1230 0.2380
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7651 0.1602 0.01405 0.3954 0.8906 0.08065
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3856 0.01612 0.6901 0.5058 0.1118 0.2578

```

```

mode liq bi g mu pl ilm ru ky q
0.1118 0.2578 0.02957 0 0.2968 0.009373 0 0.02163 0.2732

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 861.8 0.1157 0.3062 0.4561 0.03288 0.003894 0.6730
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5327 0.2815 0.3151 0.04829 0.1853 0.1870
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5936 0.08115 0.01241 0.2411 0.01903 0.3555
k(pl) x(ilm) Q(ilm)
0.05529 0.55590.0001949

```

```

mode liq bi g ksp pl ilm ru ky q
0.2433 0.1386 0.1301 0 0.2666 0.007127 0.001952 0.006974 0.2054

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 840.5 0.09641 0.2881 0.4812 0.03114 0.002913 0.6893
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5763 0.3031 0.3045 0.04878 0.1737 0.2030

```

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6435 0.1369 0.01934 0.2339 0.01620 0.3306
 k(pl) x(ilm) Q(ilm)
 0.05335 0.53040.0001426

mode liq bi g ksp pl ilm ru ky q
 0.1992 0.1681 0.1141 0 0.2679 0.005848 0.001858 0.01525 0.2277

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.60 821.7 0.08349 0.2751 0.5042 0.02868 0.002172 0.6972
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6071 0.3159 0.2967 0.04955 0.1650 0.2148
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6777 0.1961 0.02955 0.3391 0.8515 0.04493
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2294 0.01401 0.3063 0.05212 0.50510.0001085

mode liq bi g mu ksp pl ilm ru ky q
 0.1733 0.1844 0.1083 0.001802 0 0.2641 0.004595 0.002032 0.02104 0.2404

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 824.0 0.08230 0.2757 0.5105 0.02896 0.002164 0.6922
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6076 0.3075 0.2923 0.05060 0.1664 0.2145
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6698 0.2009 0.03138 0.3317 0.8490 0.04511
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2334 0.01407 0.2974 0.05371 0.4972 9.589e-5

mode liq bi g mu ksp pl ilm ru ky q
 0.1719 0.1768 0.1160 0.009237 0 0.2604 0.004293 0.002243 0.01956 0.2396

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 826.2 0.08112 0.2762 0.5173 0.02921 0.002156 0.6872
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6080 0.2994 0.2880 0.05161 0.1677 0.2140
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6619 0.2053 0.03321 0.3245 0.8465 0.04530
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2376 0.01412 0.2882 0.05540 0.4896 8.586e-5

mode liq bi g mu ksp pl ilm ru ky q
 0.1705 0.1695 0.1235 0.01655 0 0.2566 0.003989 0.002451 0.01813 0.2389


```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.20    828.5  0.07994  0.2769  0.5244  0.02941 0.002149 0.6824
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6085  0.2917  0.2838  0.05258  0.1691  0.2133
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.6540  0.2093  0.03501  0.3175  0.8439  0.04550
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.2420  0.01416  0.2788  0.05718  0.4822  7.773e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.1690 0.1623 0.1309 0.02376  0 0.2528 0.003683 0.002656 0.01675 0.2382

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.40    830.7  0.07877  0.2775  0.5319  0.02958 0.002143 0.6777
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6089  0.2843  0.2798  0.05351  0.1704  0.2124
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.6462  0.2130  0.03678  0.3108  0.8414  0.04571
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.2465  0.01419  0.2693  0.05906  0.4750  7.093e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.1676 0.1552 0.1382 0.03087  0 0.2490 0.003378 0.002858 0.01540 0.2375

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.60    833.0  0.07760  0.2782  0.5397  0.02971 0.002138 0.6730
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6094  0.2772  0.2759  0.05440  0.1717  0.2113
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.6383  0.2164  0.03850  0.3043  0.8388  0.04592
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.2511  0.01421  0.2598  0.06102  0.4681  6.523e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.1661 0.1482 0.1454 0.03789  0 0.2453 0.003076 0.003057 0.01408 0.2369

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.80    835.2  0.07645  0.2789  0.5479  0.02980 0.002135 0.6685
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6098  0.2704  0.2721  0.05526  0.1730  0.2102
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.6305  0.2193  0.04015  0.2980  0.8363  0.04614
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.2559  0.01423  0.2502  0.06308  0.4613  6.039e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.1647 0.1414 0.1524 0.04483  0 0.2417 0.002779 0.003254 0.01277 0.2362

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.00    837.4  0.07530  0.2796  0.5563  0.02986 0.002132 0.6640

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6102 0.2638 0.2685 0.05608 0.1743 0.2088
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6227 0.2218 0.04174 0.2920 0.8337 0.04635
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2607 0.01423 0.2407 0.06523 0.4547 5.622e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1633	0.1346	0.1593	0.05171		0	0.2381	0.002488	0.003447	0.01146 0.2356

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 839.6 0.07417 0.2804 0.5650 0.02989 0.002131 0.6596
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6106 0.2576 0.2650 0.05686 0.1755 0.2074
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6150 0.2239 0.04324 0.2861 0.8311 0.04655
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2657 0.01423 0.2312 0.06745 0.4484 5.259e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1619	0.1279	0.1660	0.05852		0	0.2347	0.002205	0.003639	0.01014 0.2350

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.40 841.9 0.07305 0.2812 0.5739 0.02990 0.002131 0.6554
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6110 0.2515 0.2616 0.05760 0.1768 0.2058
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6073 0.2256 0.04466 0.2805 0.8285 0.04675
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2707 0.01421 0.2219 0.06975 0.4422 4.940e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1605	0.1213	0.1727	0.06529		0	0.2314	0.001931	0.003827	0.008812 0.2343

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.60 844.1 0.07194 0.2821 0.5829 0.02987 0.002131 0.6512
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6113 0.2457 0.2583 0.05831 0.1780 0.2042
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5996 0.2269 0.04599 0.2751 0.8258 0.04694
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2757 0.01419 0.2127 0.07212 0.4363 4.658e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1591	0.1147	0.1792	0.07202		0	0.2282	0.001667	0.004014	0.007459 0.2337

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.80 846.4 0.07085 0.2830 0.5921 0.02983 0.002133 0.6471
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6116 0.2401 0.2551 0.05899 0.1792 0.2025

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5919 0.2279 0.04723 0.2698 0.8232 0.04711
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2808 0.01416 0.2038 0.07455 0.4305 4.407e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1577 0.1081 0.1857 0.07872 0 0.2251 0.001415 0.004200 0.006076 0.2330

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 848.6 0.06977 0.2839 0.6014 0.02976 0.002136 0.6431
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6119 0.2347 0.2520 0.05964 0.1804 0.2007
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5843 0.2285 0.04838 0.2647 0.8206 0.04727
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2859 0.01412 0.1951 0.07703 0.4248 4.181e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1564 0.1015 0.1920 0.08540 0 0.2222 0.001173 0.004384 0.004659 0.2324

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 850.9 0.06871 0.2849 0.6108 0.02967 0.002139 0.6391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6121 0.2295 0.2490 0.06026 0.1816 0.1988
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5767 0.2288 0.04945 0.2598 0.8179 0.04742
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2910 0.01407 0.1867 0.07956 0.4194 3.977e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1551 0.09486 0.1982 0.09208 0 0.21940.0009438 0.004567 0.003201 0.2317

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 853.2 0.06767 0.2859 0.6202 0.02957 0.002142 0.6352
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6123 0.2245 0.2460 0.06086 0.1828 0.1969
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5691 0.2288 0.05043 0.2550 0.8152 0.04756
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2961 0.01401 0.1785 0.08213 0.4140 3.792e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1538 0.08822 0.2044 0.09876 0 0.21670.0007263 0.004750 0.001698 0.2309

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 855.4 0.06665 0.2870 0.6297 0.02945 0.002146 0.6314
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6125 0.2196 0.2431 0.06143 0.1840 0.1949
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5615 0.2285 0.05132 0.2503 0.8125 0.04768

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3011 0.01395 0.1707 0.08474 0.4088 3.622e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1525 0.08153 0.2105 0.1055 0 0.21420.0005208 0.0049330.0001467 0.2302

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 826.3 0.08121 0.2761 0.5155 0.02935 0.002147 0.6868
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6079 0.2989 0.2879 0.05170 0.1678 0.2138
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6616 0.2069 0.03362 0.3239 0.8465 0.04519
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2368 0.01413 0.2899 0.05513 0.4890 8.515e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1799 0.1702 0.1242 0 0.01046 0.2506 0.003915 0.002448 0.02269 0.2356

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 831.9 0.07835 0.2776 0.5327 0.02992 0.002122 0.6744
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6089 0.2796 0.2777 0.05414 0.1712 0.2116
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6415 0.2180 0.03855 0.3064 0.8401 0.04563
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2474 0.01423 0.2675 0.05953 0.4702 6.703e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1862 0.1534 0.1433 0 0.02232 0.2340 0.003057 0.002951 0.02419 0.2305

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 837.5 0.07550 0.2794 0.5524 0.03023 0.002106 0.6627
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6100 0.2624 0.2684 0.05631 0.1744 0.2083
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6217 0.2263 0.04310 0.2905 0.8337 0.04613
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2590 0.01428 0.2442 0.06455 0.4530 5.527e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1922 0.1373 0.1616 0 0.03457 0.2171 0.002217 0.003432 0.02560 0.2259

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

```

16.50  843.1 0.07271 0.2813 0.5741 0.03031 0.002099 0.6516
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6109 0.2469 0.2598 0.05824 0.1776 0.2043
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.6021 0.2318 0.04709 0.2760 0.8272 0.04662
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.2712 0.01426 0.2209 0.07012 0.4371 4.708e-5

```

```

mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.1979 0.1219 0.1790 0 0.04740 0.2001 0.001427 0.003891 0.02678 0.2216

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00  848.7 0.06999 0.2836 0.5970 0.03020 0.002099 0.6412
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6117 0.2329 0.2519 0.05995 0.1806 0.1999
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5828 0.2346 0.05042 0.2628 0.8206 0.04706
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.2839 0.01418 0.1986 0.07615 0.4226 4.103e-5

```

```

mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.2035 0.1067 0.1956 0 0.06101 0.18300 0.0007098 0.004332 0.02763 0.2175

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.50  854.4 0.06737 0.2860 0.6207 0.02996 0.002106 0.6313
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6122 0.2202 0.2444 0.06146 0.1836 0.1950
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5637 0.2352 0.05311 0.2507 0.8139 0.04742
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.2966 0.01405 0.1778 0.08252 0.4090 3.638e-5

```

```

mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.2091 0.09165 0.2116 0 0.07558 0.1658 7.647e-5 0.004762 0.02811 0.2134

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.55  821.2 0.08377 0.2750 0.5028 0.02861 0.002174 0.6984
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6070 0.3179 0.2978 0.04929 0.1646 0.2148
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.6795 0.1950 0.02911 0.3409 0.8521 0.04489
      na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
      0.2284 0.01399 0.3084 0.05175 0.50700 0.0001120

```

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1737	0.1862	0.1064	0	0	0.2650	0.004667	0.001981	0.02141	0.2406

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.00	860.0	0.06467	0.2891	0.6483	0.02921	0.002150	0.6236
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6126	0.2101	0.2376	0.06254	0.1864	0.1907	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5462	0.2278	0.05311	0.2412	0.8071	0.04786	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3109	0.01380	0.1561	0.08995	0.3985	3.317e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1565	0.06880	0.2231	0.1071	0.009160	0.2033	8.407e-5	0.005291	0	0.2266

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.00	860.0	0.06467	0.2891	0.6483	0.02921	0.002150	0.6236
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6126	0.2101	0.2376	0.06254	0.1864	0.1907	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5462	0.2278	0.05311	0.2412	0.8071	0.04786	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3109	0.01380	0.1561	0.08995	0.3985	3.317e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1565	0.06880	0.2231	0.1071	0.009160	0.2033	8.407e-5	0.005291	0	0.2266

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.00	860.1	0.06470	0.2891	0.6477	0.02928	0.002145	0.6234

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6126 0.2098 0.2376 0.06259 0.1864 0.1905
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5459 0.2287 0.05343 0.2409 0.8072 0.04783
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3106 0.01381 0.1565 0.08982 0.3982 3.309e-5

```

```

mode liq bi g mu ksp pl ilm ru ky q
0.1654 0.06995 0.2237 0.09078 0.02176 0.1948 0 0.005275 0.004300 0.2240

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 679.5 0.05383 0.1873 0.8740 0.0097390.0006725 0.6511
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7473 0.3235 0.2421 0.04577 0.1005 0.3045
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7421 0.2376 0.02583 0.3048 0.9170 0.2093
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3173 0.006486 0.45720.0001442 0.04173 0.1946

```

```

mode liq bi g mu pl ilm ru ky q H2O
0.04173 0.1946 0.09527 0.09701 0.2732 0.004874 0.003566 0 0.2773 0.01244

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.84 679.6 0.05500 0.1880 0.8706 0.0095600.0006982 0.6604
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7455 0.3358 0.2483 0.04442 0.1001 0.3035
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7494 0.2190 0.02178 0.3163 0.9178 0.2053
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3174 0.006666 0.46990.0001975 0 0.2027

```

```

mode liq bi g mu pl ilm ru ky q H2O
0 0.2027 0.08482 0.09208 0.2977 0.005346 0.003353 0 0.2840 0.03000

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.12 679.2 0.05287 0.1869 0.8772 0.0098100.0006524 0.6438
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7487 0.3144 0.2373 0.04676 0.1008 0.3050
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7364 0.2514 0.02912 0.2960 0.9168 0.2144
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.3153 0.006355 0.44760.0001189 0.07075 0.1885

mode liq bi g mu pl ilm ru ky q H2O
0.07075 0.1885 0.1034 0.1013 0.2549 0.004477 0.003732 0 0.2729 0
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 684.2 0.06367 0.1897 0.8338 0.0098880.0008106 0.7014
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7342 0.3961 0.2910 0.03731 0.09965 0.2811
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7820 0.1669 0.01203 0.3721 0.9177 0.1627
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.3570 0.007516 0.7378 0.6174 0 0.2506

mode liq bi g mu pl ilm ru ky q H2O
0 0.2506 0.02982 0.03975 0.3295 0.01127 4.032e-5 0.01334 0.2929 0.03279
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 683.3 0.06158 0.1892 0.8426 0.0098610.0007850 0.6921
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7370 0.3811 0.2799 0.03959 0.09984 0.2877
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7746 0.1786 0.01410 0.3587 0.9171 0.1703
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.3489 0.007315 0.6821 0.5312 0 0.2377

mode liq bi g mu pl ilm ru ky q H2O
0 0.2377 0.04446 0.05307 0.3226 0.009217 0.001170 0.009465 0.2901 0.03218
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 682.1 0.05941 0.1889 0.8521 0.0097480.0007587 0.6826

```



```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7397 0.3666 0.2693 0.04133 0.09989 0.2938
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7671 0.1897 0.01611 0.3455 0.9171 0.1804
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3383 0.007119 0.50040.0009255 0 0.2246

```

```

mode liq bi g mu pl ilm ru ky q H2O
0 0.2246 0.06123 0.06700 0.3142 0.006116 0.002832 0.005360 0.2871 0.03147

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 681.1 0.05741 0.1884 0.8604 0.0096910.0007317 0.6727
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7424 0.3524 0.2596 0.04277 0.1000 0.2987
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7592 0.2028 0.01850 0.3322 0.9171 0.1903
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3296 0.006913 0.48660.0003532 0 0.2144

```

```

mode liq bi g mu pl ilm ru ky q H2O
0 0.2144 0.07195 0.07838 0.3072 0.005784 0.003070 0.002829 0.2856 0.03084

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 679.9 0.05540 0.1881 0.8688 0.0095870.0007039 0.6625
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7450 0.3385 0.2502 0.04415 0.1001 0.3028
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7511 0.2162 0.02120 0.3190 0.9177 0.2025
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3196 0.006708 0.47270.0002137 0 0.2046

```

```

mode liq bi g mu pl ilm ru ky q H2O
0 0.2046 0.08265 0.08976 0.2994 0.005423 0.0033060.0004645 0.2842 0.03015

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 687.2 0.06518 0.1883 0.8211 0.010730.0008151 0.7007
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7332 0.3941 0.2939 0.03801 0.1009 0.2779
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7816 0.1794 0.01382 0.3710 0.9147 0.1491
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3831 0.007410 0.7231 0.5937 0.08521 0.2494

```

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.08521	0.2494	0.03265	0.02923	0.2978	0.010550	0.0003379	0.01611	0.2787	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.50	684.2	0.05957	0.1876	0.8468	0.010440	0.0007440	0.6765
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7402	0.3569	0.2670	0.04260	0.1011	0.2934	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7623	0.2099	0.01964	0.3372	0.9138	0.1710	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3557	0.006954	0.49120	0.0004114	0.07892	0.2183	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.07892	0.2183	0.06922	0.06359	0.2798	0.005761	0.002978	0.007167	0.2743	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	680.4	0.05418	0.1870	0.8713	0.0099760	0.0006699	0.6503
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7470	0.3223	0.2429	0.04602	0.1009	0.3033	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7416	0.2435	0.02713	0.3039	0.9156	0.2033	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3242	0.006475	0.45600	0.0001392	0.07252	0.1940	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.07252	0.1940	0.09676	0.09372	0.2603	0.004750	0.003588	0.001378	0.2729	0	

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.62	855.7	0.06656	0.2871	0.6306	0.02944	0.002146	0.6310
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6125	0.2192	0.2429	0.06148	0.1841	0.1947	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5608	0.2285	0.05140	0.2499	0.8123	0.04769	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3016	0.01394	0.1699	0.08499	0.4083	3.607e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1524	0.08091	0.2111	0.1061	0	0.21390	0.0005023	0.004950	0	0.2301	

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.11 875.6 0.1317 0.3208 0.4390 0.03339 0.004544 0.6558
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4968 0.2616 0.3236 0.04838 0.1943 0.1740
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5531 0.05465 0.01006 0.2465 0.02113 0.3720
k(pl) x(ilm) Q(ilm)
0.05665 0.56870.0002250

mode liq bi g ksp pl ilm ru ky q
0.2889 0.1093 0.1486 0 0.2604 0.007917 0.002305 0 0.1826

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 749.0 0.07604 0.2268 0.6941 0.01669 0.001468 0.7253
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6760 0.3989 0.3242 0.03904 0.1262 0.2353
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7603 0.1611 0.01471 0.3939 0.8876 0.07583
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3827 0.01773 0.6669 0.4570 0.1155 0.2541

mode liq bi g mu pl ilm ru ky q
0.1155 0.2541 0.03410 0 0.2949 0.0087020.0002629 0.02129 0.2712

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 767.6 0.07860 0.2392 0.6498 0.01915 0.001689 0.7241
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6581 0.3862 0.3228 0.04086 0.1352 0.2289
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7463 0.1641 0.01663 0.3883 0.8797 0.06477
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3727 0.02302 0.5529 0.005228 0.1269 0.2422

mode liq bi g mu pl ilm ru ky q
0.1269 0.2422 0.04852 0 0.2891 0.006568 0.001172 0.02039 0.2651

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 783.4 0.08059 0.2497 0.6086 0.02163 0.001864 0.7200
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6428 0.3706 0.3184 0.04276 0.1433 0.2247

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7310 0.1703 0.01907 0.3790 0.8725 0.05724
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3615 0.02873 0.54480.0004949 0.1382 0.2297

mode liq bi g mu pl ilm ru ky q
 0.1382 0.2297 0.06114 0 0.2839 0.006224 0.001250 0.02026 0.2594

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.50 797.2 0.08214 0.2590 0.5701 0.02404 0.002002 0.7142
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6293 0.3540 0.3127 0.04479 0.1508 0.2212
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7151 0.1777 0.02192 0.3679 0.8657 0.05184
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3474 0.03519 0.53430.0002466 0.1498 0.2162

mode liq bi g mu pl ilm ru ky q
 0.1498 0.2162 0.07491 0 0.2782 0.005799 0.001414 0.02038 0.2533

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.00 809.4 0.08319 0.2671 0.5355 0.02632 0.002102 0.7072
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6177 0.3369 0.3059 0.04692 0.1577 0.2182
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6985 0.1858 0.02516 0.3555 0.8592 0.04794
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3304 0.04248 0.52190.0001592 0.1613 0.2021

mode liq bi g mu pl ilm ru ky q
 0.1613 0.2021 0.08957 0 0.2721 0.005299 0.001652 0.02075 0.2472

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.50 820.1 0.08374 0.2743 0.5056 0.02841 0.002169 0.6992
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6079 0.3197 0.2986 0.04907 0.1640 0.2151
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6814 0.1941 0.02873 0.3423 0.8528 0.04513
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3106 0.05081 0.50840.0001153 0.1725 0.1877

mode liq bi g mu pl ilm ru ky q
 0.1725 0.1877 0.1048 0 0.2657 0.004730 0.001947 0.02133 0.2412

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 829.8 0.08384 0.2805 0.4805 0.03027 0.002212 0.6906
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5998 0.3029 0.2910 0.05120 0.1698 0.2119
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6637 0.2021 0.03250 0.3288 0.8465 0.04311

ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.2883	0.06051	0.4942	8.930e-5	0.1832	0.1732

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1832	0.1732	0.1205		0	0.2592	0.004105	0.002286	0.02209 0.2354

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.50	838.6	0.08353	0.2858	0.4604	0.03188	0.002238	0.6816
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5933	0.2867	0.2834	0.05326	0.1750	0.2084	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6457	0.2092	0.03635	0.3153	0.8402	0.04166	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2638	0.07207	0.4798	7.225e-5	0.1933	0.1588	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1933	0.1588	0.1363		0	0.2527	0.003439	0.002657	0.02295 0.2299

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	846.7	0.08286	0.2902	0.4452	0.03324	0.002254	0.6722
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5883	0.2713	0.2758	0.05523	0.1798	0.2045	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6274	0.2152	0.04014	0.3020	0.8339	0.04066	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2374	0.08626	0.4654	6.029e-5	0.2027	0.1442	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2027	0.1442	0.1522		0	0.2467	0.002749	0.003054	0.02384 0.2246

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.50	854.1	0.08181	0.2935	0.4358	0.03434	0.002262	0.6626
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5851	0.2565	0.2683	0.05711	0.1841	0.2004	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6088	0.2201	0.04382	0.2889	0.8276	0.04005	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2093	0.1044	0.4511	5.144e-5	0.2111	0.1295	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2111	0.1295	0.1683		0	0.2412	0.002043	0.003475	0.02471 0.2195

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	860.7	0.08025	0.2956	0.4352	0.03513	0.002262	0.6524
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5839	0.2422	0.2607	0.05892	0.1878	0.1960	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5897	0.2242	0.04745	0.2757	0.8211	0.03984	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1789	0.1296	0.4366	4.454e-5	0.2185	0.1144	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2185	0.1144	0.1850		0	0.2367	0.001308	0.003929	0.02558 0.2147

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.50    866.1 0.07752 0.2955 0.4558 0.03535 0.002245 0.6407
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5867 0.2275 0.2526 0.06078 0.1907 0.1913
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.5694 0.2291 0.05154 0.2613 0.8146 0.04039
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1425 0.1722 0.4207 3.868e-5 0.2236 0.09775

```

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2236	0.09775	0.2035		0	0.23330	0.004485	0.004457	0.02672 0.2101

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50    659.8 0.06255 0.1724 0.8574 0.0088730.0006252 0.6876
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7541 0.3917 0.2786 0.03692 0.09065 0.2995
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7911 0.1861 0.01302 0.3601 0.9355 0.2217
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.3849 0.004948 0.7550 0.6534 0.07581 0.2480

```

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.07581	0.2480	0.03064	0.03959	0.2984	0.01204		0	0.01440 0.2811

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00    691.2 0.06635 0.1906 0.8122 0.011030.0008542 0.7053
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7292 0.3993 0.2996 0.03735 0.1022 0.2728
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7826 0.1746 0.01321 0.3768 0.9128 0.1404
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.3859 0.007873 0.7345 0.6089 0.08736 0.2539

```

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.08736	0.2539	0.02802	0.02331	0.2997	0.01104		0	0.01761 0.2791

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50    722.4 0.07129 0.2096 0.7549 0.01376 0.001157 0.7186
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.7017	0.4026	0.3160	0.03793	0.1146	0.2504
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7722	0.1650	0.01363	0.3891	0.8980	0.09859
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.3864	0.01223	0.7094	0.5519	0.1009	0.2570

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1009	0.2570	0.02828	0.009681	0.2982	0.01003	0	0.01989	0.2761

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.99	684.2	0.06374	0.1897	0.8335	0.0098880	0.0008114	0.7017
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7341	0.3966	0.2914	0.03722	0.09965	0.2808	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7823	0.1665	0.01196	0.3725	0.9177	0.1624	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3573	0.007523	0.7394	0.6197	0	0.2511	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0	0.2511	0.02930	0.03927	0.3297	0.01134	0	0.01348	0.2930	0.03282

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.50	643.1	0.05854	0.1628	0.8862	0.0080490	0.0005152	0.6595
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7689	0.3615	0.2500	0.04057	0.08553	0.3235	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7820	0.2159	0.01741	0.3276	0.9673	0.4033	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3781	0.003635	0.6664	0.5299	0.06051	0.2252	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.06051	0.2252	0.05810	0.08829	0.2740	0.008612	0.002024	0	0.2833

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	653.2	0.05626	0.1700	0.8851	0.0084590	0.0005505	0.6542
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	

0.7636 0.3462 0.2445 0.04253 0.08974 0.3201
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7688 0.2273 0.02061 0.3170 0.9491 0.3141
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3550 0.004300 0.46920.0003022 0.06432 0.2121

mode liq bi g mu pl ilm ru ky q
0.06432 0.2121 0.07615 0.09112 0.2686 0.005528 0.003489 0 0.2787

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 664.0 0.05445 0.1771 0.8825 0.0090040.0005887 0.6486
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7578 0.3309 0.2402 0.04451 0.09433 0.3146
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7546 0.2403 0.02456 0.3065 0.9343 0.2629
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3367 0.005071 0.45810.0001756 0.06704 0.2011

mode liq bi g mu pl ilm ru ky q
0.06704 0.2011 0.08889 0.09589 0.2624 0.005054 0.003612 0 0.2760

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 676.1 0.05312 0.1849 0.8785 0.0096390.0006383 0.6445
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7506 0.3174 0.2376 0.04634 0.09943 0.3071
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7400 0.2497 0.02828 0.2978 0.9202 0.2230
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3193 0.006070 0.44940.0001264 0.06998 0.1909

mode liq bi g mu pl ilm ru ky q
0.06998 0.1909 0.1007 0.1003 0.2563 0.004587 0.003711 0 0.2735

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 689.7 0.05231 0.1934 0.8724 0.010410.0007032 0.6421
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7420 0.3058 0.2367 0.04802 0.1052 0.2979
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7250 0.2552 0.03156 0.2911 0.9064 0.1893
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3035 0.007385 0.44310.0001011 0.07341 0.1815

mode liq bi g mu pl ilm ru ky q
0.07341 0.1815 0.1114 0.1041 0.2507 0.004151 0.003785 0 0.2710

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 705.4 0.05219 0.2030 0.8628 0.011420.0007916 0.6418
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7314 0.2960 0.2379 0.04956 0.1118 0.2871
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7098 0.2567 0.03421 0.2867 0.8928 0.1590
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2905 0.009196 0.4397 8.642e-5 0.07774 0.1728

mode liq bi g mu pl ilm ru ky q
0.07774 0.1728 0.1208 0.1065 0.2462 0.003776 0.003823 0 0.2683

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 744.8 0.05479 0.2260 0.8249 0.01474 0.001081 0.6474
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7019 0.2820 0.2464 0.05224 0.1288 0.2610
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6794 0.2491 0.03759 0.2848 0.8676 0.1069
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2746 0.01562 0.4414 7.132e-5 0.09073 0.1578

mode liq bi g mu pl ilm ru ky q
0.09073 0.1578 0.1357 0.1064 0.2402 0.003248 0.003771 0 0.2621

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 765.8 0.05709 0.2381 0.7971 0.01699 0.001272 0.6503
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6849 0.2755 0.2509 0.05347 0.1383 0.2480
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6639 0.2438 0.03901 0.2844 0.8573 0.08842
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2677 0.02071 0.4428 6.583e-5 0.09908 0.1502

mode liq bi g mu pl ilm ru ky q
0.09908 0.1502 0.1430 0.1051 0.2374 0.003005 0.003747 0 0.2584

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 785.0 0.05937 0.2491 0.7678 0.01932 0.001462 0.6512
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6689 0.2681 0.2535 0.05473 0.1474 0.2366
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6481 0.2399 0.04073 0.2823 0.8486 0.07541
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2581 0.02700 0.4419 6.016e-5 0.1077 0.1415

mode liq bi g mu pl ilm ru ky q
0.1077 0.1415 0.1516 0.1045 0.2339 0.002703 0.003785 0 0.2544

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 802.0 0.06137 0.2588 0.7389 0.02157 0.001636 0.6500
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6546 0.2596 0.2540 0.05603 0.1559 0.2267
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6319 0.2373 0.04273 0.2783 0.8409 0.06629
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2454 0.03444 0.4386 5.454e-5 0.1163 0.1317

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1163	0.1317	0.1613	0.1045	0.2298	0.002336	0.003893	0	0.2502	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 817.0 0.06305 0.2672 0.7112 0.02369 0.001789 0.6473
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6421 0.2504 0.2529 0.05735 0.1635 0.2180
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6155 0.2354 0.04487 0.2729 0.8338 0.05971
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2301 0.04320 0.4332 4.932e-5 0.1249 0.1209

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1249	0.1209	0.1721	0.1049	0.2255	0.001924	0.004065	0	0.2458	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 830.4 0.06444 0.2745 0.6846 0.02566 0.001921 0.6433
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6313 0.2409 0.2506 0.05865 0.1706 0.2102
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5988 0.2336 0.04701 0.2665 0.8270 0.05482
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2130 0.05354 0.4266 4.464e-5 0.1333 0.1093

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1333	0.1093	0.1835	0.1055	0.2213	0.001488	0.004289	0	0.2412	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 842.4 0.06556 0.2807 0.6594 0.02746 0.002034 0.6383
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6220 0.2312 0.2475 0.05994 0.1770 0.2030
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5820 0.2316 0.04907 0.2594 0.8204 0.05110
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1944 0.06590 0.4189 4.051e-5 0.1418 0.09707

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1418	0.09707	0.1955	0.1060	0.2176	0.001045	0.004559	0	0.2364	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.50 853.2 0.06640 0.2860 0.6358 0.02908 0.002127 0.6325
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6141 0.2215 0.2438 0.06119 0.1828 0.1963
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5649 0.2291 0.05097 0.2518 0.8138 0.04826
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1747 0.08093 0.4104 3.687e-5 0.1504 0.08409

```

mode  liq  bi   g   mu   pl  ilm  ru   ky   q
      0.1504 0.08409 0.2081 0.1061 0.21460.0006053 0.004870    0 0.2313

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00    863.0 0.06690 0.2903 0.6152 0.03048 0.002201 0.6260
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6078 0.2117 0.2396 0.06242 0.1881 0.1899
      x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
      0.5475 0.2262 0.05272 0.2437 0.8073 0.04611
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.1542 0.09971 0.4013 3.365e-5 0.1590 0.07033

```

```

mode  liq  bi   g   mu   pl  ilm  ru   ky   q
      0.1590 0.07033 0.2212 0.1058 0.21220.0001736 0.005223    0 0.2261

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.05    637.3 0.06178 0.1573 0.8792 0.0079530.0004957 0.6711
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7712 0.3837 0.2634 0.03674 0.08280 0.3196
      x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
      0.7969 0.2033 0.01394 0.3452 0.9856 0.5533
      ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
      0.4073 0.003302 0.7680 0.6803 0.05588 0.2433

```

```

mode  liq  bi   g   mu   pl  ilm  ru   ky   q
      0.05588 0.2433 0.03439 0.08582 0.2778 0.01268    0    0 0.2901

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.12    857.8 0.1426 0.3146 0.4992 0.02648 0.004869 0.6680
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.4928 0.2891 0.3532 0.04153 0.1841 0.1745
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.5787 0.03584 0.006403 0.4073 0.04122 0.7016
      Q(ilm)

```

0.43

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2719	0.1438	0.1147	0.2643	0.01129		0	0 0.1939

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.55	821.2	0.08377	0.2750	0.5028	0.02861	0.002174	0.6984
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6070	0.3179	0.2978	0.04929	0.1646	0.2148	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6795	0.1950	0.02911	0.3409	0.8521	0.04489	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2284	0.01399	0.3084	0.05175	0.50700	0.0001120	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1737	0.1862	0.1064		0	0	0.2650	0.004667	0.001981	0.02141 0.2406

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	642.6	0.06114	0.1624	0.8786	0.0079260	0.0005299	0.6745
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7667	0.3843	0.2648	0.03679	0.08464	0.3162	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7938	0.1930	0.01300	0.3477	0.9591	0.3360	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3878	0.003720	0.7650	0.6742	0.06775	0.2429	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.06775	0.2429	0.03412	0.05652	0.2930	0.01259		0 0.009806	0.2833

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	653.8	0.06197	0.1689	0.8651	0.0085170	0.0005894	0.6834
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7586	0.3895	0.2739	0.03686	0.08851	0.3052	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7923	0.1885	0.01300	0.3562	0.9420	0.2493	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	

0.3851 0.004498 0.7586 0.6609 0.07344 0.2464

mode liq bi g mu pl ilm ru ky q
0.07344 0.2464 0.03162 0.04401 0.2973 0.01223 0 0.01332 0.2816

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 666.0 0.06320 0.1759 0.8492 0.0092580.0006646 0.6916
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7494 0.3937 0.2831 0.03698 0.09286 0.2939
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7897 0.1838 0.01305 0.3639 0.9299 0.1995
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3850 0.005440 0.7513 0.6454 0.07810 0.2494

mode liq bi g mu pl ilm ru ky q
0.07810 0.2494 0.02983 0.03576 0.2990 0.01185 0 0.01525 0.2807

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 678.5 0.06468 0.1832 0.8316 0.010100.0007531 0.6988
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7396 0.3969 0.2917 0.03715 0.09745 0.2830
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7864 0.1791 0.01311 0.3707 0.9205 0.1655
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3854 0.006558 0.7433 0.6281 0.08265 0.2519

mode liq bi g mu pl ilm ru ky q
0.08265 0.2519 0.02866 0.02914 0.2997 0.01145 0 0.01657 0.2800

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 691.2 0.06635 0.1906 0.8122 0.011030.0008542 0.7053
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7292 0.3993 0.2996 0.03735 0.1022 0.2728
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7826 0.1746 0.01321 0.3768 0.9128 0.1404
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3859 0.007873 0.7345 0.6089 0.08736 0.2539

mode liq bi g mu pl ilm ru ky q
0.08736 0.2539 0.02802 0.02331 0.2997 0.01104 0 0.01761 0.2791

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 703.8 0.06820 0.1981 0.7909 0.012050.0009670 0.7111
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7185 0.4011 0.3067 0.03757 0.1071 0.2633
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7786 0.1705 0.01334 0.3822 0.9062 0.1209
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3863 0.009415 0.7250 0.5878 0.09240 0.2554

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.09240	0.2554	0.02784	0.01784	0.2993	0.01064		0	0.01853 0.2781

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	716.3	0.07022	0.2058	0.7675	0.01317	0.001091	0.7162
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7074	0.4022	0.3131	0.03780	0.1121	0.2545
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7744	0.1667	0.01352	0.3870	0.9006	0.1053
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3865	0.01122	0.7148	0.5645	0.09789	0.2565

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.09789	0.2565	0.02804	0.01244	0.2986	0.01023		0	0.01942 0.2768

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	728.5	0.07242	0.2135	0.7417	0.01437	0.001226	0.7208
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6959	0.4028	0.3188	0.03805	0.1172	0.2464
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7700	0.1634	0.01375	0.3912	0.8956	0.09251
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3863	0.01332	0.7037	0.5386	0.1040	0.2573

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1040	0.2573	0.02859	0.006847	0.2978	0.009825		0	0.02038 0.2753

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	740.5	0.07482	0.2213	0.7130	0.01568	0.001370	0.7248
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6840	0.4030	0.3237	0.03831	0.1223	0.2389
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7657	0.1605	0.01401	0.3949	0.8912	0.08187
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3857	0.01578	0.6917	0.5097	0.1108	0.2577

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1108	0.2577	0.029440	0.008055	0.2969	0.009423		0	0.02148 0.2734

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

15.60 899.3 0.1038 0.3113 0.4824 0.04409 0.003280 0.5867
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5309 0.1804 0.2659 0.06332 0.2068 0.1545
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4530 0.1139 0.02689 0.2778 0.02192 0.2920
 k(pl) x(ilm) Q(ilm)
 0.07236 0.4302 3.837e-5

mode liq bi g ksp pl ilm ru ky q
 0.3129 0 0.2576 0.08511 0.1761 0.004459 0.0062500 0.0009807 0.1565

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 898.6 0.1012 0.3101 0.4916 0.04382 0.003200 0.5859
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5353 0.1793 0.2633 0.06370 0.2064 0.1548
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4535 0.1203 0.02849 0.2810 0.02167 0.2831
 k(pl) x(ilm) Q(ilm)
 0.07379 0.4253 3.705e-5

mode liq bi g ksp pl ilm ru ky q
 0.3086 0 0.2599 0.08920 0.1711 0.004128 0.006315 0.002304 0.1584

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 897.9 0.09870 0.3090 0.5016 0.04347 0.003121 0.5850
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5398 0.1782 0.2608 0.06407 0.2060 0.1551
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4539 0.1269 0.03017 0.2845 0.02141 0.2738
 k(pl) x(ilm) Q(ilm)
 0.07535 0.4204 3.580e-5

mode liq bi g ksp pl ilm ru ky q
 0.3044 0 0.2623 0.09347 0.1657 0.003784 0.006380 0.003659 0.1603

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 897.2 0.09617 0.3080 0.5124 0.04304 0.003046 0.5842
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5442 0.1771 0.2582 0.06442 0.2055 0.1554
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4544 0.1334 0.03191 0.2882 0.02114 0.2641
 k(pl) x(ilm) Q(ilm)
 0.07704 0.4156 3.464e-5

mode liq bi g ksp pl ilm ru ky q
 0.3003 0 0.2647 0.09790 0.1600 0.003428 0.006445 0.005035 0.1622

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.40 896.5 0.09365 0.3071 0.5239 0.04253 0.002973 0.5835
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5486 0.1760 0.2557 0.06476 0.2051 0.1558
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4548 0.1399 0.03369 0.2921 0.02084 0.2541
k(pl) x(ilm) Q(ilm)
0.07886 0.4109 3.354e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2963	0	0.2672	0.1025	0.1541	0.003065	0.006510	0.006419	0.1640

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 895.7 0.09114 0.3062 0.5361 0.04193 0.002904 0.5828
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5529 0.1750 0.2532 0.06507 0.2046 0.1561
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4552 0.1462 0.03550 0.2962 0.02053 0.2439
k(pl) x(ilm) Q(ilm)
0.08081 0.4063 3.252e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2924	0	0.2696	0.1072	0.1480	0.002697	0.006574	0.007795	0.1658

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 895.0 0.08865 0.3055 0.5489 0.04127 0.002837 0.5822
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5571 0.1740 0.2507 0.06537 0.2042 0.1565
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4556 0.1524 0.03731 0.3005 0.02020 0.2335
k(pl) x(ilm) Q(ilm)
0.08288 0.4019 3.157e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2886	0	0.2720	0.1120	0.1418	0.002330	0.006636	0.009152	0.1675

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 894.3 0.08619 0.3048 0.5621 0.04054 0.002775 0.5816
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5613 0.1731 0.2482 0.06564 0.2038 0.1568
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4560 0.1583 0.03911 0.3048 0.01986 0.2232
k(pl) x(ilm) Q(ilm)
0.08505 0.3976 3.068e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2849	0	0.2743	0.1169	0.1355	0.001966	0.006696	0.01047	0.1692

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 893.5 0.08377 0.3043 0.5757 0.03977 0.002715 0.5811
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5653 0.1722 0.2457 0.06589 0.2034 0.1572
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)

0.4564 0.1639 0.04087 0.3093 0.01949 0.2128
k(pl) x(ilm) Q(ilm)
0.08730 0.3935 2.985e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2814	0	0.2766	0.1218	0.1293	0.001610	0.006753	0.01175	0.1708

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 892.8 0.08140 0.3039 0.5893 0.03895 0.002659 0.5807
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5692 0.1714 0.2432 0.06613 0.2030 0.1576
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4568 0.1692 0.04259 0.3137 0.01911 0.2027
k(pl) x(ilm) Q(ilm)
0.08962 0.3895 2.908e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2781	0	0.2787	0.1268	0.1230	0.001263	0.006808	0.01298	0.1724

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 892.2 0.07908 0.3036 0.6030 0.03811 0.002606 0.5803
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5730 0.1706 0.2408 0.06634 0.2026 0.1580
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4571 0.1742 0.04424 0.3181 0.01871 0.1927
k(pl) x(ilm) Q(ilm)
0.09199 0.3856 2.836e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2749	0	0.2808	0.1317	0.11690	0.0009295	0.006859	0.01414	0.1739

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 891.5 0.07682 0.3033 0.6166 0.03724 0.002556 0.5801
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5766 0.1699 0.2384 0.06653 0.2023 0.1584
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4574 0.1788 0.04582 0.3225 0.01830 0.1830
k(pl) x(ilm) Q(ilm)
0.09439 0.3819 2.768e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2718	0	0.2827	0.1365	0.11090	0.0006104	0.006907	0.01523	0.1753

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 890.9 0.07463 0.3031 0.6300 0.03636 0.002509 0.5799
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5801 0.1692 0.2360 0.06670 0.2019 0.1589
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4577 0.1830 0.04733 0.3267 0.01787 0.1736
k(pl) x(ilm) Q(ilm)

0.09679 0.3783 2.705e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2690	0	0.2845	0.1412	0.1051	0.0003071	0.006952	0.01626	0.1767

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 890.3 0.07251 0.3030 0.6430 0.03548 0.002465 0.5797
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5835 0.1686 0.2336 0.06686 0.2016 0.1593
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4580 0.1869 0.04876 0.3308 0.01743 0.1646
k(pl) x(ilm) Q(ilm)
0.09918 0.3749 2.646e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2663	0	0.2862	0.1459	0.09947	2.029e-5	0.006994	0.01722	0.1780

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.45 899.8 0.1057 0.3123 0.4759 0.04423 0.003343 0.5873
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5275 0.1813 0.2678 0.06303 0.2071 0.1542
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4527 0.1091 0.02573 0.2755 0.02209 0.2985
k(pl) x(ilm) Q(ilm)
0.07136 0.4340 3.944e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.3162	0	0.2559	0.08211	0.1798	0.004701	0.006201	0	0.1551

calcs use:

calcs use:

phases in excess: q (from script)

pressure-temperature calculations

Unit activities

no excluded assemblages

no of reactions = 3, no of intersections = 1

1) sill = and

- 2) ky = and
- 3) ky = sill

Thermodynamics of reactions ($0 = a + bT + cP + RT \ln K$)

linearised at $T = 600$, $P = 7.6$

(a, b and c includes fluid fugacities; $\ln K$ includes $x(\text{CO}_2)$, $x(\text{H}_2\text{O})$)

	a	sd(a)	b	c	ln_K	sd(ln_K)	
1	-3.36	0.04	0.00306	0.189	0	0	
2	4.07	0.05	-0.00894	0.741	0	0	
3	7.43	0.06	-0.01200	0.552	0	0	

Temperatures in the range 200 <-> 1000jC;

uncertainties at or near 7.6 kbars

TjC	0.20	1.6	3.0	4.4	5.8	7.2	8.6	10.0	11.4	12.8	14.2	15.0	sdT	sdP
1	853	746	646	552	464	382	306	235	-	-	-	-	13	0.24
2	209	320	433	547	663	781	900	+	+	+	+	+	6	0.068
3	350	416	483	548	614	678	743	806	869	931	992	+	5	0.11

P-T of intersections

window : P 0.2 <-> 15.0 kbars; T 200 <-> 1000jC

¥ stable intersection 1 involving and,sill,ky

	low T	high T	dp/dt
1) sill = and	[ky]	stable	-0.0154
2) ky = and	[sill]	stable	0.0122
3) ky = sill	[and]	stable	0.0214

P = 4.4 kbar (sd = 0.1), T = 550 jC (sd = 8), (cor = 0.802)

calcs use:

phases in excess: q (from script)

pressure-temperature calculations

	qL	abL	kspL	anL	sill	foL	faL	h2oL	
a	0.0559	0.0390	0.0176	0.00150	0.00190	9.72e-7	8.34e-5	0.547	
sd(ln a)	0.40281	0.31857	0.38800	1.16770	16.05922	14.46110	14.46043	0.03575	

	phl	ann	obi	east	tbi	fbi	alm	py	
a	0.128	0.0186	0.232	0.0569	0.000533	0.0172	0.196	0.0209	
sd(ln a)	0.17081	0.18055	0.15636	0.15001	0.32919	0.17715	0.21198	0.37960	

	gr	andr	san	abh	an	abh	an	san	
a	0.0191	0.0127	0.909	0.443	0.271	0.738	0.339	0.177	
sd(ln a)	0.50312	0.84396	0.01582	0.16490	2.50954	0.02986	0.09610	1.53758	

	oilm	dilm	hem	ru	ky
a	0.696	0.619	0.159	1.00	1.00
sd(ln a)	0.04153	0.12098	0.15463	0	0

excluded assemblages | an | san | abh | andr ky | qL py dilm | py oilm |

| qL tbi |

*** INCOMPLETE set of reactions and intersections ***

no of reactions = 150, no of intersections = 190

- 1) $8ky = 5silL$
- 2) $dilm = oilm$
- 3) $qL + 5silL + 4gr = 12anL$
- 4) $an = anL$
- 5) $qL + 4gr + 8ky = 12anL$
- 6) $12an = qL + 5silL + 4gr$
- 7) $qL + 4gr + 8ky = 12an$
- 8) $8py = qL + 5silL + 6foL$
- 9) $qL + 6foL + 8ky = 8py$
- 10) $8alm = qL + 5silL + 6faL$
- 11) $qL + 6faL + 8ky = 8alm$
- 12) $san = kspL$
- 13) $abh = abL$
- 14) $2faL + 8ru = qL + 8oilm$
- 15) $2faL + 8ru = qL + 8dilm$
- 16) $4py + 2gr = 6anL + 3foL$
- 17) $3foL + 6an = 4py + 2gr$
- 18) $4alm + 2gr = 6anL + 3faL$
- 19) $3faL + 6an = 4alm + 2gr$
- 20) $3faL + 4py = 3foL + 4alm$
- 21) $8alm + 24ru = 4qL + 5silL + 24oilm$
- 22) $8alm + 24ru = 4qL + 5silL + 24dilm$
- 23) $qL + 6oilm + 2ky = 2alm + 6ru$
- 24) $qL + 6dilm + 2ky = 2alm + 6ru$
- 25) $5silL + 8faL + 8ru = 8alm + 8oilm$
- 26) $5silL + 8faL + 8ru = 8alm + 8dilm$
- 27) $faL + ru + ky = alm + oilm$
- 28) $faL + ru + ky = alm + dilm$
- 29) $3qL + 8phl = 8kspL + 6foL + 8h2oL$
- 30) $6qL + 8east = 8kspL + 5silL + 4foL + 8h2oL$
- 31) $3qL + 2foL + 8east = 5silL + 8phl$
- 32) $12qL + 24east = 8kspL + 15silL + 8h2oL + 16phl$
- 33) $8kspL + 8h2oL + 8py = 4qL + 5silL + 8phl$
- 34) $24kspL + 5silL + 24h2oL + 16py = 20qL + 24east$
- 35) $2qL + 6east + 2py = 5silL + 6phl$
- 36) $8kspL + 8h2oL + 8py = 7qL + 2foL + 8east$
- 37) $4kspL + 2foL + 4h2oL + 4ky = 3qL + 4east$
- 38) $2phl + 2py = qL + 2foL + 2east$

- 39) $8phl + 8ky = 3qL + 2foL + 8east$
- 40) $4kspL + 4h2oL + 3py = 3qL + phl + 3east$
- 41) $2kspL + 2h2oL + 4phl + 6ky = 3qL + 6east$
- 42) $qL + 2phl + 2ky = 2kspL + 2h2oL + 2py$
- 43) $6kspL + 6h2oL + 4py + 2ky = 5qL + 6east$
- 44) $3phl + 4ky = qL + 3east + py$
- 45) $6foL + 8h2oL + 8san = 3qL + 8phl$
- 46) $5sill + 4foL + 8h2oL + 8san = 6qL + 8east$
- 47) $15sill + 8h2oL + 16phl + 8san = 12qL + 24east$
- 48) $8h2oL + 8py + 8san = 4qL + 5sill + 8phl$
- 49) $5sill + 24h2oL + 16py + 24san = 20qL + 24east$
- 50) $8h2oL + 8py + 8san = 7qL + 2foL + 8east$
- 51) $2foL + 4h2oL + 4san + 4ky = 3qL + 4east$
- 52) $4h2oL + 3py + 4san = 3qL + phl + 3east$
- 53) $2h2oL + 4phl + 2san + 6ky = 3qL + 6east$
- 54) $qL + 2phl + 2ky = 2h2oL + 2py + 2san$
- 55) $6h2oL + 4py + 6san + 2ky = 5qL + 6east$
- 56) $8kspL + 8foL + 8h2oL + 8east = 5sill + 16phl$
- 57) $8phl + 24py = 8kspL + 15sill + 24foL + 8h2oL$
- 58) $8east + 48py = 8kspL + 35sill + 40foL + 8h2oL$
- 59) $2east + 6py = 5sill + 4foL + 2phl$
- 60) $8kspL + 8h2oL + 12east + 12py = 15sill + 20phl$
- 61) $7phl + 3py = 4kspL + 6foL + 4h2oL + 3east$
- 62) $2phl + ky = kspL + foL + h2oL + east$
- 63) $kspL + 3foL + h2oL + 3ky = phl + 3py$
- 64) $kspL + 5foL + h2oL + 7ky = east + 6py$
- 65) $2foL + phl + 4ky = east + 3py$
- 66) $5phl + 6ky = 2kspL + 2h2oL + 3east + 3py$
- 67) $8foL + 8h2oL + 8east + 8san = 5sill + 16phl$
- 68) $15sill + 24foL + 8h2oL + 8san = 8phl + 24py$
- 69) $35sill + 40foL + 8h2oL + 8san = 8east + 48py$
- 70) $8h2oL + 12east + 12py + 8san = 15sill + 20phl$
- 71) $6foL + 4h2oL + 3east + 4san = 7phl + 3py$
- 72) $2phl + ky = foL + h2oL + east + san$
- 73) $3foL + h2oL + san + 3ky = phl + 3py$
- 74) $5foL + h2oL + san + 7ky = east + 6py$
- 75) $5phl + 6ky = 2h2oL + 3east + 3py + 2san$
- 76) $3qL + 8ann = 8kspL + 6faL + 8h2oL$
- 77) $8kspL + 8h2oL + 8alm = 4qL + 5sill + 8ann$
- 78) $qL + 2ann + 2ky = 2kspL + 2h2oL + 2alm$
- 79) $6faL + 8h2oL + 8san = 3qL + 8ann$
- 80) $8h2oL + 8alm + 8san = 4qL + 5sill + 8ann$
- 81) $qL + 2ann + 2ky = 2h2oL + 2alm + 2san$
- 82) $8ann + 24alm = 8kspL + 15sill + 24faL + 8h2oL$
- 83) $kspL + 3faL + h2oL + 3ky = ann + 3alm$
- 84) $15sill + 24faL + 8h2oL + 8san = 8ann + 24alm$
- 85) $3faL + h2oL + san + 3ky = ann + 3alm$
- 86) $8alm + 4gr + 24ru = 3qL + 12anL + 24oilm$
- 87) $8alm + 4gr + 24ru = 3qL + 12anL + 24dilm$
- 88) $8alm + 4gr + 24ru = 3qL + 12an + 24oilm$

- 89) $8alm + 4gr + 24ru = 3qL + 12an + 24dilm$
- 90) $5sill + 2faL + 4gr + 8ru = 12anL + 8oilm$
- 91) $5sill + 2faL + 4gr + 8ru = 12anL + 8dilm$
- 92) $15sill + 8alm + 16gr + 24ru = 48anL + 24oilm$
- 93) $15sill + 8alm + 16gr + 24ru = 48anL + 24dilm$
- 94) $faL + 2gr + 4ru + 4ky = 6anL + 4oilm$
- 95) $faL + 2gr + 4ru + 4ky = 6anL + 4dilm$
- 96) $alm + 2gr + 3ru + 3ky = 6anL + 3oilm$
- 97) $alm + 2gr + 3ru + 3ky = 6anL + 3dilm$
- 98) $5sill + 2faL + 4gr + 8ru = 12an + 8oilm$
- 99) $5sill + 2faL + 4gr + 8ru = 12an + 8dilm$
- 100) $15sill + 8alm + 16gr + 24ru = 48an + 24oilm$
- 101) $15sill + 8alm + 16gr + 24ru = 48an + 24dilm$
- 102) $faL + 2gr + 4ru + 4ky = 6an + 4oilm$
- 103) $faL + 2gr + 4ru + 4ky = 6an + 4dilm$
- 104) $alm + 2gr + 3ru + 3ky = 6an + 3oilm$
- 105) $alm + 2gr + 3ru + 3ky = 6an + 3dilm$
- 106) $24anL + 8hem = 15sill + 8andr$
- 107) $3qL + 24anL + 18faL + 8hem = 24alm + 8andr$
- 108) $3qL + 12gr + 8hem = 12anL + 8andr$
- 109) $2qL + 8gr + 8hem = 5sill + 8andr$
- 110) $24an + 8hem = 15sill + 8andr$
- 111) $3qL + 6faL + 8gr + 8hem = 8alm + 8andr$
- 112) $3qL + 18faL + 24an + 8hem = 24alm + 8andr$
- 113) $3qL + 12gr + 8hem = 8andr + 12an$
- 114) $16alm + 8gr + 8hem = 15sill + 12faL + 8andr$
- 115) $5sill + 6foL + 2faL + 8ru = 8py + 8dilm$
- 116) $15sill + 24foL + 8alm + 24ru = 32py + 24dilm$
- 117) $4kspL + 5sill + 8foL + 4ru = 4tbi + 8py$
- 118) $kspL + 2foL + ru + 2ky = tbi + 2py$
- 119) $5sill + 8foL + 4san + 4ru = 4tbi + 8py$
- 120) $2foL + san + ru + 2ky = tbi + 2py$
- 121) $7qL + 8east + 4gr = 8kspL + 12anL + 4foL + 8h2oL$
- 122) $2qL + foL + 4east + 2gr = 6anL + 4phl$
- 123) $15qL + 24east + 12gr = 8kspL + 36anL + 8h2oL + 16phl$
- 124) $8kspL + 8h2oL + 8py + 4gr = 3qL + 12anL + 8phl$
- 125) $21qL + 24east + 4gr = 24kspL + 12anL + 24h2oL + 16py$
- 126) $3qL + 6east + 2py + 4gr = 12anL + 6phl$
- 127) $8kspL + 4foL + 8h2oL + 12an = 7qL + 8east + 4gr$
- 128) $4phl + 6an = 2qL + foL + 4east + 2gr$
- 129) $8kspL + 8h2oL + 16phl + 36an = 15qL + 24east + 12gr$
- 130) $3qL + 8phl + 12an = 8kspL + 8h2oL + 8py + 4gr$
- 131) $24kspL + 24h2oL + 16py + 12an = 21qL + 24east + 4gr$
- 132) $6phl + 12an = 3qL + 6east + 2py + 4gr$
- 133) $12anL + 4foL + 8h2oL + 8san = 7qL + 8east + 4gr$
- 134) $36anL + 8h2oL + 16phl + 8san = 15qL + 24east + 12gr$
- 135) $8h2oL + 8py + 4gr + 8san = 3qL + 12anL + 8phl$
- 136) $12anL + 24h2oL + 16py + 24san = 21qL + 24east + 4gr$
- 137) $4foL + 8h2oL + 12an + 8san = 7qL + 8east + 4gr$
- 138) $8h2oL + 16phl + 36an + 8san = 15qL + 24east + 12gr$

- 139) $8h2oL + 8py + 4gr + 8san = 3qL + 8phl + 12an$
 140) $24h2oL + 16py + 12an + 24san = 21qL + 24east + 4gr$
 141) $8kspL + 15sill + 6foL + 8h2oL + 12gr = 36anL + 8phl$
 142) $8kspL + 35sill + 4foL + 8h2oL + 24gr = 72anL + 8east$
 143) $10sill + 4phl + 6gr = 18anL + foL + 4east$
 144) $8kspL + 75sill + 8h2oL + 16phl + 48gr = 144anL + 24east$
 145) $8kspL + 15sill + 8h2oL + 8py + 16gr = 48anL + 8phl$
 146) $24kspL + 105sill + 24h2oL + 16py + 80gr = 240anL + 24east$
 147) $15sill + 6phl + 8gr = 24anL + 6east + 2py$
 148) $16kspL + 15foL + 16h2oL + 12east + 6gr = 18anL + 28phl$
 149) $4kspL + 3foL + 4h2oL + 6gr + 12ky = 18anL + 4phl$
 150) $2kspL + foL + 2h2oL + 6gr + 14ky = 18anL + 2east$

Thermodynamics of reactions ($0 = a + bT + cP + RT \ln K$)

linearised at $T = 900$, $P = 11.5$

(a, b and c includes fluid fugacities; $\ln K$ includes $x(CO_2)$, $x(H_2O)$)

	a	sd(a)	b	c	ln_K	sd(ln_K)	
1	457.86	7.58	-0.38338	13.790	-31.331	80.296	
2	-15.60	0	0.01153	0	0.117	0.128	
3	720.46	8.62	-0.62054	7.892	-28.004	81.535	
4	79.02	0.28	-0.03382	-0.206	-5.197	2.768	
5	1178.32	4.10	-1.00392	21.682	-59.334	14.162	
6	227.81	7.92	0.21473	-10.366	-34.365	85.782	
7	230.06	2.30	-0.59811	24.156	3.035	30.184	
8	705.14	8.15	-0.27742	21.777	-86.342	118.259	
9	-247.28	3.03	-0.10596	-7.987	55.011	86.821	
10	1294.36	9.83	-0.90176	17.821	-77.513	118.230	
11	-836.49	6.26	0.51838	-4.032	46.183	86.780	
12	43.89	0.22	-0.02791	0.447	-2.306	1.586	
13	55.35	0.13	-0.03897	0.488	-2.429	0.359	
14	-286.16	2.18	0.15008	3.798	12.995	28.926	
15	-161.36	2.18	0.05787	3.798	12.062	28.940	
16	712.80	2.54	-0.44898	14.834	-57.173	43.983	
17	-238.67	1.89	0.24608	-16.071	25.988	45.958	
18	1007.41	3.74	-0.76115	12.857	-52.759	43.963	
19	-533.28	3.34	0.55825	-14.094	21.574	45.939	
20	-294.61	3.41	0.31217	1.978	-4.414	61.376	
21	435.87	7.88	-0.45152	29.216	-38.527	80.336	
22	810.28	7.88	-0.72814	29.216	-41.328	80.383	
23	5.50	0.56	0.01704	-3.857	1.799	0.636	
24	-88.10	0.56	0.08619	-3.857	2.499	0.932	
25	-1580.52	11.28	1.05184	-14.023	90.509	140.830	
26	-1455.72	11.28	0.95963	-14.023	89.575	140.833	
27	-140.33	1.04	0.08356	-0.029	7.397	14.462	
28	-124.73	1.04	0.07203	-0.029	7.281	14.462	
29	1299.33	4.24	-0.65045	7.580	-95.099	86.842	
30	1382.68	8.94	-0.85784	10.235	-83.618	99.048	
31	83.36	8.23	-0.20739	2.655	11.481	85.374	
32	1549.40	24.70	-1.27262	15.545	-60.657	240.999	

33	-594.18	8.42	0.37303	14.197	8.757	80.442
34	-2737.77	15.79	2.01869	12.849	78.170	81.545
35	238.80	7.92	-0.22490	7.435	-12.975	80.315
36	-677.54	4.87	0.58042	11.542	-2.724	29.408
37	-462.41	2.38	0.23723	1.778	26.144	28.996
38	155.45	1.25	-0.01751	4.780	-24.456	28.939
39	374.51	3.21	-0.17599	11.135	-42.811	29.005
40	-416.49	2.10	0.29896	3.381	10.866	2.328
41	-43.95	2.42	0.03062	6.456	-8.334	1.829
42	263.01	0.92	-0.18910	-0.102	-10.022	1.209
43	-569.98	3.46	0.40883	6.660	11.710	3.555
44	109.53	1.15	-0.07924	3.177	-9.178	0.878
45	-948.23	3.86	0.42717	-4.004	76.647	87.654
46	-1031.59	8.77	0.63456	-6.659	65.167	99.760
47	-1198.30	24.64	1.04935	-11.969	42.205	241.293
48	-243.09	8.23	0.14975	17.773	-9.695	81.318
49	-1684.48	14.90	1.34885	23.576	22.816	89.021
50	-326.45	4.55	0.35714	15.118	-21.175	31.725
51	-286.86	2.21	0.12559	3.565	16.918	29.600
52	-240.95	1.91	0.18733	5.169	1.640	6.390
53	43.82	2.38	-0.02520	7.350	-12.947	3.493
54	175.24	0.81	-0.13328	-0.996	-5.409	3.212
55	-306.65	3.21	0.24137	9.341	-2.129	9.609
56	-1215.97	9.56	0.44306	-4.925	106.579	140.890
57	3414.75	25.62	-1.48271	72.910	-354.124	422.583
58	5613.54	56.63	-2.52236	140.895	-601.669	806.763
59	549.70	7.88	-0.25991	16.996	-61.886	98.989
60	-116.58	23.52	-0.07677	29.068	-17.193	240.982
61	882.83	3.41	-0.35149	10.961	-84.233	86.797
62	209.23	0.73	-0.10330	2.339	-17.239	14.471
63	-255.15	1.49	0.04157	-3.943	32.517	43.400
64	-301.06	2.50	-0.02016	-5.546	47.794	72.343
65	-45.92	1.09	-0.06173	-1.603	15.278	28.945
66	372.54	1.53	-0.26834	3.075	-19.200	1.684
67	-864.87	9.40	0.21978	-1.349	88.128	141.392
68	-3063.66	25.56	1.25943	-69.335	335.673	422.751
69	-5262.45	56.60	2.29908	-137.320	583.218	806.851
70	234.52	23.46	-0.30004	32.643	-35.644	241.276
71	-707.29	3.30	0.23985	-9.173	75.007	87.001
72	165.34	0.69	-0.07540	1.892	-14.932	14.547
73	-211.26	1.47	0.01366	-3.496	30.210	43.426
74	-257.17	2.49	-0.04807	-5.099	45.488	72.358
75	284.77	1.46	-0.21252	2.181	-14.587	3.419
76	1561.73	9.87	-1.17176	1.246	-52.953	86.839
77	-267.38	11.17	0.27000	16.576	-24.560	80.404
78	181.31	2.05	-0.16334	-0.697	-1.693	1.039
79	-1210.64	9.71	0.94848	2.330	34.502	87.651
80	83.72	11.03	0.04672	20.151	-43.011	81.280
81	93.54	2.01	-0.10752	-1.590	2.920	3.152
82	5444.80	34.28	-3.87703	54.710	-285.494	422.503

83	-508.90	3.21	0.34086	-1.668	23.938	43.388
84	-5093.71	34.23	3.65375	-51.134	267.042	422.671
85	-465.01	3.20	0.31295	-1.221	21.631	43.414
86	1156.33	4.59	-1.07206	37.108	-66.531	14.343
87	1530.74	4.59	-1.34869	37.108	-69.331	14.600
88	208.07	3.09	-0.66625	39.582	-4.162	30.270
89	582.47	3.09	-0.94288	39.582	-6.963	30.392
90	434.30	8.89	-0.47046	11.690	-15.008	86.512
91	559.10	8.89	-0.56267	11.690	-15.942	86.517
92	3317.70	28.11	-2.93369	60.785	-150.542	247.462
93	3692.11	28.11	-3.21031	60.785	-153.343	247.477
94	446.08	2.31	-0.42692	12.740	-23.169	16.101
95	508.48	2.31	-0.47302	12.740	-23.636	16.107
96	586.41	2.06	-0.51048	12.769	-30.567	7.082
97	633.21	2.06	-0.54506	12.769	-30.917	7.091
98	-513.97	8.21	-0.06465	14.164	47.361	90.526
99	-389.16	8.21	-0.15686	14.164	46.427	90.530
100	-475.35	24.61	-1.31045	70.680	98.933	269.455
101	-100.94	24.61	-1.58708	70.680	96.133	269.469
102	-28.05	1.57	-0.22402	13.977	8.015	20.901
103	34.35	1.57	-0.27012	13.977	7.548	20.906
104	112.28	1.16	-0.30757	14.006	0.618	15.093
105	159.08	1.16	-0.34215	14.006	0.268	15.097
106	-965.12	24.90	0.87353	-6.178	41.871	242.610
107	-4848.19	21.87	3.57880	-59.642	274.411	261.934
108	1196.25	5.29	-0.98810	17.498	-42.141	16.774
109	475.79	8.76	-0.36756	9.606	-14.137	80.693
110	931.40	23.96	0.06191	-11.126	-82.867	248.399
111	-818.56	8.12	0.53420	-8.216	63.377	87.152
112	-2951.67	20.78	2.76719	-64.590	149.673	267.304
113	247.99	4.06	-0.58229	19.972	20.228	31.495
114	3064.51	26.04	-2.17107	45.249	-169.163	297.007
115	-866.50	8.46	0.33529	-17.979	98.404	121.748
116	-2010.29	25.77	0.38153	-57.891	304.040	422.660
117	-958.25	8.71	0.48082	-24.736	97.156	140.871
118	-125.10	1.08	0.02436	-2.736	16.456	28.937
119	-782.70	8.67	0.36918	-22.948	87.931	140.997
120	-81.21	1.06	-0.00355	-2.290	14.150	28.975
121	2103.14	6.36	-1.47838	18.127	-111.622	59.712
122	401.91	2.62	-0.41397	5.274	-8.262	16.146
123	3710.77	15.83	-3.13425	39.221	-144.668	43.246
124	126.27	5.44	-0.24751	22.089	-19.247	14.922
125	3458.22	14.55	-2.63923	-4.957	-106.174	20.230
126	959.26	4.74	-0.84544	15.328	-40.979	14.293
127	-1154.88	5.38	1.07258	-20.601	49.253	65.391
128	72.22	2.00	0.21106	-6.510	-22.923	20.936
129	-865.98	12.12	1.91682	-46.642	-42.439	90.912
130	821.99	4.25	-0.15830	-24.563	-43.122	30.548
131	-2509.96	14.15	2.23342	2.484	43.805	33.463
132	-11.00	3.30	0.43963	-17.801	-21.390	30.246

133	-1752.05	6.12	1.25511	-14.551	93.171	60.886
134	-3359.68	15.74	2.91097	-35.645	126.217	44.854
135	477.37	5.16	-0.47079	25.665	-37.698	19.088
136	-2404.94	13.59	1.96939	15.684	50.820	41.040
137	-803.78	5.09	0.84930	-17.025	30.802	66.466
138	-514.89	11.99	1.69355	-43.067	-60.890	91.688
139	-470.89	3.88	-0.06498	28.138	24.671	32.785
140	-1456.68	13.16	1.56358	13.210	-11.549	48.937
141	862.05	26.17	-1.21118	16.097	11.087	259.559
142	2940.06	58.64	-2.86541	37.118	-84.405	571.399
143	1039.01	16.43	-0.82712	10.511	-47.746	162.637
144	7096.09	124.19	-6.17388	79.161	-275.389	1216.375
145	2287.65	28.24	-2.10914	45.765	-103.258	247.496
146	11671.38	179.47	-10.39216	170.692	-481.906	1709.862
147	1202.11	24.27	-1.01619	8.349	-43.033	242.551
148	-1392.93	12.20	0.05900	0.661	165.412	218.102
149	1117.82	6.47	-1.18066	28.733	-41.452	48.331
150	1536.28	6.24	-1.38727	33.412	-75.930	25.704

Temperatures in the range 300 <-> 1500jC;
uncertainties at or near 11.5 kbars

TjC	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	20.0	sdT	sdP
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	436	484	529	571	611	649	686	721	755	787	819	849	859	1093	45
2	975	975	975	975	975	975	975	975	975	975	975	975	975	106	+
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	530	556	580	602	622	640	657	673	688	701	714	726	729	942	84
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	711	712	712	711	708	704	698	692	684	674	663	651	647	377	100
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	486	522	556	587	617	644	670	695	719	741	762	783	789	88	5.1
6	-	-	-	-	-	362	459	*	*	*	*	*	1981	43	
	+	+	+	1444	1343	1233	1109	956					8133	97	
7	-	332	392	453	514	576	637	699	761	823	885	947	968	379	9.2
8	*	*	*	-	-	-	-	-	-	-	-	-	-	5538	27
			452	543	607	659	704	746	784	820	854	865	1435	42	
9	*	*	*	*	*	*	*	*	503	455	421	394	386	12446	89
						713	775	823	863	876	13922	94			
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	565	588	610	631	651	671	690	709	727	745	762	778	784	695	55
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	652	659	667	674	681	687	694	700	706	711	717	722	723	896	+
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	646	670	692	713	731	748	764	779	792	804	816	826	829	334	32
13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	663	680	696	712	727	741	755	768	781	793	805	816	820	57	6.3

[illegible]

39 - - - - - - - - - - - - - - -
 329 410 473 526 573 617 658 696 733 768 801 833 844 539 20
 40 769 758 745 732 717 700 683 664 645 623 601 577 569 52 4.5

 41 - - - - - 380 623 852 1070 1278 1475 + + 278 1.7
 + + +
 42 689 689 688 687 685 682 679 676 672 668 663 658 656 38 19

 43 810 794 775 755 734 710 685 658 629 598 564 528 516 62 3.6

 44 458 496 533 569 604 638 671 703 735 766 797 827 837 47 2.1

 45 - - - - - - - - - - - - - -
 603 607 611 615 618 621 624 627 630 632 635 637 638 862 +
 46 - - - - - - - - - - - - - -
 597 607 615 624 632 640 647 654 661 668 675 681 684 809 +
 47 591 606 621 635 649 663 675 688 700 711 722 733 737 1489 +

 48 + + + 1418 928 674 510 390 - - - - - 2862 28
 + + + + + + +
 49 784 762 740 716 691 665 638 610 581 551 520 489 478 436 24

 50 1306 1157 1023 904 799 706 623 550 484 425 371 323 308 794 15
 + + + + + + + +
 51 - - - - - - - - - - * * *
 769 746 721 693 661 625 584 534 469 368 1257 44
 52 852 819 783 745 706 665 624 581 537 493 449 404 390 225 8.1

 53 * * * - - - - - - - - -
 - 483 610 713 804 886 962 1032 1098 1119 240 3.6
 54 705 696 686 676 665 654 643 631 619 607 594 582 578 136 18

 55 958 907 853 796 736 674 610 545 481 418 356 - - 289 6.8

 56 - - - - - - - - - - - - - -
 621 626 631 636 640 644 647 650 652 655 657 659 659 1192 +
 57 * - - - - - - - - - - - -
 423 492 544 587 625 660 693 723 752 779 806 814 1087 47
 58 * * - - - - - - - - - - -
 452 522 576 622 663 700 735 767 798 827 837 1223 46
 59 * * * - - - - - - - - - -
 487 560 617 666 710 750 788 823 856 867 1463 46
 60 * * * * * * - - - - - - - 22841 39
 776 972 1118 1239 1345 1439 1468 13535 62
 61 - - - - - - - - - - - - - -
 516 543 568 591 613 634 654 673 691 709 726 742 748 934 71
 62 - - - - - - - - - - - - - -
 554 574 593 611 629 646 662 678 693 708 722 736 741 598 56
 63 * * * * 371 334 309 - - - - - - 1331 83
 537 587 625 657 686 712 737 760 767 2408 99

64	*	*	*	*	*	*	*	471	430	403	382	365	359	6411	+
								624	677	717	750	780	789	7713	+
65	*	*	*	*	*	*	*	*	*	658	610	580	572	16308	+
								797	858	901	914	18106			+
66	610	622	633	645	655	666	676	686	696	705	715	724	727	33	4.9
67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	610	607	604	600	596	591	586	581	575	568	561	554	551	1864	+
68	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		342	459	520	569	611	649	684	716	747	776	804	813	1217	49
69	*	*	-	-	-	-	-	-	-	-	-	-	-	-	-
		425	507	565	614	656	695	731	765	797	827	837	1305	47	
70	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-
			472	656	768	858	936	1005	1067	1125	1143	4221	60		
71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	475	505	532	557	581	603	624	645	665	684	702	721	727	1208	86
72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	532	551	569	586	603	620	636	652	667	683	698	713	718	748	69
73	*	*	*	*	*	*	401	363	338	318	301	-	-	4658	+
							566	616	654	687	716	744	752	5885	+
74	*	*	*	*	*	*	*	*	516	466	436	413	406	6814	+
									629	692	735	770	781	8247	+
75	602	612	621	629	638	647	655	664	673	681	690	698	701	81	14
76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	690	691	693	693	693	693	692	690	689	686	683	680	679	495	+
77	-	-	-	-	-	-	*	*	*	*	*	*	*	*	*
	+	+	+	1427	1291	1095	741					11958	47		
78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	732	728	723	716	708	699	690	679	667	653	639	624	618	54	8.1
79	700	697	693	688	683	677	671	665	658	651	643	635	632	627	+
80	*	*	*	*	-	-	-	-	-	-	-	-	-	-	-
					433	640	768	872	961	1040	1112	1178	1199	2580	32
81	801	776	748	719	688	655	620	584	546	507	466	425	411	282	12
82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	600	616	632	647	662	677	691	704	717	730	743	755	759	616	67
83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	666	672	677	681	686	689	693	696	699	702	704	706	707	745	+
84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	597	613	629	644	658	672	686	700	713	726	738	750	754	651	71
85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	668	672	675	679	682	684	687	689	691	692	694	695	695	808	+
86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	399	463	520	570	616	659	700	738	774	809	842	874	884	82	3.1
87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	529	571	610	647	682	715	747	778	807	836	863	890	898	70	3.3
88	-	-	343	437	527	615	701	786	870	953	1035	1116	1143	342	6.0

89	414	478	541	602	664	724	784	843	901	960	1017	1074	1093	262	6.6
90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	407	479	536	586	629	668	703	736	767	795	821	830	1468	57
91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	498	544	586	624	659	691	721	749	775	800	823	845	852	1197	61
92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	481	520	556	589	620	648	675	700	723	745	767	787	793	569	32
93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	530	563	594	623	649	675	698	721	742	763	782	800	806	523	33
94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	395	456	509	557	600	640	678	713	746	778	808	836	846	242	9.8
95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	465	513	557	597	635	670	703	735	765	794	821	847	855	222	10
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	465	507	547	583	617	648	678	707	734	759	784	807	815	86	4.4
97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	500	538	573	606	637	667	694	721	746	770	794	816	823	82	4.4
98	-	-	-	-	-	-	-	320	*	*	*	*	3911	30	
	1116	1068	1016	961	900	834	758	664	521					2900	56
99	-	-	-	-	-	316	*	*	*	*	*	*	*	4779	35
	1160	1098	1030	955	867	755								7552	48
100	-	-	-	-	378	474	589	734	927	1217	+	+	+	2070	26
101	-	-	358	429	509	598	699	814	946	1100	1277	1480	+	2045	30
102	-	-	-	335	429	530	639	756	880	1012	1151	1295	1343	785	11
103	-	-	370	450	533	620	711	805	903	1003	1106	1211	1246	713	12
104	-	310	380	449	518	587	656	724	793	861	929	996	1019	370	8.1
105	319	382	444	506	567	629	690	752	813	873	934	994	1014	344	8.4
106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	361	393	418	438	455	469	481	491	499	505	510	513	514	2551	+
107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	538	560	581	602	621	639	657	674	690	706	721	735	740	415	36
108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	623	652	679	704	728	751	772	793	812	831	849	865	871	119	8.3
109	753	788	821	854	885	916	945	974	1001	1028	1054	1079	1088	1651	85
110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1123	1104	1085	1064	1042	1019	994	969	942	914	885	854	843	3793	+
111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	461	478	493	508	523	537	550	563	576	588	600	612	615	758	85
112	472	502	531	560	587	615	641	667	693	718	742	767	775	573	33
113	495	559	625	693	762	833	905	977	1051	1125	1199	1273	1298	726	15

114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
115	593	617	641	664	686	707	728	748	767	786	805	823	829	760	55
	*	*	*	-	-	-	-	-	-	-	-	-	-	-	-
116			458	520	567	608	643	676	706	734	761	769	1364	52	
	*	*	*	*	*	*	346	-	-	-	-	-	4704	44	
117				534	610	665	710	750	786	797	5857	50			
	*	*	*	-	-	-	-	-	-	-	-	2842	29		
118			480	557	612	659	700	737	772	804	834	844	1369	45	
	*	*	*	*	*	*	*	444	405	377	354	335	329	5469	83
119				655	707	747	783	814	824	6685	90				
	*	*	*	*	-	-	-	-	-	-	-	-	3656	33	
120			495	576	634	683	726	765	801	835	846	1771	47		
	*	*	*	*	*	*	*	*	525	475	442	433	7735	+	
121				698	761	807	821	9258	+						
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
122	583	600	615	630	644	657	669	681	692	702	712	721	724	242	30
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123	539	567	592	615	637	658	677	695	711	727	741	755	759	304	24
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	563	585	605	623	641	657	673	687	701	714	726	737	740	94	9.3
	*	*	*	*	*	*	-	-	-	-	-	-	-	1256	3.1
125				633	757	847	921	986	1042	1060	617	4.3			
	696	695	694	691	688	684	679	673	667	-	-	-	-	52	16
126				660	652	643	640	53	11						
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
127	496	531	564	593	621	646	670	693	714	733	752	770	776	116	7.4
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	513	538	562	585	609	631	653	675	696	717	738	759	766	405	28
	-	-	340	389	445	512	595	710	*	*	*	*	*	1261	22
129	+	+	+	+	+	+	+	1354			4878	48			
	395	434	474	515	556	597	639	681	724	768	811	856	870	428	15
130	-	-	-	-	-	-	-	-	*	*	*				
	1117	1067	1013	954	889	817	736	642	526	347			568	10	
131	691	690	688	686	682	678	673	668	662	656	649	641	639	109	34
132	-	-	-	362	438	519	605	695	790	890	992	1097	1133	694	12
133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	572	587	601	615	628	640	651	662	673	682	692	701	703	290	38
134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	556	577	597	615	633	649	664	679	692	705	717	728	732	106	10
135	*	*</													

139 + + + 1440 1228 975 667 313 - - - - - 2094 9.9

140 715 701 686 671 654 637 620 602 584 565 547 527 521 230 20

141 - - - - - - - - - - - - - - -

409 464 511 552 589 621 650 677 700 722 741 759 764 2150 +

142 - - - - - - - - - - - - - - -

489 523 554 581 606 629 649 668 685 701 715 729 733 1591 +

143 - - - - - - - - - - - - - - -

526 551 574 595 615 632 649 664 677 690 702 713 716 1363 +

144 - - - - - - - - - - - - - - -

510 540 566 589 611 631 649 665 681 695 708 720 723 1454 +

145 - - - - - - - - - - - - - - -

381 450 504 549 588 623 655 684 711 736 759 781 787 854 41

146 - - - - - - - - - - - - - - -

466 507 542 573 602 628 651 673 693 712 729 746 751 1208 78

147 - - - - - - - - - - - - - - -

560 578 594 609 623 635 646 655 664 672 678 684 686 1775 +

148 - - - - - - - - - - - - - - -

693 686 679 672 663 655 645 635 624 612 598 583 577 1856 +

149 - - - - - - - - - - - - - - -

427 477 523 565 603 639 673 705 735 764 791 817 825 283 13

150 - - - - - - - - - - - - - - -

456 499 539 575 609 641 671 699 726 752 776 799 807 117 5.9

P-T of intersections

window : P 3.0 <-> 20.0 kbars; T 300 <-> 1500 jC

metastable intersection 1 involving qL,anL,silL,gr,an or [abL,kspL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,andr,s
P = 14.7 kbar (sd = 65.3), T = 685 jC (sd = 439), (cor = -0.560)

metastable intersection 2 involving qL,anL,silL,gr,ky or [abL,kspL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,andr,s
P = 9.8 kbar (sd = 153.2), T = 632 jC (sd = 2817), (cor = 1.000)

¥ stable intersection 3 involving qL,anL,gr,an,ky or [abL,kspL,silL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,andr,s

low T high T dp/dt

4) an = anL [qL,gr,ky] stable -0.207

7) qL + 4gr + 8ky = 12an [anL] stable 0.0242

5) qL + 4gr + 8ky = 12anL [an] stable 0.0619

P = 13.3 kbar (sd = 16.8), T = 692 jC (sd = 302), (cor = 0.958)

metastable intersection 4 involving qL,silL,gr,an,ky or [abL,kspL,anL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,anc
P = 14.6 kbar (sd = 63.6), T = 747 jC (sd = 2502), (cor = 0.986)

¥ stable intersection 5 involving qL,silL,foL,py,ky or [abL,kspL,anL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,gr,andr,san,;

low T high T dp/dt

9) qL + 6foL + 8ky = 8py [silL] stable 0.0329

8) 8py = qL + 5silL + 6foL [ky] stable 0.0425

1) 8ky = 5silL [qL,foL,py] stable stable 0.0478

P = 17.5 kbar (sd = 363.9), T = 809 jC (sd = 8073), (cor = 0.991)

¥ stable intersection 6 involving qL,silL,faL,alm,ky or [abL,kspL,anL,foL,h2oL,phl,ann,obi,east,tbi,fbi,py,gr,andr,san,;
low T high T dp/dt

1) 8ky = 5silL [qL,faL,alm] stable stable 0.0423

10) 8alm = qL + 5silL + 6faL [ky] stable 0.0800

11) qL + 6faL + 8ky = 8alm [silL] stable 0.244

P = 12.4 kbar (sd = 72.9), T = 695 jC (sd = 1113), (cor = 0.779)

metastable intersection 8 involving qL,anL,silL,foL,py,gr or [abL,kspL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,andr,san,
P = 11.9 kbar (sd = 100.0), T = 657 jC (sd = 1975), (cor = 0.973)

metastable intersection 9 involving anL,foL,py,gr,an or [qL,abL,kspL,silL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,andr,s
P = 13.6 kbar (sd = 24.6), T = 691 jC (sd = 327), (cor = 0.287)

¥ stable intersection 10 involving qL,anL,foL,py,gr,ky or [abL,kspL,silL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,andr,san
low T high T dp/dt

9) qL + 6foL + 8ky = 8py [anL,gr] stable stable 0.0207

16) 4py + 2gr = 6anL + 3foL [qL,ky] stable 0.0539

5) qL + 4gr + 8ky = 12anL [foL,py] stable stable 0.0658

P = 15.2 kbar (sd = 145.4), T = 721 jC (sd = 2212), (cor = 0.999)

metastable intersection 11 involving qL,silL,foL,py,gr,an or [abL,kspL,anL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,andr,
P = 14.7 kbar (sd = 63.7), T = 737 jC (sd = 2706), (cor = 0.927)

¥ stable intersection 14 involving anL,faL,alm,gr,an or [qL,abL,kspL,silL,foL,h2oL,phl,ann,obi,east,tbi,fbi,py,andr,sar
low T high T dp/dt

4) an = anL [faL,alm,gr] stable stable -0.211

19) 3faL + 6an = 4alm + 2gr [anL] stable 0.0498

18) 4alm + 2gr = 6anL + 3faL [an] stable 0.0861

P = 13.2 kbar (sd = 30.3), T = 693 jC (sd = 294), (cor = 0.445)

¥ stable intersection 15 involving qL,anL,faL,alm,gr,ky or [abL,kspL,silL,foL,h2oL,phl,ann,obi,east,tbi,fbi,py,andr,san
low T high T dp/dt

5) qL + 4gr + 8ky = 12anL [faL,alm] stable stable 0.0631

18) 4alm + 2gr = 6anL + 3faL [qL,ky] stable 0.0879

11) qL + 6faL + 8ky = 8alm [anL,gr] stable stable 0.255

P = 13.9 kbar (sd = 76.5), T = 701 jC (sd = 1206), (cor = 0.997)

metastable intersection 16 involving qL,silL,faL,alm,gr,an or [abL,kspL,anL,foL,h2oL,phl,ann,obi,east,tbi,fbi,py,andr,
P = 14.7 kbar (sd = 65.9), T = 723 jC (sd = 1350), (cor = 0.913)

metastable intersection 17 involving qL,faL,alm,gr,an,ky or [abL,kspL,anL,silL,foL,h2oL,phl,ann,obi,east,tbi,fbi,py,ar
P = 13.5 kbar (sd = 26.7), T = 700 jC (sd = 1002), (cor = 0.925)

¥ stable intersection 18 involving kspL,anL,silL,an,san,ky or [qL,abL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,gr,a
low T high T dp/dt

4) an = anL [kspL,silL,san,ky] stable stable -0.728

1) 8ky = 5silL [kspL,anL,an,san] stable stable 0.0404

12) san = kspL [anL,silL,an,ky] stable stable 0.0766

P = 7.4 kbar (sd = 34.7), T = 711 jC (sd = 338), (cor = 0.678)

¥ stable intersection 18 involving kspL,anL,silL,an,san,ky or [qL,abL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,gr,a
low T high T dp/dt

4) an = anL [kspL,silL,san,ky] stable stable -0.231

1) 8ky = 5silL [kspL,anL,an,san] stable stable 0.0424

12) san = kspL [anL,silL,an,ky] stable stable 0.0944

P = 12.5 kbar (sd = 41.8), T = 696 jC (sd = 363), (cor = -0.159)

metastable intersection 18 involving kspL,anL,silL,an,san,ky or [qL,abL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,gr,a
P = 17.8 kbar (sd = 89.0), T = 814 jC (sd = 811), (cor = 0.917)

¥ stable intersection 19 involving abL,anL,silL,abh,an,ky or [qL,kspL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,gr,a
low T high T dp/dt

4) an = anL [abL,silL,abh,ky] stable stable -0.719

1) 8ky = 5silL [abL,anL,abh,an] stable stable 0.0404

13) abh = abL [anL,silL,an,ky] stable stable 0.0977

P = 7.4 kbar (sd = 32.4), T = 711 jC (sd = 328), (cor = 0.985)

¥ stable intersection 19 involving abL,anL,silL,abh,an,ky or [qL,kspL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,gr,a
low T high T dp/dt

4) an = anL [abL,silL,abh,ky] stable stable -0.231

1) 8ky = 5silL [abL,anL,abh,an] stable stable 0.0424

13) abh = abL [anL,silL,an,ky] stable stable 0.106

P = 12.5 kbar (sd = 41.8), T = 696 jC (sd = 363), (cor = -0.159)

metastable intersection 19 involving abL,anL,silL,abh,an,ky or [qL,kspL,foL,faL,h2oL,phl,ann,obi,east,tbi,fbi,alm,py,gr,a
P = 17.0 kbar (sd = 86.7), T = 797 jC (sd = 693), (cor = 0.997)

metastable intersection 20 involving qL,silL,foL,faL,alm,py or [abL,kspL,anL,h2oL,phl,ann,obi,east,tbi,fbi,gr,andr,sar
P = 13.8 kbar (sd = 72.1), T = 712 jC (sd = 1169), (cor = 0.800)

¥ stable intersection 21 involving qL,foL,faL,alm,py,ky or [abL,kspL,anL,silL,h2oL,phl,ann,obi,east,tbi,fbi,gr,andr,san
low T high T dp/dt

20) 3faL + 4py = 3foL + 4alm [qL,ky] stable -0.153

9) qL + 6foL + 8ky = 8py [faL,alm] stable stable 0.0182

11) qL + 6faL + 8ky = 8alm [foL,py] stable stable 0.262

P = 14.8 kbar (sd = 107.4), T = 705 jC (sd = 1060), (cor = 0.530)

¥ stable intersection 22 involving qL,silL,faL,alm,oilm,ru or [abL,kspL,anL,foL,h2oL,phl,ann,obi,east,tbi,fbi,py,gr,andr
low T high T dp/dt

14) 2faL + 8ru = qL + 8oilm [silL,alm] stable stable -0.0530

21) 8alm + 24ru = 4qL + 5silL + 24oilm [faL] stable 0.0229

10) 8alm = qL + 5silL + 6faL [oilm,ru] stable stable 0.0767

25) 5silL + 8faL + 8ru = 8alm + 8oilm [qL] stable 0.117

P = 10.3 kbar (sd = 22.2), T = 668 jC (sd = 775), (cor = 0.461)

metastable intersection 23 involving qL,silL,faL,alm,dilm,ru or [abL,kspL,anL,foL,h2oL,phl,ann,obi,east,tbi,fbi,py,gr,andr
P = 4.9 kbar (sd = 28.1), T = 594 jC (sd = 944), (cor = 0.783)

metastable intersection 24 involving qL,

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, g, pl, ilm, ru, ky, H2O, (q)

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.60	389.2	0.4533	0.3935	0.03936	0.03232	0.3247	0.9414
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9011	0.2894	0.2740	0.003348	0.1032	5.780e-6

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2937	0.03163	0.2956		0	0.005743	0.03446	0.3074 0.03146

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.80	524.8	0.4463	0.3532	0.04645	0.06416	0.2910	0.8998
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.7828	0.2456	0.2802	0.01213	0.2027	1.356e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2890	0.03312	0.3019		0	0.004551	0.03526	0.3029 0.03332

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.00	533.6	0.4455	0.3510	0.04671	0.06648	0.2888	0.8969
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.7728	0.2412	0.2798	0.01298	0.2105	1.433e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2885	0.03358	0.3021		0	0.004467	0.03538	0.3026 0.03347

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.20	542.4	0.4447	0.3489	0.04696	0.06884	0.2866	0.8938
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.7625	0.2366	0.2792	0.01388	0.2183	1.515e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2879	0.03409	0.3022		0	0.004383	0.03549	0.3023 0.03362

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.40	551.2	0.4439	0.3468	0.04719	0.07123	0.2843	0.8908
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.7519	0.2318	0.2786	0.01484	0.2264	1.601e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2874	0.03466	0.3024		0	0.004297	0.03560	0.3019 0.03378

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.60	560.1	0.4430	0.3449	0.04741	0.07366	0.2821	0.8876
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)

0.7410 0.2269 0.2778 0.01585 0.2345 1.692e-5

mode bi g pl ilm ru ky q H2O
0.2868 0.03529 0.3025 0 0.004211 0.03571 0.3016 0.03394

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 569.1 0.4420 0.3430 0.04761 0.07612 0.2797 0.8844
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.7299 0.2219 0.2770 0.01693 0.2428 1.789e-5

mode bi g pl ilm ru ky q H2O
0.2861 0.03597 0.3026 0 0.004123 0.03582 0.3013 0.03411

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 578.1 0.4409 0.3412 0.04781 0.07863 0.2774 0.8811
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.7184 0.2167 0.2760 0.01809 0.2512 1.890e-5

mode bi g pl ilm ru ky q H2O
0.2854 0.03672 0.3027 0 0.004036 0.03592 0.3010 0.03429

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 587.2 0.4398 0.3395 0.04799 0.08117 0.2749 0.8778
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.7067 0.2115 0.2750 0.01932 0.2597 1.998e-5

mode bi g pl ilm ru ky q H2O
0.2847 0.03754 0.3027 0 0.003948 0.03602 0.3006 0.03447

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 596.3 0.4386 0.3379 0.04816 0.08375 0.2725 0.8743
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.6947 0.2061 0.2738 0.02064 0.2682 2.111e-5

mode bi g pl ilm ru ky q H2O
0.2839 0.03843 0.3028 0 0.003859 0.03612 0.3003 0.03466

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 605.5 0.4373 0.3364 0.04833 0.08637 0.2700 0.8708
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.6825 0.2007 0.2726 0.02206 0.2768 2.230e-5

mode bi g pl ilm ru ky q H2O
0.2830 0.03939 0.3029 0 0.003771 0.03621 0.2999 0.03485

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 614.7 0.4360 0.3350 0.04849 0.08902 0.2675 0.8671
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.6701 0.1952 0.2712 0.02359 0.2855 2.354e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2821	0.04042	0.3029		0	0.003682	0.03630	0.2995 0.03506

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.00	624.0	0.4345	0.3337	0.04865	0.09172	0.2649	0.8634
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.6575	0.1897	0.2697	0.02523	0.2942	2.485e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2811	0.04155	0.3030		0	0.003593	0.03638	0.2991 0.03527

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.20	633.4	0.4329	0.3324	0.04881	0.09446	0.2624	0.8595
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.6446	0.1841	0.2681	0.02701	0.3029	2.622e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2800	0.04276	0.3031		0	0.003504	0.03645	0.2987 0.03550

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.40	642.8	0.4312	0.3312	0.04896	0.09723	0.2598	0.8556
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.6315	0.1785	0.2664	0.02893	0.3116	2.764e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2789	0.04406	0.3032		0	0.003415	0.03652	0.2983 0.03573

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.60	652.3	0.4293	0.3301	0.04911	0.1001	0.2571	0.8515
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.6183	0.1729	0.2645	0.03102	0.3203	2.912e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2776	0.04547	0.3033		0	0.003327	0.03658	0.2978 0.03598

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.80	661.9	0.4274	0.3290	0.04926	0.1029	0.2545	0.8472
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.6048	0.1673	0.2625	0.03329	0.3289	3.066e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2762	0.04699	0.3034		0	0.003240	0.03663	0.2973 0.03624

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.00	671.6	0.4252	0.3279	0.04942	0.1058	0.2519	0.8428
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.5912	0.1617	0.2604	0.03576	0.3375	3.225e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2747	0.04863	0.3035		0	0.003154	0.03668	0.2968 0.03651

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
14.20	681.4	0.4229	0.3269	0.04958	0.1088	0.2492	0.8382	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.5774	0.1561	0.2581	0.03847	0.3461	3.389e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2731	0.05040	0.3037		0	0.003070	0.03671	0.2962 0.03680

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
14.40	691.2	0.4205	0.3259	0.04974	0.1118	0.2465	0.8334	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.5633	0.1505	0.2556	0.04143	0.3546	3.558e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2713	0.05232	0.3039		0	0.002987	0.03674	0.2956 0.03711

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
14.60	701.2	0.4177	0.3249	0.04992	0.1148	0.2438	0.8284	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.5491	0.1449	0.2530	0.04468	0.3631	3.730e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2693	0.05441	0.3042		0	0.002907	0.03676	0.2950 0.03744

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
14.80	711.3	0.4148	0.3240	0.05010	0.1179	0.2412	0.8231	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.5347	0.1394	0.2501	0.04826	0.3714	3.907e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2672	0.05668	0.3045		0	0.002829	0.03677	0.2943 0.03780

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
15.00	721.6	0.4116	0.3230	0.05029	0.1210	0.2385	0.8176	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.5200	0.1338	0.2471	0.05223	0.3797	4.086e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2648	0.05917	0.3049		0	0.002755	0.03676	0.2935 0.03818

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
15.20	732.0	0.4080	0.3219	0.05050	0.1242	0.2358	0.8116	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.5050	0.1283	0.2438	0.05664	0.3879	4.267e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2621	0.06190	0.3054		0	0.002686	0.03674	0.2926 0.03859

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
---------	-------	-------	-------	-------	-------	-------	------

15.40 742.5 0.4041 0.3209 0.05073 0.1275 0.2331 0.8053
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.4898 0.1228 0.2402 0.06156 0.3960 4.448e-5

mode bi g pl ilm ru ky q H2O
0.2591 0.06491 0.3060 0 0.002621 0.03671 0.2916 0.03904

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.60 753.3 0.3998 0.3197 0.05099 0.1309 0.2304 0.7985
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.4741 0.1174 0.2363 0.06709 0.4039 4.628e-5

mode bi g pl ilm ru ky q H2O
0.2558 0.06825 0.3067 0 0.002563 0.03665 0.2906 0.03953

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.80 764.4 0.3949 0.3185 0.05127 0.1343 0.2277 0.7911
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.4581 0.1119 0.2320 0.07334 0.4118 4.805e-5

mode bi g pl ilm ru ky q H2O
0.2520 0.07200 0.3075 0 0.002513 0.03657 0.2893 0.04008

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.00 775.7 0.3894 0.3171 0.05160 0.1378 0.2250 0.7829
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.4415 0.1064 0.2273 0.08048 0.4195 4.976e-5

mode bi g pl ilm ru ky q H2O
0.2476 0.07623 0.3086 0 0.002474 0.03646 0.2879 0.04069

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.20 787.5 0.3831 0.3156 0.05197 0.1415 0.2222 0.7738
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.4242 0.1009 0.2220 0.08870 0.4271 5.137e-5

mode bi g pl ilm ru ky q H2O
0.2425 0.08108 0.3100 0 0.002447 0.03631 0.2863 0.04138

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 799.8 0.3757 0.3139 0.05242 0.1453 0.2193 0.7634
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.4061 0.09527 0.2162 0.09831 0.4345 5.284e-5

mode bi g pl ilm ru ky q H2O
0.2365 0.08671 0.3116 0 0.002438 0.03609 0.2844 0.04217

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.60 812.7 0.3670 0.3119 0.05296 0.1494 0.2161 0.7513
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)

0.3869 0.08960 0.2095 0.1097 0.4416 5.408e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2293	0.09338	0.3138		0	0.002452	0.03579	0.2822 0.04311

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.80	826.7	0.3565	0.3096	0.05363	0.1538	0.2127	0.7369
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3663	0.08380	0.2018	0.1235	0.4484	5.497e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2204	0.1015	0.3166		0	0.002500	0.03536	0.2794 0.04423

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.00	842.0	0.3435	0.3069	0.05451	0.1586	0.2086	0.7188
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3436	0.07782	0.1927	0.1408	0.4547	5.531e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2090	0.1117	0.3205		0	0.002598	0.03472	0.2758 0.04564

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.20	859.6	0.3265	0.3036	0.05572	0.1641	0.2033	0.6950
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3178	0.07156	0.1817	0.1634	0.4600	5.475e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.1936	0.1253	0.3262		0	0.002779	0.03370	0.2710 0.04750

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.40	881.3	0.3032	0.2996	0.05754	0.1709	0.1956	0.6609
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2869	0.06489	0.1676	0.1950	0.4633	5.259e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.1708	0.1449	0.3352		0	0.003120	0.03195	0.2639 0.05018

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.60	912.3	0.2669	0.2945	0.06077	0.1806	0.1814	0.6032
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2455	0.05746	0.1475	0.2467	0.4612	4.717e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.1300	0.1791	0.3526		0	0.003877	0.02826	0.2514 0.05483

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.80	969.1	0.1998	0.2889	0.06842	0.1979	0.1466	0.4786
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1802	0.04976	0.1108	0.3593	0.4356	3.430e-5


```
mode   bi    g    pl   ilm    ru    ky    q    H2O
      0.02106 0.2675 0.4032    0 0.006442 0.01717 0.2179 0.06673
calcs use:
```

composition (from script)

```
H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2   O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
```

<=====>

phases : bi, g, pl, ilm, ru, ky, H2O, (q)

```
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
      3.80  257.0 0.4590 0.4131 0.02629 0.01080 0.3758 0.9748
          z(g)  f(g)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
          0.9571 0.2748 0.37120.0002112 0.04743 2.646e-6
```

```
mode   bi    g    pl   ilm    ru    ky    q    H2O
      0.2955    0 0.3398 0.004519 0.006502 0.01661 0.3066 0.03040
```

```
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
      4.00  265.0 0.4590 0.4112 0.02711 0.01173 0.3732 0.9731
          z(g)  f(g)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
          0.9541 0.2764 0.37110.0002506 0.05049 2.814e-6
```

```
mode   bi    g    pl   ilm    ru    ky    q    H2O
      0.2955    0 0.3399 0.004480 0.006462 0.01673 0.3065 0.03044
```

```
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
      4.20  273.1 0.4590 0.4093 0.02791 0.01270 0.3706 0.9714
          z(g)  f(g)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
          0.9510 0.2777 0.37110.0002958 0.05368 2.989e-6
```

```
mode   bi    g    pl   ilm    ru    ky    q    H2O
      0.2955    0 0.3399 0.004442 0.006420 0.01685 0.3064 0.03048
```

```
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
      4.40  281.1 0.4589 0.4073 0.02871 0.01371 0.3680 0.9696
          z(g)  f(g)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
          0.9477 0.2789 0.37110.0003472 0.05700 3.174e-6
```

```
mode   bi    g    pl   ilm    ru    ky    q    H2O
      0.2955    0 0.3399 0.004404 0.006376 0.01698 0.3063 0.03052
```

```
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
     10.20  677.3 0.4497 0.3240 0.03293 0.09563 0.2589 0.8092
          z(g)  f(g)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
          0.1329 0.007698 0.3684 0.007541 0.5685-0.0001458
```

```
mode   bi    g    pl   ilm    ru    ky    q    H2O
      0.2909    0 0.3424 0.007544 0.001563 0.02373 0.2996 0.03427
```

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 660.1 0.4521 0.3101 0.03607 0.09218 0.2708 0.8377
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2624 0.02525 0.3683 0.008012 0.5082 0.1281

mode bi g pl ilm ru ky q H2O
0.2913 0 0.3425 0.006483 0.002140 0.02470 0.2987 0.03418

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 666.8 0.4500 0.3122 0.03669 0.09453 0.2671 0.8353
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2696 0.02743 0.3680 0.008821 0.5721 0.3318

mode bi g pl ilm ru ky q H2O
0.2906 0 0.3428 0.007199 0.001683 0.02456 0.2989 0.03433

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, pl, ilm, ru, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.62 699.3 0.4424 0.3231 0.03612 0.1043 0.2509 0.8128
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2101 0.01843 0.3670 0.01140 0.7024 0.5546

mode bi g pl ilm ru ky q H2O
0.2881 0 0.3437 0.009911 0 0.02390 0.2995 0.03490

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, pl, ilm, ru, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 711.3 0.4403 0.3270 0.03646 0.1081 0.2448 0.8064
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2016 0.01791 0.3650 0.01292 0.6946 0.5344

mode bi g pl ilm ru ky q H2O
0.2868 0.002258 0.3434 0.009617 0 0.02344 0.2993 0.03516

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 724.5 0.4379 0.3311 0.03683 0.1123 0.2382 0.7994
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1931 0.01743 0.3629 0.01479 0.6856 0.5102

mode bi g pl ilm ru ky q H2O

0.2853 0.004773 0.3433 0.009303 0 0.02293 0.2990 0.03547

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 737.7 0.4354 0.3349 0.03721 0.1166 0.2319 0.7924
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1851 0.01705 0.3607 0.01692 0.6760 0.4833

mode bi g pl ilm ru ky q H2O
0.2836 0.007366 0.3433 0.008995 0 0.02240 0.2986 0.03579

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 751.0 0.4328 0.3386 0.03758 0.1209 0.2258 0.7853
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1776 0.01673 0.3585 0.01933 0.6658 0.4533

mode bi g pl ilm ru ky q H2O
0.2817 0.01006 0.3434 0.008695 0 0.02187 0.2981 0.03613

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 764.4 0.4300 0.3421 0.03796 0.1252 0.2199 0.7781
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1705 0.01648 0.3562 0.02208 0.6551 0.4195

mode bi g pl ilm ru ky q H2O
0.2797 0.01289 0.3436 0.008404 0 0.02132 0.2976 0.03650

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 778.0 0.4271 0.3454 0.03833 0.1296 0.2142 0.7707
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1636 0.01626 0.3538 0.02523 0.6439 0.3808

mode bi g pl ilm ru ky q H2O
0.2773 0.01588 0.3440 0.008123 0 0.02077 0.2970 0.03690

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 791.9 0.4239 0.3485 0.03870 0.1341 0.2086 0.7630
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1569 0.01606 0.3512 0.02886 0.6322 0.3355

mode bi g pl ilm ru ky q H2O
0.2747 0.01910 0.3446 0.007854 0 0.02019 0.2963 0.03734

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.20 806.2 0.4203 0.3516 0.03908 0.1387 0.2030 0.7549
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1502 0.01588 0.3484 0.03311 0.6201 0.2805

mode bi g pl ilm ru ky q H2O
0.2716 0.02262 0.3454 0.007599 0 0.01959 0.2954 0.03783

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.40 821.2 0.4163 0.3545 0.03947 0.1435 0.1975 0.7461
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1432 0.01568 0.3453 0.03817 0.6077 0.2082

mode bi g pl ilm ru ky q H2O
0.2679 0.02656 0.3465 0.007360 0 0.01894 0.2943 0.03839

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.60 837.2 0.4115 0.3574 0.03987 0.1487 0.1918 0.7363
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1357 0.01546 0.3417 0.04436 0.5955 0.08285

mode bi g pl ilm ru ky q H2O
0.2635 0.03110 0.3480 0.007142 0 0.01822 0.2930 0.03904

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.80 846.1 0.4081 0.3578 0.04039 0.1517 0.1892 0.7314
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1364 0.01610 0.3387 0.04890 0.5918 0.002147

mode bi g pl ilm ru ky q H2O
0.2604 0.03431 0.3488 0.007022 0 0.01798 0.2920 0.03949

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.00 853.9 0.4046 0.3577 0.04096 0.1543 0.1872 0.7271
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1383 0.01689 0.3354 0.05353 0.59030.0009825

mode bi g pl ilm ru ky q H2O
0.2572 0.03752 0.3496 0.006926 0 0.01783 0.2910 0.03994

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.20 960.4 0.3490 0.3755 0.04378 0.1868 0.1531 0.6296
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.07474 0.01329 0.3033 0.1335 0.62780.0003765

mode bi g pl ilm ru ky q H2O
0.1961 0.08695 0.3793 0.007835 0 0.01004 0.2722 0.04754

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.40 949.9 0.3545 0.3715 0.04391 0.1839 0.1571 0.6414
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.08390 0.01413 0.3053 0.1248 0.62040.0003497

mode bi g pl ilm ru ky q H2O
0.2034 0.08172 0.3749 0.007564 0 0.01129 0.2745 0.04668

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, g, pl, ilm, ru, ky, H2O, (q)

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)		
13.80	1024.9	0.2739	0.3749	0.05093	0.2067	0.1309	0.5204		
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.05207	0.01491	0.2566	0.2494	0.60710	0.0001304		
mode	bi	g	pl	ilm	ru	ky	q	H2O	
	0.08941	0.1705	0.4325	0.007930	0.002493		0	0.2377	0.05942

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)		
14.00	1024.4	0.2698	0.3711	0.05193	0.2069	0.1314	0.5169		
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.05516	0.01566	0.2526	0.2550	0.59900	0.0001177		
mode	bi	g	pl	ilm	ru	ky	q	H2O	
	0.08429	0.1754	0.4339	0.007695	0.002727		0	0.2360	0.05997

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)		
14.20	1023.9	0.2652	0.3672	0.05298	0.2071	0.1319	0.5131		
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.05849	0.01650	0.2482	0.2612	0.59050	0.0001066		
mode	bi	g	pl	ilm	ru	ky	q	H2O	
	0.07865	0.1807	0.4355	0.007451	0.002977		0	0.2342	0.06058

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)		
14.40	1023.4	0.2602	0.3633	0.05409	0.2073	0.1322	0.5086		
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.06207	0.01743	0.2433	0.2679	0.5816	9.664e-5		
mode	bi	g	pl	ilm	ru	ky	q	H2O	
	0.07239	0.1866	0.4371	0.007195	0.003247		0	0.2321	0.06126

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)		
14.60	1023.0	0.2548	0.3591	0.05527	0.2075	0.1323	0.5036		
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.06594	0.01847	0.2378	0.2754	0.5722	8.770e-5		
mode	bi	g	pl	ilm	ru	ky	q	H2O	
	0.06539	0.1933	0.4389	0.006925	0.003539		0	0.2299	0.06201

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)		
14.80	1022.6	0.2488	0.3549	0.05653	0.2078	0.1323	0.4977		
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.07010	0.01965	0.2316	0.2838	0.5622	7.960e-5		

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.05752	0.2008	0.4409	0.006636	0.003859		0	0.2274 0.06285

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.00	1022.3	0.2423	0.3505	0.05787	0.2081	0.1321	0.4910
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.07459	0.02097	0.2246	0.2933	0.5516	7.221e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.04860	0.2093	0.4431	0.006325	0.004212		0	0.2246 0.06381

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.20	1022.1	0.2351	0.3459	0.05931	0.2084	0.1316	0.4833
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.07941	0.02247	0.2166	0.3039	0.5402	6.544e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.03846	0.2191	0.4456	0.005985	0.004605		0	0.2214 0.06489

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.40	1021.9	0.2273	0.3412	0.06086	0.2088	0.1308	0.4745
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.08453	0.02417	0.2075	0.3160	0.5281	5.922e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.02689	0.2302	0.4483	0.005613	0.005043		0	0.2178 0.06612

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.60	1021.9	0.2189	0.3363	0.06250	0.2093	0.1296	0.4645
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.08992	0.02608	0.1971	0.3295	0.5153	5.354e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.01374	0.2429	0.4513	0.005203	0.005532		0	0.2138 0.06752

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

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phases : bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.50	623.4	0.4347	0.2876	0.03428	0.07770	0.3051	0.8313
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1983	0.01240	0.3860	0.9982	0.8392	0.4277

k(pl) x(ilm) Q(ilm)
0.003447 0.7558 0.6693

mode bi g mu pl ilm ky q H2O
0.27910.0008353 0.08265 0.2943 0.01234 0 0.3093 0.02149

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 628.7 0.3861 0.2568 0.03637 0.08219 0.3268 0.8023
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2018 0.01336 0.3454 0.9844 0.5326 0.3850
k(pl) x(ilm) Q(ilm)
0.003430 0.7670 0.6823

mode bi g mu pl ilm ky q H2O
0.2447 0.03257 0.08787 0.2985 0.01273 0 0.2986 0.02506

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.50 635.9 0.3618 0.2450 0.03739 0.08692 0.3298 0.7862
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2183 0.01607 0.3259 0.9690 0.4124 0.3628
k(pl) x(ilm) Q(ilm)
0.003705 0.7719 0.6861

mode bi g mu pl ilm ky q H2O
0.2283 0.04890 0.09205 0.2975 0.01272 0 0.2940 0.02653

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 645.7 0.3441 0.2394 0.03809 0.09239 0.3263 0.7718
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2326 0.01886 0.3130 0.9543 0.3400 0.3448
k(pl) x(ilm) Q(ilm)
0.004188 0.7758 0.6875

mode bi g mu pl ilm ky q H2O
0.2165 0.06161 0.09600 0.2950 0.01258 0 0.2909 0.02747

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.50 657.5 0.3296 0.2368 0.03859 0.09849 0.3193 0.7575
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2429 0.02135 0.3034 0.9397 0.2865 0.3286
k(pl) x(ilm) Q(ilm)
0.004850 0.7792 0.6876

mode bi g mu pl ilm ky q H2O
0.2065 0.07272 0.09963 0.2923 0.01238 0 0.2883 0.02825

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 671.3 0.3177 0.2369 0.03899 0.1052 0.3099 0.7430
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2484 0.02328 0.2968 0.9251 0.2421 0.3145

k(pl) x(ilm) Q(ilm)
0.005746 0.7816 0.6853

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1977	0.08238	0.1025	0.2903	0.01214		0	0.2860 0.02901

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.50 688.6 0.3091 0.2403 0.03935 0.1129 0.2977 0.7285
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2475 0.02437 0.2942 0.9098 0.2010 0.3039
k(pl) x(ilm) Q(ilm)
0.007050 0.7815 0.6780

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1906	0.09002	0.1036	0.2902	0.01187		0	0.2839 0.02986

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 713.3 0.3065 0.2506 0.03985 0.1225 0.2806 0.7144
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2353 0.02400 0.2992 0.8932 0.1573 0.3006
k(pl) x(ilm) Q(ilm)
0.009365 0.7747 0.6572

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1864	0.09380	0.1007	0.2946	0.01150		0	0.2820 0.03105

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.50 754.2 0.3151 0.2740 0.04061 0.1356 0.2542 0.7010
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2033 0.02134 0.3189 0.8764 0.1109 0.3093
k(pl) x(ilm) Q(ilm)
0.01467 0.7527 0.6029

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1885	0.09062	0.08997	0.3064	0.01083		0	0.2809 0.03282

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.00 801.4 0.3259 0.2993 0.04123 0.1499 0.2267 0.6871
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1702 0.01892 0.3412 0.8650 0.08050 0.3172
k(pl) x(ilm) Q(ilm)
0.02402 0.7241 0.5238

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1921	0.08701	0.07785	0.3181	0.009999		0	0.2803 0.03466

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 677.6 0.04975 0.1857 0.8885 0.0098740.0005961 0.6269
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7531 0.2942 0.2288 0.03882 0.1117 0.3039
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7238 0.2790 0.02908 0.2764 0.9190 0.2387
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3044 0.005955 0.7992 0.7066 0.05942 0.1825

mode liq bi g mu pl ilm ky q H2O
0.05942 0.1825 0.1017 0.1127 0.2515 0.01194 0 0.2767 0.003570
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.46 622.8 0.4358 0.2881 0.03420 0.07736 0.3049 0.8318
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1967 0.01217 0.3867 0.9983 0.8470 0.4288
k(pl) x(ilm) Q(ilm)
0.003409 0.7558 0.6696

mode bi g mu pl ilm ky q H2O
0.2799 0 0.08261 0.2941 0.01235 0 0.3096 0.02139
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.50 632.5 0.4362 0.2902 0.03412 0.07894 0.3000 0.8205
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1482 0.007817 0.3901 0.9579 0.2942 0.3733
k(pl) x(ilm) Q(ilm)
0.004127 0.7530 0.6619

mode bi g mu pl ilm ky q H2O
0.2801 0 0.01687 0.3379 0.01223 0.02196 0.2986 0.03238

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

10.00 659.4 0.4383 0.3065 0.03473 0.08745 0.2785 0.8112
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1436 0.008402 0.4004 0.9351 0.1949 0.3704
k(pl) x(ilm) Q(ilm)
0.005926 0.7386 0.6303

mode bi g mu pl ilm ky q H2O
0.2830 0 0.009854 0.3405 0.01146 0.02272 0.2990 0.03340

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.50 690.8 0.4408 0.3243 0.03540 0.09723 0.2556 0.7998
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1343 0.008737 0.4119 0.9185 0.1412 0.3683
k(pl) x(ilm) Q(ilm)
0.008745 0.7183 0.5846

mode bi g mu pl ilm ky q H2O
0.2866 0 0.003257 0.3425 0.01054 0.02301 0.2998 0.03431

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.73 706.6 0.4420 0.3326 0.03572 0.1021 0.2450 0.7941
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1292 0.008858 0.4175 0.9121 0.1235 0.3673
k(pl) x(ilm) Q(ilm)
0.01053 0.7065 0.5568

mode bi g mu pl ilm ky q H2O
0.2884 0 0 0.3434 0.01008 0.02314 0.3003 0.03475

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 722.0 0.4394 0.3378 0.03620 0.1072 0.2371 0.7868
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1262 0.009170 0.4197 0.9062 0.1102 0.3655
k(pl) x(ilm) Q(ilm)
0.01249 0.6958 0.5294

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2867	0.002702	0	0.3435	0.009698	0.02238	0.2999	0.03510

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.50	751.5	0.4341	0.3466	0.03710	0.1169	0.2229	0.7728
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1204	0.009757	0.4234	0.8964	0.09062	0.3618
		k(pl)	x(ilm)	Q(ilm)			
		0.01711	0.6735	0.4678			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2830	0.008165	0	0.3440	0.008999	0.02097	0.2991	0.03582

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.00	781.4	0.4283	0.3543	0.03798	0.1269	0.2099	0.7584
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1149	0.01038	0.4264	0.8880	0.07605	0.3575
		k(pl)	x(ilm)	Q(ilm)			
		0.02330	0.6485	0.3880			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2783	0.01428	0	0.3450	0.008342	0.01961	0.2978	0.03666

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.50	811.2	0.4215	0.3604	0.03882	0.1368	0.1983	0.7437
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1102	0.01108	0.4281	0.8806	0.06499	0.3523
		k(pl)	x(ilm)	Q(ilm)			
		0.03147	0.6223	0.2798			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2723	0.02122	0	0.3467	0.007761	0.01831	0.2961	0.03765

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.00	840.1	0.4134	0.3649	0.03962	0.1466	0.1883	0.7286
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1067	0.01188	0.4281	0.8741	0.05652	0.3460
		k(pl)	x(ilm)	Q(ilm)			
		0.04207	0.5976	0.08937			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2647	0.02921	0	0.3491	0.007291	0.01711	0.2937	0.03881

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.50	868.3	0.4030	0.3672	0.04142	0.1551	0.1800	0.7120
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1044	0.01311	0.4255	0.8680	0.04972	0.3380
		k(pl)	x(ilm)	Q(ilm)			
		0.05633	0.58970	0.005451			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2547	0.03881	0	0.3527	0.007010	0.01600	0.2906	0.04021

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.00	893.3	0.3905	0.3671	0.04286	0.1635	0.1736	0.6952
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1045	0.01447	0.4199	0.8626	0.04474	0.3281
		k(pl)	x(ilm)	Q(ilm)			
		0.07374	0.59050	0.0003291			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2423	0.05004	0	0.3572	0.006900	0.01509	0.2867	0.04185

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.50	914.1	0.3759	0.3647	0.04366	0.1723	0.1690	0.6785
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1074	0.01591	0.4114	0.8575	0.04126	0.3165
		k(pl)	x(ilm)	Q(ilm)			
		0.09362	0.59880	0.0003088			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2280	0.06274	0	0.3622	0.006955	0.01444	0.2820	0.04370

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.00	930.6	0.3596	0.3603	0.04380	0.1812	0.1657	0.6617
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1132	0.01742	0.4002	0.8526	0.03895	0.3032
		k(pl)	x(ilm)	Q(ilm)			
		0.1151	0.61370	0.0003883			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2122	0.07664	0	0.3673	0.007153	0.01411	0.2770	0.04568

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.50	943.3	0.3420	0.3543	0.04333	0.1905	0.1634	0.6450
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1217	0.01902	0.3868	0.8478	0.03756	0.2881
		k(pl)	x(ilm)	Q(ilm)			
		0.1374	0.63370	0.0007664			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1956	0.09144	0	0.3719	0.007462	0.01413	0.2717	0.04773

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.00	952.8	0.3236	0.3473	0.04232	0.1999	0.1614	0.6282
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1327	0.02071	0.3716	0.8431	0.03691	0.2714
		k(pl)	x(ilm)	Q(ilm)			
		0.1600	0.6570	0.003179			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1788	0.1069	0	0.3757	0.007847	0.01454	0.2664	0.04978

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.50	959.8	0.3032	0.3386	0.04209	0.2081	0.1597	0.6096
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1466	0.02323	0.3536	0.8382	0.03689	0.2513
		k(pl)	x(ilm)	Q(ilm)			
		0.1845	0.6936	-0.2698			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1607	0.1240	0	0.3787	0.008345	0.01546	0.2610	0.05191

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.00	965.0	0.2864	0.3315	0.03906	0.2190	0.1575	0.5946
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1607	0.02415	0.3386	0.8337	0.03744	0.2323
		k(pl)	x(ilm)	Q(ilm)			
		0.2048	0.7086	-0.0002584			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1459	0.1388	0	0.3795	0.008748	0.01665	0.2566	0.05368

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.50	968.7	0.2685	0.3233	0.03699	0.2285	0.1552	0.5779
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1760	0.02566	0.3217	0.8290	0.03851	0.2101
		k(pl)	x(ilm)	Q(ilm)			
		0.2268	0.7345	-0.0001800			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1304	0.1550	0	0.3794	0.009242	0.01828	0.2522	0.05547

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.00	971.5	0.2518	0.3152	0.03481	0.2377	0.1525	0.5613
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1905	0.02681	0.3055	0.8242	0.03999	0.1871
		k(pl)	x(ilm)	Q(ilm)			
		0.2483	0.7586	-0.0001419			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1156	0.1707	0	0.3784	0.009766	0.02009	0.2482	0.05714

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.50	974.2	0.2366	0.3075	0.03271	0.2465	0.1495	0.5450
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2028	0.02751	0.2904	0.8195	0.04172	0.1647
		k(pl)	x(ilm)	Q(ilm)			
		0.2689	0.7800	-0.0001208			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1018	0.1856	0	0.3772	0.01033	0.02185	0.2446	0.05868

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
19.00	975.7	0.2171	0.2969	0.03465	0.2487	0.1462	0.5203
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2134	0.03138	0.2696	0.8137	0.04413	0.1371
		k(pl)	x(ilm)	Q(ilm)			
		0.2967	0.8305	0.5884			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.08229	0.2052	0	0.3773	0.01111	0.02385	0.2396	0.06069

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.50	677.6	0.04975	0.1857	0.8885	0.009874	0.0005961	0.6269
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7531	0.2942	0.2288	0.03882	0.1117	0.3039
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7238	0.2790	0.02908	0.2764	0.9190	0.2387
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3044	0.005955	0.7992	0.7066	0.05942	0.1825

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.05942	0.1825	0.1017	0.1127	0.2515	0.01194	0	0.2767	0.003570

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.54	677.5	0.04945	0.1856	0.8896	0.009884	0.0005898	0.6246
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7536	0.2916	0.2276	0.03874	0.1121	0.3037
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7220	0.2830	0.02977	0.2739	0.9192	0.2413
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3035	0.005916	0.8017	0.7101	0.06749	0.1810

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.06749	0.1810	0.1038	0.1141	0.2460	0.01192	0	0.2756	0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
9.50	632.5	0.06686	0.1519	0.8568	0.007972	0.0004655	0.6978			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7713	0.4310	0.2935	0.03465	0.07775	0.2993				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.8241	0.1908	0.01192	0.3847	0.9984	0.8600				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.4472	0.003237	0.7575	0.6680	0.04828	0.2769				
mode	liq	bi	g	mu	pl	ilm	ky	q		
	0.04828	0.2769	0.003233	0.08050	0.2777	0.01236	0	0.3011		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.00	637.0	0.06222	0.1570	0.8774	0.007957	0.0004946	0.6734			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7711	0.3875	0.2658	0.03659	0.08240	0.3182				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7992	0.2017	0.01370	0.3485	0.9873	0.5751				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.4105	0.003303	0.7671	0.6792	0.05537	0.2459				

mode	liq	bi	g	mu	pl	ilm	ky	q		
	0.05537	0.2459	0.03195	0.08525	0.2779	0.01266	0	0.2909		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.50	642.0	0.05847	0.1613	0.8865	0.008152	0.0005040	0.6569			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7704	0.3590	0.2500	0.03770	0.08710	0.3244				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7816	0.2217	0.01683	0.3247	0.9712	0.4314				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.3853	0.003497	0.7739	0.6864	0.05902	0.2268				

mode	liq	bi	g	mu	pl	ilm	ky	q		
	0.05902	0.2268	0.05097	0.09067	0.2744	0.01271	0	0.2855		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
11.00	649.5	0.05569	0.1665	0.8887	0.008533	0.0005181	0.6467			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7676	0.3391	0.2417	0.03834	0.09257	0.3228				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.7672	0.2414	0.02038	0.3090	0.9570	0.3574				

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3650 0.003907 0.7798 0.6915 0.06143 0.2136

mode liq bi g mu pl ilm ky q
0.06143 0.2136 0.06540 0.09615 0.2685 0.01258 0 0.2823

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 658.1 0.05337 0.1724 0.8893 0.0089640.0005373 0.6384
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7637 0.3220 0.2360 0.03871 0.09858 0.3182
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7528 0.2582 0.02384 0.2960 0.9439 0.3079
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3450 0.004445 0.7864 0.6970 0.06350 0.2022

mode liq bi g mu pl ilm ky q
0.06350 0.2022 0.07863 0.1019 0.2615 0.01238 0 0.2799

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 667.2 0.05136 0.1786 0.8895 0.0094060.0005606 0.6313
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7591 0.3065 0.2315 0.03883 0.1050 0.3118
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7380 0.2718 0.02696 0.2846 0.9317 0.2717
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3250 0.005093 0.7936 0.7032 0.06543 0.1916

mode liq bi g mu pl ilm ky q
0.06543 0.1916 0.09115 0.1079 0.2540 0.01216 0 0.2777

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 676.7 0.04958 0.1851 0.8896 0.0098510.0005876 0.6251
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7540 0.2926 0.2279 0.03875 0.1116 0.3043
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7231 0.2823 0.02960 0.2746 0.9201 0.2433
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3050 0.005854 0.8011 0.7096 0.06735 0.1817

mode liq bi g mu pl ilm ky q
0.06735 0.1817 0.1030 0.1137 0.2466 0.01194 0 0.2758

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 686.7 0.04804 0.1917 0.8893 0.010310.0006195 0.6199
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7484 0.2801 0.2250 0.03851 0.1186 0.2960
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7082 0.2896 0.03167 0.2658 0.9087 0.2191
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2856 0.006747 0.8083 0.7154 0.06939 0.1723

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.06939	0.1723	0.1140	0.1191	0.2396	0.01174	0	0.2739

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.50	697.4	0.04681	0.1987	0.8882	0.010830	0.0006586	0.6160
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7421	0.2690	0.2230	0.03818	0.1258	0.2870	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6934	0.2939	0.03319	0.2586	0.8972	0.1968	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2676	0.007822	0.8146	0.7198	0.07174	0.1635	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.07174	0.1635	0.1241	0.1239	0.2334	0.01155	0	0.2719

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	709.3	0.04598	0.2062	0.8855	0.011480	0.0007090	0.6137
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7347	0.2595	0.2223	0.03784	0.1337	0.2774	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6789	0.2954	0.03421	0.2531	0.8854	0.1751	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2518	0.009176	0.8196	0.7218	0.07463	0.1552	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.07463	0.1552	0.1331	0.1276	0.2283	0.01139	0	0.2698

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.50	723.0	0.04570	0.2145	0.8801	0.012360	0.0007774	0.6134
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7257	0.2517	0.2231	0.03754	0.1423	0.2670	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6648	0.2940	0.03480	0.2497	0.8735	0.1530	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2391	0.01099	0.8229	0.7207	0.07836	0.1476	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.07836	0.1476	0.1410	0.1300	0.2243	0.01123	0	0.2675

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	739.2	0.04614	0.2239	0.8705	0.013620	0.0008724	0.6155
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7145	0.2455	0.2259	0.03732	0.1521	0.2557	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6510	0.2900	0.03506	0.2484	0.8616	0.1309	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2300	0.01354	0.8242	0.7159	0.08326	0.1407	

mode	liq	bi	g	mu	pl	ilm	ky	q
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0.08326 0.1407 0.1478 0.1308 0.2215 0.01106 0 0.2649

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 757.7 0.04735 0.2343 0.8559 0.015350.0009991 0.6193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7009 0.2407 0.2302 0.03717 0.1631 0.2437
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6377 0.2841 0.03513 0.2489 0.8505 0.1103
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2238 0.01715 0.8241 0.7077 0.08946 0.1342

mode liq bi g mu pl ilm ky q
0.08946 0.1342 0.1538 0.1302 0.2193 0.01087 0 0.2621

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 776.8 0.04900 0.2448 0.8376 0.01742 0.001147 0.6233
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6864 0.2362 0.2346 0.03697 0.1747 0.2320
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6247 0.2781 0.03516 0.2498 0.8409 0.09344
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2181 0.02193 0.8239 0.6986 0.09650 0.1280

mode liq bi g mu pl ilm ky q
0.09650 0.1280 0.1595 0.1291 0.2172 0.01070 0 0.2590

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 794.6 0.05064 0.2544 0.8183 0.01959 0.001298 0.6260
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6727 0.2314 0.2377 0.03663 0.1862 0.2214
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6119 0.2731 0.03522 0.2498 0.8327 0.08102
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2109 0.02765 0.8248 0.6914 0.1036 0.1214

mode liq bi g mu pl ilm ky q
0.1036 0.1214 0.1656 0.1282 0.2146 0.01059 0 0.2560

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 810.6 0.05203 0.2628 0.8001 0.02171 0.001438 0.6271
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6606 0.2259 0.2392 0.03613 0.1972 0.2120
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5992 0.2694 0.03529 0.2485 0.8254 0.07207
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2017 0.03416 0.8272 0.6870 0.1105 0.1144

mode liq bi g mu pl ilm ky q
0.1105 0.1144 0.1721 0.1279 0.2116 0.01054 0 0.2530

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.50    824.9 0.05314 0.2700 0.7833 0.02371 0.001564 0.6269
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6500 0.2200 0.2395 0.03551 0.2078 0.2037
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5867 0.2664 0.03533 0.2461 0.8188 0.06548
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1910 0.04143 0.8308 0.6850 0.1169 0.1070

mode  liq  bi  g  mu  pl  ilm  ky  q
      0.1169 0.1070 0.1789 0.1280 0.2085 0.01058 0 0.2500

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00    837.7 0.05400 0.2763 0.7681 0.02560 0.001677 0.6258
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6408 0.2139 0.2388 0.03478 0.2180 0.1962
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5744 0.2640 0.03530 0.2431 0.8125 0.06047
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1792 0.04951 0.8351 0.6848 0.1230 0.09951

mode  liq  bi  g  mu  pl  ilm  ky  q
      0.1230 0.09951 0.1858 0.1284 0.2054 0.01068 0 0.2472

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50    849.4 0.05464 0.2818 0.7544 0.02737 0.001777 0.6240
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6328 0.2078 0.2375 0.03399 0.2277 0.1893
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5622 0.2618 0.03519 0.2395 0.8065 0.05657
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1668 0.05851 0.8399 0.6858 0.1289 0.09186

mode  liq  bi  g  mu  pl  ilm  ky  q
      0.1289 0.09186 0.1927 0.1289 0.2025 0.01085 0 0.2444

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00    860.2 0.05508 0.2865 0.7421 0.02904 0.001867 0.6217
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6258 0.2016 0.2355 0.03315 0.2371 0.1829
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5502 0.2597 0.03499 0.2357 0.8007 0.05346
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1542 0.06857 0.8449 0.6877 0.1344 0.08412

mode  liq  bi  g  mu  pl  ilm  ky  q
      0.1344 0.08412 0.1995 0.1293 0.1999 0.01109 0 0.2416

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.50    870.2 0.05534 0.2906 0.7314 0.03059 0.001946 0.6190

```

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.6198	0.1955	0.2332	0.03228	0.2462	0.1770
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.5384	0.2576	0.03471	0.2315	0.7950	0.05096
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.1414	0.07986	0.8499	0.6900	0.1398	0.07634

mode	liq	bi	g	mu	pl	ilm	ky	q	
	0.1398	0.07634	0.2063	0.1297	0.1976	0.01138	0	0.2389	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	687.3	0.06523	0.1882	0.8206	0.010760	0.0008156	0.7009
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.7331	0.3943	0.2945	0.03746	0.1012	0.2776		
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
0.7817	0.1795	0.01363	0.3712	0.9146	0.1487		
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
0.3840	0.007406	0.7391	0.6177	0.08534	0.2501		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.08534	0.2501	0.03108	0.02846	0.2984	0.01122	0.01647	0.2790	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.50	685.4	0.06010	0.1871	0.8424	0.010770	0.0007456	0.6779
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.7398	0.3585	0.2710	0.03865	0.1049	0.2909		
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
0.7637	0.2122	0.01816	0.3389	0.9127	0.1654		
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
0.3653	0.006928	0.7562	0.6436	0.08024	0.2245		

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.08024	0.2245	0.05519	0.05652	0.2853	0.01159	0.01018	0.2765	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	682.3	0.05494	0.1862	0.8651	0.010500	0.0006692	0.6531
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.7464	0.3249	0.2494	0.03917	0.1085	0.2994		
x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
0.7444	0.2473	0.02371	0.3070	0.9132	0.1914		
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
0.3394	0.006454	0.7764	0.6736	0.07481	0.2022		

```
mode  liq  bi   g   mu   pl  ilm  ky   q   H2O
      0.07481 0.2022 0.07874 0.08327 0.2687 0.01181 0.005236 0.2752    0
```

```
-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.50    677.9 0.04983 0.1856 0.8879 0.0099370.0005950 0.6267
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7531 0.2938 0.2291 0.03880 0.1119 0.3035
      x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
      0.7236 0.2806 0.02938 0.2761 0.9185 0.2366
      ca(pl) k(pl)  x(ilm) Q(ilm)  liq   bi
      0.3062 0.005955 0.7999 0.7075 0.06811 0.1824
```

```
mode  liq  bi   g   mu   pl  ilm  ky   q   H2O
      0.06811 0.1824 0.1021 0.1118 0.2478 0.011920.0004296 0.2755    0
```

calcs use:

composition (from script)

```
      H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O TiO2   O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
```

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

```
-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.54    688.3 0.06994 0.1896 0.8015 0.010580.0008694 0.7205
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7269 0.4290 0.3178 0.03597 0.09785 0.2615
      x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
      0.7975 0.1536 0.01056 0.4011 0.9173 0.1379
      ca(pl) k(pl)  x(ilm) Q(ilm)  liq   bi
      0.3962 0.007858 0.7243 0.5950 0.09011 0.2772
```

```
mode  liq  bi   g   mu   pl  ilm  ky   q   H2O
      0.09011 0.2772 0.007695    0 0.3080 0.01074 0.02381 0.2824    0
```

calcs use:

composition (from script)

```
      H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O TiO2   O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
```

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

```
-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.50    685.0 0.06857 0.1913 0.8154 0.0096350.0008634 0.7223
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7275 0.4335 0.3164 0.03560 0.09608 0.2632
      x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
      0.7990 0.1402 0.009096 0.4042 0.9205 0.1506
```

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3673 0.008062 0.7251 0.5979 0 0.2802

mode liq bi g mu pl ilm ky q H2O
0 0.2802 0.004652 0.01008 0.3404 0.01082 0.02137 0.2985 0.03394

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 684.2 0.06367 0.1897 0.8338 0.0098900.0008106 0.7014
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7342 0.3961 0.2910 0.03724 0.09970 0.2810
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7820 0.1669 0.01201 0.3721 0.9177 0.1626
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3571 0.007516 0.7396 0.6200 0 0.2507

mode liq bi g mu pl ilm ky q H2O
0 0.2507 0.02964 0.03966 0.3296 0.01134 0.01338 0.2929 0.03280

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 682.6 0.05884 0.1883 0.8528 0.0099900.0007464 0.6789
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7407 0.3608 0.2680 0.03847 0.1033 0.2942
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7644 0.1984 0.01609 0.3403 0.9160 0.1798
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3421 0.006994 0.7547 0.6428 0 0.2255

mode liq bi g mu pl ilm ky q H2O
0 0.2255 0.05297 0.06611 0.3162 0.01173 0.007122 0.2887 0.03161

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 680.0 0.05401 0.1871 0.8725 0.0098600.0006748 0.6545
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7472 0.3275 0.2468 0.03911 0.1069 0.3026
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7455 0.2333 0.02133 0.3088 0.9167 0.2065
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3209 0.006484 0.7728 0.6695 0 0.2034

mode liq bi g mu pl ilm ky q H2O
0 0.2034 0.07588 0.09155 0.2991 0.01197 0.002092 0.2859 0.03018

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.22  678.4 0.05187 0.1867 0.8814 0.0097170.0006426 0.6431
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7500 0.3134 0.2379 0.03915 0.1085 0.3049
      x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
      0.7366 0.2489 0.02389 0.2950 0.9184 0.2238
      ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
      0.3092 0.006254 0.7821 0.6830 0 0.1943

mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0 0.1943 0.08608 0.1033 0.2899 0.01203 0 0.2850 0.02936
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
  6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)
-----

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.41  685.0 0.06943 0.1916 0.8122 0.0095800.0008712 0.7258
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7263 0.4403 0.3212 0.03528 0.09546 0.2596
      x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
      0.8019 0.1361 0.008689 0.4098 0.9211 0.1488
      ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
      0.3687 0.008161 0.7224 0.5938 0 0.2859

mode  liq  bi  g  mu  pl  ilm  ky  q  H2O
      0 0.2859 0 0.004437 0.3421 0.01071 0.02297 0.2997 0.03415
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
  6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)
-----

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.41  686.1 0.07005 0.1911 0.8071 0.0098720.0008751 0.7260
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7259 0.4402 0.3225 0.03533 0.09589 0.2584
      x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
      0.8020 0.1395 0.009035 0.4100 0.9202 0.1443

```

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3784 0.008109 0.7215 0.5918 0.03025 0.2861

mode liq bi g mu pl ilm ky q H2O
0.03025 0.2861 0 0 0.3316 0.01067 0.02407 0.2945 0.02281
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50 687.6 0.06998 0.1901 0.8034 0.010350.0008715 0.7223
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7266 0.4327 0.3194 0.03576 0.09720 0.2605
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7990 0.1488 0.01003 0.4040 0.9183 0.1400
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3904 0.007938 0.7233 0.5938 0.07087 0.2801

mode liq bi g mu pl ilm ky q H2O
0.07087 0.2801 0.005145 0 0.3156 0.01072 0.02388 0.2863 0.007343
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 664.5 0.06854 0.1758 0.8333 0.0088500.0006959 0.7155
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7442 0.4371 0.3115 0.03497 0.08802 0.2741
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8095 0.1506 0.009215 0.4003 0.9332 0.1862
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3983 0.005657 0.7383 0.6274 0.08324 0.2827

mode liq bi g mu pl ilm ky q
0.08324 0.28270.0006520 0 0.3121 0.01140 0.02500 0.2849

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50 686.3 0.06980 0.1884 0.8043 0.010430.0008538 0.7201

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7284 0.4297 0.3174 0.03589 0.09703 0.2625
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7985 0.1534 0.01045 0.4011 0.9185 0.1411
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3964 0.007652 0.7255 0.5978 0.08950 0.2777

mode liq bi g mu pl ilm ky q
0.08950 0.2777 0.007073 0 0.3083 0.01080 0.02390 0.2827

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 708.2 0.07159 0.2014 0.7711 0.01228 0.001043 0.7234
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7112 0.4209 0.3217 0.03682 0.1066 0.2520
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7864 0.1555 0.01171 0.4004 0.9065 0.1112
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3935 0.01028 0.7117 0.5642 0.09699 0.2714

mode liq bi g mu pl ilm ky q
0.09699 0.2714 0.01461 0 0.3042 0.01021 0.02291 0.2797

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 729.2 0.07370 0.2143 0.7343 0.01438 0.001250 0.7251
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6937 0.4106 0.3240 0.03775 0.1165 0.2429
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7737 0.1580 0.01307 0.3980 0.8964 0.09065
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3893 0.01359 0.6981 0.5286 0.1056 0.2636

mode liq bi g mu pl ilm ky q
0.1056 0.2636 0.02330 0 0.2998 0.009677 0.02207 0.2760

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 748.6 0.07590 0.2264 0.6953 0.01667 0.001461 0.7250
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6765 0.3987 0.3241 0.03865 0.1264 0.2356
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7604 0.1616 0.01460 0.3936 0.8877 0.07613
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3832 0.01759 0.6863 0.4941 0.1152 0.2544

mode liq bi g mu pl ilm ky q
0.1152 0.2544 0.03313 0 0.2951 0.009226 0.02144 0.2715

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 766.0 0.07794 0.2375 0.6558 0.01907 0.001655 0.7231
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6606 0.3852 0.3222 0.03948 0.1363 0.2297

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7467	0.1668	0.01634	0.3870	0.8800	0.06582
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.3751	0.02222	0.6780	0.4646	0.1255	0.2438

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1255	0.2438	0.04399		0	0.2902	0.008872	0.02107 0.2665

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	781.4	0.07964	0.2474	0.6178	0.02150	0.001820	0.7195
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6463	0.3705	0.3186	0.04023	0.1459	0.2250	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7326	0.1734	0.01830	0.3786	0.8730	0.05846	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3647	0.02741	0.6744	0.4442	0.1361	0.2323	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1361	0.2323	0.05568		0	0.2851	0.008613	0.02097 0.2612

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.50	794.8	0.08089	0.2560	0.5828	0.02389	0.001948	0.7146
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6339	0.3551	0.3137	0.04084	0.1554	0.2211	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7182	0.1814	0.02047	0.3686	0.8664	0.05317	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3520	0.03310	0.6759	0.4352	0.1467	0.2203	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1467	0.2203	0.06795		0	0.2797	0.008434	0.02116 0.2559

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	806.6	0.08164	0.2635	0.5518	0.02617	0.002040	0.7086
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6233	0.3393	0.3080	0.04128	0.1646	0.2176	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7035	0.1903	0.02279	0.3576	0.8602	0.04937	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3371	0.03930	0.6824	0.4378	0.1569	0.2080	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1569	0.2080	0.08054		0	0.2739	0.008317	0.02161 0.2507

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.50	817.1	0.08192	0.2699	0.5253	0.02832	0.002102	0.7020
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6144	0.3237	0.3018	0.04152	0.1736	0.2141	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6887	0.1995	0.02517	0.3462	0.8541	0.04661	

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3200 0.04608 0.6929 0.4503 0.1667 0.1959

mode liq bi g mu pl ilm ky q
0.1667 0.1959 0.09320 0 0.2679 0.008246 0.02229 0.2457

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 826.5 0.08180 0.2754 0.5031 0.03030 0.002140 0.6949
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6071 0.3085 0.2955 0.04152 0.1825 0.2105
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6738 0.2086 0.02748 0.3346 0.8483 0.04460
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3011 0.05355 0.7066 0.4700 0.1759 0.1841

mode liq bi g mu pl ilm ky q
0.1759 0.1841 0.1057 0 0.2618 0.008212 0.02315 0.2411

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 835.1 0.08132 0.2801 0.4851 0.03211 0.002163 0.6877
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6011 0.2941 0.2892 0.04127 0.1912 0.2068
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6591 0.2172 0.02962 0.3231 0.8425 0.04315
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2808 0.06190 0.7222 0.4938 0.1843 0.1727

mode liq bi g mu pl ilm ky q
0.1843 0.1727 0.1180 0 0.2557 0.008213 0.02412 0.2369

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 843.1 0.08056 0.2841 0.4708 0.03375 0.002175 0.6804
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5964 0.2804 0.2830 0.04078 0.1998 0.2028
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6444 0.2249 0.03146 0.3121 0.8367 0.04211
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2593 0.07134 0.7388 0.5193 0.1920 0.1618

mode liq bi g mu pl ilm ky q
0.1920 0.1618 0.1299 0 0.2498 0.008253 0.02515 0.2331

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 850.5 0.07956 0.2874 0.4602 0.03523 0.002181 0.6732
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5928 0.2676 0.2770 0.04007 0.2082 0.1988
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6299 0.2315 0.03296 0.3015 0.8310 0.04138
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2372 0.08214 0.7555 0.5446 0.1990 0.1512

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1990	0.1512	0.1414		0	0.2443	0.008336	0.02617 0.2296

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	857.5	0.07836	0.2900	0.4530	0.03653	0.002184	0.6661
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5902	0.2556	0.2711	0.03918	0.2165	0.1946	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6157	0.2370	0.03409	0.2913	0.8253	0.04089	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2146	0.09466	0.7716	0.5686	0.2052	0.1410	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2052	0.1410	0.1524		0	0.2393	0.008468	0.02714 0.2264

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.50	864.1	0.07695	0.2920	0.4498	0.03768	0.002186	0.6591
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5886	0.2443	0.2653	0.03816	0.2245	0.1903	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6015	0.2415	0.03488	0.2815	0.8196	0.04062	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1920	0.1095	0.7868	0.5907	0.2106	0.1311	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2106	0.1311	0.1630		0	0.2350	0.008653	0.02805 0.2235

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.00	870.3	0.07532	0.2933	0.4514	0.03864	0.002186	0.6521
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5881	0.2335	0.2597	0.03702	0.2323	0.1860	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5875	0.2452	0.03537	0.2720	0.8139	0.04055	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1692	0.1276	0.8011	0.6110	0.2153	0.1214	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2153	0.1214	0.1733		0	0.2313	0.008894	0.02888 0.2209

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.50	876.1	0.07335	0.2939	0.4607	0.03938	0.002183	0.6449
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5888	0.2232	0.2541	0.03579	0.2399	0.1817	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5735	0.2486	0.03564	0.2627	0.8082	0.04071	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1459	0.1510	0.8146	0.6300	0.2190	0.1117	

mode	liq	bi	g	mu	pl	ilm	ky	q
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0.2190 0.1117 0.1835 0 0.2284 0.009193 0.02969 0.2186

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 881.0 0.07063 0.2936 0.4868 0.03966 0.002170 0.6370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5918 0.2127 0.2483 0.03440 0.2472 0.1772
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5590 0.2526 0.03579 0.2528 0.8024 0.04132
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1202 0.1859 0.8284 0.6497 0.2212 0.1017

mode liq bi g mu pl ilm ky q
0.2212 0.1017 0.1941 0 0.2261 0.009558 0.03063 0.2167

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.50 882.7 0.06450 0.2923 0.5837 0.03789 0.002088 0.6259
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6012 0.1999 0.2411 0.03236 0.2540 0.1726
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5424 0.2623 0.03615 0.2394 0.7965 0.04384
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.08224 0.2667 0.8472 0.6788 0.2196 0.08985

mode liq bi g mu pl ilm ky q
0.2196 0.08985 0.2081 0 0.2234 0.01005 0.03264 0.2163

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00 883.0 0.05740 0.2962 0.6949 0.03448 0.001975 0.6154
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6082 0.1881 0.2332 0.03055 0.2597 0.1685
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5262 0.2685 0.03593 0.2267 0.7904 0.04739
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.05259 0.3537 0.8615 0.7010 0.2193 0.07843

mode liq bi g mu pl ilm ky q
0.2193 0.07843 0.2210 0 0.2202 0.01063 0.03420 0.2162

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 826.4 0.08171 0.2753 0.5043 0.03027 0.002138 0.6948
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6073 0.3084 0.2954 0.04151 0.1824 0.2106

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6738 0.2088 0.02750 0.3344 0.8483 0.04467
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2315 0.01421 0.3012 0.05338 0.7069 0.4708

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.1758	0.1840	0.1058		00.0003207		0.2615	0.008217	0.02317 0.2411

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.50 832.0 0.07904 0.2764 0.5165 0.03129 0.002104 0.6845
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6082 0.2908 0.2869 0.04111 0.1902 0.2082
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6575 0.2216 0.03015 0.3191 0.8425 0.04493
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2399 0.01436 0.2828 0.05691 0.7303 0.5119

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.1812	0.1707	0.1204		0 0.009009		0.2483	0.008332	0.02470 0.2373

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 837.7 0.07640 0.2776 0.5309 0.03213 0.002076 0.6748
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6090 0.2750 0.2791 0.04040 0.1980 0.2051
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6415 0.2325 0.03232 0.3051 0.8367 0.04526
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2491 0.01446 0.2634 0.06088 0.7522 0.5481

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.1860	0.1584	0.1341		0 0.01764		0.2351	0.008452	0.02622 0.2341

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.50 843.2 0.07381 0.2790 0.5470 0.03279 0.002054 0.6658
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6097 0.2607 0.2720 0.03946 0.2057 0.2014
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6259 0.2412 0.03394 0.2924 0.8310 0.04561
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2589 0.01453 0.2437 0.06526 0.7720 0.5792

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.1905	0.1469	0.1469		0 0.02635		0.2218	0.008596	0.02764 0.2312

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.00 848.8 0.07128 0.2805 0.5646 0.03330 0.002040 0.6574
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6104 0.2477 0.2654 0.03837 0.2134 0.1973
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6108 0.2479 0.03504 0.2809 0.8252 0.04595

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2691 0.01455 0.2242 0.07000 0.7894 0.6053

mode liq bi g mu ksp pl ilm ky q
0.1947 0.1362 0.1589 0 0.03524 0.2088 0.008776 0.02890 0.2286

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.50 854.4 0.06883 0.2822 0.5834 0.03366 0.002032 0.6496
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6109 0.2360 0.2592 0.03720 0.2209 0.1930
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5960 0.2528 0.03569 0.2704 0.8193 0.04626
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2795 0.01452 0.2053 0.07505 0.8045 0.6268

mode liq bi g mu ksp pl ilm ky q
0.1986 0.1259 0.1701 0 0.04441 0.1958 0.008998 0.02997 0.2262

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 860.0 0.06644 0.2841 0.6033 0.03391 0.002030 0.6423
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6113 0.2253 0.2533 0.03601 0.2283 0.1886
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5816 0.2560 0.03597 0.2607 0.8134 0.04653
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2901 0.01445 0.1874 0.08034 0.8174 0.6445

mode liq bi g mu ksp pl ilm ky q
0.2024 0.1161 0.1805 0 0.05394 0.1830 0.009264 0.03082 0.2240

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50 865.7 0.06413 0.2862 0.6240 0.03404 0.002033 0.6356
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6115 0.2155 0.2478 0.03483 0.2356 0.1840
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5676 0.2579 0.03598 0.2519 0.8075 0.04675
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3005 0.01434 0.1707 0.08582 0.8285 0.6590

mode liq bi g mu ksp pl ilm ky q
0.2061 0.1067 0.1902 0 0.06392 0.1702 0.009573 0.03146 0.2219

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 871.3 0.06189 0.2886 0.6453 0.03408 0.002039 0.6292
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6115 0.2065 0.2425 0.03369 0.2428 0.1795
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5539 0.2586 0.03578 0.2437 0.8016 0.04691
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3109 0.01420 0.1553 0.09140 0.8380 0.6708

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.2097	0.09749	0.1994		0	0.07441	0.1572	0.009924	0.03191 0.2199

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.50    877.0 0.05972 0.2911 0.6671 0.03403 0.002047 0.6232
          h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
          0.6112 0.1981 0.2374 0.03259 0.2499 0.1749
          x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
          0.5406 0.2584 0.03543 0.2361 0.7957 0.04701
          na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
          0.3210 0.01401 0.1411 0.09704 0.8462 0.6805

```

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.2134	0.08851	0.2080		0	0.08547	0.1441	0.01031	0.03216 0.2180

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00    882.8 0.05763 0.2940 0.6891 0.03391 0.002055 0.6175
          h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
          0.6107 0.1903 0.2325 0.03153 0.2569 0.1703
          x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
          0.5275 0.2574 0.03498 0.2289 0.7897 0.04706
          na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
          0.3308 0.01380 0.1283 0.1027 0.8534 0.6884

```

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.2172	0.07969	0.2162		0	0.09715	0.1306	0.01074	0.03225 0.2162

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, H2O, (q)

```

P(kbar)  T(iC)  x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.06    629.4 0.3825 0.2547 0.03653 0.08271 0.3278 0.8001
          z(g)  f(g)  fe(mu) y(mu) na(mu) ca(pl)
          0.2037 0.01365 0.3423 0.9825 0.5129 0.3818
          k(pl) x(ilm) Q(ilm)
          0.003446 0.7678 0.6830

```

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2422	0.03495	0.08841	0.2985	0.01274		0	0	0.2979 0.02529

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.50 652.0 0.3896 0.2697 0.03675 0.08956 0.3079 0.7928
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1833 0.01237 0.3563 0.9400 0.2424 0.3595
k(pl) x(ilm) Q(ilm)
0.004946 0.7565 0.6588

mode bi g mu pl ilm ru ky q H2O
0.2461 0.03167 0.05134 0.3232 0.01219 0 0.01143 0.2929 0.03119

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 684.7 0.3967 0.2916 0.03723 0.09980 0.2804 0.7821
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1662 0.01195 0.3727 0.9175 0.1616 0.3572
k(pl) x(ilm) Q(ilm)
0.007567 0.7392 0.6191

mode bi g mu pl ilm ru ky q H2O
0.2511 0.02929 0.03914 0.3298 0.01133 0 0.01349 0.2930 0.03283

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.50 718.5 0.4001 0.3103 0.03783 0.1106 0.2563 0.7692
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1509 0.01177 0.3856 0.9025 0.1201 0.3556
k(pl) x(ilm) Q(ilm)
0.01127 0.7189 0.5697

mode bi g mu pl ilm ru ky q H2O
0.2537 0.02936 0.03192 0.3334 0.01046 0 0.01389 0.2932 0.03397

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 752.6 0.4010 0.3258 0.03849 0.1215 0.2354 0.7552
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1380 0.01184 0.3957 0.8912 0.09436 0.3532
k(pl) x(ilm) Q(ilm)
0.01638 0.6959 0.5085

mode bi g mu pl ilm ru ky q H2O
0.2542 0.03125 0.02687 0.3363 0.009624 0 0.01369 0.2931 0.03501

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.50 786.6 0.3999 0.3384 0.03919 0.1324 0.2175 0.7408
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1273 0.01210 0.4037 0.8822 0.07677 0.3499
k(pl) x(ilm) Q(ilm)
0.02341 0.6702 0.4307

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2530	0.03455	0.02278	0.3391	0.008852			0	0.01327 0.2924 0.03610

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.00	820.6	0.3975	0.3490	0.03987	0.1433	0.2018	0.7262
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1185	0.01254	0.4099	0.8747	0.06392	0.3453
		k(pl)	x(ilm)	Q(ilm)			
		0.03318	0.6421	0.3251			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2503	0.03895	0.01863	0.3425	0.008147			0	0.01294 0.2912 0.03738

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.50	854.7	0.3942	0.3579	0.04052	0.1542	0.1877	0.7115
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1114	0.01314	0.4149	0.8683	0.05400	0.3389
		k(pl)	x(ilm)	Q(ilm)			
		0.04727	0.6115	0.1378			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2464	0.04422	0.01300	0.3473	0.007508			0	0.01307 0.2894 0.03902

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.00	882.4	0.3844	0.3604	0.04182	0.1632	0.1791	0.6952
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1094	0.01432	0.4124	0.8626	0.04779	0.3303
		k(pl)	x(ilm)	Q(ilm)			
		0.06316	0.60410	0.008918			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2367	0.05358	0.01171	0.3516	0.007261			0	0.01240 0.2862 0.04058

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.50	909.9	0.3739	0.3623	0.04326	0.1721	0.1709	0.6785
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1088	0.01579	0.4088	0.8574	0.04236	0.3182
		k(pl)	x(ilm)	Q(ilm)			
		0.08725	0.60370	0.003928			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2260	0.06382	0.005859	0.3591	0.007090			0	0.01304 0.2821 0.04296

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.50    659.8  0.06255  0.1724  0.8574  0.0088730.0006252  0.6876
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7541  0.3917  0.2786  0.03692  0.09065  0.2995
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7911  0.1861  0.01302  0.3601  0.9355  0.2217
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.3849  0.004948  0.7550  0.6534  0.07581  0.2480

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.07581  0.2480  0.03064  0.03959  0.2984  0.01204  0  0.01440  0.2811
-----

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.00    691.2  0.06635  0.1906  0.8122  0.011030.0008542  0.7053
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7292  0.3993  0.2996  0.03735  0.1022  0.2728
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7826  0.1746  0.01321  0.3768  0.9128  0.1404
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.3859  0.007873  0.7345  0.6089  0.08736  0.2539

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.08736  0.2539  0.02802  0.02331  0.2997  0.01104  0  0.01761  0.2791
-----

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.50    722.4  0.07129  0.2096  0.7549  0.01376  0.001157  0.7186
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7017  0.4026  0.3160  0.03793  0.1146  0.2504
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7722  0.1650  0.01363  0.3891  0.8980  0.09859
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.3864  0.01223  0.7094  0.5519  0.1009  0.2570

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1009  0.2570  0.02828  0.009681  0.2982  0.01003  0  0.01989  0.2761
-----

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.83    742.0  0.07513  0.2223  0.7091  0.01585  0.001388  0.7253
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6824  0.4030  0.3243  0.03834  0.1230  0.2380
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7651  0.1602  0.01405  0.3954  0.8906  0.08065

```

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3856 0.01612 0.6901 0.5058 0.1118 0.2578

mode liq bi g mu pl ilm ru ky q
0.1118 0.2578 0.02957 0 0.2968 0.009373 0 0.02163 0.2732
calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 664.5 0.06854 0.1758 0.8333 0.0088500.0006959 0.7155
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7442 0.4371 0.3115 0.03497 0.08802 0.2741
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8095 0.1506 0.009215 0.4003 0.9332 0.1862
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3983 0.005657 0.7383 0.6274 0.08324 0.2827

mode liq bi g mu pl ilm ky q
0.08324 0.28270.0006519 0 0.3121 0.01140 0.02500 0.2849

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 673.2 0.06897 0.1808 0.8222 0.0094490.0007549 0.7175
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7381 0.4343 0.3140 0.03533 0.09154 0.2694
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8052 0.1519 0.009710 0.4008 0.9269 0.1657
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3976 0.006385 0.7333 0.6161 0.08559 0.2809

mode liq bi g mu pl ilm ky q
0.08559 0.2809 0.003087 0 0.3106 0.01116 0.02455 0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 681.9 0.06950 0.1858 0.8104 0.010090.0008195 0.7193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7317 0.4313 0.3163 0.03570 0.09517 0.2648
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8008 0.1530 0.01020 0.4010 0.9212 0.1486
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3968 0.007205 0.7281 0.6041 0.08815 0.2788

mode liq bi g mu pl ilm ky q

0.08815 0.2788 0.005700 0 0.3091 0.01092 0.02412 0.2832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 690.7 0.07012 0.1910 0.7980 0.010780.0008893 0.7209
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7250 0.4281 0.3184 0.03607 0.09890 0.2603
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7961 0.1538 0.01069 0.4011 0.9159 0.1341
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3959 0.008125 0.7227 0.5913 0.09090 0.2766

mode liq bi g mu pl ilm ky q
0.09090 0.2766 0.008491 0 0.3075 0.01068 0.02369 0.2821

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 699.5 0.07082 0.1962 0.7848 0.011510.0009639 0.7223
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7182 0.4246 0.3202 0.03645 0.1027 0.2560
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7914 0.1546 0.01120 0.4009 0.9110 0.1218
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3948 0.009147 0.7172 0.5780 0.09385 0.2741

mode liq bi g mu pl ilm ky q
0.09385 0.2741 0.01146 0 0.3059 0.01044 0.02329 0.2810

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 708.2 0.07159 0.2014 0.7711 0.01228 0.001043 0.7234
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7112 0.4209 0.3217 0.03682 0.1066 0.2520
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7864 0.1555 0.01171 0.4004 0.9065 0.1112
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3935 0.01028 0.7117 0.5642 0.09699 0.2714

mode liq bi g mu pl ilm ky q
0.09699 0.2714 0.01461 0 0.3042 0.01021 0.02291 0.2797

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 716.7 0.07241 0.2066 0.7567 0.01310 0.001124 0.7243
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7042 0.4170 0.3228 0.03720 0.1105 0.2482
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7814 0.1564 0.01224 0.3997 0.9023 0.1021
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3920 0.01152 0.7061 0.5501 0.1003 0.2685

mode liq bi g mu pl ilm ky q
0.1003 0.2685 0.01795 0 0.3024 0.009989 0.02255 0.2783

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40    725.1 0.07327 0.2118 0.7419 0.01394 0.001208 0.7249
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6972 0.4128 0.3237 0.03757 0.1145 0.2446
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7763 0.1574 0.01279 0.3987 0.8983 0.09420
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.3902 0.01287 0.7007 0.5358 0.1038 0.2653

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1038 0.2653 0.02147 0 0.3007 0.009778 0.02222 0.2768

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60    733.2 0.07414 0.2168 0.7267 0.01482 0.001293 0.7253
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6902 0.4083 0.3242 0.03793 0.1185 0.2413
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7711 0.1586 0.01336 0.3973 0.8946 0.08733
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.3882 0.01434 0.6955 0.5215 0.1075 0.2619

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1075 0.2619 0.02518 0 0.2988 0.009579 0.02192 0.2751

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80    741.0 0.07502 0.2217 0.7111 0.01573 0.001378 0.7253
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6833 0.4036 0.3243 0.03830 0.1225 0.2383
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7658 0.1600 0.01397 0.3956 0.8911 0.08135
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.3859 0.01591 0.6907 0.5075 0.1113 0.2582

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1113 0.2582 0.02907 0 0.2970 0.009395 0.02166 0.2734

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00    748.6 0.07590 0.2264 0.6953 0.01667 0.001461 0.7250
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6765 0.3987 0.3241 0.03865 0.1264 0.2356
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7604 0.1616 0.01460 0.3936 0.8877 0.07614
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.3832 0.01759 0.6863 0.4941 0.1152 0.2544

mode     liq  bi  g  mu  pl  ilm  ky  q
        0.1152 0.2544 0.03313 0 0.2951 0.009226 0.02144 0.2715

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20    755.8 0.07674 0.2310 0.6795 0.01762 0.001542 0.7245

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6700 0.3934 0.3236 0.03899 0.1304 0.2331
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7550 0.1635 0.01527 0.3912 0.8845 0.07159
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3803 0.01937 0.6825 0.4815 0.1193 0.2503

mode liq bi g mu pl ilm ky q
0.1193 0.2503 0.03736 0 0.2932 0.009073 0.02126 0.2696

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 762.7 0.07755 0.2354 0.6637 0.01858 0.001619 0.7236
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6637 0.3880 0.3228 0.03932 0.1343 0.2308
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7495 0.1656 0.01598 0.3885 0.8815 0.06761
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3769 0.02125 0.6793 0.4699 0.1234 0.2460

mode liq bi g mu pl ilm ky q
0.1234 0.2460 0.04175 0 0.2912 0.008935 0.02112 0.2676

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 769.2 0.07831 0.2396 0.6481 0.01956 0.001691 0.7225
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6576 0.3824 0.3216 0.03964 0.1382 0.2287
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7439 0.1680 0.01671 0.3855 0.8785 0.06414
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3732 0.02322 0.6769 0.4597 0.1276 0.2416

mode liq bi g mu pl ilm ky q
0.1276 0.2416 0.04627 0 0.2892 0.008813 0.02103 0.2655

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 775.5 0.07901 0.2436 0.6327 0.02053 0.001758 0.7212
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6518 0.3765 0.3202 0.03994 0.1421 0.2268
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7383 0.1706 0.01749 0.3821 0.8757 0.06111
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3692 0.02527 0.6752 0.4511 0.1318 0.2370

mode liq bi g mu pl ilm ky q
0.1318 0.2370 0.05092 0 0.2872 0.008706 0.02098 0.2634

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 781.4 0.07964 0.2474 0.6178 0.02150 0.001820 0.7195
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6463 0.3705 0.3186 0.04023 0.1459 0.2250

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.7326	0.1734	0.01830	0.3786	0.8730	0.05846
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.3647	0.02741	0.6744	0.4442	0.1361	0.2323

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1361	0.2323	0.05568		0	0.2851	0.008613	0.02097 0.2612

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	786.9	0.08020	0.2510	0.6034	0.02246	0.001876	0.7177
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6411	0.3644	0.3168	0.04049	0.1497	0.2234	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7269	0.1765	0.01915	0.3747	0.8703	0.05613	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3599	0.02963	0.6744	0.4392	0.1403	0.2275	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1403	0.2275	0.06054		0	0.2830	0.008532	0.02101 0.2591

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	792.2	0.08068	0.2544	0.5895	0.02342	0.001925	0.7157
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6362	0.3582	0.3147	0.04073	0.1535	0.2219	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7211	0.1797	0.02002	0.3707	0.8677	0.05410	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3548	0.03193	0.6752	0.4360	0.1446	0.2227	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1446	0.2227	0.06547		0	0.2808	0.008464	0.02110 0.2570

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	797.3	0.08107	0.2576	0.5763	0.02435	0.001969	0.7135
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6316	0.3519	0.3126	0.04094	0.1572	0.2204	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7153	0.1831	0.02092	0.3665	0.8651	0.05231	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3492	0.03430	0.6768	0.4348	0.1487	0.2178	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1487	0.2178	0.07045		0	0.2785	0.008406	0.02123 0.2548

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	802.0	0.08140	0.2606	0.5637	0.02527	0.002007	0.7111
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6273	0.3456	0.3103	0.04113	0.1609	0.2190	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7094	0.1867	0.02185	0.3621	0.8626	0.05074	

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3433 0.03676 0.6792 0.4354 0.1529 0.2129

mode liq bi g mu pl ilm ky q
0.1529 0.2129 0.07548 0 0.2762 0.008357 0.02140 0.2527

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 806.6 0.08164 0.2635 0.5518 0.02617 0.002040 0.7086
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6233 0.3393 0.3080 0.04128 0.1646 0.2176
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7035 0.1903 0.02279 0.3576 0.8602 0.04937
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3371 0.03930 0.6824 0.4378 0.1569 0.2080

mode liq bi g mu pl ilm ky q
0.1569 0.2080 0.08054 0 0.2739 0.008317 0.02161 0.2507

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 810.9 0.08181 0.2662 0.5407 0.02705 0.002068 0.7060
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6195 0.3330 0.3055 0.04140 0.1682 0.2162
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6976 0.1940 0.02374 0.3531 0.8577 0.04815
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3305 0.04194 0.6861 0.4418 0.1609 0.2032

mode liq bi g mu pl ilm ky q
0.1609 0.2032 0.08560 0 0.2715 0.008284 0.02185 0.2486

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 815.1 0.08190 0.2687 0.5302 0.02790 0.002092 0.7033
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6160 0.3268 0.3030 0.04149 0.1718 0.2148
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6917 0.1977 0.02469 0.3485 0.8553 0.04709
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3236 0.04467 0.6905 0.4472 0.1648 0.1983

mode liq bi g mu pl ilm ky q
0.1648 0.1983 0.09067 0 0.2691 0.008257 0.02214 0.2467

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 819.0 0.08193 0.2711 0.5205 0.02873 0.002111 0.7006
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6128 0.3206 0.3005 0.04154 0.1754 0.2134
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6857 0.2014 0.02564 0.3438 0.8530 0.04615
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3164 0.04751 0.6954 0.4538 0.1686 0.1935

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1686	0.1935	0.09572		0	0.2667	0.008237	0.02245 0.2448

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	822.8	0.08189	0.2733	0.5115	0.02953	0.002127	0.6978
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6098	0.3145	0.2980	0.04155	0.1789	0.2120	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6798	0.2050	0.02657	0.3392	0.8506	0.04533	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3089	0.05047	0.7008	0.4615	0.1723	0.1888	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1723	0.1888	0.1008		0	0.2642	0.008222	0.02279 0.2429

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	826.5	0.08180	0.2754	0.5031	0.03030	0.002140	0.6949
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6071	0.3085	0.2955	0.04152	0.1825	0.2105	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6738	0.2086	0.02748	0.3346	0.8483	0.04460	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3011	0.05355	0.7066	0.4700	0.1759	0.1841	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1759	0.1841	0.1057		0	0.2618	0.008212	0.02315 0.2411

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.20	830.0	0.08164	0.2774	0.4954	0.03105	0.002151	0.6920
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6045	0.3027	0.2929	0.04145	0.1860	0.2091	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6679	0.2121	0.02836	0.3300	0.8459	0.04396	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2931	0.05678	0.7126	0.4792	0.1793	0.1795	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.1793	0.1795	0.1107		0	0.2593	0.008208	0.02353 0.2394

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.40	833.5	0.08144	0.2793	0.4884	0.03177	0.002159	0.6891
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6022	0.2969	0.2904	0.04134	0.1895	0.2075	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6620	0.2155	0.02921	0.3254	0.8436	0.04340	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2849	0.06015	0.7190	0.4889	0.1827	0.1750	

mode	liq	bi	g	mu	pl	ilm	ky	q
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0.1827 0.1750 0.1156 0 0.2569 0.008210 0.02392 0.2377

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 836.8 0.08119 0.2810 0.4819 0.03246 0.002166 0.6862
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6001 0.2913 0.2879 0.04119 0.1929 0.2060
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6561 0.2188 0.03001 0.3209 0.8413 0.04291
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2766 0.06369 0.7255 0.4989 0.1859 0.1705

mode liq bi g mu pl ilm ky q
0.1859 0.1705 0.1204 0 0.2545 0.008218 0.02432 0.2361

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 840.0 0.08090 0.2826 0.4761 0.03312 0.002171 0.6833
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5981 0.2858 0.2854 0.04100 0.1964 0.2044
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6503 0.2219 0.03076 0.3165 0.8390 0.04248
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2680 0.06742 0.7321 0.5091 0.1890 0.1661

mode liq bi g mu pl ilm ky q
0.1890 0.1661 0.1252 0 0.2521 0.008232 0.02473 0.2345

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 843.1 0.08056 0.2841 0.4708 0.03375 0.002175 0.6804
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5964 0.2804 0.2830 0.04078 0.1998 0.2028
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6444 0.2249 0.03146 0.3121 0.8367 0.04211
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2593 0.07134 0.7388 0.5193 0.1920 0.1618

mode liq bi g mu pl ilm ky q
0.1920 0.1618 0.1299 0 0.2498 0.008253 0.02515 0.2331

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 846.1 0.08019 0.2855 0.4662 0.03436 0.002178 0.6775
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5948 0.2752 0.2806 0.04052 0.2032 0.2012
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6386 0.2276 0.03210 0.3078 0.8344 0.04178
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2505 0.07548 0.7455 0.5296 0.1949 0.1575

mode liq bi g mu pl ilm ky q
0.1949 0.1575 0.1346 0 0.2476 0.008280 0.02556 0.2316

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
16.40	849.1	0.07978	0.2868	0.4620	0.03494	0.002180	0.6747			
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
		0.5934	0.2701	0.2782	0.04022	0.2066	0.1996			
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
		0.6328	0.2302	0.03269	0.3035	0.8322	0.04150			
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
		0.2416	0.07985	0.7522	0.5397	0.1977	0.1533			
		mode	liq	bi	g	mu	pl	ilm	ky	q
			0.1977	0.1533	0.1391	0	0.2454	0.008315	0.02597	0.2302

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
16.60	852.0	0.07934	0.2879	0.4585	0.03550	0.002182	0.6718			
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
		0.5922	0.2651	0.2758	0.03990	0.2099	0.1979			
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
		0.6271	0.2327	0.03321	0.2994	0.8299	0.04126			
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
		0.2327	0.08449	0.7588	0.5496	0.2003	0.1492			
		mode	liq	bi	g	mu	pl	ilm	ky	q
			0.2003	0.1492	0.1436	0	0.2433	0.008358	0.02637	0.2289

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
16.80	854.8	0.07886	0.2890	0.4555	0.03603	0.002183	0.6689			
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
		0.5911	0.2603	0.2734	0.03955	0.2132	0.1963			
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
		0.6214	0.2349	0.03368	0.2953	0.8276	0.04106			
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
		0.2237	0.08942	0.7652	0.5592	0.2028	0.1451			
		mode	liq	bi	g	mu	pl	ilm	ky	q
			0.2028	0.1451	0.1481	0	0.2413	0.008409	0.02676	0.2276

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
17.00	857.5	0.07836	0.2900	0.4530	0.03653	0.002184	0.6661			
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
		0.5902	0.2556	0.2711	0.03918	0.2165	0.1946			
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
		0.6157	0.2370	0.03409	0.2913	0.8253	0.04089			
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
		0.2146	0.09466	0.7716	0.5686	0.2052	0.1410			
		mode	liq	bi	g	mu	pl	ilm	ky	q
			0.2052	0.1410	0.1524	0	0.2393	0.008468	0.02714	0.2264

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
17.20	860.2	0.07782	0.2908	0.4512	0.03701	0.002185	0.6633		

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5894 0.2510 0.2688 0.03879 0.2197 0.1929
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6100 0.2389 0.03444 0.2873 0.8230 0.04076
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2056 0.1003 0.7778 0.5777 0.2075 0.1370

mode liq bi g mu pl ilm ky q
 0.2075 0.1370 0.1567 0 0.2375 0.008535 0.02751 0.2252

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.40 862.8 0.07725 0.2916 0.4501 0.03746 0.002186 0.6605
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5888 0.2465 0.2665 0.03837 0.2229 0.1912
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6044 0.2407 0.03474 0.2834 0.8208 0.04066
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1965 0.1063 0.7838 0.5864 0.2096 0.1331

mode liq bi g mu pl ilm ky q
 0.2096 0.1331 0.1609 0 0.2358 0.008612 0.02787 0.2241

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.60 865.4 0.07664 0.2923 0.4497 0.03789 0.002186 0.6577
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5884 0.2421 0.2642 0.03794 0.2261 0.1895
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5987 0.2423 0.03500 0.2796 0.8185 0.04059
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1874 0.1128 0.7897 0.5949 0.2116 0.1292

mode liq bi g mu pl ilm ky q
 0.2116 0.1292 0.1651 0 0.2342 0.008697 0.02822 0.2230

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.80 867.9 0.07600 0.2928 0.4501 0.03828 0.002186 0.6549
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5882 0.2378 0.2620 0.03749 0.2292 0.1878
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5931 0.2438 0.03520 0.2758 0.8162 0.04055
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1783 0.1198 0.7955 0.6031 0.2135 0.1253

mode liq bi g mu pl ilm ky q
 0.2135 0.1253 0.1692 0 0.2327 0.008791 0.02855 0.2219

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.00 870.3 0.07532 0.2933 0.4514 0.03864 0.002186 0.6521
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5881 0.2335 0.2597 0.03702 0.2323 0.1860

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.5875	0.2452	0.03537	0.2720	0.8139	0.04055
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.1692	0.1276	0.8011	0.6110	0.2153	0.1214

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2153	0.1214	0.1733		0	0.2313	0.008894	0.02888 0.2209

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.20	872.7	0.07458	0.2936	0.4539	0.03897	0.002186	0.6492
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5882	0.2294	0.2575	0.03654	0.2354	0.1843	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5819	0.2466	0.03550	0.2683	0.8116	0.04058	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1600	0.1361	0.8065	0.6187	0.2169	0.1175	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2169	0.1175	0.1774		0	0.2301	0.009006	0.02920 0.2199

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.40	875.0	0.07378	0.2938	0.4580	0.03925	0.002184	0.6463
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5886	0.2252	0.2552	0.03605	0.2384	0.1825	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5763	0.2479	0.03560	0.2645	0.8093	0.04066	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1506	0.1457	0.8119	0.6263	0.2183	0.1136	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2183	0.1136	0.1814		0	0.2289	0.009128	0.02952 0.2190

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.60	877.1	0.07289	0.2939	0.4641	0.03948	0.002182	0.6434
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5892	0.2211	0.2530	0.03553	0.2414	0.1808	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5706	0.2493	0.03567	0.2608	0.8070	0.04079	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1410	0.1567	0.8173	0.6338	0.2196	0.1097	

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2196	0.1097	0.1855		0	0.2279	0.009260	0.02985 0.2182

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.80	879.2	0.07187	0.2938	0.4731	0.03963	0.002178	0.6403
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5902	0.2170	0.2507	0.03499	0.2443	0.1790	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5649	0.2508	0.03573	0.2569	0.8047	0.04099	

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1310 0.1697 0.8227 0.6415 0.2206 0.1058

mode liq bi g mu pl ilm ky q
0.2206 0.1058 0.1897 0 0.2269 0.009403 0.03021 0.2174

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 881.0 0.07063 0.2936 0.4868 0.03966 0.002170 0.6370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5918 0.2127 0.2483 0.03440 0.2472 0.1772
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5590 0.2526 0.03579 0.2528 0.8024 0.04132
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1202 0.1859 0.8284 0.6497 0.2212 0.1017

mode liq bi g mu pl ilm ky q
0.2212 0.1017 0.1941 0 0.2261 0.009558 0.03063 0.2167

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 882.4 0.06898 0.2931 0.5095 0.03946 0.002154 0.6333
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5942 0.2082 0.2458 0.03372 0.2501 0.1754
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5529 0.2551 0.03588 0.2483 0.8001 0.04186
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1078 0.2080 0.8347 0.6590 0.2213 0.09739

mode liq bi g mu pl ilm ky q
0.2213 0.09739 0.1989 0 0.2252 0.009731 0.03118 0.2162

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40 883.0 0.06637 0.2924 0.5518 0.03867 0.002119 0.6287
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5984 0.2029 0.2429 0.03287 0.2528 0.1735
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5461 0.2594 0.03604 0.2427 0.7977 0.04295
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.09182 0.2427 0.8426 0.6713 0.2205 0.09255

mode liq bi g mu pl ilm ky q
0.2205 0.09255 0.2047 0 0.2242 0.009933 0.03205 0.2161

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 882.4 0.06259 0.2927 0.6160 0.03699 0.002055 0.6232
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6037 0.1970 0.2393 0.03187 0.2551 0.1717
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5387 0.2648 0.03620 0.2361 0.7953 0.04481
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.07341 0.2906 0.8515 0.6857 0.2190 0.08721

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2190	0.08721	0.2114		0	0.2226	0.01017	0.03319 0.2164

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.80    882.3 0.05957 0.2943 0.6636 0.03552 0.002005 0.6188
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6068 0.1921 0.2361 0.03111 0.2574 0.1701
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5321 0.2676 0.03613 0.2308 0.7929 0.04635
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.06086 0.3273 0.8575 0.6951 0.2187 0.08254

```

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2187	0.08254	0.2168		0	0.2212	0.01041	0.03388 0.2165

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00    883.0 0.05740 0.2962 0.6949 0.03448 0.001975 0.6154
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6082 0.1881 0.2332 0.03055 0.2597 0.1685
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5262 0.2685 0.03593 0.2267 0.7904 0.04739
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.05259 0.3537 0.8615 0.7010 0.2193 0.07843

```

mode	liq	bi	g	mu	pl	ilm	ky	q
	0.2193	0.07843	0.2210		0	0.2202	0.01063	0.03420 0.2162

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, (q)

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ky, (q)

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00    826.4 0.08171 0.2753 0.5043 0.03027 0.002138 0.6948
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6073 0.3084 0.2954 0.04151 0.1824 0.2106
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.6738 0.2088 0.02749 0.3344 0.8483 0.04468

```


na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2315 0.01421 0.3011 0.05339 0.7069 0.4708

mode liq bi g mu ksp pl ilm ky q
0.1755 0.1840 0.10580 0.005166 0 0.2617 0.008220 0.02303 0.2412

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 828.6 0.08060 0.2757 0.5096 0.03065 0.002127 0.6908
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6077 0.3013 0.2919 0.04139 0.1855 0.2098
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6673 0.2136 0.02850 0.3283 0.8459 0.04481
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2351 0.01427 0.2934 0.05484 0.7163 0.4877

mode liq bi g mu ksp pl ilm ky q
0.1745 0.1783 0.1115 0.006096 0 0.2584 0.008292 0.02210 0.2408

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 830.9 0.07951 0.2762 0.5151 0.03100 0.002117 0.6868
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6081 0.2945 0.2885 0.04121 0.1885 0.2089
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6609 0.2181 0.02945 0.3224 0.8436 0.04495
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2387 0.01432 0.2854 0.05635 0.7256 0.5038

mode liq bi g mu ksp pl ilm ky q
0.1736 0.1727 0.1171 0.01155 0 0.2551 0.008365 0.02123 0.2403

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 833.1 0.07842 0.2767 0.5209 0.03132 0.002107 0.6829
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6084 0.2880 0.2852 0.04098 0.1915 0.2078
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6545 0.2224 0.03032 0.3167 0.8413 0.04509
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2424 0.01437 0.2774 0.05792 0.7345 0.5190

mode liq bi g mu ksp pl ilm ky q
0.1726 0.1673 0.1225 0.01689 0 0.2519 0.008439 0.02039 0.2399

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 835.4 0.07735 0.2772 0.5270 0.03163 0.002099 0.6791
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6088 0.2817 0.2821 0.04071 0.1946 0.2066
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6482 0.2264 0.03113 0.3112 0.8390 0.04524
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2462 0.01441 0.2694 0.05956 0.7432 0.5334

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.1717	0.1621	0.1278	0.02213		0	0.2487	0.008515	0.01958 0.2396

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	837.6	0.07628	0.2778	0.5333	0.03190	0.002090	0.6755
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6091	0.2757	0.2791	0.04040	0.1977	0.2054	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6419	0.2301	0.03185	0.3058	0.8367	0.04539	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2502	0.01444	0.2613	0.06127	0.7515	0.5470	

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.1707	0.1570	0.1330	0.02726		0	0.2455	0.008594	0.01880 0.2392

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	839.8	0.07523	0.2783	0.5399	0.03216	0.002083	0.6719
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6095	0.2699	0.2762	0.04006	0.2007	0.2040	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6357	0.2335	0.03250	0.3007	0.8344	0.04554	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2541	0.01447	0.2532	0.06303	0.7595	0.5597	

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.1697	0.1520	0.1380	0.03231		0	0.2424	0.008677	0.01803 0.2389

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.40	842.0	0.07418	0.2789	0.5467	0.03239	0.002077	0.6684
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6098	0.2643	0.2733	0.03969	0.2038	0.2025	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6296	0.2366	0.03308	0.2958	0.8321	0.04569	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2582	0.01449	0.2451	0.06484	0.7672	0.5716	

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
	0.1688	0.1471	0.1428	0.03727		0	0.2394	0.008766	0.01728 0.2386

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	844.3	0.07315	0.2795	0.5536	0.03260	0.002072	0.6650
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6101	0.2589	0.2706	0.03929	0.2068	0.2010	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6235	0.2394	0.03357	0.2910	0.8298	0.04584	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2623	0.01450	0.2371	0.06671	0.7744	0.5828	

mode	liq	bi	g	mu	ksp	pl	ilm	ky	q
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0.1678 0.1423 0.1476 0.04215 0 0.2364 0.008861 0.01653 0.2383

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 846.5 0.07213 0.2801 0.5608 0.03279 0.002067 0.6616
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6103 0.2538 0.2679 0.03887 0.2098 0.1995
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6174 0.2420 0.03400 0.2864 0.8274 0.04598
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2664 0.01451 0.2292 0.06864 0.7814 0.5932

mode liq bi g mu ksp pl ilm ky q
0.1669 0.1377 0.1522 0.04696 0 0.2335 0.008961 0.01579 0.2381

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 848.7 0.07112 0.2808 0.5681 0.03296 0.002064 0.6584
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6106 0.2488 0.2653 0.03843 0.2128 0.1978
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6115 0.2442 0.03435 0.2820 0.8251 0.04611
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2706 0.01450 0.2215 0.07060 0.7880 0.6029

mode liq bi g mu ksp pl ilm ky q
0.1659 0.1331 0.1567 0.05170 0 0.2307 0.009069 0.01504 0.2378

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 851.0 0.07013 0.2814 0.5756 0.03310 0.002061 0.6553
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6108 0.2440 0.2628 0.03798 0.2158 0.1962
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6055 0.2462 0.03464 0.2777 0.8227 0.04624
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2748 0.01450 0.2138 0.07261 0.7942 0.6119

mode liq bi g mu ksp pl ilm ky q
0.1650 0.1286 0.1611 0.05638 0 0.2280 0.009184 0.01429 0.2375

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 853.2 0.06915 0.2822 0.5832 0.03324 0.002059 0.6522
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6110 0.2394 0.2603 0.03752 0.2188 0.1945
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5997 0.2480 0.03488 0.2735 0.8204 0.04636
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2790 0.01448 0.2063 0.07467 0.8001 0.6203

mode liq bi g mu ksp pl ilm ky q
0.1640 0.1242 0.1653 0.06101 0 0.2253 0.009305 0.01353 0.2373

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60    855.4 0.06818 0.2829 0.5910 0.03335 0.002058 0.6492
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6112 0.2349 0.2579 0.03705 0.2218 0.1927
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5939 0.2495 0.03505 0.2695 0.8181 0.04648
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.2832 0.01446 0.1990 0.07675 0.8056 0.6280

mode  liq  bi  g  mu  ksp  pl  ilm  ky  q
      0.1631 0.1198 0.1694 0.06559 0 0.2228 0.009434 0.01277 0.2371

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80    857.7 0.06722 0.2836 0.5989 0.03345 0.002058 0.6463
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6114 0.2306 0.2555 0.03658 0.2248 0.1910
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5881 0.2508 0.03518 0.2656 0.8157 0.04658
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.2874 0.01443 0.1919 0.07887 0.8109 0.6353

mode  liq  bi  g  mu  ksp  pl  ilm  ky  q
      0.1622 0.1155 0.1735 0.07012 0 0.2204 0.009570 0.01199 0.2368

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00    859.9 0.06628 0.2844 0.6069 0.03353 0.002058 0.6435
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6115 0.2264 0.2532 0.03611 0.2277 0.1892
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5824 0.2519 0.03526 0.2619 0.8133 0.04668
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.2916 0.01440 0.1850 0.08101 0.8158 0.6420

mode  liq  bi  g  mu  ksp  pl  ilm  ky  q
      0.1613 0.1112 0.1774 0.07461 0 0.2180 0.009714 0.01121 0.2366

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20    862.2 0.06535 0.2853 0.6151 0.03360 0.002059 0.6407
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6116 0.2224 0.2510 0.03564 0.2306 0.1874
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5768 0.2528 0.03530 0.2582 0.8110 0.04676
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.2957 0.01436 0.1782 0.08318 0.8205 0.6482

mode  liq  bi  g  mu  ksp  pl  ilm  ky  q
      0.1604 0.1070 0.1812 0.07906 0 0.2157 0.009865 0.01041 0.2363

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40    864.5 0.06443 0.2861 0.6233 0.03365 0.002060 0.6380

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6116 0.2185 0.2488 0.03517 0.2335 0.1856
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5712 0.2535 0.03531 0.2547 0.8086 0.04684
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2999 0.01432 0.1717 0.08537 0.8249 0.6539

mode liq bi g mu ksp pl ilm ky q
0.1595 0.1029 0.1849 0.08348 0 0.2135 0.01002 0.009596 0.2361

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 866.7 0.06353 0.2870 0.6316 0.03369 0.002061 0.6354
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6117 0.2147 0.2466 0.03471 0.2364 0.1838
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5656 0.2541 0.03528 0.2513 0.8063 0.04691
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3040 0.01426 0.1654 0.08758 0.8291 0.6593

mode liq bi g mu ksp pl ilm ky q
0.1586 0.09873 0.1886 0.08787 0 0.2114 0.01019 0.008772 0.2359

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 869.0 0.06264 0.2879 0.6400 0.03371 0.002063 0.6328
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6117 0.2111 0.2445 0.03424 0.2393 0.1819
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5601 0.2545 0.03522 0.2479 0.8039 0.04697
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3081 0.01421 0.1593 0.08979 0.8330 0.6642

mode liq bi g mu ksp pl ilm ky q
0.1578 0.09464 0.1921 0.09224 0 0.2093 0.01036 0.007934 0.2356

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 871.3 0.06176 0.2889 0.6484 0.03373 0.002065 0.6303
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6116 0.2075 0.2424 0.03378 0.2422 0.1801
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5547 0.2547 0.03514 0.2447 0.8015 0.04702
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3122 0.01414 0.1534 0.09202 0.8368 0.6689

mode liq bi g mu ksp pl ilm ky q
0.1569 0.09059 0.1956 0.09658 0 0.2074 0.01054 0.007084 0.2354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 873.6 0.06089 0.2899 0.6570 0.03373 0.002067 0.6278
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6115 0.2040 0.2403 0.03333 0.2451 0.1782

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5493 0.2549 0.03503 0.2416 0.7991 0.04705
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3162 0.01408 0.1477 0.09425 0.8403 0.6732

mode liq bi g mu ksp pl ilm ky q
 0.1560 0.08656 0.1990 0.1009 0 0.2055 0.01073 0.006220 0.2351

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.40 875.9 0.06003 0.2909 0.6655 0.03372 0.002070 0.6254
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6114 0.2007 0.2383 0.03288 0.2479 0.1764
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5439 0.2549 0.03491 0.2385 0.7968 0.04709
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3201 0.01400 0.1423 0.09648 0.8437 0.6772

mode liq bi g mu ksp pl ilm ky q
 0.1552 0.08255 0.2023 0.1052 0 0.2036 0.01092 0.005345 0.2349

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.60 878.2 0.05919 0.2920 0.6741 0.03370 0.002072 0.6230
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6112 0.1974 0.2363 0.03244 0.2508 0.1745
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5386 0.2548 0.03476 0.2355 0.7944 0.04711
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3241 0.01393 0.1370 0.09872 0.8469 0.6809

mode liq bi g mu ksp pl ilm ky q
 0.1544 0.07857 0.2055 0.1095 0 0.2019 0.01112 0.004457 0.2346

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.80 880.5 0.05836 0.2931 0.6827 0.03368 0.002075 0.6207
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6110 0.1942 0.2344 0.03200 0.2536 0.1726
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5333 0.2546 0.03460 0.2326 0.7920 0.04712
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3279 0.01384 0.1320 0.1009 0.8500 0.6844

mode liq bi g mu ksp pl ilm ky q
 0.1536 0.07461 0.2087 0.1137 0 0.2001 0.01133 0.003559 0.2344

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 20.00 882.8 0.05754 0.2943 0.6913 0.03364 0.002077 0.6184
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6107 0.1911 0.2325 0.03157 0.2565 0.1708
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5281 0.2543 0.03443 0.2298 0.7896 0.04713

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3318 0.01376 0.1271 0.1032 0.8529 0.6877

mode liq bi g mu ksp pl ilm ky q
0.1528 0.07067 0.2118 0.1180 0 0.1985 0.01154 0.002651 0.2341
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.34 830.0 0.07915 0.2773 0.5294 0.02953 0.002145 0.6792
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6088 0.2867 0.2811 0.05321 0.1700 0.2127
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6487 0.2119 0.03621 0.3129 0.8422 0.04564
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2450 0.01418 0.2724 0.05844 0.4773 7.298e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1680 0.1575 0.1359 0.02858 0 0.2502 0.003476 0.002793 0.01584 0.2377

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.23 840.0 0.07399 0.2806 0.5664 0.02990 0.002131 0.6590
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6107 0.2566 0.2645 0.05698 0.1757 0.2072
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6138 0.2242 0.04347 0.2852 0.8307 0.04658
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2665 0.01422 0.2297 0.06781 0.4474 5.205e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1616 0.1269 0.1671 0.05961 0 0.2342 0.002160 0.003669 0.009932 0.2349

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.12 850.0 0.06913 0.2845 0.6071 0.02971 0.002137 0.6407
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6121 0.2316 0.2501 0.06002 0.1812 0.1996
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5796 0.2288 0.04904 0.2617 0.8189 0.04737
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2890 0.01409 0.1899 0.07857 0.4215 4.055e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1556 0.09744 0.1958 0.08947 0 0.2205 0.001032 0.004495 0.003776 0.2319

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
17.68	867.0	0.07552	0.2943	0.4819	0.03497	0.002221	0.6351		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.5904	0.2212	0.2490	0.06157	0.1911	0.1895			
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
	0.5609	0.2327	0.05367	0.2548	0.8121	0.04121			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
	0.1237	0.2020	0.4134	3.650e-5	0.2241	0.09056			
mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2241	0.09056	0.2121		0	0.2323		0	0.004708 0.02751 0.2087

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, H2O, (q)

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)		
10.20	631.5	0.3754	0.2506	0.03778	0.08350	0.3291	0.7952		
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)			
	0.2065	0.01457	0.3368	0.9770	0.4646	0.3727			
	k(pl)	x(ilm)	Q(ilm)						
	0.003540	0.7447	0.6510						
mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2366	0.04222	0.08888	0.2985	0.011490	0.0006263		0	0.2958 0.02594

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)		
10.40	635.2	0.3676	0.2468	0.03925	0.08483	0.3291	0.7892		
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)			
	0.2105	0.01584	0.3311	0.9695	0.4114	0.3617			
	k(pl)	x(ilm)	Q(ilm)						
	0.003729	0.7068	0.5957						

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2301	0.05083	0.08950	0.2982	0.009913	0.001395		0	0.2934 0.02667

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)		
10.60	639.6	0.3616	0.2447	0.04040	0.08640	0.3277	0.7838		

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2135 0.01695 0.3272 0.9617 0.3676 0.3521
k(pl) x(ilm) Q(ilm)
0.003978 0.6525 0.5095

mode bi g mu pl ilm ru ky q H2O
0.2248 0.05842 0.08993 0.2978 0.008363 0.002140 0 0.2913 0.02731

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.80 645.6 0.3582 0.2451 0.04091 0.08837 0.3243 0.7789
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2124 0.01731 0.3261 0.9527 0.3231 0.3426
k(pl) x(ilm) Q(ilm)
0.004350 0.47580.0005409

mode bi g mu pl ilm ru ky q H2O
0.2202 0.06641 0.08913 0.2980 0.005874 0.003351 0 0.2890 0.02806

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 650.9 0.3526 0.2442 0.04167 0.09022 0.3217 0.7734
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2158 0.01841 0.3228 0.9461 0.2966 0.3365
k(pl) x(ilm) Q(ilm)
0.004658 0.47280.0003793

mode bi g mu pl ilm ru ky q H2O
0.2161 0.07079 0.09020 0.2974 0.005744 0.003378 0 0.2879 0.02843

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 656.6 0.3476 0.2440 0.04239 0.09224 0.3184 0.7677
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2184 0.01943 0.3200 0.9394 0.2725 0.3309
k(pl) x(ilm) Q(ilm)
0.005016 0.47060.0002981

mode bi g mu pl ilm ru ky q H2O
0.2124 0.07481 0.09110 0.2970 0.005623 0.003394 0 0.2869 0.02879

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 663.0 0.3432 0.2445 0.04307 0.09443 0.3145 0.7621
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2199 0.02034 0.3180 0.9328 0.2503 0.3259
k(pl) x(ilm) Q(ilm)
0.005435 0.46920.0002502

mode bi g mu pl ilm ru ky q H2O
0.2090 0.07844 0.09178 0.2968 0.005516 0.003398 0 0.2859 0.02915

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.60 670.0 0.3394 0.2457 0.04371 0.09683 0.3100 0.7564

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2203 0.02111 0.3167 0.9260 0.2293 0.3215
k(pl) x(ilm) Q(ilm)
0.005931 0.46880.0002199

mode bi g mu pl ilm ru ky q H2O
0.2059 0.08165 0.09216 0.2970 0.005425 0.003388 0 0.2850 0.02952

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 677.9 0.3363 0.2477 0.04431 0.09949 0.3047 0.7506
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2194 0.02169 0.3163 0.9192 0.2092 0.3180
k(pl) x(ilm) Q(ilm)
0.006530 0.46960.0002004

mode bi g mu pl ilm ru ky q H2O
0.2032 0.08434 0.09214 0.2975 0.005356 0.003361 0 0.2842 0.02991

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 686.8 0.3340 0.2508 0.04484 0.1025 0.2985 0.7448
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2169 0.02204 0.3169 0.9124 0.1898 0.3155
k(pl) x(ilm) Q(ilm)
0.007267 0.47170.0001887

mode bi g mu pl ilm ru ky q H2O
0.2010 0.08642 0.09162 0.2986 0.005317 0.003311 0 0.2834 0.03034

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 697.0 0.3328 0.2551 0.04530 0.1059 0.2914 0.7390
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2126 0.02212 0.3189 0.9055 0.1709 0.3142
k(pl) x(ilm) Q(ilm)
0.008196 0.47540.0001832

mode bi g mu pl ilm ru ky q H2O
0.1994 0.08776 0.09047 0.3003 0.005314 0.003233 0 0.2827 0.03080

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 708.8 0.3326 0.2608 0.04566 0.1097 0.2832 0.7332
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2063 0.02190 0.3222 0.8988 0.1526 0.3142
k(pl) x(ilm) Q(ilm)
0.009385 0.48110.0001834

mode bi g mu pl ilm ru ky q H2O
0.1984 0.08828 0.08861 0.3027 0.005352 0.003121 0 0.2822 0.03130

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 722.2 0.3335 0.2678 0.04591 0.1141 0.2740 0.7273

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1983 0.02141 0.3269 0.8923 0.1355 0.3153
k(pl) x(ilm) Q(ilm)
0.01091 0.48850.0001885

mode bi g mu pl ilm ru ky q H2O
0.1981 0.08801 0.08605 0.3057 0.005432 0.002972 0 0.2818 0.03185

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 737.0 0.3352 0.2758 0.04607 0.1189 0.2641 0.7214
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1890 0.02076 0.3326 0.8864 0.1200 0.3172
k(pl) x(ilm) Q(ilm)
0.01283 0.49730.0001975

mode bi g mu pl ilm ru ky q H2O
0.1984 0.08718 0.08299 0.3091 0.005541 0.002794 0 0.2815 0.03242

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 752.7 0.3373 0.2841 0.04616 0.1239 0.2541 0.7154
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1794 0.02007 0.3388 0.8810 0.1066 0.3192
k(pl) x(ilm) Q(ilm)
0.01518 0.50670.0002080

mode bi g mu pl ilm ru ky q H2O
0.1989 0.08615 0.07969 0.3126 0.005664 0.002598 0 0.2814 0.03300

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.20 768.7 0.3392 0.2923 0.04622 0.1291 0.2442 0.7093
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1701 0.01945 0.3448 0.8764 0.09537 0.3210
k(pl) x(ilm) Q(ilm)
0.01797 0.51610.0002176

mode bi g mu pl ilm ru ky q H2O
0.1994 0.08523 0.07642 0.3160 0.005786 0.002398 0 0.2812 0.03358

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.40 784.7 0.3409 0.2999 0.04628 0.1342 0.2349 0.7032
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1616 0.01896 0.3504 0.8723 0.08601 0.3222
k(pl) x(ilm) Q(ilm)
0.02120 0.52480.0002240

mode bi g mu pl ilm ru ky q H2O
0.1997 0.08463 0.07332 0.3191 0.005897 0.002204 0 0.2810 0.03416

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.60 800.4 0.3420 0.3069 0.04636 0.1393 0.2263 0.6971

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1541 0.01862 0.3554 0.8688 0.07823 0.3228
k(pl) x(ilm) Q(ilm)
0.02490 0.53270.0002261

mode bi g mu pl ilm ru ky q H2O
0.1996 0.08445 0.07043 0.3220 0.005992 0.002022 0 0.2807 0.03474

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.80 815.7 0.3426 0.3130 0.04648 0.1442 0.2183 0.6909
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1476 0.01842 0.3596 0.8656 0.07172 0.3228
k(pl) x(ilm) Q(ilm)
0.02909 0.53970.0002236

mode bi g mu pl ilm ru ky q H2O
0.1992 0.08474 0.06778 0.3247 0.006069 0.001858 0 0.2803 0.03533

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.00 830.6 0.3426 0.3184 0.04664 0.1489 0.2110 0.6846
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1420 0.01835 0.3631 0.8627 0.06622 0.3221
k(pl) x(ilm) Q(ilm)
0.03381 0.54570.0002170

mode bi g mu pl ilm ru ky q H2O
0.1982 0.08553 0.06534 0.3273 0.006127 0.001715 0 0.2798 0.03594

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.20 844.9 0.3420 0.3231 0.04686 0.1535 0.2044 0.6783
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1373 0.01841 0.3658 0.8600 0.06155 0.3208
k(pl) x(ilm) Q(ilm)
0.03909 0.55070.0002073

mode bi g mu pl ilm ru ky q H2O
0.1968 0.08683 0.06312 0.3298 0.006165 0.001596 0 0.2792 0.03656

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.40 858.7 0.3408 0.3270 0.04714 0.1579 0.1984 0.6718
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1335 0.01859 0.3678 0.8576 0.05756 0.3189
k(pl) x(ilm) Q(ilm)
0.04498 0.55470.0001954

mode bi g mu pl ilm ru ky q H2O
0.1947 0.08867 0.06108 0.3322 0.006182 0.001503 0 0.2784 0.03721

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.60 871.8 0.3390 0.3302 0.04749 0.1621 0.1929 0.6653

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1305 0.01888 0.3690 0.8553 0.05413 0.3164
k(pl) x(ilm) Q(ilm)
0.05152 0.55760.0001822

mode bi g mu pl ilm ru ky q H2O
0.1922 0.09106 0.05922 0.3347 0.006177 0.001438 0 0.2774 0.03789

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.80 884.2 0.3365 0.3326 0.04792 0.1661 0.1881 0.6585
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1282 0.01928 0.3693 0.8531 0.05117 0.3132
k(pl) x(ilm) Q(ilm)
0.05875 0.55950.0001685

mode bi g mu pl ilm ru ky q H2O
0.1890 0.09404 0.05754 0.3371 0.006148 0.001404 0 0.2762 0.03861

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.00 895.9 0.3333 0.3344 0.04843 0.1698 0.1838 0.6516
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1267 0.01981 0.3688 0.8510 0.04864 0.3094
k(pl) x(ilm) Q(ilm)
0.06670 0.56030.0001547

mode bi g mu pl ilm ru ky q H2O
0.1851 0.09764 0.05602 0.3396 0.006092 0.001404 0 0.2748 0.03937

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.20 906.7 0.3295 0.3354 0.04904 0.1733 0.1799 0.6445
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1259 0.02047 0.3674 0.8489 0.04646 0.3048
k(pl) x(ilm) Q(ilm)
0.07540 0.55990.0001415

mode bi g mu pl ilm ru ky q H2O
0.1805 0.1019 0.05468 0.3420 0.006009 0.001441 0 0.2732 0.04017

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.40 916.7 0.3249 0.3358 0.04975 0.1766 0.1766 0.6370
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1259 0.02126 0.3651 0.8469 0.04462 0.2995
k(pl) x(ilm) Q(ilm)
0.08486 0.55840.0001289

mode bi g mu pl ilm ru ky q H2O
0.1752 0.1069 0.05354 0.3445 0.005894 0.001516 0 0.2714 0.04101

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.60 925.7 0.3196 0.3354 0.05056 0.1796 0.1737 0.6293

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1267 0.02221 0.3618 0.8450 0.04308 0.2935
k(pl) x(ilm) Q(ilm)
0.09506 0.55560.0001171

mode bi g mu pl ilm ru ky q H2O
0.1691 0.1126 0.05263 0.3470 0.005745 0.001633 0 0.2694 0.04189

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.80 933.7 0.3135 0.3344 0.05149 0.1823 0.1712 0.6212
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1283 0.02334 0.3575 0.8430 0.04183 0.2865
k(pl) x(ilm) Q(ilm)
0.1059 0.55170.0001061

mode bi g mu pl ilm ru ky q H2O
0.1623 0.1192 0.05197 0.3493 0.005559 0.001791 0 0.2671 0.04281

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.00 940.6 0.3066 0.3326 0.05253 0.1848 0.1691 0.6126
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1307 0.02465 0.3522 0.8410 0.04085 0.2787
k(pl) x(ilm) Q(ilm)
0.1175 0.5464 9.593e-5

mode bi g mu pl ilm ru ky q H2O
0.1546 0.1265 0.05162 0.3516 0.005333 0.001992 0 0.2647 0.04376

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.20 946.5 0.2991 0.3302 0.05367 0.1869 0.1673 0.6037
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1338 0.02617 0.3459 0.8389 0.04014 0.2700
k(pl) x(ilm) Q(ilm)
0.1295 0.5399 8.671e-5

mode bi g mu pl ilm ru ky q H2O
0.1462 0.1347 0.05162 0.3535 0.005063 0.002234 0 0.2620 0.04472

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 951.4 0.2909 0.3272 0.05492 0.1888 0.1658 0.5944
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1378 0.02791 0.3388 0.8368 0.03968 0.2604
k(pl) x(ilm) Q(ilm)
0.1419 0.5323 7.838e-5

mode bi g mu pl ilm ru ky q H2O
0.1371 0.1436 0.05202 0.3552 0.004749 0.002515 0 0.2592 0.04568

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.60 955.3 0.2823 0.3237 0.05625 0.1904 0.1644 0.5847

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1423 0.02986 0.3309 0.8347 0.03948 0.2498
k(pl) x(ilm) Q(ilm)
0.1546 0.5237 7.091e-5

mode bi g mu pl ilm ru ky q H2O
0.1273 0.1533 0.05286 0.3564 0.004389 0.002830 0 0.2563 0.04663

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.80 958.3 0.2733 0.3197 0.05763 0.1918 0.1631 0.5747
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1475 0.03201 0.3223 0.8325 0.03951 0.2384
k(pl) x(ilm) Q(ilm)
0.1674 0.5143 6.428e-5

mode bi g mu pl ilm ru ky q H2O
0.1171 0.1636 0.05416 0.3572 0.003986 0.003173 0 0.2532 0.04756

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.00 960.5 0.2642 0.3154 0.05905 0.1929 0.1619 0.5644
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1529 0.03434 0.3134 0.8303 0.03978 0.2261
k(pl) x(ilm) Q(ilm)
0.1803 0.5042 5.844e-5

mode bi g mu pl ilm ru ky q H2O
0.1064 0.1744 0.05590 0.3575 0.003544 0.003540 0 0.2502 0.04845

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.20 962.1 0.2550 0.3108 0.06047 0.1939 0.1606 0.5540
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1585 0.03677 0.3042 0.8280 0.04025 0.2132
k(pl) x(ilm) Q(ilm)
0.1932 0.4937 5.332e-5

mode bi g mu pl ilm ru ky q H2O
0.09554 0.1857 0.05801 0.3573 0.003070 0.003921 0 0.2471 0.04930

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.40 963.2 0.2460 0.3061 0.06186 0.1946 0.1594 0.5435
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1640 0.03927 0.2950 0.8257 0.04090 0.1998
k(pl) x(ilm) Q(ilm)
0.2060 0.4831 4.887e-5

mode bi g mu pl ilm ru ky q H2O
0.08449 0.1972 0.06038 0.3569 0.002573 0.004310 0 0.2441 0.05013

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.60 963.9 0.2373 0.3014 0.06321 0.1953 0.1581 0.5330

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1691 0.04174 0.2859 0.8233 0.04171 0.1862
k(pl) x(ilm) Q(ilm)
0.2188 0.4725 4.501e-5

mode bi g mu pl ilm ru ky q H2O
0.07340 0.2088 0.06289 0.3562 0.002067 0.004700 0 0.2410 0.05093

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.80 964.4 0.2289 0.2967 0.06450 0.1958 0.1567 0.5226
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1737 0.04412 0.2771 0.8209 0.04264 0.1725
k(pl) x(ilm) Q(ilm)
0.2317 0.4622 4.167e-5

mode bi g mu pl ilm ru ky q H2O
0.06234 0.2204 0.06536 0.3555 0.001564 0.005085 0 0.2380 0.05172

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.00 964.8 0.2210 0.2920 0.06571 0.1963 0.1552 0.5123
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1776 0.04636 0.2686 0.8185 0.04364 0.1591
k(pl) x(ilm) Q(ilm)
0.2447 0.4522 3.878e-5

mode bi g mu pl ilm ru ky q H2O
0.05136 0.2318 0.06764 0.3551 0.001075 0.005463 0 0.2350 0.05254

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.20 965.2 0.2135 0.2876 0.06684 0.1968 0.1536 0.5022
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1807 0.04842 0.2606 0.8161 0.04469 0.1461
k(pl) x(ilm) Q(ilm)
0.2578 0.4427 3.627e-5

mode bi g mu pl ilm ru ky q H2O
0.04049 0.2430 0.06959 0.35500.0006094 0.005831 0 0.2320 0.05340

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.40 965.8 0.2065 0.2833 0.06790 0.1973 0.1519 0.4922
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1831 0.05027 0.2530 0.8137 0.04575 0.1337
k(pl) x(ilm) Q(ilm)
0.2712 0.4337 3.407e-5

mode bi g mu pl ilm ru ky q H2O
0.02971 0.2540 0.07111 0.35550.0001744 0.006187 0 0.2290 0.05431

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	687.2	0.06518	0.1883	0.8211	0.010730	0.0008151	0.7007
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7332	0.3941	0.2939	0.03801	0.1009	0.2779	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7816	0.1794	0.01382	0.3710	0.9147	0.1491	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3831	0.007410	0.7231	0.5937	0.08521	0.2494	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.08521	0.2494	0.03265	0.02923	0.2978	0.010550	0.0003379	0.01611	0.2787	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	686.2	0.06293	0.1880	0.8313	0.010650	0.0007871	0.6913
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7360	0.3788	0.2827	0.04025	0.1010	0.2847	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7740	0.1915	0.01613	0.3574	0.9141	0.1568	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3730	0.007228	0.6561	0.4851	0.08270	0.2363	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.08270	0.2363	0.04784	0.04341	0.2910	0.008431	0.001503	0.01222	0.2767	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	684.8	0.06064	0.1877	0.8421	0.010500	0.0007585	0.6815
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7388	0.3642	0.2720	0.04185	0.1010	0.2908	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7663	0.2032	0.01834	0.3439	0.9139	0.1664	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3609	0.007049	0.49820	0.006463	0.08010	0.2235	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.08010	0.2235	0.06367	0.05755	0.2831	0.005940	0.002853	0.008451	0.2748	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	683.6	0.05849	0.1874	0.8517	0.010380	0.0007292	0.6714
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7416	0.3498	0.2621	0.04332	0.1011	0.2957	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7583	0.2166	0.02101	0.3304	0.9139	0.1762	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3501	0.006860	0.48410	0.002996	0.07771	0.2132	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.07771	0.2132	0.07475	0.06958	0.2763	0.005575	0.003102	0.005940	0.2739	0	

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.80    682.1  0.05634  0.1872  0.8614  0.010210.0006995  0.6610
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7443  0.3358  0.2524  0.04471  0.1011  0.2999
          x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
          0.7501  0.2301  0.02396  0.3170  0.9143  0.1882
          ca(pl) k(pl)  x(ilm) Q(ilm)  liq   bi
          0.3379  0.006670  0.47000.0001916  0.07522  0.2033
  
```

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.07522	0.2033	0.08578	0.08156	0.2687	0.005178	0.003347	0.003616	0.2733	0	

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.00    680.4  0.05418  0.1870  0.8713  0.0099760.0006699  0.6503
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7470  0.3223  0.2429  0.04602  0.1009  0.3033
          x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
          0.7416  0.2435  0.02713  0.3039  0.9156  0.2033
          ca(pl) k(pl)  x(ilm) Q(ilm)  liq   bi
          0.3242  0.006475  0.45600.0001392  0.07253  0.1940
  
```

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.07253	0.1940	0.09676	0.09372	0.2603	0.004750	0.003588	0.001378	0.2729	0	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.12    679.2  0.05287  0.1869  0.8772  0.0098100.0006524  0.6438
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7487  0.3144  0.2373  0.04676  0.1008  0.3050
          x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
          0.7364  0.2514  0.02912  0.2960  0.9168  0.2144
          ca(pl) k(pl)  x(ilm) Q(ilm)  liq   bi
          0.3153  0.006355  0.44760.0001189  0.07075  0.1885
  
```

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O	
	0.07075	0.1885	0.1034	0.1013	0.2549	0.004477	0.003732	0	0.2729	0	

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.84 679.6 0.05500 0.1880 0.8706 0.0095600.0006982 0.6604
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7455 0.3358 0.2483 0.04442 0.1001 0.3035
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7494 0.2190 0.02178 0.3163 0.9178 0.2053
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3174 0.006666 0.46990.0001975 0 0.2027

mode liq bi g mu pl ilm ru ky q H2O
0 0.2027 0.08482 0.09208 0.2977 0.005346 0.003353 0 0.2840 0.03000
calcs use:
composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 679.5 0.05383 0.1873 0.8740 0.0097390.0006725 0.6511
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7473 0.3235 0.2421 0.04577 0.1005 0.3045
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7421 0.2376 0.02583 0.3048 0.9170 0.2093
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3173 0.006486 0.45720.0001442 0.04173 0.1946

mode liq bi g mu pl ilm ru ky q H2O
0.04173 0.1946 0.09527 0.09701 0.2732 0.004874 0.003566 0 0.2773 0.01244

```

```

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, g, pl, ilm, ru, ky, H2O, (q)
-----

```

```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 681.7 0.06325 0.1867 0.7856 0.010820.0006599 0.7246
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7370 0.4348 0.3128 0.03599 0.09879 0.2646
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

```

0.8151 0.2169 0.01834 0.3831 0.008673 0.7205

Q(ilm)

0.5927

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
	0.05475	0.2815	0.004257	0.3217	0.01054			0	0.02476 0.2895 0.01299

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	684.2	0.06367	0.1897	0.8338	0.0098880	0.008106	0.7014
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7342	0.3961	0.2910	0.03731	0.09965	0.2811
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7820	0.1669	0.01203	0.3721	0.9177	0.1627
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3570	0.007516	0.7378	0.6174	0	0.2506

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0	0.2506	0.02982	0.03975	0.3295	0.01127	4.032e-5	0.01334	0.2929	0.03279

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	683.3	0.06158	0.1892	0.8426	0.0098610	0.0007850	0.6921
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7370	0.3811	0.2799	0.03959	0.09984	0.2877
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7746	0.1786	0.01410	0.3587	0.9171	0.1703
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3489	0.007315	0.6821	0.5312	0	0.2377

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0	0.2377	0.04446	0.05307	0.3226	0.009217	0.001170	0.009465	0.2901	0.03218

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	682.1	0.05941	0.1889	0.8521	0.0097480	0.0007587	0.6826
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7397	0.3666	0.2693	0.04133	0.09989	0.2938
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7671	0.1897	0.01611	0.3455	0.9171	0.1804
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3383	0.007119	0.50040	0.009255	0	0.2246

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0	0.2246	0.06123	0.06700	0.3142	0.006116	0.002832	0.005360	0.2871	0.03147

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.60    681.1  0.05741  0.1884  0.8604  0.0096910.0007317  0.6727
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7424  0.3524  0.2596  0.04277  0.1000  0.2987
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7592  0.2028  0.01850  0.3322  0.9171  0.1903
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.3296  0.006913  0.48660.0003532  0  0.2144

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0  0.2144  0.07195  0.07838  0.3072  0.005784  0.003070  0.002829  0.2856  0.03084
-----

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```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.80    679.9  0.05540  0.1881  0.8688  0.0095870.0007039  0.6625
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7450  0.3385  0.2502  0.04415  0.1001  0.3028
        x(g)  z(g)  f(g)  fe(mu)  y(mu)  na(mu)
        0.7511  0.2162  0.02120  0.3190  0.9177  0.2025
        ca(pl)  k(pl)  x(ilm)  Q(ilm)  liq  bi
        0.3196  0.006708  0.47270.0002137  0  0.2046

mode  liq  bi  g  mu  pl  ilm  ru  ky  q  H2O
      0  0.2046  0.08265  0.08976  0.2994  0.005423  0.0033060.0004645  0.2842  0.03015
-----

```

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, mu, pl, ilm, ky, H2O, (q)

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
9.60     684.1  0.07718  0.1956  0.7878  0.0087100.0007051  0.7217
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7151  0.4408  0.3477  0.03567  0.09661  0.2442
        fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
        0.4068  0.9276  0.1393  0.3678  0.009238  0.7195
        Q(ilm)
        0.5898

mode  liq  bi  mu  pl  ilm  ky  q  H2O
      0  0.28850.0003577  0.3429  0.01049  0.02184  0.3015  0.03443
-----

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```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
9.80     684.4  0.07520  0.1946  0.7941  0.0089150.0007435  0.7228
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7179  0.4407  0.3411  0.03559  0.09633  0.2480
        fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
        0.4075  0.9260  0.1415  0.3680  0.008962  0.7202
        Q(ilm)
        0.5909

```

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2878	0.001369	0.3427	0.01054	0.02213	0.3010	0.03436	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	684.6	0.07327	0.1936	0.8002	0.0091260	0.0007835	0.7238
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7208	0.4406	0.3345	0.03550	0.09605	0.2518	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4083	0.9244	0.1439	0.3682	0.008693	0.7210	
	Q(ilm)						
	0.5919						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2872	0.002375	0.3425	0.01060	0.02241	0.3006	0.03429	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	684.8	0.07139	0.1926	0.8061	0.0093430	0.0008251	0.7248
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7235	0.4405	0.3280	0.03540	0.09576	0.2556	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4091	0.9228	0.1462	0.3685	0.008432	0.7217	
	Q(ilm)						
	0.5928						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2866	0.003376	0.3423	0.01065	0.02268	0.3002	0.03422	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	685.0	0.06955	0.1917	0.8119	0.0095660	0.0008684	0.7258
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7262	0.4403	0.3216	0.03529	0.09547	0.2594	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4098	0.9212	0.1487	0.3687	0.008177	0.7223	
	Q(ilm)						
	0.5937						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2860	0.004373	0.3421	0.01071	0.02295	0.2997	0.03415	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	685.2	0.06776	0.1907	0.8175	0.0097940	0.0009134	0.7267
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7288	0.4402	0.3152	0.03516	0.09518	0.2632	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4105	0.9196	0.1512	0.3689	0.007929	0.7230	
	Q(ilm)						
	0.5946						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
------	-----	----	----	----	-----	----	---	-----

0 0.2853 0.005365 0.3419 0.01077 0.02322 0.2993 0.03408

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 685.3 0.06602 0.1898 0.8229 0.010030.0009602 0.7277
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7313 0.4401 0.3088 0.03503 0.09489 0.2670
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4112 0.9179 0.1537 0.3691 0.007687 0.7235
Q(ilm)
0.5954

mode liq bi mu pl ilm ky q H2O
0 0.2847 0.006353 0.3418 0.01082 0.02348 0.2989 0.03401

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 685.5 0.06432 0.1889 0.8282 0.01027 0.001009 0.7286
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7338 0.4400 0.3025 0.03489 0.09459 0.2707
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4118 0.9163 0.1563 0.3693 0.007451 0.7241
Q(ilm)
0.5962

mode liq bi mu pl ilm ky q H2O
0 0.2841 0.007338 0.3416 0.01088 0.02374 0.2984 0.03394

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 685.6 0.06266 0.1879 0.8333 0.01052 0.001059 0.7295
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7362 0.4398 0.2962 0.03474 0.09429 0.2745
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4125 0.9147 0.1591 0.3695 0.007221 0.7247
Q(ilm)
0.597

mode liq bi mu pl ilm ky q H2O
0 0.2835 0.008319 0.3414 0.01094 0.02400 0.2980 0.03387

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 685.6 0.06104 0.1870 0.8383 0.01078 0.001112 0.7304
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7385 0.4397 0.2900 0.03458 0.09398 0.2783
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4131 0.9130 0.1618 0.3697 0.006997 0.7252
Q(ilm)
0.5977

mode liq bi mu pl ilm ky q H2O
0 0.2829 0.009298 0.3412 0.01100 0.02424 0.2976 0.03380

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 685.7 0.05946 0.1861 0.8431 0.01104 0.001166 0.7313
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7408 0.4396 0.2838 0.03441 0.09367 0.2820
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4137 0.9114 0.1647 0.3699 0.006777 0.7256
Q(ilm)
0.5984

mode liq bi mu pl ilm ky q H2O
0 0.2823 0.01027 0.3410 0.01106 0.02449 0.2972 0.03373

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 685.7 0.05791 0.1851 0.8478 0.01131 0.001222 0.7322
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7430 0.4395 0.2777 0.03423 0.09336 0.2857
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4143 0.9097 0.1677 0.3701 0.006563 0.7261
Q(ilm)
0.5991

mode liq bi mu pl ilm ky q H2O
0 0.2817 0.01125 0.3408 0.01111 0.02473 0.2968 0.03365

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 685.7 0.05641 0.1842 0.8524 0.01158 0.001281 0.7330
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7452 0.4393 0.2717 0.03404 0.09304 0.2895
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4149 0.9081 0.1709 0.3704 0.006354 0.7265
Q(ilm)
0.5997

mode liq bi mu pl ilm ky q H2O
0 0.2811 0.01222 0.3406 0.01117 0.02496 0.2964 0.03358

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 685.7 0.05494 0.1833 0.8568 0.01187 0.001341 0.7339
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7474 0.4392 0.2657 0.03384 0.09271 0.2932
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4155 0.9065 0.1741 0.3706 0.006150 0.7269
Q(ilm)
0.6004

mode liq bi mu pl ilm ky q H2O
0 0.2805 0.01319 0.3404 0.01123 0.02518 0.2960 0.03351

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 685.6 0.05350 0.1823 0.8611 0.01216 0.001404 0.7347

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7495 0.4391 0.2598 0.03363 0.09238 0.2969
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4160 0.9049 0.1775 0.3708 0.005950 0.7273
Q(ilm)

0.601

mode liq bi mu pl ilm ky q H2O
0 0.2799 0.01417 0.3401 0.01130 0.02540 0.2956 0.03343

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 685.5 0.05210 0.1814 0.8653 0.01246 0.001469 0.7355
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7516 0.4390 0.2539 0.03342 0.09205 0.3006
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4165 0.9033 0.1810 0.3711 0.005754 0.7277
Q(ilm)

0.6016

mode liq bi mu pl ilm ky q H2O
0 0.2794 0.01514 0.3399 0.01136 0.02562 0.2952 0.03336

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 685.4 0.05073 0.1804 0.8693 0.01277 0.001536 0.7362
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7536 0.4388 0.2481 0.03319 0.09170 0.3042
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4170 0.9018 0.1847 0.3713 0.005563 0.7280
Q(ilm)

0.6022

mode liq bi mu pl ilm ky q H2O
0 0.2788 0.01612 0.3397 0.01142 0.02582 0.2949 0.03328

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 685.2 0.04939 0.1794 0.8733 0.01309 0.001606 0.7370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7556 0.4387 0.2424 0.03295 0.09135 0.3079
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4175 0.9003 0.1887 0.3715 0.005376 0.7284
Q(ilm)

0.6027

mode liq bi mu pl ilm ky q H2O
0 0.2782 0.01710 0.3395 0.01148 0.02602 0.2945 0.03320

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 685.0 0.04808 0.1784 0.8771 0.01341 0.001678 0.7377
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7575 0.4386 0.2367 0.03271 0.09099 0.3116

fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4179 0.8988 0.1928 0.3718 0.005192 0.7287
Q(ilm)

0.6033

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2777	0.01809	0.3392	0.01154	0.02622	0.2941	0.03312	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 684.8 0.04680 0.1774 0.8809 0.01375 0.001752 0.7384
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7595 0.4384 0.2311 0.03245 0.09062 0.3152
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4183 0.8974 0.1972 0.3721 0.005013 0.7290
Q(ilm)

0.6039

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2771	0.01908	0.3390	0.01161	0.02640	0.2938	0.03304	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 684.6 0.04555 0.1764 0.8845 0.01409 0.001829 0.7391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7614 0.4383 0.2256 0.03219 0.09025 0.3189
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4187 0.8960 0.2019 0.3723 0.004837 0.7293
Q(ilm)

0.6044

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2765	0.02009	0.3388	0.01167	0.02657	0.2934	0.03295	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 684.3 0.04432 0.1754 0.8880 0.01444 0.001909 0.7398
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7633 0.4382 0.2201 0.03191 0.08986 0.3225
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4191 0.8948 0.2070 0.3726 0.004664 0.7295
Q(ilm)

0.605

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2760	0.02111	0.3385	0.01174	0.02674	0.2931	0.03286	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 683.9 0.04312 0.1743 0.8915 0.01481 0.001991 0.7405
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7651 0.4381 0.2146 0.03163 0.08946 0.3261
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4195 0.8936 0.2124 0.3729 0.004495 0.7298

Q(ilm)

0.6056

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2754	0.02214	0.3382	0.01180	0.02689	0.2928	0.03277	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	683.6	0.04195	0.1733	0.8948	0.01518	0.002076	0.7411
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7669	0.4379	0.2093	0.03134	0.08906	0.3297
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4198	0.8926	0.2183	0.3733	0.004329	0.7301
		Q(ilm)					

0.6061

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2749	0.02319	0.3379	0.01187	0.02703	0.2925	0.03267	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	683.2	0.04080	0.1722	0.8981	0.01556	0.002164	0.7417
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7687	0.4378	0.2039	0.03103	0.08864	0.3333
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4201	0.8917	0.2248	0.3736	0.004166	0.7303
		Q(ilm)					

0.6067

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2743	0.02427	0.3376	0.01194	0.02716	0.2921	0.03257	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	682.7	0.03968	0.1710	0.9012	0.01596	0.002255	0.7423
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7705	0.4376	0.1987	0.03072	0.08821	0.3369
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4204	0.8911	0.2320	0.3740	0.004006	0.7306
		Q(ilm)					

0.6073

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2738	0.02538	0.3373	0.01201	0.02726	0.2919	0.03246	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	682.2	0.03858	0.1699	0.9043	0.01636	0.002349	0.7429
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7723	0.4375	0.1935	0.03040	0.08776	0.3405
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4206	0.8907	0.2400	0.3744	0.003849	0.7308
		Q(ilm)					

0.608

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2732	0.02653	0.3369	0.01208	0.02735	0.2916	0.03235	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	681.6	0.03750	0.1687	0.9073	0.01678	0.002446	0.7434
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7741	0.4374	0.1883	0.03007	0.08730	0.3441	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4209	0.8906	0.2491	0.3748	0.003694	0.7311	
	Q(ilm)						
	0.6086						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2727	0.02773	0.3365	0.01215	0.02742	0.2913	0.03222	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.20	681.0	0.03645	0.1675	0.9103	0.01722	0.002547	0.7440
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7759	0.4372	0.1832	0.02973	0.08683	0.3477	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4211	0.8910	0.2596	0.3754	0.003542	0.7313	
	Q(ilm)						
	0.6093						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2722	0.02902	0.3360	0.01222	0.02745	0.2910	0.03208	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.40	680.4	0.03542	0.1663	0.9131	0.01766	0.002652	0.7445
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7776	0.4371	0.1782	0.02938	0.08634	0.3514	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4213	0.8920	0.2722	0.3760	0.003392	0.7315	
	Q(ilm)						
	0.6099						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0	0.2716	0.03040	0.3355	0.01229	0.02744	0.2908	0.03192	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.60	679.7	0.03441	0.1650	0.9159	0.01813	0.002762	0.7450
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7794	0.4369	0.1732	0.02903	0.08583	0.3550	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4214	0.8941	0.2879	0.3767	0.003245	0.7318	
	Q(ilm)						
	0.6106						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
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0 0.2711 0.03196 0.3348 0.01237 0.02735 0.2906 0.03173

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 679.0 0.03343 0.1637 0.9186 0.01862 0.002877 0.7454
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7811 0.4368 0.1683 0.02866 0.08532 0.3586
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4215 0.8978 0.3091 0.3777 0.003099 0.7320
Q(ilm)
0.6113

mode liq bi mu pl ilm ky q H2O
0 0.2706 0.03381 0.3340 0.01244 0.02715 0.2905 0.03148

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 678.3 0.03249 0.1623 0.9210 0.01916 0.002999 0.7459
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7828 0.4366 0.1635 0.02829 0.08481 0.3621
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4217 0.9059 0.3447 0.3793 0.002957 0.7322
Q(ilm)
0.6119

mode liq bi mu pl ilm ky q H2O
0 0.2702 0.03647 0.3325 0.01251 0.02664 0.2906 0.03110

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 821.7 0.08349 0.2751 0.5042 0.02868 0.002172 0.6972
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6071 0.3159 0.2967 0.04955 0.1650 0.2148
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6777 0.1961 0.02955 0.3391 0.8515 0.04493
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2294 0.01401 0.3063 0.05212 0.50510.0001085

mode liq bi g mu ksp pl ilm ru ky q
0.1733 0.1844 0.1083 0.001802 0 0.2641 0.004595 0.002032 0.02104 0.2404

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.80 824.0 0.08230 0.2757 0.5105 0.02896 0.002164 0.6922
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6076 0.3075 0.2923 0.05060 0.1664 0.2145
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6698 0.2009 0.03138 0.3317 0.8490 0.04511
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2334 0.01407 0.2974 0.05371 0.4972 9.589e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1719	0.1768	0.1160	0.009237		0	0.2604	0.004293	0.002243	0.01956 0.2396

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 826.2 0.08112 0.2762 0.5173 0.02921 0.002156 0.6872
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6080 0.2994 0.2880 0.05161 0.1677 0.2140
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6619 0.2053 0.03321 0.3245 0.8465 0.04530
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2376 0.01412 0.2882 0.05540 0.4896 8.586e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1705	0.1695	0.1235	0.01655		0	0.2566	0.003989	0.002451	0.01813 0.2389

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 828.5 0.07994 0.2769 0.5244 0.02941 0.002149 0.6824
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6085 0.2917 0.2838 0.05258 0.1691 0.2133
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6540 0.2093 0.03501 0.3175 0.8439 0.04550
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2420 0.01416 0.2788 0.05718 0.4822 7.773e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1690	0.1623	0.1309	0.02376		0	0.2528	0.003683	0.002656	0.01675 0.2382

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 830.7 0.07877 0.2775 0.5319 0.02958 0.002143 0.6777
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6089 0.2843 0.2798 0.05351 0.1704 0.2124
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6462 0.2130 0.03678 0.3108 0.8414 0.04571
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2465 0.01419 0.2693 0.05906 0.4750 7.093e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1676	0.1552	0.1382	0.03087		0	0.2490	0.003378	0.002858	0.01540 0.2375

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 833.0 0.07760 0.2782 0.5397 0.02971 0.002138 0.6730
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6094 0.2772 0.2759 0.05440 0.1717 0.2113
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6383 0.2164 0.03850 0.3043 0.8388 0.04592
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2511 0.01421 0.2598 0.06102 0.4681 6.523e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1661	0.1482	0.1454	0.03789		0	0.2453	0.003076	0.003057	0.01408 0.2369

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 835.2 0.07645 0.2789 0.5479 0.02980 0.002135 0.6685
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6098 0.2704 0.2721 0.05526 0.1730 0.2102
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6305 0.2193 0.04015 0.2980 0.8363 0.04614
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2559 0.01423 0.2502 0.06308 0.4613 6.039e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1647	0.1414	0.1524	0.04483		0	0.2417	0.002779	0.003254	0.01277 0.2362

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 837.4 0.07530 0.2796 0.5563 0.02986 0.002132 0.6640
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6102 0.2638 0.2685 0.05608 0.1743 0.2088
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6227 0.2218 0.04174 0.2920 0.8337 0.04635
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2607 0.01423 0.2407 0.06523 0.4547 5.622e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1633	0.1346	0.1593	0.05171		0	0.2381	0.002488	0.003447	0.01146 0.2356

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 839.6 0.07417 0.2804 0.5650 0.02989 0.002131 0.6596
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6106 0.2576 0.2650 0.05686 0.1755 0.2074
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6150 0.2239 0.04324 0.2861 0.8311 0.04655
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.2657 0.01423 0.2312 0.06745 0.4484 5.259e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1619	0.1279	0.1660	0.05852		0	0.2347	0.002205	0.003639	0.01014 0.2350

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.40 841.9 0.07305 0.2812 0.5739 0.02990 0.002131 0.6554
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6110 0.2515 0.2616 0.05760 0.1768 0.2058
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6073 0.2256 0.04466 0.2805 0.8285 0.04675
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2707 0.01421 0.2219 0.06975 0.4422 4.940e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1605	0.1213	0.1727	0.06529		0	0.2314	0.001931	0.003827	0.008812 0.2343

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 844.1 0.07194 0.2821 0.5829 0.02987 0.002131 0.6512
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6113 0.2457 0.2583 0.05831 0.1780 0.2042
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5996 0.2269 0.04599 0.2751 0.8258 0.04694
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2757 0.01419 0.2127 0.07212 0.4363 4.658e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1591	0.1147	0.1792	0.07202		0	0.2282	0.001667	0.004014	0.007459 0.2337

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 846.4 0.07085 0.2830 0.5921 0.02983 0.002133 0.6471
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6116 0.2401 0.2551 0.05899 0.1792 0.2025
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5919 0.2279 0.04723 0.2698 0.8232 0.04711
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2808 0.01416 0.2038 0.07455 0.4305 4.407e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1577	0.1081	0.1857	0.07872		0	0.2251	0.001415	0.004200	0.006076 0.2330

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 848.6 0.06977 0.2839 0.6014 0.02976 0.002136 0.6431
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6119 0.2347 0.2520 0.05964 0.1804 0.2007
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5843 0.2285 0.04838 0.2647 0.8206 0.04727
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2859 0.01412 0.1951 0.07703 0.4248 4.181e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1564	0.1015	0.1920	0.08540		0	0.2222	0.001173	0.004384	0.004659 0.2324

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 850.9 0.06871 0.2849 0.6108 0.02967 0.002139 0.6391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6121 0.2295 0.2490 0.06026 0.1816 0.1988
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5767 0.2288 0.04945 0.2598 0.8179 0.04742
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.2910 0.01407 0.1867 0.07956 0.4194 3.977e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1551	0.09486	0.1982	0.09208		0	0.21940	0.0009438	0.004567	0.003201 0.2317

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.40 853.2 0.06767 0.2859 0.6202 0.02957 0.002142 0.6352

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6123 0.2245 0.2460 0.06086 0.1828 0.1969

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5691 0.2288 0.05043 0.2550 0.8152 0.04756

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.2961 0.01401 0.1785 0.08213 0.4140 3.792e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1538	0.08822	0.2044	0.09876		0	0.21670	0.0007263	0.004750	0.001698 0.2309

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.60 855.4 0.06665 0.2870 0.6297 0.02945 0.002146 0.6314

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6125 0.2196 0.2431 0.06143 0.1840 0.1949

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5615 0.2285 0.05132 0.2503 0.8125 0.04768

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.3011 0.01395 0.1707 0.08474 0.4088 3.622e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1525	0.08153	0.2105	0.1055		0	0.21420	0.0005208	0.0049330	0.0001467 0.2302

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.00 749.0 0.07604 0.2268 0.6941 0.01669 0.001468 0.7253

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6760 0.3989 0.3242 0.03904 0.1262 0.2353

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7603 0.1611 0.01471 0.3939 0.8876 0.07583

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.3827 0.01773 0.6669 0.4570 0.1155 0.2541

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1155	0.2541	0.03410		0	0.2949	0.0087020	0.0002629	0.02129 0.2712

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.20 756.7 0.07707 0.2319 0.6766 0.01766 0.001558 0.7250
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6687 0.3940 0.3239 0.03982 0.1298 0.2326
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7548 0.1622 0.01548 0.3919 0.8844 0.07096
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3791 0.01973 0.6335 0.3794 0.1199 0.2496

mode liq bi g mu pl ilm ru ky q
 0.1199 0.2496 0.03956 0 0.2926 0.0079130.0005850 0.02092 0.2689

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.40 764.1 0.07811 0.2369 0.6587 0.01865 0.001647 0.7245
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6615 0.3889 0.3232 0.04053 0.1334 0.2301
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7492 0.1634 0.01624 0.3897 0.8812 0.06668
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3749 0.02190 0.5804 0.2154 0.1246 0.2447

mode liq bi g mu pl ilm ru ky q
 0.1246 0.2447 0.04556 0 0.2903 0.0069680.0009975 0.02055 0.2664

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 770.9 0.07903 0.2414 0.6415 0.01965 0.001727 0.7234
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6549 0.3832 0.3220 0.04123 0.1368 0.2280
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7433 0.1653 0.01708 0.3866 0.8782 0.06306
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3707 0.02411 0.5515 0.001851 0.1291 0.2398

mode liq bi g mu pl ilm ru ky q
 0.1291 0.2398 0.05094 0 0.2881 0.006506 0.001180 0.02035 0.2640

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 777.3 0.07984 0.2456 0.6249 0.02064 0.001799 0.7218
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6487 0.3770 0.3204 0.04198 0.1401 0.2263
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7372 0.1677 0.01804 0.3830 0.8753 0.05996
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3663 0.02636 0.54830.0007913 0.1337 0.2348

mode liq bi g mu pl ilm ru ky q
 0.1337 0.2348 0.05594 0 0.2860 0.006371 0.001208 0.02028 0.2617

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 783.4 0.08059 0.2497 0.6086 0.02163 0.001864 0.7200
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6428 0.3706 0.3184 0.04276 0.1433 0.2247
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7310 0.1703 0.01907 0.3790 0.8725 0.05724
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3615 0.02873 0.54480.0004949 0.1382 0.2297

mode liq bi g mu pl ilm ru ky q
0.1382 0.2297 0.06114 0 0.2839 0.006224 0.001250 0.02026 0.2594

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 789.1 0.08127 0.2535 0.5928 0.02261 0.001924 0.7179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6372 0.3641 0.3163 0.04356 0.1464 0.2232
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7248 0.1731 0.02016 0.3747 0.8697 0.05487
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3562 0.03122 0.54080.0003558 0.1429 0.2244

mode liq bi g mu pl ilm ru ky q
0.1429 0.2244 0.06652 0 0.2816 0.006063 0.001306 0.02028 0.2570

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 794.6 0.08187 0.2572 0.5775 0.02357 0.001978 0.7155
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6319 0.3574 0.3139 0.04437 0.1494 0.2219
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7184 0.1761 0.02131 0.3702 0.8670 0.05278
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3504 0.03383 0.53650.0002753 0.1475 0.2189

mode liq bi g mu pl ilm ru ky q
0.1475 0.2189 0.07208 0 0.2794 0.005890 0.001375 0.02034 0.2545

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 799.8 0.08239 0.2607 0.5628 0.02451 0.002025 0.7129
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6269 0.3506 0.3114 0.04521 0.1522 0.2206
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7118 0.1793 0.02254 0.3655 0.8644 0.05095
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3442 0.03658 0.53190.0002229 0.1521 0.2134

mode liq bi g mu pl ilm ru ky q
0.1521 0.2134 0.07778 0 0.2770 0.005705 0.001456 0.02043 0.2521

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 804.7 0.08283 0.2640 0.5488 0.02543 0.002066 0.7102
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6222 0.3438 0.3087 0.04606 0.1550 0.2194
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7052 0.1825 0.02382 0.3606 0.8617 0.04935
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3375 0.03945 0.52700.0001865 0.1568 0.2078

mode liq bi g mu pl ilm ru ky q
0.1568 0.2078 0.08362 0 0.2746 0.005508 0.001549 0.02057 0.2496

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 809.4 0.08319 0.2671 0.5355 0.02632 0.002102 0.7072
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6177 0.3369 0.3059 0.04692 0.1577 0.2182
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6985 0.1858 0.02516 0.3555 0.8592 0.04794
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3304 0.04248 0.52190.0001592 0.1613 0.2021

mode liq bi g mu pl ilm ru ky q
0.1613 0.2021 0.08957 0 0.2721 0.005299 0.001652 0.02075 0.2472

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 813.8 0.08347 0.2701 0.5230 0.02718 0.002132 0.7041
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6136 0.3300 0.3031 0.04778 0.1603 0.2170
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6917 0.1891 0.02655 0.3503 0.8566 0.04671
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3228 0.04568 0.51660.0001385 0.1659 0.1963

mode liq bi g mu pl ilm ru ky q
0.1659 0.1963 0.09561 0 0.2696 0.005079 0.001764 0.02096 0.2448

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 818.1 0.08367 0.2730 0.5112 0.02801 0.002158 0.7009
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6097 0.3231 0.3001 0.04864 0.1628 0.2157
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6848 0.1925 0.02799 0.3450 0.8540 0.04562
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3148 0.04905 0.51120.0001222 0.1703 0.1906

mode liq bi g mu pl ilm ru ky q
0.1703 0.1906 0.1017 0 0.2670 0.004848 0.001884 0.02120 0.2424

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 822.2 0.08380 0.2756 0.5002 0.02880 0.002179 0.6976
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6061 0.3163 0.2971 0.04950 0.1652 0.2145
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6779 0.1958 0.02947 0.3396 0.8515 0.04467
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.3063 0.05263 0.50560.0001091 0.1747 0.1848

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1747	0.1848	0.1079	0	0.2644	0.004609	0.002012	0.02147	0.2400

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 826.1 0.08385 0.2781 0.4900 0.02955 0.002197 0.6941
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6028 0.3096 0.2941 0.05035 0.1675 0.2132
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6708 0.1990 0.03098 0.3342 0.8490 0.04384
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2975 0.05644 0.5000 9.830e-5 0.1790 0.1790

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1790	0.1790	0.1142	0	0.2618	0.004360	0.002146	0.02177	0.2377

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 829.8 0.08384 0.2805 0.4805 0.03027 0.002212 0.6906
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5998 0.3029 0.2910 0.05120 0.1698 0.2119
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6637 0.2021 0.03250 0.3288 0.8465 0.04311
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2883 0.06051 0.4942 8.925e-5 0.1832 0.1732

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1832	0.1732	0.1205	0	0.2592	0.004105	0.002286	0.02209	0.2354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 833.4 0.08376 0.2827 0.4719 0.03094 0.002224 0.6870
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5970 0.2964 0.2880 0.05203 0.1719 0.2105
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6566 0.2051 0.03404 0.3234 0.8440 0.04247
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2787 0.06487 0.4885 8.168e-5 0.1874 0.1674

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1874	0.1674	0.1268	0	0.2566	0.003842	0.002431	0.02243	0.2332

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 836.9 0.08363 0.2848 0.4640 0.03158 0.002234 0.6834
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5944 0.2899 0.2849 0.05285 0.1740 0.2091
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6494 0.2079 0.03558 0.3180 0.8414 0.04191
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2688 0.06957 0.4827 7.516e-5 0.1914 0.1617

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1914	0.1617	0.1331	0	0.2540	0.003575	0.002581	0.02277	0.2310

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.60	840.3	0.08343	0.2868	0.4569	0.03217	0.002242	0.6797
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5921	0.2836	0.2819	0.05366	0.1760	0.2076	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6421	0.2105	0.03712	0.3127	0.8389	0.04143	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2586	0.07466	0.4770	6.953e-5	0.1952	0.1559	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1952	0.1559	0.1395	0	0.2515	0.003303	0.002735	0.02313	0.2288

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.80	843.5	0.08317	0.2885	0.4506	0.03273	0.002248	0.6760
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5901	0.2774	0.2788	0.05445	0.1779	0.2061	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6348	0.2130	0.03864	0.3073	0.8364	0.04101	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2482	0.08020	0.4712	6.462e-5	0.1990	0.1501	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1990	0.1501	0.1458	0	0.2490	0.003027	0.002892	0.02348	0.2267

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	846.7	0.08286	0.2902	0.4452	0.03324	0.002254	0.6722
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5883	0.2713	0.2758	0.05523	0.1798	0.2045	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6274	0.2152	0.04014	0.3020	0.8339	0.04066	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2374	0.08626	0.4654	6.029e-5	0.2027	0.1442	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2027	0.1442	0.1522	0	0.2467	0.002749	0.003054	0.02384	0.2246

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	849.7	0.08249	0.2916	0.4407	0.03372	0.002258	0.6684
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5868	0.2653	0.2728	0.05599	0.1816	0.2029	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6200	0.2173	0.04163	0.2967	0.8314	0.04037	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2264	0.09294	0.4597	5.646e-5	0.2062	0.1384	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2062	0.1384	0.1586	0	0.2444	0.002468	0.003219	0.02419	0.2225

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
16.40	852.6	0.08205	0.2929	0.4372	0.03415	0.002261	0.6645			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.5856	0.2594	0.2698	0.05674	0.1833	0.2012				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.6126	0.2192	0.04310	0.2915	0.8288	0.04014				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2151	0.1004	0.4540	5.303e-5	0.2095	0.1325				
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q
		0.2095	0.1325	0.1651		0	0.2423	0.002185	0.003389	0.02454 0.2205

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
16.60	855.5	0.08154	0.2941	0.4349	0.03453	0.002263	0.6606			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.5846	0.2537	0.2667	0.05748	0.1849	0.1995				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.6051	0.2210	0.04455	0.2863	0.8263	0.03997				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.2035	0.1088	0.4482	4.994e-5	0.2127	0.1266				
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q
		0.2127	0.1266	0.1716		0	0.2403	0.001899	0.003563	0.02489 0.2185

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
16.80	858.2	0.08095	0.2950	0.4340	0.03486	0.002263	0.6566			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.5840	0.2479	0.2637	0.05820	0.1864	0.1978				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.5975	0.2226	0.04599	0.2810	0.8237	0.03986				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.1915	0.1184	0.4425	4.712e-5	0.2157	0.1205				
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q
		0.2157	0.1205	0.1782		0	0.2384	0.001608	0.003742	0.02523 0.2166

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
17.00	860.7	0.08025	0.2956	0.4352	0.03513	0.002262	0.6524			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.5839	0.2422	0.2607	0.05892	0.1878	0.1960				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.5897	0.2242	0.04745	0.2757	0.8211	0.03984				
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi				
	0.1789	0.1296	0.4366	4.454e-5	0.2185	0.1144				
	mode	liq	bi	g	mu	pl	ilm	ru	ky	q
		0.2185	0.1144	0.1850		0	0.2367	0.001308	0.003929	0.02558 0.2147

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
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17.20  863.1 0.07939 0.2959 0.4392 0.03533 0.002259 0.6480
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5843 0.2365 0.2576 0.05965 0.1891 0.1941
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5818 0.2258 0.04896 0.2702 0.8185 0.03991
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.1656 0.1433 0.4305 4.212e-5 0.2209 0.1080

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2209 0.1080 0.1920 0 0.23520.0009925 0.004126 0.02597 0.2128

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40  865.2 0.07826 0.2958 0.4482 0.03539 0.002252 0.6433
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5855 0.2306 0.2543 0.06039 0.1902 0.1923
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5736 0.2278 0.05061 0.2644 0.8159 0.04016
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.1508 0.1609 0.4242 3.982e-5 0.2229 0.1013

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2229 0.1013 0.1995 0 0.23390.0006450 0.004340 0.02643 0.2110

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60  866.7 0.07658 0.2950 0.4673 0.03521 0.002235 0.6378
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5883 0.2242 0.2507 0.06120 0.1910 0.1903
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.5649 0.2308 0.05261 0.2580 0.8133 0.04074
      ca(pl) k(pl) x(ilm) Q(ilm) liq bi
      0.1330 0.1865 0.4169 3.752e-5 0.2241 0.09398

```

```

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.2241 0.09398 0.2080 0 0.23280.0002236 0.004586 0.02709 0.2093

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00  911.5 0.1120 0.3304 0.3464 0.04757 0.003309 0.5927
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5000 0.1820 0.2666 0.06309 0.2161 0.1515
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.4527 0.1099 0.02694 0.2172 0.1542 0.4326
      Q(ilm)

```


3.80E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
0.3450	0	0.2561	0.2394	0.004493	0.0062390	0.0002091	0.1485	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	910.7	0.1094	0.3282	0.3525	0.04760	0.003220	0.5917
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5053	0.1808	0.2641	0.06352	0.2154	0.1518	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4532	0.1172	0.02872	0.2032	0.1675	0.4274	
	Q(ilm)						

3.66E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
0.3393	0	0.2587	0.2391	0.004124	0.006311	0.001676	0.1507	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.40	909.4	0.1065	0.3251	0.3638	0.04752	0.003123	0.5902
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5118	0.1793	0.2615	0.06400	0.2144	0.1522	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4538	0.1260	0.03093	0.1861	0.1866	0.4216	
	Q(ilm)						

3.52E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
0.3323	0	0.2619	0.2389	0.003672	0.006396	0.003461	0.1533	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	906.1	0.1017	0.3191	0.3977	0.04705	0.002980	0.5872
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5237	0.1770	0.2580	0.06469	0.2121	0.1528	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4548	0.1409	0.03471	0.1564	0.2295	0.4133	
	Q(ilm)						

3.34E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
0.3201	0	0.2674	0.2390	0.002900	0.006533	0.006510	0.1575	

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 711.0 0.1441 0.2123 0.7972 0.007338 0.002006 0.6945
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6151 0.4151 0.4114 0.03507 0.09441 0.2083
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7225 0.01731 0.002164 0.4136 0.007059 0.7296
Q(ilm)
0.5909

mode liq bi g pl ilm ky q H2O
0.1269 0.2694 0.01676 0.2996 0.01121 0.01086 0.2653 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 710.0 0.1405 0.2113 0.8001 0.007381 0.001963 0.6957
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6211 0.4161 0.4075 0.03510 0.09419 0.2105
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7249 0.01848 0.002192 0.4129 0.007012 0.7299
Q(ilm)
0.5918

mode liq bi g pl ilm ky q H2O
0.1244 0.2701 0.01600 0.3001 0.01121 0.01162 0.2665 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 709.1 0.1370 0.2104 0.8027 0.007430 0.001921 0.6969
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6269 0.4170 0.4035 0.03512 0.09400 0.2128
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7273 0.01974 0.002223 0.4123 0.006973 0.7301
Q(ilm)
0.5927

mode liq bi g pl ilm ky q H2O
0.1221 0.2708 0.01529 0.3005 0.01120 0.01235 0.2677 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 708.1 0.1337 0.2095 0.8050 0.007484 0.001879 0.6981
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6324 0.4179 0.3996 0.03514 0.09385 0.2151
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7297 0.02109 0.002258 0.4116 0.006940 0.7303
Q(ilm)
0.5935

mode liq bi g pl ilm ky q H2O
0.1199 0.2714 0.01461 0.3010 0.01120 0.01304 0.2688 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 707.2 0.1304 0.2087 0.8072 0.007546 0.001839 0.6992

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6377 0.4188 0.3958 0.03517 0.09373 0.2172
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7320 0.02255 0.002299 0.4110 0.006913 0.7304
Q(ilm)

0.5942

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1179	0.2720	0.01398	0.3014	0.01119	0.01369	0.2698		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 706.4 0.1271 0.2079 0.8092 0.007616 0.001801 0.7004
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6428 0.4196 0.3920 0.03519 0.09365 0.2194
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7343 0.02412 0.002344 0.4104 0.006893 0.7305
Q(ilm)

0.5948

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1160	0.2726	0.01338	0.3018	0.01118	0.01431	0.2708		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 705.6 0.1238 0.2071 0.8109 0.007691 0.001763 0.7015
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6478 0.4204 0.3882 0.03522 0.09360 0.2215
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7366 0.02581 0.002395 0.4099 0.006878 0.7305
Q(ilm)

0.5952

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1141	0.2731	0.01282	0.3022	0.01117	0.01490	0.2717		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 704.9 0.1207 0.2063 0.8126 0.007772 0.001726 0.7026
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6526 0.4211 0.3845 0.03524 0.09357 0.2236
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7389 0.02764 0.002452 0.4093 0.006868 0.7305
Q(ilm)

0.5956

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1124	0.2736	0.01229	0.3025	0.01116	0.01547	0.2726		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 704.1 0.1176 0.2056 0.8140 0.007859 0.001690 0.7037
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6572 0.4218 0.3809 0.03526 0.09357 0.2256

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7412 0.02962 0.002516 0.4088 0.006863 0.7305
Q(ilm)

0.596

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1108	0.2740	0.01178	0.3029	0.01115	0.01601	0.2734		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 703.4 0.1145 0.2048 0.8152 0.007952 0.001653 0.7048
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6617 0.4225 0.3773 0.03529 0.09359 0.2276
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7435 0.03176 0.002588 0.4082 0.006863 0.7304
Q(ilm)

0.5962

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1092	0.2744	0.01131	0.3032	0.01114	0.01653	0.2741		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 702.7 0.1116 0.2040 0.8163 0.008050 0.001617 0.7059
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6660 0.4231 0.3737 0.03531 0.09363 0.2297
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7458 0.03409 0.002669 0.4077 0.006867 0.7303
Q(ilm)

0.5964

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1078	0.2748	0.01086	0.3036	0.01113	0.01704	0.2749		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 702.0 0.1087 0.2033 0.8172 0.008154 0.001581 0.7070
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6702 0.4237 0.3701 0.03533 0.09369 0.2316
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7481 0.03662 0.002759 0.4072 0.006875 0.7301
Q(ilm)

0.5966

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1064	0.2752	0.01043	0.3039	0.01112	0.01753	0.2755		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 701.3 0.1059 0.2025 0.8180 0.008262 0.001544 0.7080
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6743 0.4243 0.3666 0.03536 0.09378 0.2336
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7505 0.03939 0.002862 0.4067 0.006888 0.7299

Q(ilm)

0.5967

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1050	0.2755	0.01003	0.3042	0.01110	0.01800	0.2762	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 700.6 0.1032 0.2018 0.8185 0.008377 0.001508 0.7090

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6782 0.4248 0.3631 0.03538 0.09388 0.2356

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7529 0.04240 0.002977 0.4061 0.006905 0.7297

Q(ilm)

0.5967

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1037	0.2758	0.009659	0.3045	0.01109	0.01845	0.2768	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 700.0 0.1006 0.2010 0.8189 0.008496 0.001471 0.7100

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6821 0.4254 0.3596 0.03541 0.09400 0.2375

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7553 0.04570 0.003109 0.4056 0.006926 0.7295

Q(ilm)

0.5968

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1025	0.2761	0.009307	0.3048	0.01107	0.01890	0.2774	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 699.3 0.09797 0.2002 0.8191 0.008620 0.001434 0.7110

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6858 0.4259 0.3562 0.03543 0.09414 0.2394

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7578 0.04933 0.003259 0.4051 0.006952 0.7293

Q(ilm)

0.5967

mode	liq	bi	g	pl	ilm	ky	q	H2O
0.1014	0.2763	0.008978	0.3051	0.01106	0.01933	0.2779	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 698.6 0.09545 0.1995 0.8192 0.008750 0.001396 0.7120

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6895 0.4263 0.3528 0.03546 0.09430 0.2413

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7604 0.05331 0.003432 0.4045 0.006983 0.7290

Q(ilm)

0.5967

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.1003	0.2766	0.008675	0.3053	0.01104	0.01974	0.2784		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
8.40	697.9	0.09298	0.1987	0.8191	0.008884	0.001357	0.7129	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6930	0.4268	0.3495	0.03548	0.09448	0.2432		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7630	0.05771	0.003630	0.4040	0.007018	0.7287		
	Q(ilm)							
	0.5966							

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.09919	0.2768	0.008396	0.3056	0.01102	0.02015	0.2789		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
8.60	697.2	0.09058	0.1979	0.8187	0.009023	0.001318	0.7138	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6965	0.4272	0.3462	0.03551	0.09468	0.2450		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7657	0.06257	0.003860	0.4034	0.007058	0.7283		
	Q(ilm)							
	0.5964							

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.09817	0.2770	0.008144	0.3059	0.01100	0.02054	0.2793		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
8.80	696.4	0.08824	0.1971	0.8182	0.009168	0.001278	0.7147	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6999	0.4276	0.3430	0.03554	0.09490	0.2468		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7684	0.06796	0.004129	0.4029	0.007104	0.7280		
	Q(ilm)							
	0.5963							

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.09719	0.2771	0.007920	0.3061	0.01098	0.02092	0.2797		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
9.00	695.7	0.08596	0.1963	0.8174	0.009316	0.001237	0.7155	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7032	0.4279	0.3398	0.03557	0.09514	0.2486		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7713	0.07395	0.004445	0.4023	0.007156	0.7276		
	Q(ilm)							
	0.5961							

mode	liq	bi	g	pl	ilm	ky	q	H2O	
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0.09625 0.2773 0.007725 0.3064 0.01096 0.02129 0.2801 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 694.9 0.08373 0.1955 0.8165 0.009470 0.001194 0.7163
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7064 0.4283 0.3367 0.03560 0.09540 0.2504
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7743 0.08064 0.004818 0.4017 0.007215 0.7272
Q(ilm)
0.5959

mode liq bi g pl ilm ky q H2O
0.09535 0.2774 0.007562 0.3066 0.01094 0.02165 0.2805 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 694.1 0.08155 0.1946 0.8152 0.009627 0.001151 0.7171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7096 0.4285 0.3336 0.03564 0.09568 0.2522
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7773 0.08813 0.005264 0.4010 0.007280 0.7268
Q(ilm)
0.5957

mode liq bi g pl ilm ky q H2O
0.09448 0.2774 0.007436 0.3069 0.01092 0.02200 0.2808 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 693.2 0.07942 0.1938 0.8137 0.009789 0.001106 0.7178
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7127 0.4287 0.3307 0.03568 0.09599 0.2539
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7805 0.09654 0.005801 0.4003 0.007354 0.7263
Q(ilm)
0.5955

mode liq bi g pl ilm ky q H2O
0.09364 0.2775 0.007349 0.3071 0.01089 0.02233 0.2812 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 692.3 0.07733 0.1929 0.8119 0.009954 0.001060 0.7185
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7158 0.4289 0.3278 0.03573 0.09632 0.2556
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7839 0.1060 0.006453 0.3996 0.007437 0.7259
Q(ilm)
0.5953

mode liq bi g pl ilm ky q H2O
0.09284 0.2775 0.007307 0.3073 0.01087 0.02266 0.2815 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.00 691.3 0.07529 0.1920 0.8097 0.01012 0.001011 0.7191
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7188 0.4290 0.3249 0.03578 0.09668 0.2572
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7873 0.1167 0.007252 0.3988 0.007531 0.7254
 Q(ilm)
 0.5951

mode liq bi g pl ilm ky q H2O
 0.09207 0.2775 0.007318 0.3075 0.01084 0.02298 0.2818 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.20 690.3 0.07329 0.1911 0.8071 0.010290 0.0009611 0.7197
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7218 0.4291 0.3222 0.03584 0.09708 0.2588
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7909 0.1288 0.008240 0.3979 0.007638 0.7250
 Q(ilm)
 0.595

mode liq bi g pl ilm ky q H2O
 0.09132 0.2774 0.007390 0.3077 0.01081 0.02329 0.2820 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.40 689.1 0.07133 0.1902 0.8040 0.010460 0.0009087 0.7202
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7248 0.4291 0.3196 0.03591 0.09752 0.2604
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7947 0.1425 0.009473 0.3970 0.007760 0.7245
 Q(ilm)
 0.5949

mode liq bi g pl ilm ky q H2O
 0.09061 0.2773 0.007536 0.3079 0.01077 0.02359 0.2823 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.60 687.9 0.06940 0.1893 0.8004 0.010630 0.0008538 0.7206
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7277 0.4289 0.3171 0.03599 0.09799 0.2619
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.7985 0.1582 0.01103 0.3959 0.007899 0.7242
 Q(ilm)
 0.595

mode liq bi g pl ilm ky q H2O
 0.08992 0.2772 0.007770 0.3080 0.01073 0.02389 0.2825 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.80 686.5 0.06750 0.1883 0.7962 0.010800 0.0007964 0.7208

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7306 0.4287 0.3148 0.03608 0.09852 0.2634
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8025 0.1759 0.01300 0.3946 0.008060 0.7238
Q(ilm)

0.5952

mode liq bi g pl ilm ky q H2O
0.08926 0.2770 0.008113 0.3081 0.01069 0.02419 0.2827 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 685.0 0.06562 0.1873 0.7912 0.010960.0007361 0.7210
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7336 0.4283 0.3126 0.03619 0.09910 0.2649
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8066 0.1961 0.01552 0.3931 0.008248 0.7236
Q(ilm)

0.5957

mode liq bi g pl ilm ky q H2O
0.08863 0.2767 0.008594 0.3081 0.01064 0.02450 0.2829 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 683.2 0.06376 0.1863 0.7853 0.011110.0006729 0.7209
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7365 0.4278 0.3106 0.03632 0.09975 0.2662
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8108 0.2191 0.01876 0.3913 0.008469 0.7237
Q(ilm)

0.5967

mode liq bi g pl ilm ky q H2O
0.08802 0.2763 0.009249 0.3080 0.01059 0.02482 0.2831 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 681.2 0.06189 0.1853 0.7783 0.011250.0006065 0.7207
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7395 0.4271 0.3089 0.03646 0.1005 0.2676
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8151 0.2452 0.02295 0.3890 0.008732 0.7240
Q(ilm)

0.5983

mode liq bi g pl ilm ky q H2O
0.08744 0.2758 0.01013 0.3077 0.01052 0.02517 0.2832 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 678.8 0.06000 0.1842 0.7698 0.011360.0005372 0.7202
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7426 0.4261 0.3074 0.03662 0.1013 0.2688

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8193 0.2748 0.02835 0.3861 0.009050 0.7249
Q(ilm)

0.6009

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.08687	0.2752	0.01132	0.3072	0.01043	0.02557	0.2834		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 675.9 0.05808 0.1830 0.7597 0.011430.0004650 0.7193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7458 0.4249 0.3061 0.03681 0.1022 0.2701
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8236 0.3083 0.03531 0.3823 0.009440 0.7268
Q(ilm)

0.6052

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.08633	0.2744	0.01292	0.3064	0.01033	0.02607	0.2835		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 672.3 0.05609 0.1818 0.7472 0.011440.0003906 0.7180
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7492 0.4232 0.3053 0.03700 0.1033 0.2713
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8278 0.3460 0.04421 0.3771 0.009928 0.7303
Q(ilm)

0.6121

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.08580	0.2734	0.01509	0.3051	0.01018	0.02672	0.2837		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 667.7 0.05396 0.1805 0.7320 0.011360.0003152 0.7160
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7529 0.4211 0.3048 0.03719 0.1045 0.2725
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8320 0.3884 0.05542 0.3698 0.01055 0.7364
Q(ilm)

0.6232

mode	liq	bi	g	pl	ilm	ky	q	H2O	
	0.08526	0.2722	0.01808	0.3030	0.009988	0.02765	0.2839		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 661.8 0.05163 0.1791 0.7132 0.011130.0002407 0.7132
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7572 0.4183 0.3048 0.03730 0.1059 0.2740
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8362 0.4355 0.06915 0.3593 0.01137 0.7470

Q(ilm)

0.6411

mode	liq	bi	g	pl	ilm	ky	q	H2O	
0.08469	0.2706	0.02223	0.2997	0.009710	0.02901	0.2841	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.60	653.8	0.04898	0.1774	0.6903	0.010700	0.0001708	0.7091
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7621	0.4149	0.3052	0.03718	0.1076	0.2758
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8406	0.4868	0.08502	0.3437	0.01247	0.7647

Q(ilm)

0.6693

mode	liq	bi	g	pl	ilm	ky	q	H2O	
0.08403	0.2687	0.02799	0.2945	0.009316	0.03109	0.2844	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	643.0	0.04587	0.1753	0.6633	0.0099700	0.0001107	0.7036
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7683	0.4108	0.3059	0.03651	0.1094	0.2786
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8456	0.5405	0.1012	0.3208	0.01393	0.7922

Q(ilm)

0.7103

mode	liq	bi	g	pl	ilm	ky	q	H2O	
0.08316	0.2664	0.03573	0.2868	0.008792	0.03418	0.2849	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	628.8	0.04222	0.1724	0.6333	0.008912	6.494e-5	0.6964
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7760	0.4066	0.3065	0.03480	0.1111	0.2830
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8517	0.5934	0.1143	0.2887	0.01580	0.8281

Q(ilm)

0.7612

mode	liq	bi	g	pl	ilm	ky	q	H2O	
0.08189	0.2641	0.04527	0.2764	0.008204	0.03844	0.2857	0		

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, pl, ilm, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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5.00 718.8 0.1418 0.2057 0.8801 0.007663 0.006896 0.7100
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6167 0.4328 0.3651 0.03239 0.08286 0.2344
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4168 0.003994 0.7407 0.6038 0.1209 0.2820

mode liq bi pl ilm ky q H2O
0.1209 0.2820 0.2985 0.01190 0.01755 0.2692 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 717.7 0.1384 0.2053 0.8801 0.007700 0.006500 0.7106
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6225 0.4332 0.3627 0.03248 0.08303 0.2359
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4162 0.004039 0.7406 0.6042 0.1188 0.2821

mode liq bi pl ilm ky q H2O
0.1188 0.2821 0.2989 0.01188 0.01806 0.2702 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 716.6 0.1351 0.2049 0.8799 0.007743 0.006128 0.7113
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6281 0.4335 0.3603 0.03256 0.08322 0.2373
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4156 0.004088 0.7405 0.6046 0.1169 0.2823

mode liq bi pl ilm ky q H2O
0.1169 0.2823 0.2994 0.01186 0.01854 0.2710 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 715.6 0.1319 0.2045 0.8796 0.007792 0.005779 0.7120
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6334 0.4338 0.3578 0.03264 0.08343 0.2387
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4150 0.004141 0.7403 0.6049 0.1150 0.2824

mode liq bi pl ilm ky q H2O
0.1150 0.2824 0.2998 0.01184 0.01899 0.2719 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 714.5 0.1288 0.2041 0.8792 0.007847 0.005451 0.7127
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6386 0.4341 0.3554 0.03272 0.08367 0.2401
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4144 0.004197 0.7400 0.6051 0.1133 0.2825

mode liq bi pl ilm ky q H2O
0.1133 0.2825 0.3003 0.01182 0.01942 0.2726 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.00 713.5 0.1257 0.2036 0.8787 0.007909 0.005147 0.7133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6435 0.4344 0.3530 0.03280 0.08392 0.2415
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4138 0.004255 0.7398 0.6052 0.1117 0.2826

mode liq bi pl ilm ky q H2O
0.1117 0.2826 0.3007 0.01179 0.01982 0.2734 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 712.6 0.1227 0.2032 0.8781 0.007978 0.004869 0.7140
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6483 0.4346 0.3506 0.03288 0.08420 0.2428
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4132 0.004316 0.7395 0.6052 0.1101 0.2827

mode liq bi pl ilm ky q H2O
0.1101 0.2827 0.3011 0.01177 0.02020 0.2741 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 711.7 0.1196 0.2027 0.8775 0.008054 0.004609 0.7147
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6530 0.4348 0.3483 0.03296 0.08449 0.2441
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4127 0.004379 0.7391 0.6052 0.1087 0.2828

mode liq bi pl ilm ky q H2O
0.1087 0.2828 0.3015 0.01174 0.02056 0.2748 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 710.8 0.1167 0.2023 0.8768 0.008136 0.004368 0.7154
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6575 0.4351 0.3459 0.03303 0.08480 0.2454
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4121 0.004445 0.7387 0.6051 0.1073 0.2829

mode liq bi pl ilm ky q H2O
0.1073 0.2829 0.3019 0.01172 0.02090 0.2754 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 710.0 0.1138 0.2018 0.8760 0.008225 0.004141 0.7161
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6618 0.4353 0.3436 0.03311 0.08512 0.2467
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4116 0.004512 0.7383 0.6049 0.1059 0.2829

mode liq bi pl ilm ky q H2O
0.1059 0.2829 0.3022 0.01169 0.02122 0.2760 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.00 709.2 0.1109 0.2013 0.8752 0.008319 0.003929 0.7168
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6660 0.4355 0.3413 0.03319 0.08546 0.2480
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4111 0.004582 0.7379 0.6047 0.1046 0.2830

mode liq bi pl ilm ky q H2O
 0.1046 0.2830 0.3026 0.01166 0.02154 0.2766 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.20 708.4 0.1082 0.2008 0.8742 0.008419 0.003731 0.7175
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6701 0.4357 0.3390 0.03326 0.08580 0.2493
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4106 0.004653 0.7375 0.6045 0.1034 0.2830

mode liq bi pl ilm ky q H2O
 0.1034 0.2830 0.3029 0.01163 0.02184 0.2772 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.40 707.6 0.1055 0.2003 0.8732 0.008525 0.003544 0.7182
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6741 0.4359 0.3367 0.03334 0.08616 0.2505
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4101 0.004727 0.7370 0.6042 0.1023 0.2830

mode liq bi pl ilm ky q H2O
 0.1023 0.2830 0.3033 0.01160 0.02213 0.2777 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.60 706.8 0.1028 0.1998 0.8722 0.008636 0.003368 0.7189
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6779 0.4361 0.3344 0.03341 0.08652 0.2518
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4096 0.004802 0.7365 0.6038 0.1012 0.2830

mode liq bi pl ilm ky q H2O
 0.1012 0.2830 0.3036 0.01157 0.02241 0.2782 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.80 706.0 0.1002 0.1992 0.8710 0.008754 0.003202 0.7196
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6817 0.4363 0.3320 0.03348 0.08689 0.2531
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4091 0.004878 0.7360 0.6035 0.1001 0.2831

mode liq bi pl ilm ky q H2O
 0.1001 0.2831 0.3039 0.01154 0.02268 0.2787 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.00 705.3 0.09771 0.1986 0.8698 0.008877 0.003045 0.7203
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6854 0.4365 0.3297 0.03355 0.08727 0.2544
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4086 0.004956 0.7355 0.6031 0.09906 0.2831

mode liq bi pl ilm ky q H2O
0.09906 0.2831 0.3043 0.01151 0.02295 0.2791 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 704.5 0.09525 0.1980 0.8685 0.009005 0.002898 0.7210
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6889 0.4366 0.3273 0.03362 0.08766 0.2557
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4081 0.005035 0.7349 0.6026 0.09808 0.2831

mode liq bi pl ilm ky q H2O
0.09808 0.2831 0.3046 0.01148 0.02321 0.2796 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 703.7 0.09284 0.1974 0.8671 0.009140 0.002758 0.7217
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6924 0.4368 0.3250 0.03368 0.08805 0.2570
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4076 0.005116 0.7344 0.6022 0.09713 0.2831

mode liq bi pl ilm ky q H2O
0.09713 0.2831 0.3049 0.01145 0.02347 0.2800 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 703.0 0.09050 0.1967 0.8657 0.009280 0.002626 0.7224
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6958 0.4370 0.3226 0.03375 0.08845 0.2583
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4071 0.005198 0.7338 0.6017 0.09622 0.2830

mode liq bi pl ilm ky q H2O
0.09622 0.2830 0.3052 0.01142 0.02372 0.2804 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 702.2 0.08821 0.1961 0.8642 0.009426 0.002501 0.7231
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6991 0.4371 0.3203 0.03381 0.08885 0.2596
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4066 0.005281 0.7332 0.6012 0.09534 0.2830

mode liq bi pl ilm ky q H2O
0.09534 0.2830 0.3056 0.01139 0.02397 0.2807 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.00 701.4 0.08597 0.1954 0.8626 0.009578 0.002383 0.7237
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7023 0.4373 0.3179 0.03387 0.08925 0.2609
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4061 0.005364 0.7326 0.6007 0.09449 0.2830

mode liq bi pl ilm ky q H2O
 0.09449 0.2830 0.3059 0.01136 0.02421 0.2811 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.20 700.7 0.08379 0.1947 0.8609 0.009736 0.002270 0.7244
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7055 0.4374 0.3155 0.03393 0.08966 0.2622
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4056 0.005449 0.7320 0.6001 0.09367 0.2830

mode liq bi pl ilm ky q H2O
 0.09367 0.2830 0.3062 0.01133 0.02445 0.2814 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.40 699.9 0.08165 0.1940 0.8592 0.009900 0.002164 0.7251
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7086 0.4376 0.3131 0.03399 0.09007 0.2636
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4051 0.005535 0.7313 0.5996 0.09287 0.2830

mode liq bi pl ilm ky q H2O
 0.09287 0.2830 0.3065 0.01130 0.02468 0.2817 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.60 699.1 0.07957 0.1932 0.8574 0.01007 0.002062 0.7257
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7116 0.4377 0.3106 0.03405 0.09048 0.2649
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4046 0.005621 0.7307 0.5990 0.09210 0.2829

mode liq bi pl ilm ky q H2O
 0.09210 0.2829 0.3068 0.01127 0.02492 0.2820 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.80 698.3 0.07754 0.1924 0.8555 0.01025 0.001965 0.7264
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7146 0.4379 0.3082 0.03410 0.09089 0.2663
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.4041 0.005708 0.7300 0.5985 0.09136 0.2829

mode liq bi pl ilm ky q H2O
 0.09136 0.2829 0.3071 0.01124 0.02515 0.2823 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.00 697.4 0.07555 0.1917 0.8535 0.01043 0.001873 0.7270
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7175 0.4380 0.3058 0.03415 0.09131 0.2677
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4036 0.005795 0.7294 0.5979 0.09063 0.2828

mode liq bi pl ilm ky q H2O
0.09063 0.2828 0.3074 0.01121 0.02538 0.2825 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 696.6 0.07361 0.1908 0.8514 0.01062 0.001785 0.7277
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7204 0.4381 0.3033 0.03420 0.09173 0.2691
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4031 0.005883 0.7287 0.5973 0.08993 0.2828

mode liq bi pl ilm ky q H2O
0.08993 0.2828 0.3077 0.01118 0.02561 0.2828 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 695.7 0.07171 0.1900 0.8493 0.01081 0.001702 0.7283
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7232 0.4383 0.3008 0.03425 0.09214 0.2705
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4026 0.005971 0.7280 0.5967 0.08924 0.2827

mode liq bi pl ilm ky q H2O
0.08924 0.2827 0.3081 0.01115 0.02583 0.2830 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 694.9 0.06985 0.1892 0.8470 0.01101 0.001621 0.7290
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7260 0.4384 0.2983 0.03429 0.09256 0.2720
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4021 0.006059 0.7273 0.5961 0.08857 0.2827

mode liq bi pl ilm ky q H2O
0.08857 0.2827 0.3084 0.01112 0.02606 0.2832 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 694.0 0.06803 0.1883 0.8447 0.01122 0.001545 0.7296
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7288 0.4385 0.2958 0.03434 0.09297 0.2734
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4016 0.006148 0.7266 0.5956 0.08792 0.2826

mode liq bi pl ilm ky q H2O
0.08792 0.2826 0.3087 0.01109 0.02628 0.2834 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.00 693.0 0.06626 0.1874 0.8423 0.01143 0.001471 0.7302
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7315 0.4387 0.2933 0.03438 0.09339 0.2749
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4011 0.006236 0.7259 0.5950 0.08728 0.2826

mode liq bi pl ilm ky q H2O
0.08728 0.2826 0.3090 0.01106 0.02651 0.2836 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 692.1 0.06452 0.1865 0.8397 0.01165 0.001401 0.7308
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7341 0.4388 0.2908 0.03442 0.09380 0.2764
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4005 0.006325 0.7252 0.5944 0.08666 0.2825

mode liq bi pl ilm ky q H2O
0.08666 0.2825 0.3093 0.01103 0.02673 0.2838 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 691.1 0.06281 0.1855 0.8371 0.01188 0.001333 0.7314
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7368 0.4389 0.2882 0.03445 0.09421 0.2780
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.4000 0.006413 0.7245 0.5939 0.08605 0.2824

mode liq bi pl ilm ky q H2O
0.08605 0.2824 0.3096 0.01100 0.02695 0.2839 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 690.0 0.06115 0.1845 0.8343 0.01212 0.001268 0.7320
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7394 0.4390 0.2856 0.03449 0.09461 0.2795
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3995 0.006501 0.7238 0.5934 0.08545 0.2823

mode liq bi pl ilm ky q H2O
0.08545 0.2823 0.3100 0.01098 0.02718 0.2841 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 689.0 0.05951 0.1835 0.8314 0.01236 0.001206 0.7325
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7419 0.4391 0.2831 0.03452 0.09502 0.2811
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3989 0.006588 0.7231 0.5928 0.08487 0.2823

mode liq bi pl ilm ky q H2O
0.08487 0.2823 0.3103 0.01095 0.02740 0.2842 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.00 687.8 0.05791 0.1825 0.8284 0.01260 0.001146 0.7331
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7445 0.4392 0.2805 0.03455 0.09541 0.2827
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3984 0.006674 0.7224 0.5923 0.08429 0.2822

mode liq bi pl ilm ky q H2O
0.08429 0.2822 0.3106 0.01092 0.02762 0.2844 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 686.7 0.05634 0.1815 0.8253 0.01286 0.001087 0.7336
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7470 0.4393 0.2778 0.03457 0.09581 0.2844
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3978 0.006760 0.7217 0.5919 0.08372 0.2821

mode liq bi pl ilm ky q H2O
0.08372 0.2821 0.3109 0.01090 0.02784 0.2845 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 685.5 0.05480 0.1804 0.8220 0.01312 0.001031 0.7341
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7496 0.4394 0.2752 0.03460 0.09620 0.2860
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3972 0.006845 0.7210 0.5915 0.08316 0.2820

mode liq bi pl ilm ky q H2O
0.08316 0.2820 0.3113 0.01087 0.02807 0.2846 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 684.2 0.05329 0.1792 0.8185 0.013380 0.0009771 0.7346
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7521 0.4396 0.2725 0.03462 0.09658 0.2877
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3966 0.006929 0.7203 0.5911 0.08261 0.2819

mode liq bi pl ilm ky q H2O
0.08261 0.2819 0.3116 0.01085 0.02829 0.2847 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 682.9 0.05181 0.1781 0.8149 0.013660 0.0009245 0.7351
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7546 0.4396 0.2699 0.03464 0.09696 0.2895
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3961 0.007012 0.7196 0.5907 0.08206 0.2818

mode liq bi pl ilm ky q H2O
0.08206 0.2818 0.3120 0.01083 0.02851 0.2848 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.00 681.5 0.05035 0.1769 0.8111 0.013940.0008735 0.7356
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7571 0.4397 0.2672 0.03466 0.09732 0.2913
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3955 0.007093 0.7189 0.5904 0.08152 0.2817

mode liq bi pl ilm ky q H2O
0.08152 0.2817 0.3123 0.01081 0.02874 0.2849 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 680.0 0.04891 0.1757 0.8071 0.014220.0008240 0.7360
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7596 0.4398 0.2644 0.03467 0.09768 0.2931
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3948 0.007173 0.7183 0.5902 0.08098 0.2816

mode liq bi pl ilm ky q H2O
0.08098 0.2816 0.3127 0.01079 0.02897 0.2850 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 678.4 0.04750 0.1744 0.8029 0.014510.0007758 0.7364
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7621 0.4399 0.2617 0.03468 0.09803 0.2950
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3942 0.007251 0.7176 0.5900 0.08044 0.2815

mode liq bi pl ilm ky q H2O
0.08044 0.2815 0.3130 0.01077 0.02919 0.2851 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 676.8 0.04611 0.1731 0.7985 0.014810.0007289 0.7368
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7646 0.4400 0.2589 0.03469 0.09837 0.2970
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3936 0.007327 0.7170 0.5899 0.07990 0.2814

mode liq bi pl ilm ky q H2O
0.07990 0.2814 0.3134 0.01075 0.02942 0.2851 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 675.0 0.04473 0.1717 0.7937 0.015110.0006831 0.7371
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7671 0.4401 0.2561 0.03470 0.09870 0.2990
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3929 0.007401 0.7164 0.5899 0.07936 0.2812

mode liq bi pl ilm ky q H2O
0.07936 0.2812 0.3138 0.01073 0.02965 0.2852 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

14.00 673.1 0.04337 0.1703 0.7887 0.015420.0006384 0.7374
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7697 0.4402 0.2533 0.03470 0.09901 0.3010
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3923 0.007472 0.7158 0.5900 0.07882 0.2811

mode liq bi pl ilm ky q H2O
0.07882 0.2811 0.3142 0.01071 0.02988 0.2853 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 671.1 0.04203 0.1689 0.7834 0.015730.0005945 0.7377
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7723 0.4402 0.2504 0.03470 0.09931 0.3032
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3916 0.007540 0.7152 0.5902 0.07828 0.2810

mode liq bi pl ilm ky q H2O
0.07828 0.2810 0.3146 0.01070 0.03012 0.2853 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 669.0 0.04069 0.1673 0.7776 0.016050.0005515 0.7379
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7749 0.4403 0.2475 0.03470 0.09959 0.3054
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3909 0.007605 0.7147 0.5905 0.07772 0.2808

mode liq bi pl ilm ky q H2O
0.07772 0.2808 0.3151 0.01069 0.03036 0.2853 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 666.6 0.03937 0.1657 0.7715 0.016360.0005092 0.7381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7776 0.4404 0.2445 0.03470 0.09984 0.3077
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3902 0.007666 0.7142 0.5911 0.07716 0.2807

mode liq bi pl ilm ky q H2O
0.07716 0.2807 0.3155 0.01068 0.03060 0.2854 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 664.0 0.03805 0.1640 0.7648 0.016670.0004674 0.7381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7804 0.4404 0.2415 0.03470 0.1001 0.3102
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3894 0.007724 0.7138 0.5918 0.07658 0.2805

mode liq bi pl ilm ky q H2O
0.07658 0.2805 0.3160 0.01067 0.03084 0.2854 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.00 661.2 0.03672 0.1623 0.7575 0.016990.0004261 0.7381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7833 0.4405 0.2385 0.03470 0.1003 0.3128
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3887 0.007776 0.7135 0.5927 0.07598 0.2804

mode liq bi pl ilm ky q H2O
0.07598 0.2804 0.3165 0.01066 0.03109 0.2854 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 658.0 0.03539 0.1603 0.7495 0.017290.0003850 0.7380
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7863 0.4405 0.2354 0.03469 0.1004 0.3156
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3879 0.007823 0.7132 0.5939 0.07536 0.2802

mode liq bi pl ilm ky q H2O
0.07536 0.2802 0.3170 0.01066 0.03134 0.2854 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 654.5 0.03404 0.1583 0.7406 0.017590.0003440 0.7378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7895 0.4405 0.2321 0.03469 0.1006 0.3185
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3870 0.007863 0.7131 0.5955 0.07470 0.2800

mode liq bi pl ilm ky q H2O
0.07470 0.2800 0.3176 0.01066 0.03160 0.2855 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 650.3 0.03266 0.1560 0.7304 0.017860.0003026 0.7373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7929 0.4405 0.2288 0.03469 0.1006 0.3218
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3861 0.007894 0.7131 0.5976 0.07399 0.2798

mode liq bi pl ilm ky q H2O
0.07399 0.2798 0.3182 0.01067 0.03187 0.2855 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 645.4 0.03122 0.1535 0.7186 0.018110.0002603 0.7366
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7967 0.4405 0.2253 0.03469 0.1006 0.3255
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3852 0.007915 0.7134 0.6003 0.07320 0.2795

mode liq bi pl ilm ky q H2O
0.07320 0.2795 0.3189 0.01068 0.03215 0.2855 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

16.00 639.3 0.02967 0.1506 0.7042 0.018290.0002160 0.7355
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8010 0.4405 0.2216 0.03471 0.1004 0.3298
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3841 0.007920 0.7140 0.6042 0.07229 0.2793

mode liq bi pl ilm ky q H2O
0.07229 0.2793 0.3198 0.01071 0.03246 0.2855 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 630.8 0.02788 0.1469 0.6846 0.018350.0001666 0.7335
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8066 0.4404 0.2174 0.03475 0.09996 0.3353
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3828 0.007895 0.7153 0.6101 0.07113 0.2789

mode liq bi pl ilm ky q H2O
0.07113 0.2789 0.3209 0.01075 0.03280 0.2855 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 689.3 0.05953 0.1836 0.8339 0.01237 0.001243 0.7326
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7418 0.4390 0.2820 0.03446 0.09480 0.2817
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4148 0.9059 0.1513 0.3991 0.006500 0.7235
Q(ilm)
0.5932

mode liq bi mu pl ilm ky q H2O
0.08477 0.28210.0004204 0.3102 0.01098 0.02737 0.2842 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 689.3 0.05799 0.1826 0.8388 0.01267 0.001302 0.7334
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7440 0.4389 0.2760 0.03427 0.09449 0.2854
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4153 0.9040 0.1539 0.3990 0.006303 0.7240
Q(ilm)
0.5939

mode liq bi mu pl ilm ky q H2O
0.08390 0.2815 0.001778 0.3101 0.01104 0.02750 0.2842 0

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.20    689.3  0.05648  0.1817  0.8435  0.01297 0.001363  0.7343
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7462  0.4387  0.2700  0.03408  0.09418  0.2891
        fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
        0.4159  0.9022  0.1567  0.3990  0.006109  0.7244
        Q(ilm)
0.5946

```

```

mode  liq  bi  mu  pl  ilm  ky  q  H2O
0.08306  0.2808  0.003119  0.3100  0.01110  0.02763  0.2842  0

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.40    689.3  0.05500  0.1808  0.8482  0.01328 0.001426  0.7351
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7483  0.4386  0.2641  0.03388  0.09386  0.2928
        fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
        0.4164  0.9004  0.1595  0.3989  0.005920  0.7248
        Q(ilm)
0.5953

```

```

mode  liq  bi  mu  pl  ilm  ky  q  H2O
0.08224  0.2802  0.004446  0.3099  0.01116  0.02776  0.2842  0

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.60    689.2  0.05356  0.1799  0.8527  0.01359 0.001492  0.7358
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7504  0.4384  0.2582  0.03368  0.09353  0.2965
        fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
        0.4168  0.8986  0.1624  0.3989  0.005734  0.7252
        Q(ilm)
0.596

```

```

mode  liq  bi  mu  pl  ilm  ky  q  H2O
0.08143  0.2796  0.005761  0.3099  0.01122  0.02789  0.2842  0

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.80    689.1  0.05215  0.1789  0.8571  0.01392 0.001560  0.7366
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7524  0.4382  0.2524  0.03346  0.09320  0.3001
        fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
        0.4173  0.8969  0.1655  0.3988  0.005552  0.7256
        Q(ilm)
0.5966

```

```

mode  liq  bi  mu  pl  ilm  ky  q  H2O
0.08065  0.2790  0.007065  0.3098  0.01128  0.02801  0.2842  0

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
13.00    688.9  0.05077  0.1780  0.8614  0.01425 0.001629  0.7373

```


h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7544 0.4381 0.2467 0.03323 0.09286 0.3038
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4177 0.8951 0.1687 0.3988 0.005374 0.7260
Q(ilm)

0.5973

mode	liq	bi	mu	pl	ilm	ky	q	H2O	
	0.07988	0.2783	0.008359	0.3097	0.01135	0.02813	0.2842		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 688.8 0.04942 0.1770 0.8655 0.01459 0.001702 0.7380
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7564 0.4379 0.2410 0.03299 0.09251 0.3074
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4182 0.8933 0.1721 0.3987 0.005199 0.7264
Q(ilm)

0.5979

mode	liq	bi	mu	pl	ilm	ky	q	H2O	
	0.07913	0.2777	0.009645	0.3097	0.01141	0.02825	0.2842		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 688.5 0.04811 0.1760 0.8696 0.01494 0.001776 0.7387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7583 0.4377 0.2354 0.03275 0.09215 0.3110
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4186 0.8916 0.1757 0.3987 0.005027 0.7267
Q(ilm)

0.5985

mode	liq	bi	mu	pl	ilm	ky	q	H2O	
	0.07839	0.2771	0.01092	0.3096	0.01148	0.02837	0.2841		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 688.3 0.04682 0.1750 0.8736 0.01530 0.001853 0.7394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7602 0.4376 0.2298 0.03249 0.09178 0.3147
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4189 0.8900 0.1794 0.3986 0.004858 0.7271
Q(ilm)

0.5992

mode	liq	bi	mu	pl	ilm	ky	q	H2O	
	0.07766	0.2765	0.01220	0.3095	0.01154	0.02847	0.2841		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 688.0 0.04555 0.1740 0.8774 0.01567 0.001932 0.7401
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7621 0.4374 0.2243 0.03222 0.09140 0.3183

fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4193 0.8883 0.1834 0.3986 0.004692 0.7274
Q(ilm)

0.5998

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.07695	0.2759	0.01348	0.3094	0.01161	0.02858	0.2841	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 687.7 0.04432 0.1730 0.8812 0.01604 0.002014 0.7407
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7639 0.4372 0.2188 0.03195 0.09101 0.3219
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4196 0.8868 0.1877 0.3985 0.004528 0.7277
Q(ilm)

0.6005

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.07624	0.2753	0.01475	0.3093	0.01167	0.02868	0.2840	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 687.3 0.04311 0.1719 0.8848 0.01643 0.002098 0.7413
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7658 0.4370 0.2134 0.03167 0.09061 0.3255
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4199 0.8853 0.1923 0.3985 0.004368 0.7280
Q(ilm)

0.6011

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.07554	0.2747	0.01603	0.3093	0.01174	0.02877	0.2840	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 686.9 0.04192 0.1709 0.8884 0.01682 0.002185 0.7419
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7676 0.4369 0.2080 0.03137 0.09020 0.3292
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4201 0.8839 0.1972 0.3984 0.004210 0.7283
Q(ilm)

0.6018

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.07485	0.2741	0.01731	0.3092	0.01181	0.02885	0.2839	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 686.4 0.04076 0.1698 0.8919 0.01723 0.002275 0.7425
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7694 0.4367 0.2027 0.03107 0.08977 0.3328
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4204 0.8826 0.2026 0.3984 0.004055 0.7286

Q(ilm)

0.6025

mode	liq	bi	mu	pl	ilm	ky	q	H2O	
	0.07416	0.2735	0.01861	0.3091	0.01188	0.02893	0.2839		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	685.9	0.03962	0.1687	0.8953	0.01764	0.002367	0.7430
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7712	0.4365	0.1975	0.03076	0.08933	0.3364
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4206	0.8814	0.2084	0.3983	0.003902	0.7289

Q(ilm)

0.6032

mode	liq	bi	mu	pl	ilm	ky	q	H2O	
	0.07347	0.2729	0.01992	0.3089	0.01195	0.02899	0.2839		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	685.3	0.03851	0.1675	0.8986	0.01806	0.002462	0.7436
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7729	0.4363	0.1923	0.03044	0.08888	0.3400
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4208	0.8804	0.2149	0.3983	0.003752	0.7292

Q(ilm)

0.604

mode	liq	bi	mu	pl	ilm	ky	q	H2O	
	0.07277	0.2723	0.02126	0.3088	0.01203	0.02904	0.2838		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.20	684.7	0.03741	0.1664	0.9018	0.01850	0.002560	0.7441
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7747	0.4361	0.1871	0.03010	0.08840	0.3437
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4209	0.8797	0.2220	0.3983	0.003603	0.7295

Q(ilm)

0.6047

mode	liq	bi	mu	pl	ilm	ky	q	H2O	
	0.07208	0.2717	0.02262	0.3087	0.01210	0.02908	0.2838		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.40	684.0	0.03634	0.1652	0.9050	0.01894	0.002660	0.7445
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7765	0.4359	0.1820	0.02976	0.08791	0.3473
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4210	0.8792	0.2300	0.3984	0.003457	0.7298

Q(ilm)

0.6055

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0.07137	0.2711	0.02403	0.3085	0.01217	0.02909	0.2838	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.60	683.2	0.03529	0.1639	0.9081	0.01940	0.002764	0.7450
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7782	0.4357	0.1770	0.02941	0.08741	0.3510	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4211	0.8791	0.2392	0.3984	0.003313	0.7301	
	Q(ilm)						
0.6064							

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0.07065	0.2705	0.02548	0.3083	0.01225	0.02909	0.2837	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.80	682.4	0.03426	0.1627	0.9111	0.01987	0.002872	0.7454
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7800	0.4355	0.1720	0.02905	0.08688	0.3547	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4212	0.8795	0.2499	0.3985	0.003170	0.7304	
	Q(ilm)						
0.6072							

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0.06990	0.2699	0.02702	0.3081	0.01233	0.02905	0.2837	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	681.6	0.03325	0.1614	0.9141	0.02035	0.002984	0.7458
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7817	0.4353	0.1670	0.02868	0.08633	0.3584	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4212	0.8807	0.2628	0.3987	0.003030	0.7307	
	Q(ilm)						
0.6081							

mode	liq	bi	mu	pl	ilm	ky	q	H2O
0.06911	0.2693	0.02867	0.3078	0.01241	0.02896	0.2837	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	680.7	0.03226	0.1600	0.9170	0.02086	0.003100	0.7461
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7835	0.4350	0.1621	0.02829	0.08575	0.3621	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4212	0.8829	0.2791	0.3991	0.002891	0.7310	
	Q(ilm)						
0.6091							

mode	liq	bi	mu	pl	ilm	ky	q	H2O
------	-----	----	----	----	-----	----	---	-----

0.06827 0.2687 0.03049 0.3075 0.01249 0.02881 0.2838 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 679.7 0.03129 0.1586 0.9198 0.02138 0.003222 0.7465
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7852 0.4348 0.1572 0.02790 0.08516 0.3658
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4212 0.8872 0.3014 0.3996 0.002753 0.7314
Q(ilm)
0.61

mode liq bi mu pl ilm ky q H2O
0.06730 0.2681 0.03264 0.3069 0.01257 0.02852 0.2839 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 678.8 0.03037 0.1571 0.9223 0.02197 0.003352 0.7468
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7870 0.4346 0.1525 0.02750 0.08458 0.3694
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4211 0.8970 0.3409 0.4009 0.002618 0.7316
Q(ilm)
0.6109

mode liq bi mu pl ilm ky q H2O
0.06601 0.2676 0.03572 0.3058 0.01265 0.02787 0.2843 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, mu, pl, ilm, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 607.1 0.09375 0.1508 0.8503 0.004332 0.0002114 0.6727
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7478 0.4348 0.3712 0.03475 0.07118 0.2615
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.3677 0.9889 0.4604 0.3957 0.003439 0.7662
Q(ilm)
0.6892

mode liq bi mu pl ilm ky q
0.07963 0.2851 0 0.3168 0.01257 0.02009 0.2858

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 610.1 0.09185 0.1523 0.8492 0.004503 0.0002246 0.6753
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7481 0.4350 0.3676 0.03480 0.07208 0.2624
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.3697 0.9850 0.4096 0.3958 0.003546 0.7649
Q(ilm)

0.6864

mode	liq	bi	mu	pl	ilm	ky	q
	0.07969	0.2850	0	0.3166	0.01250	0.02039	0.2858

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 613.2 0.09003 0.1537 0.8481 0.0046810.0002392 0.6780
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7484 0.4352 0.3641 0.03483 0.07298 0.2633
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.3716 0.9817 0.3773 0.3960 0.003654 0.7636
Q(ilm)

0.6836

mode	liq	bi	mu	pl	ilm	ky	q
	0.07978	0.2849	0	0.3163	0.01244	0.02069	0.2858

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 616.3 0.08828 0.1552 0.8471 0.0048680.0002551 0.6806
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7485 0.4354 0.3605 0.03487 0.07389 0.2642
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.3735 0.9786 0.3525 0.3962 0.003764 0.7623
Q(ilm)

0.6806

mode	liq	bi	mu	pl	ilm	ky	q
	0.07988	0.2848	0	0.3161	0.01237	0.02099	0.2859

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 619.4 0.08659 0.1567 0.8461 0.0050630.0002722 0.6831
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7486 0.4356 0.3570 0.03490 0.07479 0.2650
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.3754 0.9757 0.3320 0.3964 0.003875 0.7609
Q(ilm)

0.6776

mode	liq	bi	mu	pl	ilm	ky	q
	0.08000	0.2847	0	0.3159	0.01231	0.02129	0.2858

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 622.5 0.08497 0.1581 0.8452 0.0052660.0002907 0.6857
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7487 0.4357 0.3534 0.03492 0.07570 0.2659
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)

0.3773 0.9728 0.3144 0.3966 0.003987 0.7595
Q(ilm)

0.6746

mode	liq	bi	mu	pl	ilm	ky	q
	0.08014	0.2846	0	0.3156	0.01225	0.02159	0.2858

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	625.7	0.08340	0.1595	0.8443	0.0054780	0.0003106	0.6882
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7487	0.4359	0.3499	0.03494	0.07660	0.2667
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.3792	0.9699	0.2990	0.3968	0.004099	0.7581
		Q(ilm)					

0.6715

mode	liq	bi	mu	pl	ilm	ky	q
	0.08028	0.2845	0	0.3154	0.01218	0.02188	0.2858

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.80	628.8	0.08189	0.1609	0.8434	0.0056990	0.0003320	0.6906
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7486	0.4361	0.3464	0.03495	0.07751	0.2675
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.3811	0.9670	0.2853	0.3969	0.004213	0.7566
		Q(ilm)					

0.6683

mode	liq	bi	mu	pl	ilm	ky	q
	0.08044	0.2844	0	0.3151	0.01212	0.02217	0.2858

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.00	631.9	0.08043	0.1623	0.8426	0.0059290	0.0003549	0.6931
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7485	0.4363	0.3430	0.03496	0.07841	0.2683
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.3830	0.9641	0.2729	0.3971	0.004327	0.7551
		Q(ilm)					

0.6651

mode	liq	bi	mu	pl	ilm	ky	q
	0.08060	0.2843	0	0.3149	0.01206	0.02246	0.2857

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.20	635.1	0.07902	0.1637	0.8418	0.0061680	0.0003795	0.6955
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7484	0.4364	0.3395	0.03497	0.07931	0.2691
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.3848	0.9612	0.2617	0.3973	0.004442	0.7536
		Q(ilm)					

0.6618

mode	liq	bi	mu	pl	ilm	ky	q
0.08078	0.2841	0	0.3146	0.01199	0.02275	0.2857	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	638.2	0.07766	0.1650	0.8411	0.0064160	0.0004059	0.6978
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7482	0.4366	0.3361	0.03497	0.08020	0.2699	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.3866	0.9582	0.2514	0.3974	0.004558	0.7521	
	Q(ilm)						

0.6584

mode	liq	bi	mu	pl	ilm	ky	q
0.08096	0.2840	0	0.3144	0.01193	0.02303	0.2856	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.60	641.3	0.07634	0.1663	0.8404	0.0066750	0.0004341	0.7002
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7480	0.4368	0.3327	0.03497	0.08110	0.2707	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.3885	0.9553	0.2418	0.3976	0.004674	0.7506	
	Q(ilm)						

0.655

mode	liq	bi	mu	pl	ilm	ky	q
0.08115	0.2839	0	0.3142	0.01187	0.02331	0.2856	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.80	644.4	0.07506	0.1676	0.8397	0.0069430	0.0004642	0.7025
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7478	0.4369	0.3294	0.03497	0.08199	0.2714	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.3903	0.9524	0.2330	0.3977	0.004791	0.7490	
	Q(ilm)						

0.6515

mode	liq	bi	mu	pl	ilm	ky	q
0.08135	0.2838	0	0.3139	0.01181	0.02359	0.2855	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.00	647.6	0.07381	0.1688	0.8390	0.0072220	0.0004964	0.7047
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7475	0.4371	0.3261	0.03496	0.08288	0.2722	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.3920	0.9494	0.2249	0.3979	0.004908	0.7474	
	Q(ilm)						

0.648

mode	liq	bi	mu	pl	ilm	ky	q
	0.08155	0.2837	0	0.3137	0.01175	0.02387	0.2854

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	650.7	0.07261	0.1701	0.8384	0.0075120	0.0005309	0.7069
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7472	0.4373	0.3228	0.03495	0.08377	0.2729	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.3938	0.9464	0.2172	0.3980	0.005026	0.7458	
	Q(ilm)						
	0.6444						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08177	0.2836	0	0.3134	0.01169	0.02414	0.2854

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.40	653.7	0.07144	0.1713	0.8378	0.0078130	0.0005676	0.7091
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7469	0.4374	0.3195	0.03493	0.08466	0.2736	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.3955	0.9434	0.2101	0.3981	0.005144	0.7442	
	Q(ilm)						
	0.6407						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08198	0.2835	0	0.3132	0.01163	0.02441	0.2853

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.60	656.8	0.07031	0.1725	0.8372	0.0081250	0.0006068	0.7113
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7465	0.4376	0.3163	0.03491	0.08554	0.2743	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.3973	0.9403	0.2033	0.3982	0.005263	0.7425	
	Q(ilm)						
	0.637						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08221	0.2834	0	0.3129	0.01157	0.02467	0.2852

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.80	659.9	0.06921	0.1736	0.8367	0.0084490	0.0006486	0.7134
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7462	0.4377	0.3131	0.03489	0.08643	0.2749	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.3990	0.9373	0.1970	0.3983	0.005383	0.7408	
	Q(ilm)						
	0.6332						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08244	0.2833	0	0.3127	0.01151	0.02494	0.2851

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	663.0	0.06814	0.1748	0.8361	0.0087850	0.0006932	0.7155
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7458	0.4379	0.3099	0.03486	0.08731	0.2756	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4007	0.9342	0.1911	0.3985	0.005502	0.7391	
	Q(ilm)						
	0.6294						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08268	0.2832	0	0.3124	0.01145	0.02520	0.2850

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	666.0	0.06711	0.1759	0.8356	0.0091340	0.0007408	0.7175
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7453	0.4380	0.3068	0.03483	0.08819	0.2762	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4023	0.9311	0.1854	0.3986	0.005622	0.7374	
	Q(ilm)						
	0.6255						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08293	0.2831	0	0.3122	0.01140	0.02545	0.2850

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	669.1	0.06610	0.1770	0.8351	0.0094960	0.0007914	0.7196
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7449	0.4382	0.3037	0.03480	0.08906	0.2769	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4040	0.9279	0.1801	0.3986	0.005743	0.7357	
	Q(ilm)						
	0.6215						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08318	0.2830	0	0.3119	0.01134	0.02571	0.2849

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	672.1	0.06512	0.1781	0.8347	0.0098710	0.0008453	0.7216
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7444	0.4383	0.3006	0.03476	0.08994	0.2775	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4056	0.9248	0.1750	0.3987	0.005864	0.7339	
	Q(ilm)						
	0.6175						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08344	0.2829	0	0.3117	0.01128	0.02596	0.2848

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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10.80 675.2 0.06416 0.1791 0.8342 0.010260.0009027 0.7235
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7439 0.4385 0.2976 0.03473 0.09081 0.2781
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4072 0.9216 0.1702 0.3988 0.005985 0.7321
Q(ilm)
0.6133

mode	liq	bi	mu	pl	ilm	ky	q
	0.08371	0.2828	0	0.3114	0.01122	0.02621	0.2847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 678.2 0.06323 0.1802 0.8338 0.010660.0009638 0.7255
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7433 0.4386 0.2946 0.03468 0.09168 0.2786
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4088 0.9184 0.1657 0.3989 0.006107 0.7303
Q(ilm)
0.6091

mode	liq	bi	mu	pl	ilm	ky	q
	0.08398	0.2827	0	0.3111	0.01117	0.02645	0.2846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 681.2 0.06233 0.1812 0.8334 0.01108 0.001029 0.7274
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7428 0.4387 0.2917 0.03464 0.09255 0.2792
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4104 0.9152 0.1613 0.3989 0.006230 0.7284
Q(ilm)
0.6049

mode	liq	bi	mu	pl	ilm	ky	q
	0.08426	0.2826	0	0.3109	0.01111	0.02669	0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 684.2 0.06145 0.1822 0.8330 0.01151 0.001098 0.7292
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7422 0.4389 0.2887 0.03459 0.09342 0.2797
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4120 0.9119 0.1572 0.3990 0.006352 0.7265
Q(ilm)
0.6005

mode	liq	bi	mu	pl	ilm	ky	q
	0.08454	0.2825	0	0.3106	0.01105	0.02693	0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 687.2 0.06059 0.1832 0.8326 0.01196 0.001171 0.7311
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7416 0.4390 0.2858 0.03454 0.09429 0.2803
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4135 0.9087 0.1532 0.3990 0.006475 0.7247
Q(ilm)

0.5961

mode	liq	bi	mu	pl	ilm	ky	q
	0.08484	0.2824	0	0.3104	0.01100	0.02717	0.2843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 690.2 0.05976 0.1841 0.8322 0.01243 0.001249 0.7329
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7410 0.4391 0.2830 0.03449 0.09516 0.2808
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4151 0.9054 0.1494 0.3991 0.006599 0.7227
Q(ilm)

0.5916

mode	liq	bi	mu	pl	ilm	ky	q
	0.08514	0.2823	0	0.3101	0.01094	0.02740	0.2842

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 693.2 0.05895 0.1851 0.8319 0.01291 0.001332 0.7347
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7403 0.4393 0.2802 0.03444 0.09603 0.2813
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4166 0.9021 0.1458 0.3991 0.006723 0.7208
Q(ilm)

0.587

mode	liq	bi	mu	pl	ilm	ky	q
	0.08545	0.2821	0	0.3098	0.01089	0.02763	0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 696.2 0.05815 0.1860 0.8315 0.01340 0.001420 0.7365
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7396 0.4394 0.2774 0.03438 0.09689 0.2817
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4181 0.8988 0.1423 0.3991 0.006848 0.7188
Q(ilm)

0.5823

mode	liq	bi	mu	pl	ilm	ky	q
	0.08576	0.2820	0	0.3096	0.01083	0.02786	0.2840

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 699.2 0.05738 0.1869 0.8312 0.01392 0.001514 0.7382
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7389 0.4395 0.2746 0.03432 0.09776 0.2822
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)

0.4196 0.8954 0.1389 0.3992 0.006974 0.7168
Q(ilm)

0.5776

mode	liq	bi	mu	pl	ilm	ky	q
	0.08609	0.2819	0	0.3093	0.01078	0.02808	0.2839

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.60	702.1	0.05663	0.1878	0.8308	0.01445	0.001613	0.7399
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7382	0.4396	0.2719	0.03426	0.09862	0.2826
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4210	0.8920	0.1357	0.3992	0.007100	0.7148
		Q(ilm)					

0.5727

mode	liq	bi	mu	pl	ilm	ky	q
	0.08642	0.2818	0	0.3090	0.01072	0.02830	0.2837

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	705.1	0.05590	0.1887	0.8305	0.01500	0.001718	0.7416
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7374	0.4397	0.2692	0.03420	0.09949	0.2830
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4225	0.8887	0.1327	0.3991	0.007226	0.7127
		Q(ilm)					

0.5677

mode	liq	bi	mu	pl	ilm	ky	q
	0.08676	0.2817	0	0.3087	0.01067	0.02852	0.2836

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	708.1	0.05518	0.1895	0.8301	0.01557	0.001830	0.7433
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7366	0.4398	0.2666	0.03414	0.1004	0.2834
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4239	0.8853	0.1297	0.3991	0.007354	0.7107
		Q(ilm)					

0.5627

mode	liq	bi	mu	pl	ilm	ky	q
	0.08711	0.2816	0	0.3084	0.01061	0.02874	0.2835

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	711.0	0.05448	0.1904	0.8298	0.01616	0.001948	0.7449
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7358	0.4399	0.2640	0.03407	0.1012	0.2838
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4253	0.8818	0.1269	0.3991	0.007482	0.7085
		Q(ilm)					

0.5575

mode	liq	bi	mu	pl	ilm	ky	q
	0.08747	0.2815	0	0.3081	0.01056	0.02895	0.2834

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	714.0	0.05380	0.1912	0.8294	0.01677	0.002073	0.7466
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7349	0.4400	0.2614	0.03400	0.1021	0.2841	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4267	0.8784	0.1241	0.3991	0.007611	0.7064	
	Q(ilm)						

0.5522

mode	liq	bi	mu	pl	ilm	ky	q
	0.08783	0.2814	0	0.3079	0.01050	0.02916	0.2833

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	717.0	0.05314	0.1920	0.8291	0.01740	0.002206	0.7482
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7341	0.4400	0.2589	0.03393	0.1030	0.2845	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4281	0.8749	0.1215	0.3990	0.007741	0.7042	
	Q(ilm)						

0.5468

mode	liq	bi	mu	pl	ilm	ky	q
	0.08821	0.2812	0	0.3076	0.01045	0.02936	0.2832

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	719.9	0.05249	0.1928	0.8287	0.01805	0.002347	0.7497
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7332	0.4401	0.2563	0.03386	0.1038	0.2848	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4295	0.8714	0.1189	0.3990	0.007872	0.7020	
	Q(ilm)						

0.5413

mode	liq	bi	mu	pl	ilm	ky	q
	0.08860	0.2811	0	0.3073	0.01039	0.02957	0.2831

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	722.9	0.05186	0.1935	0.8284	0.01873	0.002496	0.7513
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7322	0.4402	0.2539	0.03379	0.1047	0.2851	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4308	0.8679	0.1165	0.3989	0.008005	0.6998	
	Q(ilm)						

0.5357

mode	liq	bi	mu	pl	ilm	ky	q
	0.08900	0.2810	0	0.3070	0.01034	0.02977	0.2829

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	725.8	0.05124	0.1943	0.8280	0.01942	0.002653	0.7528
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7313	0.4402	0.2514	0.03371	0.1056	0.2854	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4321	0.8644	0.1141	0.3988	0.008138	0.6975	
	Q(ilm)						
	0.5299						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08941	0.2809	0	0.3067	0.01029	0.02997	0.2828

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	728.8	0.05064	0.1950	0.8276	0.02014	0.002820	0.7543
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7303	0.4403	0.2490	0.03364	0.1065	0.2857	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4335	0.8609	0.1118	0.3987	0.008273	0.6952	
	Q(ilm)						
	0.524						

mode	liq	bi	mu	pl	ilm	ky	q
	0.08983	0.2807	0	0.3063	0.01023	0.03016	0.2827

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	731.7	0.05005	0.1958	0.8272	0.02088	0.002996	0.7558
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7292	0.4403	0.2467	0.03356	0.1073	0.2859	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4348	0.8574	0.1096	0.3986	0.008409	0.6929	
	Q(ilm)						
	0.5179						

mode	liq	bi	mu	pl	ilm	ky	q
	0.09027	0.2806	0	0.3060	0.01018	0.03036	0.2826

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	734.7	0.04948	0.1965	0.8268	0.02165	0.003183	0.7573
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7282	0.4404	0.2443	0.03349	0.1082	0.2861	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4360	0.8538	0.1074	0.3985	0.008547	0.6905	
	Q(ilm)						
	0.5117						

mode	liq	bi	mu	pl	ilm	ky	q
	0.09071	0.2805	0	0.3057	0.01012	0.03055	0.2824

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	737.6	0.04892	0.1972	0.8264	0.02244	0.003380	0.7587
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7271	0.4404	0.2420	0.03341	0.1091	0.2863	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4373	0.8502	0.1053	0.3984	0.008686	0.6881	
	Q(ilm)						
	0.5053						

mode	liq	bi	mu	pl	ilm	ky	q
	0.09117	0.2803	0	0.3054	0.01007	0.03073	0.2823

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.20	740.6	0.04838	0.1978	0.8259	0.02325	0.003588	0.7601
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7260	0.4404	0.2397	0.03333	0.1100	0.2865	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4385	0.8466	0.1033	0.3982	0.008827	0.6856	
	Q(ilm)						
	0.4988						

mode	liq	bi	mu	pl	ilm	ky	q
	0.09165	0.2802	0	0.3050	0.01002	0.03092	0.2822

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.40	743.5	0.04784	0.1985	0.8255	0.02409	0.003808	0.7615
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7248	0.4404	0.2375	0.03325	0.1109	0.2867	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4398	0.8430	0.1013	0.3980	0.008970	0.6831	
	Q(ilm)						
	0.4921						

mode	liq	bi	mu	pl	ilm	ky	q
	0.09213	0.2800	0	0.3047	0.009962	0.03110	0.2821

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.60	746.5	0.04732	0.1991	0.8249	0.02496	0.004041	0.7629
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7236	0.4404	0.2353	0.03317	0.1118	0.2869	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4410	0.8394	0.09943	0.3979	0.009115	0.6806	
	Q(ilm)						
	0.4852						

mode	liq	bi	mu	pl	ilm	ky	q
	0.09264	0.2799	0	0.3044	0.009908	0.03128	0.2819

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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15.80 749.4 0.04682 0.1998 0.8244 0.02585 0.004286 0.7643
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7223 0.4404 0.2331 0.03308 0.1127 0.2870
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4422 0.8358 0.09758 0.3977 0.009262 0.6780
Q(ilm)
0.4781

mode	liq	bi	mu	pl	ilm	ky	q
	0.09316	0.2797	0	0.3040	0.009854	0.03146	0.2818

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 752.4 0.04632 0.2004 0.8238 0.02677 0.004545 0.7656
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7211 0.4404 0.2310 0.03300 0.1136 0.2871
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4433 0.8322 0.09578 0.3975 0.009412 0.6754
Q(ilm)
0.4708

mode	liq	bi	mu	pl	ilm	ky	q
	0.09369	0.2795	0	0.3037	0.009799	0.03163	0.2817

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 755.4 0.04584 0.2010 0.8232 0.02772 0.004817 0.7669
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7197 0.4403 0.2289 0.03292 0.1145 0.2872
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4445 0.8285 0.09404 0.3972 0.009564 0.6727
Q(ilm)
0.4632

mode	liq	bi	mu	pl	ilm	ky	q
	0.09424	0.2794	0	0.3033	0.009745	0.03181	0.2815

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 758.3 0.04537 0.2016 0.8226 0.02869 0.005105 0.7682
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7184 0.4403 0.2268 0.03284 0.1155 0.2873
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4456 0.8249 0.09234 0.3970 0.009719 0.6700
Q(ilm)
0.4554

mode	liq	bi	mu	pl	ilm	ky	q
	0.09481	0.2792	0	0.3029	0.009690	0.03198	0.2814

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 761.3 0.04491 0.2021 0.8219 0.02970 0.005408 0.7695
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7170 0.4402 0.2248 0.03275 0.1164 0.2873
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4467 0.8212 0.09068 0.3967 0.009877 0.6673
Q(ilm)

0.4474

mode	liq	bi	mu	pl	ilm	ky	q
	0.09540	0.2790	0	0.3026	0.009635	0.03215	0.2813

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 764.3 0.04447 0.2027 0.8211 0.03073 0.005727 0.7708
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7155 0.4402 0.2228 0.03267 0.1173 0.2874
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4478 0.8175 0.08907 0.3964 0.01004 0.6645
Q(ilm)

0.4391

mode	liq	bi	mu	pl	ilm	ky	q
	0.09601	0.2788	0	0.3022	0.009580	0.03231	0.2811

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 767.3 0.04403 0.2032 0.8203 0.03180 0.006063 0.7720
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7140 0.4401 0.2208 0.03259 0.1183 0.2874
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4489 0.8139 0.08750 0.3961 0.01020 0.6616
Q(ilm)

0.4305

mode	liq	bi	mu	pl	ilm	ky	q
	0.09664	0.2786	0	0.3018	0.009524	0.03248	0.2810

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 770.3 0.04361 0.2037 0.8195 0.03289 0.006417 0.7733
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7125 0.4400 0.2189 0.03250 0.1193 0.2874
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4499 0.8102 0.08597 0.3958 0.01037 0.6587
Q(ilm)

0.4215

mode	liq	bi	mu	pl	ilm	ky	q
	0.09729	0.2784	0	0.3014	0.009469	0.03264	0.2808

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 773.3 0.04320 0.2042 0.8186 0.03402 0.006789 0.7745
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7109 0.4398 0.2170 0.03242 0.1202 0.2874
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)

0.4509 0.8065 0.08448 0.3955 0.01054 0.6557
Q(ilm)

0.4123

mode	liq	bi	mu	pl	ilm	ky	q
	0.09797	0.2781	0	0.3010	0.009413	0.03280	0.2807

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 776.3 0.04279 0.2047 0.8176 0.03518 0.007180 0.7756
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7093 0.4397 0.2151 0.03234 0.1212 0.2873
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4519 0.8028 0.08302 0.3951 0.01072 0.6527
Q(ilm)

0.4026

mode	liq	bi	mu	pl	ilm	ky	q
	0.09866	0.2779	0	0.3006	0.009357	0.03296	0.2805

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 779.3 0.04240 0.2052 0.8166 0.03637 0.007591 0.7768
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7076 0.4395 0.2132 0.03225 0.1222 0.2873
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4529 0.7991 0.08160 0.3947 0.01090 0.6496
Q(ilm)

0.3926

mode	liq	bi	mu	pl	ilm	ky	q
	0.09938	0.2777	0	0.3002	0.009300	0.03311	0.2804

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 782.3 0.04202 0.2057 0.8154 0.03760 0.008022 0.7779
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7059 0.4393 0.2114 0.03217 0.1232 0.2872
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4539 0.7954 0.08020 0.3943 0.01108 0.6464
Q(ilm)

0.3821

mode	liq	bi	mu	pl	ilm	ky	q
	0.1001	0.2774	0	0.2998	0.009244	0.03326	0.2802

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 785.3 0.04165 0.2061 0.8142 0.03886 0.008475 0.7791
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7041 0.4391 0.2096 0.03209 0.1242 0.2871
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4548 0.7917 0.07884 0.3939 0.01127 0.6432
Q(ilm)

0.3711

mode	liq	bi	mu	pl	ilm	ky	q
	0.1009	0.2771	0	0.2993	0.009187	0.03342	0.2800

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.40	788.4	0.04129	0.2065	0.8130	0.04015	0.008950	0.7802
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7023	0.4389	0.2078	0.03201	0.1252	0.2870	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4557	0.7880	0.07752	0.3934	0.01147	0.6399	
	Q(ilm)						

0.3596

mode	liq	bi	mu	pl	ilm	ky	q
	0.1017	0.2768	0	0.2989	0.009129	0.03357	0.2799

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.60	791.4	0.04094	0.2069	0.8116	0.04148	0.009447	0.7812
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7005	0.4387	0.2061	0.03193	0.1262	0.2868	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4566	0.7843	0.07621	0.3929	0.01166	0.6365	
	Q(ilm)						

0.3476

mode	liq	bi	mu	pl	ilm	ky	q
	0.1025	0.2765	0	0.2984	0.009072	0.03371	0.2797

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.80	794.5	0.04060	0.2073	0.8102	0.04284	0.009969	0.7823
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6985	0.4384	0.2044	0.03185	0.1273	0.2867	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4574	0.7806	0.07494	0.3924	0.01187	0.6331	
	Q(ilm)						

0.3348

mode	liq	bi	mu	pl	ilm	ky	q
	0.1034	0.2762	0	0.2980	0.009014	0.03386	0.2795

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.00	797.5	0.04027	0.2077	0.8086	0.04423	0.01051	0.7833
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6966	0.4381	0.2027	0.03177	0.1283	0.2865	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4582	0.7769	0.07370	0.3918	0.01208	0.6296	
	Q(ilm)						

0.3213

mode	liq	bi	mu	pl	ilm	ky	q
	0.1043	0.2759	0	0.2975	0.008956	0.03401	0.2793

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.20	800.6	0.03995	0.2081	0.8069	0.04567	0.01109	0.7843
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6945	0.4378	0.2011	0.03169	0.1294	0.2863	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4590	0.7732	0.07248	0.3912	0.01230	0.6261	
	Q(ilm)						
	0.307						

mode	liq	bi	mu	pl	ilm	ky	q
	0.1052	0.2756	0	0.2971	0.008898	0.03415	0.2791

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.40	803.7	0.03963	0.2084	0.8052	0.04714	0.01168	0.7853
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6924	0.4374	0.1995	0.03161	0.1305	0.2861	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4597	0.7695	0.07128	0.3906	0.01252	0.6224	
	Q(ilm)						
	0.2917						

mode	liq	bi	mu	pl	ilm	ky	q
	0.1062	0.2752	0	0.2966	0.008839	0.03429	0.2789

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.60	806.8	0.03933	0.2087	0.8033	0.04864	0.01230	0.7863
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6903	0.4370	0.1979	0.03153	0.1316	0.2859	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4605	0.7658	0.07012	0.3900	0.01275	0.6187	
	Q(ilm)						
	0.2752						

mode	liq	bi	mu	pl	ilm	ky	q
	0.1071	0.2748	0	0.2961	0.008781	0.03443	0.2788

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.80	809.9	0.03904	0.2090	0.8013	0.05018	0.01295	0.7872
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6881	0.4366	0.1963	0.03145	0.1327	0.2857	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4611	0.7621	0.06897	0.3893	0.01299	0.6149	
	Q(ilm)						
	0.2574						

mode	liq	bi	mu	pl	ilm	ky	q
	0.1082	0.2744	0	0.2956	0.008722	0.03457	0.2785

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
20.00    813.0  0.03875  0.2093  0.7992  0.05176  0.01363  0.7881
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.6859  0.4362  0.1947  0.03137  0.1339  0.2855
          fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
          0.4618  0.7585  0.06785  0.3885  0.01323  0.6110
          Q(ilm)
0.2379

```

```

mode  liq  bi  mu  pl  ilm  ky  q
0.1092  0.2740  0  0.2951  0.008663  0.03471  0.2783
calcs use:

```

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, mu, pl, ilm, ky, H2O, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
9.60     684.2  0.07722  0.1955  0.7874  0.0087280  0.0007054  0.7218
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7150  0.4408  0.3478  0.03567  0.09664  0.2441
          fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
          0.4068  0.9275  0.1390  0.3685  0.009232  0.7194
          Q(ilm)
0.5897

```

```

mode  liq  bi  mu  pl  ilm  ky  q  H2O
0.002245  0.2885  0  0.3421  0.01048  0.02193  0.3011  0.03362

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
9.80     684.7  0.07537  0.1944  0.7926  0.0089910  0.0007445  0.7228
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7178  0.4407  0.3414  0.03560  0.09645  0.2477
          fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
          0.4076  0.9258  0.1404  0.3708  0.008941  0.7200
          Q(ilm)
0.5903

```

```

mode  liq  bi  mu  pl  ilm  ky  q  H2O
0.008780  0.2879  0  0.3397  0.01053  0.02247  0.2995  0.03117

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.00    685.1  0.07357  0.1933  0.7976  0.0092660  0.0007854  0.7239
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7206  0.4405  0.3352  0.03552  0.09626  0.2512
          fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)
          0.4084  0.9240  0.1417  0.3732  0.008659  0.7205

```

Q(ilm)

0.5909

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.01556	0.2873	0	0.3372	0.01057	0.02300	0.2978	0.02857

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	685.6	0.07183	0.1923	0.8023	0.009554	0.0008282	0.7249
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7232	0.4404	0.3290	0.03543	0.09607	0.2547
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4092	0.9222	0.1430	0.3757	0.008386	0.7210

Q(ilm)

0.5914

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.02259	0.2867	0	0.3345	0.01062	0.02352	0.2962	0.02584

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	686.1	0.07014	0.1912	0.8069	0.009856	0.0008728	0.7259
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7258	0.4402	0.3228	0.03534	0.09590	0.2582
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4100	0.9203	0.1442	0.3783	0.008122	0.7214

Q(ilm)

0.5918

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.02987	0.2861	0	0.3317	0.01067	0.02404	0.2946	0.02296

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	686.6	0.06849	0.1901	0.8112	0.010170	0.0009194	0.7269
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7283	0.4401	0.3168	0.03523	0.09573	0.2617
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4107	0.9183	0.1454	0.3811	0.007867	0.7218

Q(ilm)

0.5921

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.03740	0.2856	0	0.3288	0.01071	0.02455	0.2930	0.01994

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.80	687.0	0.06690	0.1890	0.8154	0.010500	0.0009679	0.7279
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7307	0.4399	0.3108	0.03512	0.09557	0.2651
		fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)
		0.4114	0.9164	0.1465	0.3839	0.007619	0.7222

Q(ilm)

0.5924

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.04518	0.2850	0	0.3258	0.01075	0.02506	0.2914	0.01678

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	687.5	0.06535	0.1879	0.8193	0.01085	0.001019	0.7289
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7330	0.4398	0.3049	0.03500	0.09541	0.2685	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4121	0.9143	0.1475	0.3869	0.007380	0.7225	
	Q(ilm)						
	0.5927						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.05321	0.2844	0	0.3227	0.01080	0.02556	0.2899	0.01348

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	688.0	0.06385	0.1868	0.8231	0.01121	0.001071	0.7299
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7353	0.4396	0.2991	0.03488	0.09526	0.2718	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4128	0.9123	0.1484	0.3900	0.007149	0.7228	
	Q(ilm)						
	0.5928						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.06149	0.2838	0	0.3194	0.01084	0.02605	0.2883	0.01002

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	688.5	0.06239	0.1857	0.8267	0.01159	0.001126	0.7308
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7375	0.4394	0.2934	0.03475	0.09512	0.2751	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4135	0.9101	0.1493	0.3933	0.006924	0.7230	
	Q(ilm)						
	0.5929						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
	0.07002	0.2833	0	0.3161	0.01089	0.02653	0.2868	0.006426

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	689.0	0.06097	0.1846	0.8301	0.01199	0.001184	0.7317
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7397	0.4392	0.2877	0.03461	0.09498	0.2784	
	fe(mu)	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	
	0.4142	0.9080	0.1501	0.3967	0.006707	0.7232	
	Q(ilm)						
	0.593						

mode	liq	bi	mu	pl	ilm	ky	q	H2O
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0.07881 0.2827 0 0.3126 0.01093 0.02700 0.2853 0.002681

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.53 684.0 0.07789 0.1959 0.7855 0.0086390.0006919 0.7214
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7140 0.4409 0.3500 0.03570 0.09671 0.2428
fe(mu) y(mu) na(mu) ca(pl) k(pl) x(ilm)
0.4065 0.9282 0.1385 0.3678 0.009337 0.7192
Q(ilm)
0.5894

mode liq bi mu pl ilm ky q H2O
0 0.2887 0 0.3430 0.01047 0.02174 0.3017 0.03445

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 749.0 0.07604 0.2268 0.6941 0.01669 0.001468 0.7253
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6760 0.3989 0.3242 0.03904 0.1262 0.2353
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7603 0.1611 0.01471 0.3939 0.8876 0.07583
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3827 0.01773 0.6669 0.4570 0.1155 0.2541

mode liq bi g mu pl ilm ru ky q
0.1155 0.2541 0.03410 0 0.2949 0.0087020.0002629 0.02129 0.2712

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 756.7 0.07707 0.2319 0.6766 0.01766 0.001558 0.7250
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6687 0.3940 0.3239 0.03982 0.1298 0.2326
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7548 0.1622 0.01548 0.3919 0.8844 0.07096
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.3791 0.01973 0.6335 0.3794 0.1199 0.2496

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1199	0.2496	0.03956		0	0.2926	0.0079130	0.0005850	0.02092 0.2689

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	764.1	0.07811	0.2369	0.6587	0.01865	0.001647	0.7245
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6615	0.3889	0.3232	0.04053	0.1334	0.2301	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7492	0.1634	0.01624	0.3897	0.8812	0.06668	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3749	0.02190	0.5804	0.2154	0.1246	0.2447	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1246	0.2447	0.04556		0	0.2903	0.0069680	0.0009975	0.02055 0.2664

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.60	770.9	0.07903	0.2414	0.6415	0.01965	0.001727	0.7234
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6549	0.3832	0.3220	0.04123	0.1368	0.2280	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7433	0.1653	0.01708	0.3866	0.8782	0.06306	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3707	0.02411	0.5515	0.001851	0.1291	0.2398	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1291	0.2398	0.05094		0	0.2881	0.006506	0.001180	0.02035 0.2640

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	777.3	0.07984	0.2456	0.6249	0.02064	0.001799	0.7218
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6487	0.3770	0.3204	0.04198	0.1401	0.2263	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7372	0.1677	0.01804	0.3830	0.8753	0.05996	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3663	0.02636	0.54830	0.0007912	0.1337	0.2348	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1337	0.2348	0.05594		0	0.2860	0.006371	0.001208	0.02028 0.2617

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	783.4	0.08059	0.2497	0.6086	0.02163	0.001864	0.7200
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6428	0.3706	0.3184	0.04276	0.1433	0.2247	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7310	0.1703	0.01907	0.3790	0.8725	0.05724	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3615	0.02873	0.54480	0.0004950	0.1382	0.2297	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1382	0.2297	0.06114		0	0.2839	0.006224	0.001250	0.02026 0.2594

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	789.1	0.08127	0.2535	0.5928	0.02261	0.001924	0.7179
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6372	0.3641	0.3163	0.04356	0.1464	0.2232	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7248	0.1731	0.02016	0.3747	0.8697	0.05487	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3562	0.03122	0.54080	0.0003558	0.1429	0.2244	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1429	0.2244	0.06652		0	0.2816	0.006063	0.001306	0.02028 0.2570

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	794.6	0.08187	0.2572	0.5775	0.02357	0.001978	0.7155
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6319	0.3574	0.3139	0.04437	0.1494	0.2219	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7184	0.1761	0.02131	0.3702	0.8670	0.05278	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3504	0.03383	0.53650	0.0002753	0.1475	0.2189	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1475	0.2189	0.07208		0	0.2794	0.005890	0.001375	0.02034 0.2545

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	799.8	0.08239	0.2607	0.5628	0.02451	0.002025	0.7129
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6269	0.3506	0.3114	0.04521	0.1522	0.2206	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7118	0.1793	0.02254	0.3655	0.8644	0.05095	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3442	0.03658	0.53190	0.0002229	0.1521	0.2134	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1521	0.2134	0.07778		0	0.2770	0.005705	0.001456	0.02043 0.2521

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	804.7	0.08283	0.2640	0.5488	0.02543	0.002066	0.7102
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6222	0.3438	0.3087	0.04606	0.1550	0.2194	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7052	0.1825	0.02382	0.3606	0.8617	0.04935	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.3375	0.03945	0.52700	0.0001863	0.1568	0.2078	

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1568	0.2078	0.08362		0	0.2746	0.005508	0.001549	0.02057 0.2496

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.00	809.4	0.08319	0.2671	0.5355	0.02632	0.002102	0.7072				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6177	0.3369	0.3059	0.04692	0.1577	0.2182					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6985	0.1858	0.02516	0.3555	0.8592	0.04794					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.3304	0.04248	0.52190	0.0001592	0.1613	0.2021					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1613	0.2021	0.08957		0	0.2721	0.005299	0.001652	0.02075 0.2472

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.20	813.8	0.08347	0.2701	0.5230	0.02718	0.002132	0.7041				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6136	0.3300	0.3031	0.04778	0.1603	0.2170					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6917	0.1891	0.02655	0.3503	0.8566	0.04671					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.3228	0.04568	0.51660	0.0001385	0.1659	0.1963					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1659	0.1963	0.09561		0	0.2696	0.005079	0.001764	0.02096 0.2448

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.40	818.1	0.08367	0.2730	0.5112	0.02801	0.002158	0.7009				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6097	0.3231	0.3001	0.04864	0.1628	0.2157					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6848	0.1925	0.02799	0.3450	0.8540	0.04562					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.3148	0.04905	0.51120	0.0001222	0.1703	0.1906					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1703	0.1906	0.1017		0	0.2670	0.004848	0.001884	0.02120 0.2424

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.60	822.2	0.08380	0.2756	0.5002	0.02880	0.002179	0.6976				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.6061	0.3163	0.2971	0.04950	0.1652	0.2145					
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)					
	0.6779	0.1958	0.02947	0.3396	0.8515	0.04467					
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi					
	0.3063	0.05263	0.50560	0.0001093	0.1747	0.1848					

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1747	0.1848	0.1079		0	0.2644	0.004609	0.002012	0.02147 0.2400

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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14.80 826.1 0.08385 0.2781 0.4900 0.02955 0.002197 0.6941
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6028 0.3096 0.2941 0.05035 0.1675 0.2132
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6708 0.1990 0.03098 0.3342 0.8490 0.04384
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2975 0.05644 0.5000 9.836e-5 0.1790 0.1790

mode liq bi g mu pl ilm ru ky q
 0.1790 0.1790 0.1142 0 0.2618 0.004360 0.002146 0.02177 0.2377

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 829.8 0.08384 0.2805 0.4805 0.03027 0.002212 0.6906
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5998 0.3029 0.2910 0.05120 0.1698 0.2119
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6637 0.2021 0.03250 0.3288 0.8465 0.04311
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2883 0.06051 0.4942 8.931e-5 0.1832 0.1732

mode liq bi g mu pl ilm ru ky q
 0.1832 0.1732 0.1205 0 0.2592 0.004105 0.002286 0.02209 0.2354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 833.4 0.08376 0.2827 0.4719 0.03094 0.002224 0.6870
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5970 0.2964 0.2880 0.05203 0.1719 0.2105
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6566 0.2051 0.03404 0.3234 0.8440 0.04247
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2787 0.06487 0.4885 8.168e-5 0.1874 0.1674

mode liq bi g mu pl ilm ru ky q
 0.1874 0.1674 0.1268 0 0.2566 0.003842 0.002431 0.02243 0.2332

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 836.9 0.08363 0.2848 0.4640 0.03158 0.002234 0.6834
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5944 0.2899 0.2849 0.05285 0.1740 0.2091
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6494 0.2079 0.03558 0.3180 0.8414 0.04191
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2688 0.06957 0.4827 7.516e-5 0.1914 0.1617

mode liq bi g mu pl ilm ru ky q
 0.1914 0.1617 0.1331 0 0.2540 0.003575 0.002581 0.02277 0.2310

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 840.3 0.08343 0.2868 0.4569 0.03217 0.002242 0.6797
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5921 0.2836 0.2819 0.05366 0.1760 0.2076
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6421 0.2105 0.03712 0.3127 0.8389 0.04143
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2586 0.07466 0.4770 6.953e-5 0.1952 0.1559

mode liq bi g mu pl ilm ru ky q
 0.1952 0.1559 0.1395 0 0.2515 0.003303 0.002735 0.02313 0.2288

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 843.5 0.08317 0.2885 0.4506 0.03273 0.002248 0.6760
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5901 0.2774 0.2788 0.05445 0.1779 0.2061
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6348 0.2130 0.03864 0.3073 0.8364 0.04101
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2482 0.08020 0.4712 6.462e-5 0.1990 0.1501

mode liq bi g mu pl ilm ru ky q
 0.1990 0.1501 0.1458 0 0.2490 0.003027 0.002892 0.02348 0.2267

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 846.7 0.08286 0.2902 0.4452 0.03324 0.002254 0.6722
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5883 0.2713 0.2758 0.05523 0.1798 0.2045
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6274 0.2152 0.04014 0.3020 0.8339 0.04066
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2374 0.08626 0.4654 6.029e-5 0.2027 0.1442

mode liq bi g mu pl ilm ru ky q
 0.2027 0.1442 0.1522 0 0.2467 0.002749 0.003054 0.02384 0.2246

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 849.7 0.08249 0.2916 0.4407 0.03372 0.002258 0.6684
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5868 0.2653 0.2728 0.05599 0.1816 0.2029
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6200 0.2173 0.04163 0.2967 0.8314 0.04037
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2264 0.09294 0.4597 5.646e-5 0.2062 0.1384

mode liq bi g mu pl ilm ru ky q
 0.2062 0.1384 0.1586 0 0.2444 0.002468 0.003219 0.02419 0.2225

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.40 852.6 0.08205 0.2929 0.4372 0.03415 0.002261 0.6645
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5856 0.2594 0.2698 0.05674 0.1833 0.2012
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6126 0.2192 0.04310 0.2915 0.8288 0.04014
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2151 0.1004 0.4540 5.303e-5 0.2095 0.1325

mode liq bi g mu pl ilm ru ky q
0.2095 0.1325 0.1651 0 0.2423 0.002185 0.003389 0.02454 0.2205

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 855.5 0.08154 0.2941 0.4349 0.03453 0.002263 0.6606
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5846 0.2537 0.2667 0.05748 0.1849 0.1995
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6051 0.2210 0.04455 0.2863 0.8263 0.03997
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2035 0.1088 0.4482 4.994e-5 0.2127 0.1266

mode liq bi g mu pl ilm ru ky q
0.2127 0.1266 0.1716 0 0.2403 0.001899 0.003563 0.02489 0.2185

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 858.2 0.08095 0.2950 0.4340 0.03486 0.002263 0.6566
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5840 0.2479 0.2637 0.05820 0.1864 0.1978
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5975 0.2226 0.04599 0.2810 0.8237 0.03986
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1915 0.1184 0.4425 4.712e-5 0.2157 0.1205

mode liq bi g mu pl ilm ru ky q
0.2157 0.1205 0.1782 0 0.2384 0.001608 0.003742 0.02523 0.2166

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 860.7 0.08025 0.2956 0.4352 0.03513 0.002262 0.6524
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5839 0.2422 0.2607 0.05892 0.1878 0.1960
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5897 0.2242 0.04745 0.2757 0.8211 0.03984
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1789 0.1296 0.4366 4.454e-5 0.2185 0.1144

mode liq bi g mu pl ilm ru ky q
0.2185 0.1144 0.1850 0 0.2367 0.001308 0.003929 0.02558 0.2147

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 863.1 0.07939 0.2959 0.4392 0.03533 0.002259 0.6480
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5843 0.2365 0.2576 0.05965 0.1891 0.1941
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5818 0.2258 0.04896 0.2702 0.8185 0.03991
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1656 0.1433 0.4305 4.212e-5 0.2209 0.1080

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2209	0.1080	0.1920		0	0.23520	0.0009925	0.004126	0.02597 0.2128

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 865.2 0.07826 0.2958 0.4482 0.03539 0.002252 0.6433
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5855 0.2306 0.2543 0.06039 0.1902 0.1923
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5736 0.2278 0.05061 0.2644 0.8159 0.04016
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1508 0.1609 0.4242 3.982e-5 0.2229 0.1013

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2229	0.1013	0.1995		0	0.23390	0.0006450	0.004340	0.02643 0.2110

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 866.7 0.07658 0.2950 0.4673 0.03521 0.002235 0.6378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5883 0.2242 0.2507 0.06120 0.1910 0.1903
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5649 0.2308 0.05261 0.2580 0.8133 0.04074
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1330 0.1865 0.4169 3.752e-5 0.2241 0.09398

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.2241	0.09398	0.2080		0	0.23280	0.0002236	0.004586	0.02709 0.2093

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 858.5 0.1420 0.3148 0.4968 0.02674 0.004859 0.6679
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4932 0.2884 0.3520 0.04183 0.1845 0.1746
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5783 0.03654 0.006524 0.4061 0.04176 0.6940
Q(ilm)
0.412

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2723	0.1427	0.1160	0.2643	0.011030	0.0001510		0 0.1936

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 860.0 0.1408 0.3153 0.4911 0.02735 0.004835 0.6676

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4941 0.2867 0.3491 0.04252 0.1853 0.1749
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5771 0.03823 0.006816 0.4030 0.04305 0.6748
Q(ilm)

0.3626

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2733	0.1398	0.1192	0.2641	0.010420	0.0005028	0	0.1927

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 861.6 0.1395 0.3159 0.4853 0.02797 0.004807 0.6672
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4950 0.2849 0.3463 0.04318 0.1862 0.1751
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5758 0.04001 0.007117 0.3999 0.04439 0.6530
Q(ilm)

0.2984

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2742	0.1370	0.1223	0.2639	0.0098120	0.0008523	0	0.1919

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 863.1 0.1382 0.3163 0.4796 0.02859 0.004775 0.6668
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4958 0.2831 0.3435 0.04379 0.1870 0.1754
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5746 0.04187 0.007427 0.3966 0.04576 0.6277
Q(ilm)

0.2017

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2752	0.1341	0.1256	0.2637	0.009207	0.001205	0	0.1910

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 864.7 0.1370 0.3168 0.4737 0.02924 0.004743 0.6660
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4965 0.2808 0.3407 0.04440 0.1879 0.1755
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5728 0.04376 0.007754 0.3932 0.04721 0.6043
Q(ilm)

0.004931

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2765	0.1309	0.1289	0.2635	0.008714	0.001506	0	0.1900

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 866.8 0.1360 0.3176 0.4674 0.02998 0.004715 0.6644
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2774 0.3376 0.04511 0.1891 0.1753

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5694 0.04556 0.008121 0.3898 0.04877 0.5980
Q(ilm)

0.001078

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2787	0.1272	0.1323	0.2630	0.008567	0.001647	0	0.1887

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 868.8 0.1351 0.3184 0.4611 0.03072 0.004684 0.6626
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2740 0.3345 0.04583 0.1902 0.1751
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5659 0.04743 0.008507 0.3862 0.05039 0.5916
Q(ilm)

0.000599

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2809	0.1234	0.1357	0.2625	0.008422	0.001789	0	0.1874

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 870.7 0.1341 0.3191 0.4548 0.03147 0.004648 0.6608
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4967 0.2705 0.3314 0.04655 0.1914 0.1748
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5624 0.04937 0.008916 0.3824 0.05207 0.5852
Q(ilm)

0.000412

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2831	0.1195	0.1392	0.2619	0.008278	0.001932	0	0.1861

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 872.7 0.1331 0.3198 0.4486 0.03223 0.004610 0.6589
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4967 0.2670 0.3283 0.04727 0.1926 0.1745
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5588 0.05140 0.009348 0.3785 0.05382 0.5787
Q(ilm)

0.000312

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2854	0.1155	0.1429	0.2613	0.008135	0.002078	0	0.1847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 874.6 0.1322 0.3204 0.4423 0.03299 0.004568 0.6569
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4968 0.2635 0.3252 0.04800 0.1937 0.1742
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5551 0.05350 0.009805 0.3743 0.05565 0.5722

Q(ilm)

0.000249

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2876	0.1115	0.1466	0.2607	0.007993	0.002225	0	0.1834

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	876.5	0.1312	0.3211	0.4361	0.03375	0.004522	0.6548
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4968	0.2599	0.3222	0.04872	0.1949	0.1738
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5513	0.05568	0.01029	0.3700	0.05756	0.5656

Q(ilm)

0.000207

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2900	0.1074	0.1504	0.2601	0.007851	0.002375	0	0.1820

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	878.4	0.1302	0.3217	0.4300	0.03452	0.004474	0.6526
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4968	0.2562	0.3191	0.04946	0.1960	0.1733
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5474	0.05795	0.01080	0.3654	0.05957	0.5590

Q(ilm)

0.000176

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2923	0.1032	0.1543	0.2594	0.007708	0.002529	0	0.1806

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.60	880.2	0.1293	0.3224	0.4238	0.03529	0.004422	0.6504
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4968	0.2525	0.3160	0.05019	0.1972	0.1728
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5434	0.06029	0.01135	0.3605	0.06169	0.5523

Q(ilm)

0.000153

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2948	0.09890	0.1583	0.2586	0.007565	0.002685	0	0.1791

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	882.1	0.1283	0.3230	0.4177	0.03606	0.004368	0.6480
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4968	0.2488	0.3130	0.05093	0.1983	0.1722
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5393	0.06271	0.01192	0.3554	0.06393	0.5456

Q(ilm)

0.000134

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2973	0.09449	0.1625	0.2578	0.007420	0.002845	0	0.1777

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	883.9	0.1274	0.3236	0.4116	0.03683	0.004311	0.6455
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4968	0.2450	0.3100	0.05168	0.1995	0.1715	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5351	0.06521	0.01253	0.3501	0.06631	0.5389	
	Q(ilm)						
	0.00012						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2998	0.08997	0.1668	0.2570	0.007275	0.003008	0	0.1762

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	885.8	0.1264	0.3243	0.4057	0.03761	0.004254	0.6429
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4968	0.2411	0.3070	0.05242	0.2006	0.1708	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5307	0.06778	0.01317	0.3444	0.06885	0.5321	
	Q(ilm)						
	0.000107						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3024	0.08533	0.1712	0.2560	0.007127	0.003175	0	0.1747

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	887.7	0.1255	0.3249	0.3998	0.03838	0.004194	0.6402
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4968	0.2372	0.3040	0.05316	0.2018	0.1700	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5262	0.07042	0.01386	0.3385	0.07157	0.5253	
	Q(ilm)						
	9.72E-05						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3051	0.08055	0.1758	0.2550	0.006977	0.003347	0	0.1731

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	889.5	0.1245	0.3256	0.3940	0.03915	0.004133	0.6374
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4968	0.2332	0.3010	0.05391	0.2029	0.1691	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5216	0.07313	0.01458	0.3322	0.07449	0.5184	
	Q(ilm)						
	8.86E-05						

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.3079 0.07562 0.1806 0.2540 0.006825 0.003523 0 0.1715

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 891.4 0.1235 0.3262 0.3883 0.03991 0.004071 0.6344
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4967 0.2292 0.2981 0.05466 0.2041 0.1681
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5168 0.07589 0.01534 0.3256 0.07766 0.5115
Q(ilm)

8.12E-05

mode liq bi g pl ilm ru ky q
0.3108 0.07054 0.1855 0.2529 0.006669 0.003706 0 0.1699

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 893.3 0.1225 0.3269 0.3827 0.04067 0.004007 0.6314
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4967 0.2252 0.2952 0.05541 0.2052 0.1670
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5118 0.07871 0.01614 0.3186 0.08110 0.5046
Q(ilm)

7.47E-05

mode liq bi g pl ilm ru ky q
0.3137 0.06529 0.1906 0.2517 0.006509 0.003893 0 0.1682

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 895.1 0.1216 0.3275 0.3773 0.04142 0.003942 0.6282
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2211 0.2923 0.05617 0.2064 0.1658
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5067 0.08157 0.01698 0.3112 0.08486 0.4977
Q(ilm)

6.91E-05

mode liq bi g pl ilm ru ky q
0.3168 0.05985 0.1960 0.2505 0.006345 0.004088 0 0.1665

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 897.0 0.1206 0.3282 0.3720 0.04216 0.003875 0.6249
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2169 0.2894 0.05692 0.2076 0.1646
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5014 0.08448 0.01787 0.3034 0.08900 0.4907
Q(ilm)

6.40E-05

mode liq bi g pl ilm ru ky q
0.3199 0.05423 0.2015 0.2492 0.006175 0.004289 0 0.1647

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.60 898.9 0.1196 0.3288 0.3670 0.04289 0.003808 0.6215
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4966 0.2127 0.2865 0.05768 0.2087 0.1633
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4960 0.08741 0.01880 0.2951 0.09360 0.4837
 Q(ilm)

5.96E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3230	0.04840	0.2073	0.2479	0.006000	0.004497	0	0.1629	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 900.8 0.1186 0.3293 0.3622 0.04361 0.003740 0.6179
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4966 0.2085 0.2837 0.05844 0.2099 0.1618
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4904 0.09038 0.01977 0.2863 0.09873 0.4766
 Q(ilm)

5.56E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3263	0.04235	0.2133	0.2466	0.005819	0.004713	0	0.1610	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 902.7 0.1176 0.3299 0.3577 0.04431 0.003672 0.6142
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4967 0.2043 0.2808 0.05919 0.2110 0.1603
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4846 0.09338 0.02080 0.2770 0.1045 0.4695
 Q(ilm)

5.20E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3296	0.03606	0.2195	0.2453	0.005631	0.004938	0	0.1590	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 904.5 0.1166 0.3303 0.3536 0.04499 0.003602 0.6103
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4968 0.1999 0.2780 0.05995 0.2121 0.1587
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4786 0.09641 0.02187 0.2670 0.1112 0.4624
 Q(ilm)

4.87E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3329	0.02950	0.2261	0.2439	0.005434	0.005173	0	0.1570	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 906.4 0.1156 0.3307 0.3501 0.04566 0.003532 0.6063

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4972 0.1956 0.2752 0.06072 0.2132 0.1571
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4724 0.09948 0.02300 0.2563 0.1189 0.4552
 Q(ilm)

4.57E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3363	0.02262	0.2330	0.2426	0.005227	0.005419	0	0.1549	

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 908.2 0.1145 0.3309 0.3473 0.04632 0.003461 0.6020
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4976 0.1911 0.2724 0.06150 0.2143 0.1552
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4659 0.1026 0.02419 0.2447 0.1282 0.4478
 Q(ilm)

4.29E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3396	0.01533	0.2403	0.2414	0.005007	0.005681	0	0.1527	

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 910.0 0.1134 0.3310 0.3456 0.04698 0.003387 0.5973
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4984 0.1864 0.2695 0.06230 0.2153 0.1533
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4590 0.1059 0.02548 0.2317 0.1397 0.4402
 Q(ilm)

4.03E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3430	0.007441	0.2482	0.2403	0.004769	0.005963	0	0.1504	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, H2O, (q)

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.20 689.1 0.07115 0.1926 0.8468 0.0093700 0.008224 0.6820
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7226 0.3743 0.3537 0.03764 0.1009 0.2447
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7387 0.08280 0.004627 0.3476 0.9449 0.2130
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3658 0.006803 0.7290 0.6017 0 0.2358

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.2358	0.04337	0.05555	0.3280	0.011350	0.0002004	0.2940	0.03171	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
10.40	688.5	0.06922	0.1919	0.8481	0.0095100	0.0008209	0.6814		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7254	0.3718	0.3408	0.03849	0.1009	0.2518			
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
	0.7411	0.09305	0.005369	0.3463	0.9414	0.2089			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
	0.3637	0.006793	0.7133	0.5780	0	0.2329			

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.2329	0.04632	0.05862	0.3265	0.010710	0.0005466	0.2928	0.03160	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
10.60	687.8	0.06731	0.1913	0.8496	0.0096350	0.0008163	0.6805		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7282	0.3689	0.3278	0.03936	0.1009	0.2591			
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
	0.7435	0.1049	0.006322	0.3446	0.9379	0.2051			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
	0.3610	0.006785	0.6933	0.5468	0	0.2299			

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.2299	0.04968	0.06187	0.3247	0.0099930	0.0009298	0.2915	0.03148	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
10.80	686.9	0.06538	0.1907	0.8513	0.0097360	0.0008082	0.6793		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7310	0.3657	0.3147	0.04022	0.1008	0.2665			
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
	0.7460	0.1187	0.007563	0.3426	0.9342	0.2017			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
	0.3575	0.006781	0.6655	0.5010	0	0.2266			

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.2266	0.05360	0.06536	0.3224	0.009159	0.001373	0.2902	0.03134	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
11.00	685.9	0.06343	0.1901	0.8534	0.0097970	0.0007961	0.6779		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7338	0.3624	0.3014	0.04103	0.1007	0.2741			
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
	0.7488	0.1348	0.009196	0.3402	0.9304	0.1987			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
	0.3527	0.006787	0.6153	0.4082	0	0.2230			

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
0	0.2230	0.05845	0.06914	0.3194	0.008010	0.001973	0.2888	0.03119	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 684.5 0.06143 0.1895 0.8558 0.0097980.0007797 0.6764
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7366 0.3591 0.2878 0.04163 0.1005 0.2820
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7518 0.1535 0.01132 0.3377 0.9264 0.1963
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3461 0.006809 0.50140.0008961 0 0.2191

mode liq bi g mu pl ilm ru q H2O
0 0.2191 0.06467 0.07331 0.3155 0.006352 0.002828 0.2872 0.03102

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 683.2 0.05947 0.1890 0.8595 0.0097950.0007581 0.6723
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7394 0.3526 0.2753 0.04247 0.1004 0.2890
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7519 0.1725 0.01387 0.3320 0.9233 0.1970
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3392 0.006773 0.49250.0004574 0 0.2144

mode liq bi g mu pl ilm ru q H2O
0 0.2144 0.06999 0.07848 0.3111 0.006104 0.002972 0.2862 0.03076

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 681.7 0.05746 0.1885 0.8640 0.0097310.0007327 0.6674
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7422 0.3454 0.2629 0.04335 0.1003 0.2958
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7513 0.1931 0.01706 0.3254 0.9205 0.1994
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3305 0.006730 0.48270.0002938 0 0.2093

mode liq bi g mu pl ilm ru q H2O
0 0.2093 0.07619 0.08425 0.3057 0.005800 0.003134 0.2851 0.03046

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 680.0 0.05541 0.1881 0.8694 0.0095960.0007043 0.6617
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7450 0.3374 0.2507 0.04424 0.1001 0.3022
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7498 0.2146 0.02093 0.3179 0.9182 0.2040
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3198 0.006678 0.47210.0002098 0 0.2039

mode liq bi g mu pl ilm ru q H2O
0 0.2039 0.08328 0.09070 0.2991 0.005429 0.003314 0.2842 0.03008

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.00 677.9 0.05332 0.1877 0.8756 0.0093850.0006739 0.6551
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7478 0.3290 0.2388 0.04511 0.09981 0.3083
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7476 0.2363 0.02542 0.3097 0.9166 0.2114
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3070 0.006615 0.46090.0001595 0 0.1981

mode liq bi g mu pl ilm ru q H2O
 0 0.1981 0.09116 0.09782 0.2914 0.004987 0.003510 0.2833 0.02962

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.20 675.6 0.05120 0.1874 0.8824 0.0090970.0006430 0.6481
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7507 0.3204 0.2271 0.04592 0.09941 0.3139
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7447 0.2577 0.03044 0.3011 0.9159 0.2222
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2920 0.006539 0.44940.0001271 0 0.1924

mode liq bi g mu pl ilm ru q H2O
 0 0.1924 0.09959 0.1055 0.2826 0.004475 0.003716 0.2827 0.02906

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.40 673.0 0.04907 0.1871 0.8896 0.0087380.0006129 0.6409
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7536 0.3121 0.2157 0.04660 0.09887 0.3191
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7416 0.2781 0.03587 0.2925 0.9161 0.2369
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2752 0.006455 0.43810.0001052 0 0.1868

mode liq bi g mu pl ilm ru q H2O
 0 0.1868 0.1082 0.1138 0.2727 0.003901 0.003926 0.2822 0.02837

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 670.1 0.04694 0.1868 0.8968 0.0083170.0005845 0.6340
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7566 0.3045 0.2044 0.04710 0.09820 0.3243
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7388 0.2977 0.04165 0.2845 0.9175 0.2559
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2569 0.006369 0.4274 8.993e-5 0 0.1819

mode liq bi g mu pl ilm ru q H2O
 0 0.1819 0.1167 0.1224 0.2620 0.003273 0.004132 0.2821 0.02754

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 667.0 0.04485 0.1865 0.9036 0.0078450.0005583 0.6279
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7597 0.2983 0.1931 0.04736 0.09740 0.3298
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7368 0.3167 0.04783 0.2777 0.9201 0.2803
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2374 0.006290 0.4176 7.918e-5 0 0.1778

mode liq bi g mu pl ilm ru q H2O
 0 0.1778 0.1245 0.1315 0.2504 0.002595 0.004330 0.2823 0.02654

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 663.6 0.04279 0.1861 0.9097 0.0073300.0005341 0.6233
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7628 0.2940 0.1814 0.04731 0.09644 0.3360
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7366 0.3360 0.05466 0.2725 0.9243 0.3113
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2170 0.006234 0.4090 7.168e-5 0 0.1751

mode liq bi g mu pl ilm ru q H2O
 0 0.1751 0.1314 0.1409 0.2379 0.001859 0.004516 0.2830 0.02530

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 659.8 0.04079 0.1855 0.9147 0.0067750.0005108 0.6210
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7660 0.2924 0.1692 0.04688 0.09531 0.3438
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7392 0.3569 0.06275 0.2700 0.9305 0.3516
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1961 0.006231 0.4021 6.676e-5 0 0.1744

mode liq bi g mu pl ilm ru q H2O
 0 0.1744 0.1368 0.1510 0.2239 0.001034 0.004688 0.2845 0.02370

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.40 655.5 0.03881 0.1847 0.9177 0.0061700.0004854 0.6228
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7695 0.2953 0.1558 0.04592 0.09397 0.3545
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7467 0.3829 0.07365 0.2718 0.9398 0.4075
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1742 0.006349 0.3974 6.424e-5 0 0.1767

mode liq bi g mu pl ilm ru q H2O
 0 0.1767 0.1400 0.1626 0.2074 2.108e-5 0.004851 0.2870 0.02150

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
	0.08712	0.2353	0.04468	0.04348	0.2986	0.01142	0.0001289	0.2792	0

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
	0.08599	0.2327	0.04722	0.04665	0.2976	0.010880	0.0004279	0.2786	0

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
	0.08486	0.2299	0.05002	0.04991	0.2964	0.01028	0.00075	13	0.2779

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
	0.08374	0.2269	0.05317	0.05331	0.2949	0.009617	0.001111	0.2772	0

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60    691.4 0.06895 0.1897 0.8411 0.010500.0008221 0.6762
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7270 0.3618 0.3344 0.04043 0.1023 0.2536
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7366 0.1078 0.006719 0.3388 0.9365 0.1925
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.3881 0.006551 0.6487 0.4679 0.08261 0.2238

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.08261 0.2238 0.05681 0.05689 0.2931 0.008823 0.001535 0.2764 0

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00    689.2 0.06486 0.1887 0.8458 0.010610.0008002 0.6735
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7327 0.3555 0.3075 0.04183 0.1021 0.2688
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7422 0.1385 0.009716 0.3344 0.9292 0.1878
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.3773 0.006579 0.50330.0008465 0.08025 0.2169

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.08025 0.2169 0.06656 0.06489 0.2875 0.006440 0.002782 0.2747 0

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20    688.0 0.06283 0.1882 0.8496 0.010630.0007817 0.6700
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7355 0.3496 0.2947 0.04268 0.1020 0.2758
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7426 0.1558 0.01178 0.3294 0.9261 0.1881
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.3708 0.006554 0.49520.0004646 0.07890 0.2126

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.07890 0.2126 0.07128 0.06993 0.2840 0.006225 0.002914 0.2741 0

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40    686.6 0.06075 0.1878 0.8540 0.010590.0007591 0.6657
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7383 0.3430 0.2820 0.04357 0.1019 0.2827
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.7425 0.1748 0.01441 0.3235 0.9232 0.1897
        ca(pl) k(pl) x(ilm) Q(ilm) liq bi
        0.3626 0.006524 0.48620.0003067 0.07744 0.2080

mode  liq  bi  g  mu  pl  ilm  ru  q  H2O
      0.07744 0.2080 0.07679 0.07554 0.2796 0.005962 0.003062 0.2737 0

```

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60    685.0 0.05863 0.1875 0.8593 0.010480.0007326 0.6606

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7411 0.3357 0.2693 0.04448 0.1017 0.2893
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7418 0.1954 0.01767 0.3168 0.9206 0.1931
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3525 0.006489 0.47630.0002214 0.07584 0.2029

mode liq bi g mu pl ilm ru q H2O
0.07584 0.2029 0.08315 0.08179 0.2741 0.005641 0.003227 0.2733 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 683.0 0.05646 0.1872 0.8656 0.010290.0007030 0.6546
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7440 0.3278 0.2569 0.04539 0.1014 0.2956
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7402 0.2168 0.02159 0.3093 0.9185 0.1989
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3401 0.006445 0.46570.0001690 0.07407 0.1975

mode liq bi g mu pl ilm ru q H2O
0.07407 0.1975 0.09038 0.08875 0.2676 0.005252 0.003410 0.2730 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 680.8 0.05424 0.1870 0.8726 0.010020.0006717 0.6480
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7469 0.3195 0.2446 0.04627 0.1010 0.3016
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7380 0.2385 0.02612 0.3011 0.9172 0.2075
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3253 0.006392 0.45450.0001343 0.07208 0.1919

mode liq bi g mu pl ilm ru q H2O
0.07208 0.1919 0.09833 0.09639 0.2600 0.004790 0.003608 0.2729 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 678.2 0.05198 0.1868 0.8803 0.0096590.0006400 0.6410
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7499 0.3112 0.2325 0.04706 0.1005 0.3072
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7352 0.2596 0.03117 0.2927 0.9167 0.2196
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3083 0.006329 0.44320.0001105 0.06984 0.1864

mode liq bi g mu pl ilm ru q H2O
0.06984 0.1864 0.1067 0.1047 0.2514 0.004261 0.003814 0.2729 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 675.3 0.04971 0.1867 0.8883 0.0092220.0006093 0.6339
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7529 0.3033 0.2206 0.04770 0.09989 0.3127

```

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7325 0.2800 0.03661 0.2845 0.9172 0.2357
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2892 0.006261 0.4321 9.361e-5 0.06733 0.1811

```

```

mode liq bi g mu pl ilm ru q H2O
0.06733 0.1811 0.1152 0.1134 0.2419 0.003671 0.004022 0.2733 0

```

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 672.1 0.04746 0.1865 0.8961 0.0087200.0005805 0.6273
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7560 0.2964 0.2086 0.04813 0.09909 0.3182
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7302 0.2995 0.04241 0.2770 0.9189 0.2565
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2685 0.006194 0.4217 8.159e-5 0.06450 0.1766

```

```

mode liq bi g mu pl ilm ru q H2O
0.06450 0.1766 0.1234 0.1225 0.2317 0.003031 0.004226 0.2739 0

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 638.7 0.06048 0.1590 0.8834 0.0079340.0005014 0.6656
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7708 0.3742 0.2571 0.03831 0.08356 0.3224
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7909 0.2073 0.01509 0.3373 0.9791 0.4875
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3957 0.003371 0.7399 0.6413 0.05775 0.2357

```

```

mode liq bi g mu pl ilm ru ky q
0.05775 0.2357 0.04385 0.08670 0.2768 0.011190.0007627 0 0.2872

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 641.5 0.05912 0.1615 0.8858 0.0079970.0005098 0.6611
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7697 0.3652 0.2519 0.03991 0.08481 0.3235
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7847 0.2132 0.01667 0.3303 0.9712 0.4278
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3836 0.003532 0.6961 0.5767 0.05964 0.2283

```

```

mode liq bi g mu pl ilm ru ky q

```

0.05964 0.2283 0.05365 0.08779 0.2750 0.009469 0.001608 0 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 645.1 0.05802 0.1643 0.8863 0.0081060.0005224 0.6586
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7679 0.3585 0.2487 0.04108 0.08632 0.3230
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7794 0.2176 0.01800 0.3256 0.9631 0.3792
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3724 0.003765 0.6095 0.4305 0.06150 0.2222

mode liq bi g mu pl ilm ru ky q
0.06150 0.2222 0.06282 0.08850 0.2730 0.007436 0.002598 0 0.2820

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 653.2 0.05626 0.1700 0.8851 0.0084590.0005505 0.6542
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7636 0.3462 0.2445 0.04253 0.08974 0.3201
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7688 0.2273 0.02061 0.3170 0.9491 0.3141
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3550 0.004300 0.46920.0003022 0.06432 0.2121

mode liq bi g mu pl ilm ru ky q
0.06432 0.2121 0.07615 0.09112 0.2686 0.005528 0.003489 0 0.2787

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 657.3 0.05548 0.1728 0.8843 0.0086670.0005646 0.6517
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7614 0.3398 0.2426 0.04334 0.09151 0.3182
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7632 0.2330 0.02220 0.3126 0.9431 0.2918
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3476 0.004584 0.46450.0002332 0.06540 0.2076

mode liq bi g mu pl ilm ru ky q
0.06540 0.2076 0.08137 0.09304 0.2662 0.005339 0.003541 0 0.2776

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 661.7 0.05477 0.1756 0.8832 0.0088890.0005802 0.6496
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7590 0.3338 0.2409 0.04413 0.09337 0.3159
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7575 0.2380 0.02378 0.3084 0.9372 0.2720
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3403 0.004900 0.46010.0001909 0.06649 0.2032

mode liq bi g mu pl ilm ru ky q
0.06649 0.2032 0.08642 0.09495 0.2637 0.005149 0.003589 0 0.2765

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.60 666.3 0.05415 0.1786 0.8819 0.0091230.0005977 0.6476
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7564 0.3281 0.2396 0.04489 0.09531 0.3132
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7517 0.2425 0.02533 0.3046 0.9314 0.2542
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3331 0.005251 0.45620.0001623 0.06760 0.1990

mode liq bi g mu pl ilm ru ky q
 0.06760 0.1990 0.09133 0.09681 0.2612 0.004959 0.003633 0 0.2755

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.80 671.1 0.05360 0.1817 0.8803 0.0093730.0006169 0.6460
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7536 0.3226 0.2385 0.04562 0.09733 0.3103
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7459 0.2464 0.02683 0.3011 0.9258 0.2380
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3261 0.005639 0.45260.0001418 0.06876 0.1949

mode liq bi g mu pl ilm ru ky q
 0.06876 0.1949 0.09609 0.09862 0.2587 0.004771 0.003674 0 0.2745

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.00 676.1 0.05312 0.1849 0.8785 0.0096390.0006383 0.6445
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7506 0.3174 0.2376 0.04634 0.09943 0.3071
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7400 0.2497 0.02828 0.2978 0.9202 0.2230
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3193 0.006070 0.44940.0001264 0.06998 0.1909

mode liq bi g mu pl ilm ru ky q
 0.06998 0.1909 0.1007 0.1003 0.2563 0.004587 0.003711 0 0.2735

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.20 681.3 0.05273 0.1882 0.8763 0.0099260.0006621 0.6433
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7474 0.3125 0.2371 0.04703 0.1016 0.3036
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7340 0.2523 0.02966 0.2949 0.9146 0.2090
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.3127 0.006551 0.44660.0001145 0.07127 0.1870

mode liq bi g mu pl ilm ru ky q
 0.07127 0.1870 0.1051 0.1019 0.2540 0.004407 0.003745 0 0.2725

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.40 686.8 0.05242 0.1917 0.8738 0.010240.0006887 0.6425

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7439 0.3079 0.2368 0.04770 0.1040 0.2999
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7280 0.2544 0.03095 0.2923 0.9091 0.1957
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3065 0.007090 0.44420.0001051 0.07267 0.1833

mode liq bi g mu pl ilm ru ky q
0.07267 0.1833 0.1094 0.1034 0.2518 0.004234 0.003773 0 0.2715

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 692.7 0.05222 0.1953 0.8708 0.010590.0007187 0.6419
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7401 0.3037 0.2368 0.04834 0.1064 0.2959
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7220 0.2558 0.03214 0.2900 0.9036 0.1831
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3007 0.007699 0.4422 9.755e-5 0.07419 0.1797

mode liq bi g mu pl ilm ru ky q
0.07419 0.1797 0.1134 0.1047 0.2497 0.004070 0.003796 0 0.2705

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 698.8 0.05214 0.1990 0.8672 0.010980.0007527 0.6417
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7359 0.2997 0.2371 0.04896 0.1090 0.2916
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7159 0.2566 0.03323 0.2882 0.8982 0.1708
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2953 0.008395 0.4407 9.142e-5 0.07587 0.1762

mode liq bi g mu pl ilm ru ky q
0.07587 0.1762 0.1172 0.1057 0.2479 0.003917 0.003813 0 0.2694

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 705.4 0.05219 0.2030 0.8628 0.011420.0007916 0.6418
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7314 0.2960 0.2379 0.04956 0.1118 0.2871
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7098 0.2567 0.03421 0.2867 0.8928 0.1590
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2905 0.009196 0.4397 8.642e-5 0.07774 0.1728

mode liq bi g mu pl ilm ru ky q
0.07774 0.1728 0.1208 0.1065 0.2462 0.003776 0.003823 0 0.2683

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 712.5 0.05239 0.2072 0.8575 0.011930.0008362 0.6423
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7264 0.2927 0.2390 0.05014 0.1148 0.2823

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7038 0.2561 0.03507 0.2857 0.8874 0.1475
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2863 0.01013 0.4392 8.232e-5 0.07983 0.1696

mode liq bi g mu pl ilm ru ky q
 0.07983 0.1696 0.1242 0.1070 0.2447 0.003648 0.003824 0 0.2672

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.40 720.0 0.05276 0.2117 0.8511 0.012510.0008874 0.6433
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7209 0.2897 0.2404 0.05069 0.1180 0.2772
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6977 0.2550 0.03582 0.2851 0.8822 0.1364
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2827 0.01121 0.4392 7.893e-5 0.08217 0.1666

mode liq bi g mu pl ilm ru ky q
 0.08217 0.1666 0.1273 0.1072 0.2434 0.003534 0.003819 0 0.2660

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.60 728.0 0.05329 0.2163 0.8435 0.013180.0009455 0.6445
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7149 0.2870 0.2423 0.05122 0.1214 0.2719
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6916 0.2533 0.03646 0.2848 0.8771 0.1258
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2797 0.01248 0.4397 7.608e-5 0.08478 0.1636

mode liq bi g mu pl ilm ru ky q
 0.08478 0.1636 0.1302 0.1071 0.2423 0.003432 0.003806 0 0.2648

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.80 736.3 0.05398 0.2211 0.8347 0.01392 0.001010 0.6459
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7086 0.2844 0.2443 0.05174 0.1250 0.2665
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6855 0.2513 0.03704 0.2847 0.8722 0.1159
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2771 0.01394 0.4405 7.360e-5 0.08764 0.1607

mode liq bi g mu pl ilm ru ky q
 0.08764 0.1607 0.1330 0.1068 0.2413 0.003338 0.003789 0 0.2635

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.00 744.8 0.05479 0.2260 0.8249 0.01474 0.001081 0.6474
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7019 0.2820 0.2464 0.05224 0.1288 0.2610
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6794 0.2491 0.03759 0.2848 0.8676 0.1069

ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2746 0.01562 0.4414 7.132e-5 0.09073 0.1578

mode liq bi g mu pl ilm ru ky q
0.09073 0.1578 0.1357 0.1064 0.2402 0.003248 0.003771 0 0.2621

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 753.3 0.05568 0.2309 0.8142 0.01561 0.001156 0.6487
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6951 0.2795 0.2484 0.05273 0.1326 0.2557
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6732 0.2469 0.03813 0.2848 0.8633 0.09877
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2720 0.01751 0.4422 6.913e-5 0.09399 0.1549

mode liq bi g mu pl ilm ru ky q
0.09399 0.1549 0.1385 0.1059 0.2392 0.003156 0.003756 0 0.2607

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 761.7 0.05662 0.2357 0.8029 0.01652 0.001233 0.6498
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6883 0.2769 0.2501 0.05323 0.1364 0.2505
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6670 0.2448 0.03871 0.2846 0.8593 0.09163
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2692 0.01959 0.4427 6.694e-5 0.09736 0.1518

mode liq bi g mu pl ilm ru ky q
0.09736 0.1518 0.1415 0.1054 0.2380 0.003058 0.003748 0 0.2592

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 769.8 0.05756 0.2404 0.7913 0.01745 0.001311 0.6506
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6816 0.2741 0.2516 0.05372 0.1402 0.2456
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6607 0.2429 0.03933 0.2841 0.8555 0.08543
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2660 0.02188 0.4429 6.471e-5 0.1008 0.1485

mode liq bi g mu pl ilm ru ky q
0.1008 0.1485 0.1446 0.1049 0.2368 0.002950 0.003749 0 0.2576

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 777.6 0.05848 0.2448 0.7795 0.01839 0.001388 0.6511
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6751 0.2712 0.2527 0.05423 0.1439 0.2410
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6544 0.2413 0.04000 0.2834 0.8520 0.08006
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2623 0.02434 0.4426 6.244e-5 0.1043 0.1451

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1043	0.1451	0.1480	0.1046	0.2354	0.002832	0.003761	0	0.2560	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
15.00	785.0	0.05937	0.2491	0.7678	0.01932	0.001462	0.6512	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6689	0.2681	0.2535	0.05473	0.1474	0.2366		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.6481	0.2399	0.04073	0.2823	0.8486	0.07541		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2581	0.02700	0.4419	6.016e-5	0.1077	0.1415		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1077	0.1415	0.1516	0.1045	0.2339	0.002703	0.003785	0	0.2544	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
15.20	792.1	0.06021	0.2531	0.7561	0.02023	0.001534	0.6509	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6629	0.2648	0.2539	0.05525	0.1509	0.2325		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.6416	0.2387	0.04150	0.2809	0.8454	0.07138		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2533	0.02983	0.4409	5.788e-5	0.1112	0.1377		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1112	0.1377	0.1553	0.1044	0.2323	0.002563	0.003820	0	0.2528	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
15.40	798.8	0.06099	0.2570	0.7446	0.02113	0.001603	0.6504	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6573	0.2613	0.2540	0.05577	0.1542	0.2286		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.6352	0.2377	0.04231	0.2792	0.8424	0.06787		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2481	0.03286	0.4394	5.564e-5	0.1146	0.1337		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
	0.1146	0.1337	0.1593	0.1044	0.2306	0.002413	0.003866	0	0.2511	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
15.60	805.2	0.06173	0.2606	0.7332	0.02201	0.001668	0.6496	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6519	0.2578	0.2539	0.05629	0.1574	0.2249		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.6286	0.2369	0.04315	0.2773	0.8394	0.06480		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.2425	0.03608	0.4376	5.346e-5	0.1181	0.1296		

mode	liq	bi	g	mu	pl	ilm	ru	ky	q	
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0.1181 0.1296 0.1634 0.1045 0.2289 0.002256 0.003923 0 0.2493

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 811.2 0.06241 0.2640 0.7221 0.02286 0.001731 0.6485
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6469 0.2541 0.2535 0.05682 0.1605 0.2214
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6221 0.2361 0.04401 0.2752 0.8366 0.06210
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2365 0.03952 0.4356 5.135e-5 0.1215 0.1253

mode liq bi g mu pl ilm ru ky q
0.1215 0.1253 0.1677 0.1047 0.2272 0.002093 0.003989 0 0.2476

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 817.0 0.06305 0.2672 0.7112 0.02369 0.001789 0.6473
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6421 0.2504 0.2529 0.05735 0.1635 0.2180
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6155 0.2354 0.04487 0.2729 0.8338 0.05971
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2301 0.04320 0.4332 4.932e-5 0.1249 0.1209

mode liq bi g mu pl ilm ru ky q
0.1249 0.1209 0.1721 0.1049 0.2255 0.001924 0.004065 0 0.2458

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 822.5 0.06364 0.2702 0.7004 0.02450 0.001845 0.6458
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6376 0.2466 0.2521 0.05787 0.1664 0.2148
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6089 0.2347 0.04573 0.2705 0.8310 0.05759
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2235 0.04712 0.4307 4.738e-5 0.1282 0.1164

mode liq bi g mu pl ilm ru ky q
0.1282 0.1164 0.1766 0.1052 0.2238 0.001751 0.004149 0 0.2440

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 827.8 0.06418 0.2731 0.6899 0.02528 0.001897 0.6441
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6333 0.2428 0.2512 0.05839 0.1692 0.2117
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6022 0.2339 0.04659 0.2679 0.8283 0.05569
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2165 0.05132 0.4280 4.553e-5 0.1316 0.1117

mode liq bi g mu pl ilm ru ky q
0.1316 0.1117 0.1812 0.1054 0.2221 0.001576 0.004241 0 0.2421

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60    832.9 0.06469 0.2758 0.6795 0.02603 0.001946 0.6423
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6293 0.2389 0.2501 0.05891 0.1719 0.2087
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5955 0.2332 0.04743 0.2652 0.8256 0.05399
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2093 0.05583 0.4251 4.377e-5 0.1350 0.1069

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1350 0.1069 0.1859 0.1057 0.2206 0.001400 0.004340 0 0.2402

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80    837.7 0.06515 0.2783 0.6693 0.02676 0.001991 0.6404
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6255 0.2351 0.2489 0.05943 0.1745 0.2058
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5888 0.2324 0.04826 0.2623 0.8230 0.05247
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.2019 0.06068 0.4221 4.210e-5 0.1384 0.1021

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1384 0.1021 0.1907 0.1059 0.2191 0.001222 0.004446 0 0.2383

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00    842.4 0.06556 0.2807 0.6594 0.02746 0.002034 0.6383
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6220 0.2312 0.2475 0.05994 0.1770 0.2030
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5820 0.2316 0.04907 0.2594 0.8204 0.05110
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1944 0.06590 0.4189 4.051e-5 0.1418 0.09707

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1418 0.09707 0.1955 0.1060 0.2176 0.001045 0.004559 0 0.2364

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20    846.9 0.06593 0.2829 0.6497 0.02813 0.002073 0.6361
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6187 0.2273 0.2461 0.06044 0.1794 0.2003
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5752 0.2306 0.04985 0.2564 0.8177 0.04987
        ca(pl) k(pl) x(ilm) Q(ilm) liq  bi
        0.1866 0.07154 0.4156 3.900e-5 0.1452 0.09197

mode  liq  bi  g  mu  pl  ilm  ru  ky  q
      0.1452 0.09197 0.2005 0.1061 0.2163 0.0008682 0.004679 0 0.2344

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40    851.2 0.06626 0.2850 0.6403 0.02877 0.002110 0.6337

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6156 0.2234 0.2446 0.06094 0.1817 0.1976
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5683 0.2296 0.05060 0.2534 0.8151 0.04877
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1787 0.07766 0.4122 3.756e-5 0.1486 0.08675

mode liq bi g mu pl ilm ru ky q
0.1486 0.08675 0.2055 0.1061 0.21510.0006926 0.004805 0 0.2324

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 855.3 0.06653 0.2869 0.6314 0.02938 0.002143 0.6313
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6128 0.2195 0.2430 0.06144 0.1839 0.1950
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5614 0.2286 0.05133 0.2502 0.8125 0.04778
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1707 0.08434 0.4087 3.620e-5 0.1521 0.08141

mode liq bi g mu pl ilm ru ky q
0.1521 0.08141 0.2106 0.1061 0.21400.0005184 0.004938 0 0.2303

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 859.2 0.06675 0.2887 0.6230 0.02995 0.002174 0.6287
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6102 0.2156 0.2413 0.06193 0.1861 0.1924
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5545 0.2274 0.05204 0.2470 0.8099 0.04689
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1625 0.09164 0.4050 3.489e-5 0.1555 0.07594

mode liq bi g mu pl ilm ru ky q
0.1555 0.07594 0.2158 0.1060 0.21310.0003455 0.005077 0 0.2282

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 863.0 0.06690 0.2903 0.6152 0.03048 0.002201 0.6260
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6078 0.2117 0.2396 0.06242 0.1881 0.1899
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5475 0.2262 0.05272 0.2437 0.8073 0.04611
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1542 0.09971 0.4013 3.365e-5 0.1590 0.07033

mode liq bi g mu pl ilm ru ky q
0.1590 0.07033 0.2212 0.1058 0.21220.0001736 0.005223 0 0.2261

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 866.6 0.06698 0.2918 0.6084 0.03097 0.002224 0.6231
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6058 0.2078 0.2378 0.06290 0.1900 0.1874

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.5404	0.2250	0.05338	0.2402	0.8047	0.04543
ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
0.1457	0.1087	0.3975	3.246e-5	0.1625	0.06456

mode	liq	bi	g	mu	pl	ilm	ru	ky	q
	0.1625	0.06456	0.2266	0.1055	0.2116	2.122e-6	0.005376	0	0.2239

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	617.2	0.04902	0.1588	0.8698	0.0061550	0.0002499	0.6674
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7855	0.3787	0.1661	0.04058	0.07984	0.3874	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.8323	0.5006	0.1151	0.3410	0.9904	0.6886	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2953	0.004927	0.42330	0.0001285	0.03025	0.2330	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.03025	0.2330	0.08553	0.1615	0.1850	0	0.004598	0.3002

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	621.2	0.04814	0.1613	0.8750	0.0062150	0.0002720	0.6643
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7837	0.3713	0.1661	0.04102	0.08122	0.3850	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.8257	0.4869	0.1090	0.3352	0.9886	0.6674	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2842	0.005066	0.42350	0.0001237	0.03164	0.2284	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.03164	0.2284	0.09050	0.1615	0.1844	0	0.004603	0.2989

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	625.1	0.04725	0.1639	0.8802	0.0062600	0.0002942	0.6608
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7820	0.3637	0.1658	0.04148	0.08256	0.3827	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.8188	0.4738	0.1035	0.3291	0.9864	0.6450	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.2731	0.005195	0.42290	0.0001180	0.03309	0.2237	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.03309	0.2237	0.09557	0.1616	0.1840	0	0.004614	0.2975

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.60 628.8 0.04636 0.1663 0.8852 0.0062920.0003164 0.6569

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7804 0.3560 0.1653 0.04196 0.08385 0.3802

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.8116 0.4614 0.09853 0.3227 0.9838 0.6218

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2621 0.005314 0.42180.0001116 0.03459 0.2188

mode liq bi g mu pl ilm ru q

0.03459 0.2188 0.1007 0.1616 0.1837 0 0.004630 0.2961

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.80 632.3 0.04548 0.1686 0.8901 0.0063130.0003382 0.6528

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7789 0.3481 0.1646 0.04246 0.08512 0.3776

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.8041 0.4497 0.09408 0.3162 0.9807 0.5978

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2513 0.005424 0.42010.0001050 0.03613 0.2137

mode liq bi g mu pl ilm ru q

0.03613 0.2137 0.1058 0.1615 0.1835 0 0.004649 0.2946

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.00 635.7 0.04460 0.1709 0.8947 0.0063270.0003595 0.6485

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7775 0.3402 0.1639 0.04297 0.08635 0.3748

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7964 0.4387 0.09010 0.3095 0.9772 0.5732

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2408 0.005527 0.4179 9.826e-5 0.03769 0.2086

mode liq bi g mu pl ilm ru q

0.03769 0.2086 0.1110 0.1615 0.1835 0 0.004672 0.2930

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.20 638.9 0.04374 0.1731 0.8991 0.0063360.0003801 0.6440

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7761 0.3324 0.1631 0.04350 0.08756 0.3718

x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7885 0.4284 0.08654 0.3029 0.9732 0.5483

ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.2308 0.005625 0.4153 9.174e-5 0.03928 0.2034

mode liq bi g mu pl ilm ru q

0.03928 0.2034 0.1160 0.1615 0.1837 0 0.004698 0.2914

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.40 642.1 0.04291 0.1752 0.9031 0.0063430.0004001 0.6395
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7748 0.3246 0.1624 0.04403 0.08876 0.3685
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7804 0.4187 0.08335 0.2963 0.9687 0.5232
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2212 0.005721 0.4123 8.555e-5 0.04088 0.1982

mode liq bi g mu pl ilm ru q
 0.04088 0.1982 0.1210 0.1614 0.1839 0 0.004726 0.2898

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 645.2 0.04210 0.1773 0.9067 0.0063510.0004194 0.6349
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7735 0.3171 0.1617 0.04457 0.08995 0.3649
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7723 0.4095 0.08050 0.2898 0.9637 0.4981
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2121 0.005818 0.4090 7.978e-5 0.04249 0.1930

mode liq bi g mu pl ilm ru q
 0.04249 0.1930 0.1259 0.1614 0.1842 0 0.004755 0.2881

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 648.3 0.04132 0.1793 0.9100 0.0063620.0004381 0.6305
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7722 0.3097 0.1611 0.04512 0.09116 0.3611
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7640 0.4009 0.07795 0.2836 0.9581 0.4730
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.2035 0.005920 0.4055 7.448e-5 0.04412 0.1879

mode liq bi g mu pl ilm ru q
 0.04412 0.1879 0.1307 0.1614 0.1847 0 0.004786 0.2865

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 651.4 0.04059 0.1813 0.9129 0.0063800.0004563 0.6261
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7709 0.3026 0.1607 0.04567 0.09239 0.3570
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7557 0.3928 0.07566 0.2775 0.9521 0.4480
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1955 0.006030 0.4020 6.966e-5 0.04575 0.1827

mode liq bi g mu pl ilm ru q
 0.04575 0.1827 0.1354 0.1613 0.1852 0 0.004817 0.2848

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 654.6 0.03990 0.1834 0.9154 0.0064060.0004742 0.6219
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7695 0.2957 0.1603 0.04623 0.09365 0.3526
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7474 0.3851 0.07360 0.2718 0.9455 0.4232
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1880 0.006155 0.3984 6.531e-5 0.04739 0.1776

mode liq bi g mu pl ilm ru q
0.04739 0.1776 0.1399 0.1613 0.1858 0 0.004849 0.2831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 658.0 0.03927 0.1854 0.9175 0.0064450.0004920 0.6180
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7680 0.2892 0.1602 0.04680 0.09498 0.3480
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7390 0.3778 0.07174 0.2664 0.9386 0.3986
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1812 0.006298 0.3948 6.141e-5 0.04906 0.1726

mode liq bi g mu pl ilm ru q
0.04906 0.1726 0.1443 0.1613 0.1865 0 0.004880 0.2814

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 661.5 0.03869 0.1876 0.9192 0.0065000.0005101 0.6143
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7664 0.2829 0.1603 0.04737 0.09638 0.3431
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7307 0.3709 0.07007 0.2613 0.9312 0.3743
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1749 0.006468 0.3914 5.793e-5 0.05075 0.1676

mode liq bi g mu pl ilm ru q
0.05075 0.1676 0.1486 0.1612 0.1873 0 0.004910 0.2797

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 665.3 0.03818 0.1898 0.9205 0.0065740.0005286 0.6109
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7645 0.2770 0.1606 0.04795 0.09788 0.3380
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7224 0.3641 0.06856 0.2566 0.9234 0.3503
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1693 0.006670 0.3882 5.485e-5 0.05249 0.1627

mode liq bi g mu pl ilm ru q
0.05249 0.1627 0.1527 0.1611 0.1881 0 0.004939 0.2780

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 669.4 0.03775 0.1922 0.9213 0.0066740.0005483 0.6080
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7624 0.2714 0.1612 0.04855 0.09951 0.3326
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.7141 0.3577 0.06720 0.2524 0.9153 0.3265
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1643 0.006916 0.3852 5.213e-5 0.05429 0.1579

mode liq bi g mu pl ilm ru q
0.05429 0.1579 0.1567 0.1609 0.1890 0 0.004966 0.2762

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 673.9 0.03741 0.1948 0.9216 0.0068050.0005695 0.6056
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7600 0.2661 0.1621 0.04916 0.1013 0.3270
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7059 0.3513 0.06596 0.2487 0.9068 0.3030
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1599 0.007218 0.3826 4.975e-5 0.05618 0.1532

mode liq bi g mu pl ilm ru q
0.05618 0.1532 0.1605 0.1607 0.1900 0 0.004991 0.2745

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 678.8 0.03718 0.1977 0.9213 0.0069750.0005931 0.6036
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7572 0.2613 0.1633 0.04979 0.1033 0.3211
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6977 0.3451 0.06485 0.2454 0.8982 0.2797
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1563 0.007594 0.3805 4.769e-5 0.05818 0.1486

mode liq bi g mu pl ilm ru q
0.05818 0.1486 0.1641 0.1603 0.1910 0 0.005012 0.2728

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 684.5 0.03707 0.2008 0.9204 0.0071970.0006200 0.6024
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7539 0.2568 0.1651 0.05044 0.1056 0.3150
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6896 0.3390 0.06384 0.2428 0.8893 0.2567
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1535 0.008066 0.3789 4.593e-5 0.06033 0.1440

mode liq bi g mu pl ilm ru q
0.06033 0.1440 0.1676 0.1599 0.1922 0 0.005029 0.2710

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 690.8 0.03712 0.2044 0.9186 0.0074830.0006515 0.6018
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7500 0.2528 0.1673 0.05113 0.1081 0.3085
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6815 0.3329 0.06293 0.2407 0.8803 0.2339
ca(pl) k(pl) x(ilm) Q(ilm) liq bi

0.1515 0.008668 0.3779 4.448e-5 0.06267 0.1397

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.06267	0.1397	0.1708	0.1592	0.1934		0	0.005041 0.2692

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 698.1 0.03735 0.2084 0.9159 0.007852 0.0006892 0.6021
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7452 0.2493 0.1701 0.05184 0.1111 0.3017
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6736 0.3267 0.06212 0.2395 0.8713 0.2115
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1505 0.009446 0.3778 4.331e-5 0.06527 0.1355

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.06527	0.1355	0.1738	0.1582	0.1947		0	0.005046 0.2674

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 706.5 0.03780 0.2131 0.9119 0.008329 0.0007354 0.6034
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7396 0.2463 0.1737 0.05259 0.1145 0.2945
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6657 0.3205 0.06141 0.2390 0.8624 0.1895
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1505 0.01046 0.3786 4.245e-5 0.06819 0.1315

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.06819	0.1315	0.1766	0.1570	0.1961		0	0.005043 0.2656

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 716.2 0.03853 0.2184 0.9064 0.008940 0.0007925 0.6057
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7328 0.2439 0.1779 0.05336 0.1185 0.2869
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6581 0.3142 0.06079 0.2395 0.8537 0.1682
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1516 0.01179 0.3805 4.193e-5 0.07149 0.1279

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.07149	0.1279	0.1790	0.1554	0.1975		0	0.005029 0.2637

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 727.1 0.03955 0.2244 0.8989 0.009714 0.0008634 0.6090
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7249 0.2421 0.1829 0.05414 0.1231 0.2790
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6506 0.3078 0.06026 0.2408 0.8456 0.1481
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1538 0.01354 0.3834 4.158e-5 0.07524 0.1245

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.07524	0.1245	0.1811	0.1534	0.1989		0	0.005005 0.2618

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.80	739.1	0.04090	0.2309	0.8892	0.010670	0.0009502	0.6131
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7159	0.2408	0.1885	0.05491	0.1282	0.2708	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6434	0.3013	0.05981	0.2430	0.8381	0.1296	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1568	0.01582	0.3873	4.151e-5	0.07948	0.1214	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.07948	0.1214	0.1829	0.1510	0.2003		0	0.004970 0.2599

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	752.0	0.04255	0.2379	0.8770	0.01183	0.001054	0.6177
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7059	0.2400	0.1944	0.05564	0.1339	0.2625	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6364	0.2948	0.05943	0.2457	0.8316	0.1132	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1603	0.01872	0.3919	4.157e-5	0.08421	0.1186	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.08421	0.1186	0.1846	0.1482	0.2015		0	0.004927 0.2579

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	765.4	0.04448	0.2450	0.8623	0.01316	0.001172	0.6224
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6953	0.2393	0.2004	0.05633	0.1398	0.2543	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6296	0.2883	0.05908	0.2487	0.8260	0.09917	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1640	0.02234	0.3966	4.166e-5	0.08940	0.1159	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.08940	0.1159	0.1861	0.1452	0.2026		0	0.004881 0.2559

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.40	778.7	0.04662	0.2520	0.8450	0.01467	0.001304	0.6268
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6844	0.2385	0.2063	0.05697	0.1459	0.2463	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.6227	0.2819	0.05873	0.2515	0.8213	0.08740	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi	
	0.1672	0.02671	0.4011	4.167e-5	0.09502	0.1132	

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.09502	0.1132	0.1877	0.1419	0.2035		0	0.004838 0.2538

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	791.6	0.04891	0.2587	0.8253	0.01632	0.001442	0.6304
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6736	0.2375	0.2118	0.05758	0.1519	0.2386
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.6157	0.2756	0.05835	0.2538	0.8175	0.07775
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.1696	0.03190	0.4050	4.150e-5	0.1010	0.1102

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.1010	0.1102	0.1897	0.1385	0.2043		0	0.004804 0.2515

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.80	804.0	0.05130	0.2648	0.8031	0.01807	0.001583	0.6332
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6630	0.2359	0.2168	0.05816	0.1578	0.2312
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.6083	0.2693	0.05793	0.2553	0.8144	0.06992
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.1711	0.03792	0.4080	4.110e-5	0.1074	0.1069

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.1074	0.1069	0.1920	0.1349	0.2050		0	0.004784 0.2490

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	815.5	0.05375	0.2703	0.7788	0.01991	0.001720	0.6349
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6529	0.2338	0.2213	0.05875	0.1634	0.2242
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.6005	0.2630	0.05744	0.2560	0.8119	0.06361
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.1713	0.04480	0.4099	4.045e-5	0.1141	0.1031

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.1141	0.1031	0.1949	0.1312	0.2057		0	0.004785 0.2463

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	826.1	0.05620	0.2752	0.7525	0.02180	0.001849	0.6356
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6434	0.2311	0.2252	0.05935	0.1688	0.2175
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.5922	0.2568	0.05688	0.2558	0.8100	0.05857
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.1702	0.05259	0.4106	3.954e-5	0.1212	0.09859

mode	liq	bi	g	mu	pl	ilm	ru	q
	0.1212	0.09859	0.1984	0.1273	0.2063		0	0.004809 0.2434

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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17.40 835.9 0.05861 0.2794 0.7247 0.02370 0.001963 0.6351
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6346 0.2276 0.2287 0.05998 0.1737 0.2110
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5833 0.2505 0.05627 0.2545 0.8084 0.05455
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1678 0.06132 0.4101 3.841e-5 0.1286 0.09342

mode liq bi g mu pl ilm ru q
0.1286 0.09342 0.2025 0.1234 0.2071 0 0.004860 0.2401

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 844.7 0.06092 0.2832 0.6957 0.02559 0.002059 0.6336
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6264 0.2236 0.2316 0.06064 0.1783 0.2049
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5736 0.2441 0.05560 0.2523 0.8072 0.05137
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1641 0.07106 0.4085 3.710e-5 0.1365 0.08750

mode liq bi g mu pl ilm ru q
0.1365 0.08750 0.2074 0.1192 0.2079 0 0.004941 0.2366

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 852.7 0.06311 0.2864 0.6662 0.02744 0.002136 0.6310
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6189 0.2189 0.2340 0.06134 0.1826 0.1989
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5633 0.2378 0.05489 0.2491 0.8062 0.04887
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1592 0.08197 0.4059 3.565e-5 0.1447 0.08077

mode liq bi g mu pl ilm ru q
0.1447 0.08077 0.2130 0.1149 0.2089 0 0.005052 0.2327

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 860.0 0.06513 0.2893 0.6369 0.02923 0.002191 0.6275
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6120 0.2136 0.2360 0.06209 0.1864 0.1932
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5523 0.2314 0.05415 0.2451 0.8053 0.04692
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1530 0.09430 0.4022 3.409e-5 0.1533 0.07317

mode liq bi g mu pl ilm ru q
0.1533 0.07317 0.2193 0.1104 0.2101 0 0.005196 0.2285

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 866.6 0.06696 0.2918 0.6087 0.03095 0.002224 0.6231
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6058 0.2078 0.2377 0.06290 0.1900 0.1874
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5404 0.2250 0.05339 0.2403 0.8047 0.04544
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1457 0.1086 0.3975 3.246e-5 0.1624 0.06460

mode liq bi g mu pl ilm ru q
 0.1624 0.06460 0.2266 0.1055 0.2115 0 0.005376 0.2239

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.40 872.7 0.06856 0.2940 0.5826 0.03260 0.002236 0.6176
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6002 0.2014 0.2392 0.06378 0.1933 0.1815
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5275 0.2185 0.05261 0.2345 0.8043 0.04434
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1370 0.1260 0.3918 3.075e-5 0.1723 0.05476

mode liq bi g mu pl ilm ru q
 0.1723 0.05476 0.2350 0.1003 0.2132 0 0.005598 0.2189

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.60 878.4 0.06987 0.2960 0.5606 0.03421 0.002220 0.6105
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5952 0.1939 0.2408 0.06480 0.1963 0.1751
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5125 0.2116 0.05176 0.2274 0.8043 0.04365
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1260 0.1496 0.3845 2.890e-5 0.1833 0.04287

mode liq bi g mu pl ilm ru q
 0.1833 0.04287 0.2453 0.09421 0.2154 0 0.005883 0.2130

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.80 884.2 0.07063 0.2976 0.5532 0.03594 0.002140 0.5982
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5909 0.1823 0.2440 0.06639 0.1994 0.1658
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4900 0.2028 0.05056 0.2157 0.8062 0.04383
 ca(pl) k(pl) x(ilm) Q(ilm) liq bi
 0.1068 0.1985 0.3724 2.631e-5 0.1989 0.02361

mode liq bi g mu pl ilm ru q
 0.1989 0.02361 0.2622 0.08513 0.2195 0 0.006374 0.2043

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	655.5	0.03882	0.1847	0.9176	0.0061760	0.0004850	0.6226
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7695	0.2951	0.1559	0.04594	0.09399	0.3544
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7465	0.3832	0.07378	0.2716	0.9400	0.4085
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.1744	0.006348	0.3973	6.410e-5	0.003229	0.1766

mode	liq	bi	g	mu	pl	ilm	ru	q	H2O
	0.003229	0.1766	0.1402	0.1627	0.2056		0	0.004855	0.2867 0.02002

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, g, mu, pl, ilm, ru, H2O, (q)

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.00	610.3	0.3783	0.1605	0.03998	0.07952	0.3942	0.8352
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.5032	0.1155	0.3387	0.9900	0.6769	0.2786
		k(pl)	x(ilm)	Q(ilm)			
		0.005027	0.41700	0.0001199			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2327	0.08586	0.1636	0.1954		0	0.004612	0.3038 0.01416

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.20	614.6	0.3716	0.1605	0.04041	0.08083	0.3917	0.8290
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.4904	0.1099	0.3337	0.9882	0.6577	0.2684
		k(pl)	x(ilm)	Q(ilm)			
		0.005165	0.41770	0.0001166			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2286	0.09034	0.1635	0.1956		0	0.004615	0.3027 0.01470

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.40	618.8	0.3648	0.1603	0.04085	0.08210	0.3891	0.8225
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.4781	0.1049	0.3284	0.9860	0.6375	0.2583
		k(pl)	x(ilm)	Q(ilm)			
		0.005295	0.41780	0.0001126			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2243	0.09490	0.1635	0.1960		0	0.004623	0.3015 0.01526

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.60	622.9	0.3577	0.1600	0.04130	0.08334	0.3865	0.8158
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.4663	0.1003	0.3229	0.9835	0.6165	0.2483	
	k(pl)	x(ilm)	Q(ilm)				
	0.005415	0.41730	0.0001078				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2198	0.09952	0.1634	0.1965		0	0.004635	0.3003 0.01584

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.80	626.7	0.3506	0.1594	0.04177	0.08455	0.3838	0.8088
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.4551	0.09605	0.3171	0.9806	0.5947	0.2385	
	k(pl)	x(ilm)	Q(ilm)				
	0.005526	0.41640	0.0001026				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2152	0.1042	0.1634	0.1972		0	0.004650	0.2990 0.01644

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.00	630.5	0.3434	0.1589	0.04225	0.08573	0.3810	0.8016
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.4445	0.09224	0.3113	0.9772	0.5724	0.2289	
	k(pl)	x(ilm)	Q(ilm)				
	0.005630	0.4150	9.720e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2106	0.1088	0.1633	0.1980		0	0.004669	0.2976 0.01704

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.20	634.1	0.3362	0.1582	0.04275	0.08689	0.3779	0.7942
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.4344	0.08879	0.3054	0.9734	0.5497	0.2198	
	k(pl)	x(ilm)	Q(ilm)				
	0.005728	0.4132	9.177e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2058	0.1135	0.1632	0.1990		0	0.004690	0.2962 0.01766

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.40	637.7	0.3291	0.1576	0.04325	0.08804	0.3747	0.7866
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.4248	0.08566	0.2995	0.9691	0.5266	0.2110	
	k(pl)	x(ilm)	Q(ilm)				
	0.005822	0.4111	8.645e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2010	0.1181	0.1631	0.2000		0	0.004714	0.2947 0.01829

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.60	641.1	0.3220	0.1570	0.04376	0.08918	0.3712	0.7788
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.4158	0.08283	0.2937	0.9643	0.5032	0.2026	
	k(pl)	x(ilm)	Q(ilm)				
	0.005915	0.4086	8.137e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1962	0.1226	0.1631	0.2012		0	0.004740	0.2933 0.01892

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.80	644.6	0.3151	0.1565	0.04428	0.09033	0.3675	0.7710
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.4071	0.08026	0.2879	0.9590	0.4797	0.1947	
	k(pl)	x(ilm)	Q(ilm)				
	0.006010	0.4060	7.657e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1913	0.1271	0.1630	0.2025		0	0.004767	0.2918 0.01955

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.00	648.1	0.3084	0.1560	0.04480	0.09149	0.3635	0.7631
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.3989	0.07794	0.2824	0.9532	0.4562	0.1873	
	k(pl)	x(ilm)	Q(ilm)				
	0.006112	0.4032	7.211e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1865	0.1315	0.1629	0.2039		0	0.004796	0.2902 0.02018

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.20	651.7	0.3018	0.1557	0.04534	0.09268	0.3593	0.7551
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.3911	0.07583	0.2771	0.9469	0.4326	0.1803	
	k(pl)	x(ilm)	Q(ilm)				
	0.006224	0.4003	6.802e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1817	0.1358	0.1629	0.2054		0	0.004824	0.2887 0.02081

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.40	655.3	0.2956	0.1556	0.04588	0.09392	0.3549	0.7471
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.3836	0.07393	0.2720	0.9401	0.4091	0.1739	
	k(pl)	x(ilm)	Q(ilm)				
	0.006351	0.3974	6.428e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1769	0.1399	0.1628	0.2070		0	0.004853	0.2871 0.02144

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
13.60    659.1  0.2895  0.1556  0.04644  0.09522  0.3501  0.7390
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.3764  0.07219  0.2672  0.9328  0.3857  0.1681
          k(pl)  x(ilm)  Q(ilm)
          0.006500  0.3946  6.091e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.1721  0.1440  0.1627  0.2087     0  0.004882  0.2855  0.02206

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
13.80    663.2  0.2838  0.1559  0.04700  0.09661  0.3452  0.7309
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.3695  0.07063  0.2628  0.9251  0.3625  0.1628
          k(pl)  x(ilm)  Q(ilm)
          0.006678  0.3920  5.789e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.1674  0.1479  0.1626  0.2105     0  0.004909  0.2840  0.02269

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
14.00    667.6  0.2784  0.1564  0.04758  0.09811  0.3400  0.7229
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.3628  0.06920  0.2588  0.9171  0.3394  0.1581
          k(pl)  x(ilm)  Q(ilm)
          0.006894  0.3896  5.521e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.1627  0.1517  0.1625  0.2124     0  0.004935  0.2824  0.02332

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
14.20    672.3  0.2733  0.1572  0.04818  0.09974  0.3345  0.7149
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.3563  0.06792  0.2553  0.9086  0.3164  0.1540
          k(pl)  x(ilm)  Q(ilm)
          0.007159  0.3876  5.286e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.1582  0.1554  0.1623  0.2145     0  0.004959  0.2808  0.02395

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
14.40    677.6  0.2686  0.1583  0.04880  0.1016  0.3288  0.7069
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.3499  0.06675  0.2523  0.8999  0.2936  0.1506
          k(pl)  x(ilm)  Q(ilm)
          0.007489  0.3860  5.084e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.1537  0.1588  0.1620  0.2167     0  0.004980  0.2792  0.02458

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P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.60	683.5	0.2643	0.1599	0.04944	0.1036	0.3229	0.6991
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.3436	0.06571	0.2499	0.8909	0.2710	0.1479
		k(pl)	x(ilm)	Q(ilm)			
		0.007904	0.3850	4.913e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1494	0.1621	0.1616	0.2191		0	0.004996	0.2776 0.02522

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.80	690.1	0.2606	0.1620	0.05011	0.1059	0.3166	0.6913
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.3374	0.06479	0.2481	0.8816	0.2486	0.1461
		k(pl)	x(ilm)	Q(ilm)			
		0.008430	0.3847	4.776e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1452	0.1651	0.1610	0.2217		0	0.005008	0.2761 0.02587

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.00	697.7	0.2573	0.1646	0.05081	0.1085	0.3100	0.6837
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.3311	0.06397	0.2472	0.8723	0.2264	0.1451
		k(pl)	x(ilm)	Q(ilm)			
		0.009106	0.3852	4.672e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1413	0.1678	0.1602	0.2246		0	0.005013	0.2745 0.02653

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.20	706.5	0.2548	0.1678	0.05153	0.1115	0.3032	0.6763
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.3248	0.06328	0.2472	0.8630	0.2046	0.1451
		k(pl)	x(ilm)	Q(ilm)			
		0.009980	0.3869	4.604e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1377	0.1702	0.1591	0.2277		0	0.005009	0.2730 0.02721

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.40	716.5	0.2529	0.1717	0.05228	0.1149	0.2960	0.6691
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.3184	0.06271	0.2483	0.8538	0.1836	0.1462
		k(pl)	x(ilm)	Q(ilm)			
		0.01112	0.3898	4.573e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1344	0.1722	0.1578	0.2311		0	0.004994	0.2716 0.02789

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.60	727.9	0.2518	0.1763	0.05303	0.1189	0.2885	0.6624
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.3120	0.06226	0.2505	0.8449	0.1635	0.1483
		k(pl)	x(ilm)	Q(ilm)			
		0.01259	0.3940	4.582e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1315	0.1737	0.1561	0.2348		0	0.004968	0.2703 0.02858

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.80	740.7	0.2516	0.1815	0.05376	0.1233	0.2808	0.6561
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.3056	0.06194	0.2538	0.8365	0.1448	0.1514
		k(pl)	x(ilm)	Q(ilm)			
		0.01450	0.3995	4.628e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1291	0.1748	0.1541	0.2388		0	0.004928	0.2690 0.02927

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.00	754.8	0.2520	0.1871	0.05445	0.1281	0.2730	0.6502
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2992	0.06173	0.2580	0.8288	0.1280	0.1553
		k(pl)	x(ilm)	Q(ilm)			
		0.01691	0.4062	4.706e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1272	0.1754	0.1518	0.2429		0	0.004877	0.2679 0.02995

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.20	769.7	0.2530	0.1930	0.05508	0.1331	0.2653	0.6447
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2929	0.06160	0.2630	0.8218	0.1132	0.1596
		k(pl)	x(ilm)	Q(ilm)			
		0.01991	0.4137	4.808e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1257	0.1757	0.1492	0.2470		0	0.004816	0.2669 0.03063

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.40	785.3	0.2544	0.1989	0.05565	0.1384	0.2576	0.6396
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2867	0.06154	0.2684	0.8156	0.1005	0.1640
		k(pl)	x(ilm)	Q(ilm)			
		0.02358	0.4217	4.921e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1245	0.1758	0.1465	0.2513		0	0.004748	0.2660 0.03130

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.60	801.1	0.2559	0.2047	0.05617	0.1438	0.2502	0.6346
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2806	0.06149	0.2740	0.8102	0.08975	0.1684
		k(pl)	x(ilm)	Q(ilm)			
		0.02798	0.4299	5.037e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1234	0.1758	0.1436	0.2555		0	0.004678	0.2651 0.03198

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.80	817.1	0.2574	0.2104	0.05664	0.1492	0.2428	0.6296
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2746	0.06144	0.2794	0.8054	0.08064	0.1723
		k(pl)	x(ilm)	Q(ilm)			
		0.03324	0.4379	5.143e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1223	0.1759	0.1405	0.2597		0	0.004608	0.2642 0.03267

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.00	833.1	0.2587	0.2160	0.05708	0.1545	0.2356	0.6245
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2685	0.06134	0.2845	0.8013	0.07294	0.1758
		k(pl)	x(ilm)	Q(ilm)			
		0.03949	0.4455	5.233e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1211	0.1762	0.1374	0.2640		0	0.004544	0.2634 0.03340

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.20	849.1	0.2596	0.2214	0.05752	0.1598	0.2286	0.6191
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2624	0.06118	0.2891	0.7979	0.06641	0.1786
		k(pl)	x(ilm)	Q(ilm)			
		0.04698	0.4526	5.297e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1196	0.1769	0.1340	0.2684		0	0.004487	0.2624 0.03418

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.40	865.1	0.2601	0.2268	0.05798	0.1651	0.2215	0.6132
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2561	0.06091	0.2931	0.7950	0.06084	0.1806
		k(pl)	x(ilm)	Q(ilm)			
		0.05603	0.4590	5.329e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1177	0.1780	0.1304	0.2732		0	0.004443	0.2613 0.03506

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.60	881.0	0.2598	0.2323	0.05849	0.1703	0.2143	0.6063
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.2493	0.06050	0.2963	0.7928	0.05606	0.1817	
	k(pl)	x(ilm)	Q(ilm)				
	0.06720	0.4645	5.318e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1150	0.1799	0.1263	0.2783		0	0.004418	0.2600 0.03607

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.80	897.2	0.2585	0.2381	0.05910	0.1756	0.2067	0.5981
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.2419	0.05989	0.2982	0.7914	0.05196	0.1815	
	k(pl)	x(ilm)	Q(ilm)				
	0.08146	0.4689	5.253e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1112	0.1828	0.1216	0.2843		0	0.004423	0.2583 0.03730

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.00	913.7	0.2556	0.2445	0.05992	0.1809	0.1984	0.5875
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.2333	0.05895	0.2983	0.7910	0.04846	0.1794	
	k(pl)	x(ilm)	Q(ilm)				
	0.1008	0.4714	5.109e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.1054	0.1876	0.1158	0.2918		0	0.004478	0.2560 0.03892

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.20	931.4	0.2492	0.2527	0.06120	0.1865	0.1882	0.5716
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.2223	0.05742	0.2947	0.7927	0.04558	0.1737	
	k(pl)	x(ilm)	Q(ilm)				
	0.1303	0.4706	4.825e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.09539	0.1964	0.1076	0.3024		0	0.004643	0.2522 0.04137

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.40	953.2	0.2302	0.2673	0.06428	0.1934	0.1701	0.5352
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.2026	0.05411	0.2776	0.8008	0.04412	0.1553	
	k(pl)	x(ilm)	Q(ilm)				
	0.1968	0.4569	4.116e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.06780	0.2209	0.09079	0.3258		0	0.005257	0.2424 0.04708

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.35 657.1 0.03942 0.1849 0.9170 0.0064340.0004876 0.6189
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7684 0.2908 0.1602 0.04666 0.09464 0.3492
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7411 0.3796 0.07219 0.2677 0.9404 0.4047
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.1828 0.006260 0.3957 6.235e-5 0.04864 0.1739

mode liq bi g mu pl ilm ru q H2O
0.04864 0.1739 0.1432 0.1613 0.1863 0 0.004872 0.2818 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ru, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 689.0 0.1107 0.1970 0.8267 0.0065090.0005874 0.6985
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6595 0.4237 0.5040 0.1015 0.09422 0.1359
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7412 0.01760 0.005802 0.3821 0.9854 0.3161
ca(pl) k(pl)
0.3672 0.006928

mode liq bi g mu pl ru q H2O
0 0.2842 0.026660.0003128 0.3413 0.003379 0.3100 0.03415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 689.5 0.1082 0.1976 0.8275 0.0066510.0006055 0.6994
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6639 0.4222 0.4941 0.1023 0.09454 0.1406
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7420 0.01911 0.005984 0.3825 0.9840 0.3074
ca(pl) k(pl)
0.3676 0.006969

mode liq bi g mu pl ru q H2O
0 0.2823 0.02756 0.002960 0.3406 0.003396 0.3092 0.03400

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 690.0 0.1058 0.1980 0.8283 0.0067940.0006231 0.7002
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6682 0.4207 0.4839 0.1030 0.09482 0.1456
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7429 0.02077 0.006187 0.3829 0.9825 0.2993
ca(pl) k(pl)
0.3680 0.007002

mode liq bi g mu pl ru q H2O
0 0.2803 0.02852 0.005636 0.3400 0.003415 0.3083 0.03385

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 690.3 0.1033 0.1983 0.8292 0.0069390.0006403 0.7009
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6723 0.4192 0.4735 0.1038 0.09509 0.1507
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7437 0.02259 0.006412 0.3831 0.9809 0.2917
ca(pl) k(pl)
0.3683 0.007029

mode liq bi g mu pl ru q H2O
0 0.2783 0.02952 0.008338 0.3394 0.003436 0.3073 0.03371

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 690.6 0.1009 0.1984 0.8301 0.0070850.0006569 0.7015
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6764 0.4175 0.4630 0.1046 0.09533 0.1559
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7446 0.02461 0.006664 0.3832 0.9793 0.2845
ca(pl) k(pl)
0.3685 0.007049

mode liq bi g mu pl ru q H2O
0 0.2762 0.03058 0.01106 0.3388 0.003459 0.3064 0.03357

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 690.8 0.09857 0.1985 0.8310 0.0072330.0006729 0.7020
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6802 0.4157 0.4522 0.1055 0.09556 0.1613
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7455 0.02684 0.006948 0.3832 0.9776 0.2778
ca(pl) k(pl)
0.3687 0.007063

mode liq bi g mu pl ru q H2O
0 0.2740 0.03168 0.01381 0.3382 0.003483 0.3054 0.03343

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 691.0 0.09624 0.1984 0.8320 0.0073820.0006882 0.7024

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6840 0.4139 0.4414 0.1064 0.09576 0.1668
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7464 0.02931 0.007270 0.3831 0.9758 0.2715
ca(pl) k(pl)
0.3688 0.007071

mode liq bi g mu pl ru q H2O
0 0.2718 0.03283 0.01657 0.3375 0.003509 0.3045 0.03329

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 691.0 0.09394 0.1982 0.8330 0.0075330.0007027 0.7028
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6877 0.4119 0.4304 0.1072 0.09594 0.1725
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7474 0.03206 0.007637 0.3829 0.9739 0.2654
ca(pl) k(pl)
0.3689 0.007075

mode liq bi g mu pl ru q H2O
0 0.2696 0.03404 0.01935 0.3369 0.003536 0.3035 0.03316

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 691.1 0.09168 0.1980 0.8341 0.0076860.0007164 0.7030
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6913 0.4099 0.4192 0.1081 0.09611 0.1783
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7484 0.03513 0.008057 0.3826 0.9720 0.2597
ca(pl) k(pl)
0.3689 0.007074

mode liq bi g mu pl ru q H2O
0 0.2673 0.03530 0.02214 0.3362 0.003564 0.3025 0.03303

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 691.0 0.08945 0.1977 0.8352 0.0078400.0007291 0.7032
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6948 0.4078 0.4080 0.1090 0.09627 0.1842
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7494 0.03857 0.008543 0.3822 0.9699 0.2542
ca(pl) k(pl)
0.3687 0.007069

mode liq bi g mu pl ru q H2O
0 0.2649 0.03661 0.02496 0.3355 0.003594 0.3015 0.03290

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 690.9 0.08726 0.1973 0.8363 0.0079960.0007408 0.7032
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6982 0.4056 0.3968 0.1099 0.09640 0.1902

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7504 0.04243 0.009109 0.3816 0.9677 0.2489
ca(pl) k(pl)
0.3685 0.007061

mode liq bi g mu pl ru q H2O
0 0.2625 0.03800 0.02779 0.3348 0.003625 0.3005 0.03277

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 690.8 0.08510 0.1969 0.8375 0.0081520.0007513 0.7032
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7015 0.4032 0.3854 0.1108 0.09653 0.1963
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7514 0.04680 0.009774 0.3808 0.9655 0.2439
ca(pl) k(pl)
0.3682 0.007049

mode liq bi g mu pl ru q H2O
0 0.2601 0.03946 0.03066 0.3340 0.003657 0.2995 0.03265

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 690.6 0.08297 0.1964 0.8386 0.0083080.0007606 0.7030
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7047 0.4007 0.3740 0.1116 0.09664 0.2025
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7525 0.05175 0.01056 0.3799 0.9631 0.2391
ca(pl) k(pl)
0.3677 0.007035

mode liq bi g mu pl ru q H2O
0 0.2576 0.04102 0.03356 0.3332 0.003691 0.2985 0.03252

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 690.4 0.08087 0.1959 0.8399 0.0084640.0007683 0.7026
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7079 0.3981 0.3626 0.1124 0.09674 0.2088
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7536 0.05742 0.01151 0.3788 0.9607 0.2345
ca(pl) k(pl)
0.3670 0.007019

mode liq bi g mu pl ru q H2O
0 0.2550 0.04269 0.03651 0.3322 0.003725 0.2975 0.03239

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 690.1 0.07881 0.1954 0.8412 0.0086180.0007743 0.7021
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7110 0.3952 0.3512 0.1132 0.09683 0.2152
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7547 0.06393 0.01265 0.3774 0.9581 0.2302

ca(pl) k(pl)
0.3662 0.007002

mode liq bi g mu pl ru q H2O
0 0.2523 0.04449 0.03953 0.3312 0.003762 0.2965 0.03227

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 689.7 0.07677 0.1948 0.8426 0.008768 0.0007784 0.7013
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7141 0.3921 0.3399 0.1139 0.09692 0.2217
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7559 0.07146 0.01405 0.3757 0.9554 0.2261
ca(pl) k(pl)
0.3650 0.006983

mode liq bi g mu pl ru q H2O
0 0.2495 0.04647 0.04265 0.3300 0.003799 0.2954 0.03213

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 689.3 0.07475 0.1942 0.8441 0.008912 0.0007804 0.7003
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7170 0.3888 0.3285 0.1144 0.09700 0.2283
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7570 0.08025 0.01579 0.3737 0.9526 0.2222
ca(pl) k(pl)
0.3635 0.006964

mode liq bi g mu pl ru q H2O
0 0.2465 0.04867 0.04590 0.3286 0.003839 0.2944 0.03200

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 688.7 0.07275 0.1936 0.8457 0.009046 0.0007798 0.6990
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7200 0.3851 0.3173 0.1147 0.09708 0.2350
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7581 0.09055 0.01796 0.3712 0.9498 0.2188
ca(pl) k(pl)
0.3616 0.006944

mode liq bi g mu pl ru q H2O
0 0.2434 0.05117 0.04934 0.3270 0.003882 0.2934 0.03185

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 688.1 0.07075 0.1930 0.8476 0.009166 0.0007765 0.6972
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7229 0.3810 0.3062 0.1147 0.09716 0.2418
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7591 0.1027 0.02071 0.3682 0.9468 0.2158
ca(pl) k(pl)
0.3590 0.006924

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mode   liq   bi    g    mu   pl   ru    q   H2O
0  0.2400 0.05404 0.05304 0.3250 0.003927 0.2923 0.03170

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.40    687.4 0.06876 0.1924 0.8498 0.0092650 0.0007700 0.6949
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7258 0.3763 0.2952 0.1143 0.09724 0.2487
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7598 0.1169 0.02417 0.3645 0.9438 0.2134
        ca(pl) k(pl)
        0.3556 0.006903

```

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mode   liq   bi    g    mu   pl   ru    q   H2O
0  0.2362 0.05742 0.05710 0.3225 0.003977 0.2913 0.03152

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.60    686.5 0.06675 0.1919 0.8524 0.0093340 0.0007602 0.6919
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7286 0.3710 0.2846 0.1131 0.09734 0.2558
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7603 0.1335 0.02847 0.3598 0.9408 0.2120
        ca(pl) k(pl)
        0.3512 0.006881

```

```

mode   liq   bi    g    mu   pl   ru    q   H2O
0  0.2320 0.06143 0.06163 0.3194 0.004032 0.2902 0.03131

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.80    685.5 0.06471 0.1913 0.8557 0.0093640 0.0007472 0.6881
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7315 0.3649 0.2743 0.1111 0.09744 0.2630
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7602 0.1523 0.03359 0.3542 0.9380 0.2118
        ca(pl) k(pl)
        0.3455 0.006854

```

```

mode   liq   bi    g    mu   pl   ru    q   H2O
0  0.2274 0.06620 0.06673 0.3155 0.004092 0.2891 0.03107

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```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.00    684.2 0.06264 0.1909 0.8596 0.0093480 0.0007313 0.6835
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7343 0.3581 0.2646 0.1081 0.09755 0.2702
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.7593 0.1726 0.03928 0.3476 0.9353 0.2131
        ca(pl) k(pl)
        0.3384 0.006822

```

```

mode   liq   bi    g    mu   pl   ru    q   H2O

```


0 0.2222 0.07173 0.07244 0.3107 0.004158 0.2880 0.03078

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 682.8 0.06056 0.1904 0.8642 0.0092840.0007133 0.6781
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7372 0.3507 0.2554 0.1041 0.09764 0.2775
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7577 0.1935 0.04509 0.3400 0.9329 0.2162
ca(pl) k(pl)
0.3297 0.006781

mode liq bi g mu pl ru q H2O
0 0.2167 0.07795 0.07872 0.3051 0.004230 0.2869 0.03043

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 681.2 0.05845 0.1900 0.8693 0.0091740.0006938 0.6720
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7401 0.3430 0.2465 0.09934 0.09771 0.2846
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7555 0.2140 0.05051 0.3318 0.9308 0.2212
ca(pl) k(pl)
0.3197 0.006731

mode liq bi g mu pl ru q H2O
0 0.2110 0.08466 0.08545 0.2987 0.004304 0.2859 0.03004

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 679.4 0.05635 0.1896 0.8749 0.0090210.0006733 0.6656
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7429 0.3352 0.2380 0.09406 0.09774 0.2915
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7527 0.2336 0.05521 0.3233 0.9291 0.2279
ca(pl) k(pl)
0.3085 0.006673

mode liq bi g mu pl ru q H2O
0 0.2052 0.09165 0.09250 0.2917 0.004380 0.2850 0.02959

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 677.5 0.05426 0.1893 0.8806 0.0088300.0006523 0.6589
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7458 0.3276 0.2296 0.08854 0.09769 0.2981
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7496 0.2520 0.05908 0.3147 0.9278 0.2366
ca(pl) k(pl)
0.2963 0.006608

mode liq bi g mu pl ru q H2O
0 0.1996 0.09873 0.09976 0.2842 0.004455 0.2842 0.02908

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 675.4 0.05220 0.1889 0.8864 0.0086020.0006311 0.6522
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7486 0.3203 0.2212 0.08294 0.09758 0.3046
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7464 0.2692 0.06214 0.3063 0.9269 0.2472
ca(pl) k(pl)
0.2831 0.006540

mode liq bi g mu pl ru q H2O
0 0.1942 0.1057 0.1072 0.2762 0.004529 0.2836 0.02851

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 673.1 0.05016 0.1885 0.8922 0.0083390.0006099 0.6456
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7515 0.3134 0.2127 0.07739 0.09737 0.3108
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7435 0.2855 0.06452 0.2983 0.9265 0.2600
ca(pl) k(pl)
0.2691 0.006470

mode liq bi g mu pl ru q H2O
0 0.1893 0.1125 0.1147 0.2678 0.004600 0.2832 0.02788

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 670.6 0.04816 0.1880 0.8978 0.0080430.0005889 0.6393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7544 0.3073 0.2040 0.07193 0.09707 0.3170
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7409 0.3011 0.06638 0.2909 0.9266 0.2753
ca(pl) k(pl)
0.2543 0.006403

mode liq bi g mu pl ru q H2O
0 0.1849 0.1190 0.1223 0.2590 0.004666 0.2830 0.02716

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 668.0 0.04619 0.1876 0.9030 0.0077170.0005684 0.6336
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7573 0.3020 0.1951 0.06661 0.09666 0.3233
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7391 0.3163 0.06788 0.2843 0.9274 0.2935
ca(pl) k(pl)
0.2390 0.006342

mode liq bi g mu pl ru q H2O
0 0.1811 0.1249 0.1300 0.2498 0.004725 0.2831 0.02634

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 665.2 0.04427 0.1870 0.9078 0.0073630.0005482 0.6288

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7602 0.2978 0.1859 0.06139 0.09615 0.3299
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7384 0.3316 0.06920 0.2787 0.9290 0.3150
 ca(pl) k(pl)
 0.2231 0.006294

mode liq bi g mu pl ru q H2O
 0 0.1782 0.1302 0.1378 0.2401 0.004776 0.2835 0.02540

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 662.2 0.04240 0.1864 0.9120 0.0069850.0005282 0.6251
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7632 0.2951 0.1763 0.05626 0.09554 0.3370
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7390 0.3473 0.07050 0.2746 0.9315 0.3406
 ca(pl) k(pl)
 0.2069 0.006268

mode liq bi g mu pl ru q H2O
 0 0.1763 0.1346 0.1458 0.2299 0.004817 0.2842 0.02431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 658.9 0.04058 0.1856 0.9154 0.0065850.0005076 0.6229
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7663 0.2941 0.1663 0.05115 0.09481 0.3451
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7417 0.3641 0.07197 0.2721 0.9350 0.3712
 ca(pl) k(pl)
 0.1905 0.006280

mode liq bi g mu pl ru q H2O
 0 0.1757 0.1380 0.1540 0.2190 0.004844 0.2853 0.02302

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.40 655.5 0.03881 0.1847 0.9177 0.0061660.0004853 0.6228
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7695 0.2954 0.1558 0.04599 0.09396 0.3546
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7468 0.3831 0.07385 0.2719 0.9399 0.4080
 ca(pl) k(pl)
 0.1741 0.006351

mode liq bi g mu pl ru q H2O
 0 0.1767 0.1400 0.1627 0.2072 0.004854 0.2870 0.02148

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.60 651.6 0.03708 0.1836 0.9184 0.0057310.0004589 0.6254
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7728 0.2996 0.1447 0.04070 0.09299 0.3659

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7551 0.4055 0.07643 0.2745 0.9460 0.4520
ca(pl) k(pl)
0.1578 0.006520

mode liq bi g mu pl ru q H2O
0 0.1797 0.1404 0.1719 0.1942 0.004844 0.2894 0.01959

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 647.3 0.03539 0.1823 0.9170 0.0052810.0004255 0.6309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7764 0.3072 0.1330 0.03533 0.09188 0.3792
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7670 0.4325 0.07997 0.2805 0.9533 0.5028
ca(pl) k(pl)
0.1416 0.006832

mode liq bi g mu pl ru q H2O
0 0.1847 0.1389 0.1819 0.1798 0.004813 0.2925 0.01733

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 642.4 0.03374 0.1806 0.9133 0.0048210.0003841 0.6388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7803 0.3176 0.1213 0.03018 0.09064 0.3938
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7814 0.4635 0.08443 0.2894 0.9605 0.5556
ca(pl) k(pl)
0.1258 0.007302

mode liq bi g mu pl ru q H2O
0 0.1914 0.1358 0.1923 0.1648 0.004769 0.2961 0.01479

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 637.0 0.03213 0.1785 0.9079 0.0043660.0003386 0.6473
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7845 0.3291 0.1099 0.02567 0.08928 0.4085
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7962 0.4958 0.08938 0.2994 0.9664 0.6037
ca(pl) k(pl)
0.1107 0.007871

mode liq bi g mu pl ru q H2O
0 0.1984 0.1321 0.2024 0.1505 0.004726 0.2997 0.01227

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 631.3 0.03056 0.1762 0.9018 0.0039250.0002940 0.6552
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7889 0.3402 0.09929 0.02193 0.08782 0.4223
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8098 0.5269 0.09435 0.3091 0.9707 0.6436

ca(pl) k(pl)
0.09679 0.008453

mode liq bi g mu pl ru q H2O
0 0.2048 0.1283 0.2117 0.1377 0.004694 0.3028 0.009953

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 625.4 0.02902 0.1736 0.8954 0.003503 0.0002524 0.6621
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7935 0.3506 0.08934 0.01882 0.08626 0.4351
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8221 0.5562 0.09924 0.3180 0.9738 0.6764
ca(pl) k(pl)
0.08399 0.008997

mode liq bi g mu pl ru q H2O
0 0.2106 0.1246 0.2200 0.1266 0.004674 0.3056 0.007865

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 618.9 0.02750 0.1707 0.8884 0.003096 0.0002138 0.6682
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7985 0.3603 0.07986 0.01616 0.08456 0.4475
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8334 0.5845 0.1042 0.3262 0.9761 0.7041
ca(pl) k(pl)
0.07220 0.009484

mode liq bi g mu pl ru q H2O
0 0.2160 0.1210 0.2277 0.1167 0.004666 0.3080 0.005945

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 611.5 0.02595 0.1671 0.8805 0.002692 0.0001765 0.6737
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8040 0.3699 0.07049 0.01375 0.08258 0.4599
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8444 0.6134 0.1094 0.3342 0.9780 0.7290
ca(pl) k(pl)
0.06113 0.009912

mode liq bi g mu pl ru q H2O
0 0.2211 0.1173 0.2351 0.1074 0.004669 0.3104 0.004092

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 601.9 0.02426 0.1625 0.8703 0.002259 0.0001376 0.6788
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8108 0.3805 0.06048 0.01137 0.08003 0.4738
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8563 0.6464 0.1156 0.3424 0.9797 0.7537
ca(pl) k(pl)
0.05012 0.01029

```
mode  liq  bi   g   mu   pl   ru   q   H2O
      0 0.2266 0.1130 0.2428 0.09799 0.004689 0.3128 0.002123
```

calcs use:

composition (from script)

```
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
```

<=====>

phases : liq, bi, g, mu, pl, ru, H2O, (q)

```
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 694.4 0.1010 0.1953 0.8196 0.0080280.0006771 0.6997
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6786 0.4110 0.4580 0.1066 0.09664 0.1573
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7407 0.02792 0.007230 0.3798 0.9760 0.2533
      ca(pl) k(pl)
      0.4035 0.006667
```

```
mode  liq  bi   g   mu   pl   ru   q   H2O
      0.1027 0.2702 0.03484 0.002943 0.3043 0.003489 0.2815 0
```

```
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 694.6 0.09864 0.1953 0.8207 0.0081920.0006926 0.6998
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6824 0.4085 0.4472 0.1077 0.09689 0.1628
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7411 0.03043 0.007577 0.3792 0.9742 0.2481
      ca(pl) k(pl)
      0.4034 0.006680
```

```
mode  liq  bi   g   mu   pl   ru   q   H2O
      0.1010 0.2675 0.03641 0.006525 0.3038 0.003520 0.2812 0
```

```
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 694.8 0.09631 0.1953 0.8220 0.0083560.0007073 0.6998
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6861 0.4060 0.4361 0.1087 0.09712 0.1683
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.7417 0.03322 0.007970 0.3785 0.9724 0.2433
      ca(pl) k(pl)
      0.4031 0.006688
```

```
mode  liq  bi   g   mu   pl   ru   q   H2O
      0.09940 0.2648 0.03798 0.01003 0.3033 0.003552 0.2809 0
```

```
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 694.9 0.09402 0.1952 0.8232 0.0085210.0007212 0.6997
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6897 0.4035 0.4251 0.1097 0.09733 0.1740
```

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7423 0.03634 0.008418 0.3778 0.9705 0.2386
ca(pl) k(pl)
0.4028 0.006693

mode liq bi g mu pl ru q H2O
0.09784 0.2622 0.03956 0.01347 0.3028 0.003584 0.2806 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 694.9 0.09175 0.1950 0.8245 0.008687 0.0007341 0.6996
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6932 0.4010 0.4139 0.1107 0.09751 0.1799
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7429 0.03984 0.008933 0.3769 0.9684 0.2341
ca(pl) k(pl)
0.4023 0.006695

mode liq bi g mu pl ru q H2O
0.09635 0.2595 0.04115 0.01686 0.3022 0.003617 0.2803 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 694.8 0.08951 0.1947 0.8259 0.008852 0.0007459 0.6994
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6967 0.3983 0.4026 0.1117 0.09768 0.1858
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7436 0.04377 0.009531 0.3760 0.9663 0.2299
ca(pl) k(pl)
0.4016 0.006694

mode liq bi g mu pl ru q H2O
0.09490 0.2568 0.04278 0.02021 0.3017 0.003651 0.2799 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 694.7 0.08731 0.1944 0.8273 0.009017 0.0007565 0.6991
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7000 0.3956 0.3913 0.1126 0.09784 0.1918
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7444 0.04821 0.01023 0.3749 0.9641 0.2258
ca(pl) k(pl)
0.4009 0.006691

mode liq bi g mu pl ru q H2O
0.09351 0.2542 0.04445 0.02355 0.3011 0.003685 0.2796 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 694.6 0.08513 0.1941 0.8287 0.009181 0.0007657 0.6987
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7033 0.3928 0.3800 0.1135 0.09798 0.1979
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7452 0.05325 0.01106 0.3737 0.9618 0.2219

ca(pl) k(pl)
0.3999 0.006685

mode liq bi g mu pl ru q H2O
0.09216 0.2515 0.04620 0.02688 0.3004 0.003721 0.2792 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 694.3 0.08298 0.1937 0.8302 0.0093420.0007734 0.6981
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7065 0.3899 0.3686 0.1144 0.09810 0.2041
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7461 0.05902 0.01205 0.3723 0.9594 0.2182
ca(pl) k(pl)
0.3988 0.006678

mode liq bi g mu pl ru q H2O
0.09084 0.2487 0.04804 0.03023 0.2996 0.003757 0.2788 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 694.0 0.08085 0.1932 0.8317 0.0095000.0007793 0.6974
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7096 0.3868 0.3572 0.1151 0.09822 0.2104
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7470 0.06565 0.01324 0.3706 0.9568 0.2147
ca(pl) k(pl)
0.3974 0.006668

mode liq bi g mu pl ru q H2O
0.08955 0.2459 0.05001 0.03362 0.2987 0.003795 0.2784 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 693.6 0.07875 0.1927 0.8334 0.0096520.0007833 0.6964
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7127 0.3835 0.3459 0.1158 0.09832 0.2168
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7480 0.07333 0.01469 0.3686 0.9542 0.2114
ca(pl) k(pl)
0.3956 0.006658

mode liq bi g mu pl ru q H2O
0.08829 0.2430 0.05214 0.03710 0.2977 0.003834 0.2779 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 693.2 0.07666 0.1923 0.8352 0.0097960.0007850 0.6952
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7157 0.3799 0.3346 0.1162 0.09842 0.2233
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7489 0.08226 0.01649 0.3663 0.9515 0.2084
ca(pl) k(pl)
0.3935 0.006647

mode	liq	bi	g	mu	pl	ru	q	H2O
	0.08703	0.2400	0.05450	0.04071	0.2964	0.003875	0.2775	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	692.6	0.07459	0.1918	0.8373	0.0099260	0.0007841	0.6936
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7187	0.3759	0.3234	0.1164	0.09851	0.2299	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7498	0.09273	0.01873	0.3636	0.9488	0.2058	
	ca(pl)	k(pl)					
	0.3908	0.006636					

mode	liq	bi	g	mu	pl	ru	q	H2O
	0.08578	0.2367	0.05716	0.04452	0.2949	0.003919	0.2770	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	692.0	0.07251	0.1913	0.8396	0.010040	0.0007803	0.6916
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7216	0.3716	0.3124	0.1163	0.09860	0.2366	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7505	0.1050	0.02153	0.3602	0.9459	0.2037	
	ca(pl)	k(pl)					
	0.3875	0.006623					

mode	liq	bi	g	mu	pl	ru	q	H2O
	0.08450	0.2332	0.06022	0.04859	0.2929	0.003966	0.2766	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	691.2	0.07043	0.1908	0.8423	0.010120	0.0007733	0.6890
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7245	0.3667	0.3015	0.1156	0.09870	0.2435	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7511	0.1194	0.02502	0.3562	0.9430	0.2022	
	ca(pl)	k(pl)					
	0.3832	0.006610					

mode	liq	bi	g	mu	pl	ru	q	H2O
	0.08318	0.2294	0.06378	0.05304	0.2905	0.004017	0.2761	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	690.2	0.06833	0.1904	0.8455	0.010170	0.0007629	0.6857
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7274	0.3612	0.2910	0.1142	0.09879	0.2505	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.7512	0.1359	0.02926	0.3513	0.9402	0.2018	
	ca(pl)	k(pl)					
	0.3778	0.006594					

mode	liq	bi	g	mu	pl	ru	q	H2O
------	-----	----	---	----	----	----	---	-----

0.08180 0.2252 0.06798 0.05798 0.2874 0.004073 0.2756 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 689.1 0.06619 0.1900 0.8494 0.010180.0007493 0.6817
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7303 0.3550 0.2808 0.1118 0.09889 0.2575
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7509 0.1545 0.03421 0.3454 0.9375 0.2025
ca(pl) k(pl)
0.3710 0.006575

mode liq bi g mu pl ru q H2O
0.08032 0.2205 0.07291 0.06350 0.2836 0.004135 0.2751 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 687.7 0.06402 0.1896 0.8540 0.010130.0007329 0.6768
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7332 0.3481 0.2712 0.1085 0.09898 0.2647
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7498 0.1744 0.03961 0.3386 0.9349 0.2047
ca(pl) k(pl)
0.3627 0.006550

mode liq bi g mu pl ru q H2O
0.07872 0.2154 0.07855 0.06962 0.2789 0.004202 0.2747 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 686.1 0.06182 0.1893 0.8593 0.010040.0007144 0.6712
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7361 0.3408 0.2619 0.1042 0.09905 0.2717
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7481 0.1948 0.04502 0.3310 0.9327 0.2087
ca(pl) k(pl)
0.3528 0.006518

mode liq bi g mu pl ru q H2O
0.07701 0.2099 0.08481 0.07629 0.2734 0.004274 0.2743 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 684.4 0.05960 0.1890 0.8652 0.0098860.0006943 0.6651
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7390 0.3333 0.2530 0.09926 0.09908 0.2787
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7458 0.2148 0.05003 0.3228 0.9307 0.2143
ca(pl) k(pl)
0.3414 0.006478

mode liq bi g mu pl ru q H2O
0.07519 0.2044 0.09150 0.08338 0.2673 0.004349 0.2740 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.60 682.4 0.05739 0.1888 0.8714 0.0096900.0006732 0.6585
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7419 0.3258 0.2443 0.09384 0.09905 0.2855
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7430 0.2340 0.05436 0.3145 0.9291 0.2218
 ca(pl) k(pl)
 0.3288 0.006432

mode liq bi g mu pl ru q H2O
 0.07326 0.1988 0.09842 0.09078 0.2605 0.004425 0.2738 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.80 680.3 0.05519 0.1885 0.8777 0.0094490.0006515 0.6519
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7449 0.3184 0.2356 0.08821 0.09895 0.2921
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7400 0.2521 0.05794 0.3061 0.9278 0.2311
 ca(pl) k(pl)
 0.3150 0.006382

mode liq bi g mu pl ru q H2O
 0.07121 0.1934 0.1054 0.09839 0.2534 0.004500 0.2737 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.00 677.9 0.05301 0.1882 0.8842 0.0091670.0006296 0.6452
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7478 0.3115 0.2269 0.08254 0.09875 0.2985
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7371 0.2692 0.06079 0.2980 0.9270 0.2426
 ca(pl) k(pl)
 0.3001 0.006328

mode liq bi g mu pl ru q H2O
 0.06904 0.1883 0.1122 0.1061 0.2458 0.004573 0.2738 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.20 675.4 0.05086 0.1880 0.8905 0.0088460.0006077 0.6387
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7507 0.3050 0.2180 0.07693 0.09846 0.3049
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7345 0.2855 0.06303 0.2903 0.9268 0.2563
 ca(pl) k(pl)
 0.2843 0.006274

mode liq bi g mu pl ru q H2O
 0.06674 0.1837 0.1189 0.1140 0.2380 0.004643 0.2741 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.40 672.7 0.04875 0.1876 0.8965 0.0084900.0005863 0.6327

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7537 0.2994 0.2089 0.07145 0.09806 0.3113
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7324 0.3011 0.06482 0.2833 0.9271 0.2727
 ca(pl) k(pl)
 0.2676 0.006224

mode liq bi g mu pl ru q H2O
 0.06427 0.1796 0.1250 0.1219 0.2298 0.004707 0.2746 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 669.8 0.04668 0.1873 0.9022 0.0081010.0005654 0.6273
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7567 0.2947 0.1994 0.06609 0.09755 0.3179
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7311 0.3165 0.06630 0.2772 0.9281 0.2921
 ca(pl) k(pl)
 0.2503 0.006182

mode liq bi g mu pl ru q H2O
 0.06159 0.1763 0.1307 0.1299 0.2214 0.004764 0.2754 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 666.7 0.04466 0.1868 0.9073 0.0076840.0005451 0.6229
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7597 0.2912 0.1896 0.06086 0.09693 0.3249
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7311 0.3319 0.06765 0.2723 0.9299 0.3152
 ca(pl) k(pl)
 0.2325 0.006154

mode liq bi g mu pl ru q H2O
 0.05867 0.1738 0.1355 0.1380 0.2126 0.004812 0.2765 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 663.4 0.04270 0.1862 0.9118 0.0072450.0005249 0.6198
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7628 0.2892 0.1793 0.05571 0.09620 0.3327
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.7327 0.3478 0.06904 0.2688 0.9326 0.3427
 ca(pl) k(pl)
 0.2145 0.006151

mode liq bi g mu pl ru q H2O
 0.05543 0.1725 0.1394 0.1462 0.2035 0.004848 0.2780 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 659.9 0.04080 0.1855 0.9152 0.0067870.0005043 0.6185
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7659 0.2892 0.1686 0.05056 0.09535 0.3415

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7365 0.3652 0.07066 0.2673 0.9365 0.3757
ca(pl) k(pl)
0.1964 0.006189

mode liq bi g mu pl ru q H2O
0.05175 0.1727 0.1422 0.1547 0.1939 0.004868 0.2799 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 656.1 0.03896 0.1847 0.9174 0.0063140.0004815 0.6194
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7692 0.2917 0.1573 0.04533 0.09438 0.3520
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7431 0.3849 0.07279 0.2682 0.9418 0.4154
ca(pl) k(pl)
0.1783 0.006296

mode liq bi g mu pl ru q H2O
0.04750 0.1745 0.1434 0.1636 0.1837 0.004871 0.2825 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 652.0 0.03718 0.1836 0.9178 0.0058290.0004540 0.6233
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7727 0.2974 0.1455 0.03994 0.09330 0.3645
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7532 0.4085 0.07572 0.2723 0.9485 0.4630
ca(pl) k(pl)
0.1605 0.006514

mode liq bi g mu pl ru q H2O
0.04251 0.1785 0.1428 0.1731 0.1724 0.004851 0.2858 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 647.3 0.03544 0.1822 0.9158 0.0053350.0004185 0.6303
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7764 0.3067 0.1332 0.03448 0.09207 0.3791
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7670 0.4371 0.07972 0.2799 0.9561 0.5170
ca(pl) k(pl)
0.1431 0.006893

mode liq bi g mu pl ru q H2O
0.03675 0.1847 0.1402 0.1834 0.1603 0.004810 0.2899 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 642.1 0.03375 0.1804 0.9114 0.0048420.0003752 0.6393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7805 0.3184 0.1210 0.02938 0.09072 0.3946
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7827 0.4693 0.08460 0.2901 0.9632 0.5708

ca(pl) k(pl)
0.1264 0.007426

mode	liq	bi	g	mu	pl	ru	q	H2O	
	0.03066	0.1921	0.1363	0.1940	0.1479	0.004759	0.2943		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 636.6 0.03211 0.1783 0.9058 0.004366 0.0003294 0.6482
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7847 0.3305 0.1095 0.02503 0.08929 0.4096
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7979 0.5016 0.08975 0.3006 0.9686 0.6173
ca(pl) k(pl)
0.1108 0.008028

mode	liq	bi	g	mu	pl	ru	q	H2O	
	0.02495	0.1994	0.1321	0.2039	0.1366	0.004715	0.2984		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 630.9 0.03053 0.1760 0.8997 0.003915 0.0002859 0.6561
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7892 0.3416 0.09882 0.02146 0.08779 0.4233
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8114 0.5320 0.09479 0.3104 0.9724 0.6547
ca(pl) k(pl)
0.09655 0.008613

mode	liq	bi	g	mu	pl	ru	q	H2O	
	0.01993	0.2058	0.1281	0.2129	0.1267	0.004684	0.3019		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 624.9 0.02899 0.1734 0.8934 0.003489 0.0002460 0.6629
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7938 0.3518 0.08890 0.01850 0.08621 0.4360
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8234 0.5604 0.09967 0.3191 0.9750 0.6850
ca(pl) k(pl)
0.08364 0.009141

mode	liq	bi	g	mu	pl	ru	q	H2O	
	0.01552	0.2114	0.1243	0.2210	0.1182	0.004667	0.3049		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 618.4 0.02746 0.1704 0.8868 0.003081 0.0002089 0.6688
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7988 0.3613 0.07947 0.01594 0.08448 0.4482
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8344 0.5879 0.1046 0.3271 0.9770 0.7105
ca(pl) k(pl)
0.07185 0.009602

```

mode   liq   bi    g    mu    pl    ru    q    H2O
0.01155 0.2166 0.1207 0.2284 0.1105 0.004661 0.3076    0

```

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00   611.0 0.02591 0.1669 0.8792 0.0026780.0001732 0.6741
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8043 0.3707 0.07017 0.01361 0.08250 0.4605
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.8452 0.6159 0.1097 0.3348 0.9785 0.7333
        ca(pl) k(pl)
        0.06082 0.009998

```

```

mode   liq   bi    g    mu    pl    ru    q    H2O
0.007813 0.2216 0.1170 0.2355 0.1033 0.004667 0.3101    0

```

```

-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20   601.5 0.02423 0.1624 0.8694 0.0022480.0001359 0.6790
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.8110 0.3809 0.06024 0.01129 0.07996 0.4742
        x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
        0.8568 0.6479 0.1159 0.3428 0.9800 0.7560
        ca(pl) k(pl)
        0.04990 0.01033

```

```

mode   liq   bi    g    mu    pl    ru    q    H2O
0.003954 0.2269 0.1128 0.2430 0.09591 0.004688 0.3127    0

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : bi, mu, pl, ilm, sill, H2O, (q)

```

-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.00    569.7 0.4351 0.4292 0.03484 0.07046 0.2363 0.3459
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9821 0.2567 0.3695 0.004557 0.7671 0.7028

```

```

mode   bi    mu    pl    ilm    sill    q    H2O
0.2898    0 0.3413 0.01244 0.01536 0.3080 0.03307

```

```

-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.20    574.1 0.4353 0.4269 0.03484 0.07131 0.2362 0.3483
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9812 0.2536 0.3695 0.004659 0.7657 0.6997

```

```

mode   bi    mu    pl    ilm    sill    q    H2O
0.2898    0 0.3414 0.01238 0.01554 0.3079 0.03311

```

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
4.40	578.3	0.4355	0.4247	0.03483	0.07215	0.2361	0.3506
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9801	0.2505	0.3695	0.004760	0.7643	0.6965

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2897	0	0.3414	0.01232	0.01571	0.3077	0.03315

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
4.60	582.6	0.4357	0.4225	0.03482	0.07298	0.2360	0.3528
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9791	0.2475	0.3694	0.004861	0.7629	0.6933

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2897	0	0.3414	0.01225	0.01589	0.3075	0.03319

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
4.80	586.8	0.4359	0.4203	0.03481	0.07381	0.2358	0.3551
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9780	0.2446	0.3694	0.004962	0.7615	0.6901

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2897	0	0.3415	0.01219	0.01607	0.3073	0.03323

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
5.00	591.0	0.4361	0.4182	0.03480	0.07464	0.2357	0.3573
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9769	0.2418	0.3694	0.005062	0.7601	0.6868

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2897	0	0.3415	0.01213	0.01625	0.3071	0.03327

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
5.20	595.2	0.4363	0.4160	0.03478	0.07546	0.2357	0.3595
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9758	0.2390	0.3693	0.005162	0.7586	0.6835

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2897	0	0.3415	0.01207	0.01642	0.3070	0.03331

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
5.40	599.3	0.4364	0.4138	0.03477	0.07627	0.2356	0.3617
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9746	0.2362	0.3693	0.005262	0.7572	0.6801

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2897	0	0.3416	0.01201	0.01659	0.3068	0.03335

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
---------	-------	-------	-------	-------	-------	-------	--------

5.60 603.4 0.4366 0.4117 0.03475 0.07709 0.2355 0.3638
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9734 0.2336 0.3692 0.005361 0.7557 0.6767

mode bi mu pl ilm sill q H2O
0.2897 0 0.3416 0.01195 0.01677 0.3066 0.03339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.80 607.5 0.4368 0.4096 0.03473 0.07789 0.2354 0.3659
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9722 0.2310 0.3692 0.005459 0.7542 0.6732

mode bi mu pl ilm sill q H2O
0.2897 0 0.3416 0.01189 0.01694 0.3065 0.03343

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.00 611.5 0.4370 0.4075 0.03471 0.07870 0.2353 0.3680
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9709 0.2285 0.3692 0.005556 0.7527 0.6697

mode bi mu pl ilm sill q H2O
0.2896 0 0.3417 0.01183 0.01711 0.3063 0.03346

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.20 615.5 0.4372 0.4054 0.03468 0.07950 0.2352 0.3701
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9697 0.2260 0.3691 0.005653 0.7512 0.6662

mode bi mu pl ilm sill q H2O
0.2896 0 0.3417 0.01177 0.01728 0.3061 0.03350

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.40 619.5 0.4373 0.4033 0.03466 0.08029 0.2351 0.3721
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9684 0.2236 0.3691 0.005750 0.7497 0.6626

mode bi mu pl ilm sill q H2O
0.2896 0 0.3417 0.01171 0.01745 0.3059 0.03354

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.60 623.5 0.4375 0.4013 0.03463 0.08108 0.2350 0.3741
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9670 0.2213 0.3691 0.005845 0.7482 0.6589

mode bi mu pl ilm sill q H2O
0.2896 0 0.3418 0.01166 0.01761 0.3058 0.03358

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.80 627.4 0.4377 0.3992 0.03460 0.08187 0.2350 0.3761
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9657 0.2190 0.3690 0.005940 0.7466 0.6553

mode bi mu pl ilm sill q H2O
0.2896 0 0.3418 0.01160 0.01778 0.3056 0.03362

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.00 631.4 0.4379 0.3972 0.03457 0.08265 0.2349 0.3781
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9643 0.2168 0.3690 0.006034 0.7450 0.6515

mode bi mu pl ilm sill q H2O
0.2896 0 0.3418 0.01154 0.01794 0.3054 0.03365

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.20 635.3 0.4380 0.3951 0.03454 0.08342 0.2348 0.3800
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9629 0.2147 0.3690 0.006127 0.7435 0.6477

mode bi mu pl ilm sill q H2O
0.2896 0 0.3419 0.01149 0.01811 0.3053 0.03369

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.40 639.1 0.4382 0.3931 0.03451 0.08419 0.2347 0.3819
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9615 0.2126 0.3689 0.006219 0.7419 0.6439

mode bi mu pl ilm sill q H2O
0.2896 0 0.3419 0.01143 0.01827 0.3051 0.03373

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.60 643.0 0.4384 0.3911 0.03448 0.08496 0.2346 0.3838
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9600 0.2105 0.3689 0.006311 0.7403 0.6400

mode bi mu pl ilm sill q H2O
0.2895 0 0.3419 0.01138 0.01843 0.3050 0.03377

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.80 646.8 0.4385 0.3892 0.03444 0.08572 0.2346 0.3857
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9585 0.2085 0.3689 0.006401 0.7387 0.6360

mode bi mu pl ilm sill q H2O
0.2895 0 0.3420 0.01132 0.01859 0.3048 0.03380

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.00 650.7 0.4387 0.3872 0.03440 0.08648 0.2345 0.3876
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9570 0.2066 0.3688 0.006491 0.7371 0.6320

mode	bi	mu	pl	ilm	sill	q	H2O
0.2895	0	0.3420	0.01127	0.01875	0.3046	0.03384	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.20	654.5	0.4389	0.3853	0.03437	0.08724	0.2344	0.3894
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9555	0.2047	0.3688	0.006579	0.7354	0.6280

mode	bi	mu	pl	ilm	sill	q	H2O
0.2895	0	0.3420	0.01121	0.01891	0.3045	0.03387	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.40	658.3	0.4390	0.3833	0.03433	0.08799	0.2343	0.3912
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9540	0.2029	0.3688	0.006667	0.7338	0.6239

mode	bi	mu	pl	ilm	sill	q	H2O
0.2895	0	0.3421	0.01116	0.01906	0.3043	0.03391	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.60	662.0	0.4392	0.3814	0.03429	0.08873	0.2342	0.3930
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9524	0.2011	0.3687	0.006754	0.7321	0.6197

mode	bi	mu	pl	ilm	sill	q	H2O
0.2895	0	0.3421	0.01111	0.01922	0.3042	0.03395	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.80	665.8	0.4394	0.3795	0.03424	0.08948	0.2341	0.3948
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9508	0.1993	0.3687	0.006840	0.7304	0.6155

mode	bi	mu	pl	ilm	sill	q	H2O
0.2895	0	0.3421	0.01105	0.01937	0.3040	0.03398	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.00	669.5	0.4395	0.3776	0.03420	0.09021	0.2340	0.3966
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9492	0.1976	0.3687	0.006924	0.7288	0.6112

mode	bi	mu	pl	ilm	sill	q	H2O
0.2895	0	0.3421	0.01100	0.01952	0.3039	0.03402	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.20	673.2	0.4397	0.3757	0.03416	0.09095	0.2340	0.3983
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9475	0.1960	0.3686	0.007008	0.7271	0.6069

mode	bi	mu	pl	ilm	sill	q	H2O
0.2895	0	0.3422	0.01095	0.01968	0.3037	0.03405	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.40	677.0	0.4399	0.3739	0.03411	0.09168	0.2339	0.4001
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9459	0.1943	0.3686	0.007091	0.7254	0.6025	

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2894	0	0.3422	0.01090	0.01983	0.3036	0.03409

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.60	680.7	0.4400	0.3720	0.03407	0.09240	0.2338	0.4018
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9442	0.1928	0.3686	0.007172	0.7236	0.5980	

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2894	0	0.3422	0.01084	0.01997	0.3034	0.03412

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.80	684.3	0.4402	0.3702	0.03402	0.09312	0.2337	0.4035
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9425	0.1912	0.3685	0.007253	0.7219	0.5934	

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2894	0	0.3423	0.01079	0.02012	0.3033	0.03415

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
10.00	688.0	0.4403	0.3684	0.03397	0.09384	0.2336	0.4051
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9408	0.1897	0.3685	0.007332	0.7202	0.5888	

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2894	0	0.3423	0.01074	0.02027	0.3031	0.03419

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
10.20	691.6	0.4405	0.3666	0.03392	0.09455	0.2335	0.4068
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9390	0.1883	0.3685	0.007411	0.7184	0.5842	

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2894	0	0.3423	0.01069	0.02041	0.3030	0.03422

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
10.40	695.3	0.4406	0.3648	0.03387	0.09526	0.2334	0.4084
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9373	0.1868	0.3684	0.007488	0.7166	0.5794	

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2894	0	0.3423	0.01064	0.02056	0.3028	0.03425

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
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10.60 698.9 0.4408 0.3630 0.03382 0.09597 0.2333 0.4101
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9355 0.1855 0.3684 0.007565 0.7148 0.5746

mode bi mu pl ilm sill q H2O
0.2894 0 0.3424 0.01059 0.02070 0.3027 0.03429

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.80 702.5 0.4409 0.3613 0.03377 0.09667 0.2332 0.4117
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9337 0.1841 0.3684 0.007640 0.7130 0.5697

mode bi mu pl ilm sill q H2O
0.2894 0 0.3424 0.01054 0.02084 0.3025 0.03432

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.00 706.1 0.4411 0.3595 0.03372 0.09737 0.2331 0.4133
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9319 0.1828 0.3684 0.007714 0.7112 0.5647

mode bi mu pl ilm sill q H2O
0.2894 0 0.3424 0.01049 0.02098 0.3024 0.03435

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.20 709.7 0.4412 0.3578 0.03366 0.09806 0.2330 0.4149
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9300 0.1815 0.3683 0.007787 0.7094 0.5597

mode bi mu pl ilm sill q H2O
0.2894 0 0.3424 0.01045 0.02112 0.3022 0.03438

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.40 713.3 0.4414 0.3561 0.03361 0.09875 0.2328 0.4164
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9282 0.1803 0.3683 0.007859 0.7076 0.5546

mode bi mu pl ilm sill q H2O
0.2894 0 0.3425 0.01040 0.02126 0.3021 0.03442

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.60 716.8 0.4415 0.3544 0.03355 0.09944 0.2327 0.4180
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9263 0.1790 0.3683 0.007930 0.7057 0.5493

mode bi mu pl ilm sill q H2O
0.2893 0 0.3425 0.01035 0.02140 0.3020 0.03445

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.80 720.4 0.4417 0.3527 0.03350 0.1001 0.2326 0.4195
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9244 0.1778 0.3683 0.008000 0.7039 0.5440

mode bi mu pl ilm sill q H2O
0.2893 0 0.3425 0.01030 0.02154 0.3018 0.03448

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.00 723.9 0.4418 0.3510 0.03344 0.1008 0.2325 0.4210
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9225 0.1767 0.3682 0.008069 0.7020 0.5386

mode bi mu pl ilm sill q H2O
0.2893 0 0.3425 0.01026 0.02167 0.3017 0.03451

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.20 727.5 0.4420 0.3493 0.03338 0.1015 0.2324 0.4225
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9206 0.1756 0.3682 0.008137 0.7001 0.5332

mode bi mu pl ilm sill q H2O
0.2893 0 0.3426 0.01021 0.02180 0.3016 0.03454

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.40 731.0 0.4421 0.3477 0.03333 0.1021 0.2323 0.4240
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9186 0.1745 0.3682 0.008203 0.6982 0.5276

mode bi mu pl ilm sill q H2O
0.2893 0 0.3426 0.01016 0.02194 0.3014 0.03457

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.60 734.5 0.4423 0.3461 0.03327 0.1028 0.2321 0.4255
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9167 0.1734 0.3682 0.008269 0.6963 0.5219

mode bi mu pl ilm sill q H2O
0.2893 0 0.3426 0.01012 0.02207 0.3013 0.03460

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.80 738.0 0.4424 0.3444 0.03321 0.1035 0.2320 0.4270
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9147 0.1724 0.3681 0.008334 0.6944 0.5161

mode bi mu pl ilm sill q H2O
0.2893 0 0.3426 0.01007 0.02220 0.3012 0.03463

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
13.00 741.5 0.4426 0.3428 0.03315 0.1041 0.2319 0.4284
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9127 0.1713 0.3681 0.008397 0.6924 0.5103

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3426	0.01002	0.02233	0.3010	0.03466	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.20	745.0	0.4427	0.3412	0.03309	0.1048	0.2317	0.4299
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9107	0.1704	0.3681	0.008459	0.6905	0.5043

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3427	0.009978	0.02246	0.3009	0.03469	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.40	748.5	0.4428	0.3397	0.03303	0.1055	0.2316	0.4313
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9087	0.1694	0.3681	0.008521	0.6885	0.4982

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3427	0.009932	0.02258	0.3008	0.03472	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.60	752.0	0.4430	0.3381	0.03297	0.1061	0.2315	0.4327
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9067	0.1685	0.3680	0.008581	0.6865	0.4919

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3427	0.009887	0.02271	0.3006	0.03475	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.80	755.4	0.4431	0.3365	0.03290	0.1067	0.2313	0.4341
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9047	0.1675	0.3680	0.008640	0.6845	0.4856

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3427	0.009843	0.02284	0.3005	0.03478	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.00	758.9	0.4433	0.3350	0.03284	0.1074	0.2312	0.4355
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9026	0.1667	0.3680	0.008699	0.6825	0.4791

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3428	0.009798	0.02296	0.3004	0.03481	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.20	762.3	0.4434	0.3335	0.03278	0.1080	0.2310	0.4369
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9006	0.1658	0.3680	0.008756	0.6805	0.4725

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3428	0.009754	0.02308	0.3003	0.03484	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.40	765.8	0.4435	0.3319	0.03271	0.1087	0.2309	0.4383
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8985	0.1650	0.3680	0.008812	0.6785	0.4658

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2893	0	0.3428	0.009710	0.02321	0.3001	0.03487

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.60	769.2	0.4437	0.3304	0.03265	0.1093	0.2307	0.4396
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8964	0.1642	0.3679	0.008867	0.6764	0.4589

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2893	0	0.3428	0.009667	0.02333	0.3000	0.03490

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.80	772.6	0.4438	0.3289	0.03258	0.1099	0.2306	0.4410
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8943	0.1634	0.3679	0.008921	0.6744	0.4519

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2893	0	0.3428	0.009624	0.02345	0.2999	0.03493

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
15.00	776.0	0.4439	0.3275	0.03252	0.1106	0.2304	0.4423
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8922	0.1626	0.3679	0.008975	0.6723	0.4447

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2893	0	0.3428	0.009581	0.02357	0.2998	0.03496

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
15.20	779.4	0.4441	0.3260	0.03245	0.1112	0.2303	0.4436
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8901	0.1618	0.3679	0.009027	0.6702	0.4373

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2893	0	0.3429	0.009538	0.02368	0.2997	0.03498

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
15.40	782.8	0.4442	0.3245	0.03239	0.1118	0.2301	0.4449
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8880	0.1611	0.3679	0.009078	0.6681	0.4297

mode	bi	mu	pl	ilm	sill	q	H2O
	0.2893	0	0.3429	0.009495	0.02380	0.2995	0.03501

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
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15.60 786.2 0.4443 0.3231 0.03232 0.1124 0.2299 0.4462
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8858 0.1604 0.3678 0.009128 0.6660 0.4220

mode bi mu pl ilm sill q H2O
0.2893 0 0.3429 0.009453 0.02392 0.2994 0.03504

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.80 789.6 0.4445 0.3217 0.03225 0.1130 0.2298 0.4475
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8837 0.1597 0.3678 0.009177 0.6638 0.4141

mode bi mu pl ilm sill q H2O
0.2893 0 0.3429 0.009411 0.02403 0.2993 0.03507

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.00 793.0 0.4446 0.3202 0.03219 0.1137 0.2296 0.4488
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8815 0.1591 0.3678 0.009226 0.6617 0.4060

mode bi mu pl ilm sill q H2O
0.2893 0 0.3429 0.009369 0.02415 0.2992 0.03509

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.20 796.4 0.4447 0.3188 0.03212 0.1143 0.2294 0.4501
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8794 0.1584 0.3678 0.009273 0.6595 0.3976

mode bi mu pl ilm sill q H2O
0.2893 0 0.3430 0.009328 0.02426 0.2991 0.03512

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.40 799.8 0.4449 0.3174 0.03205 0.1149 0.2293 0.4513
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8772 0.1578 0.3678 0.009319 0.6574 0.3890

mode bi mu pl ilm sill q H2O
0.2893 0 0.3430 0.009286 0.02437 0.2990 0.03515

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.60 803.1 0.4450 0.3160 0.03198 0.1155 0.2291 0.4526
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8750 0.1572 0.3678 0.009365 0.6552 0.3801

mode bi mu pl ilm sill q H2O
0.2893 0 0.3430 0.009245 0.02448 0.2989 0.03517

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.80 806.5 0.4451 0.3147 0.03191 0.1161 0.2289 0.4538
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.8728 0.1566 0.3677 0.009409 0.6530 0.3710

mode bi mu pl ilm sill q H2O
0.2893 0 0.3430 0.009204 0.02459 0.2987 0.03520

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.00 809.9 0.4453 0.3133 0.03185 0.1167 0.2287 0.4550
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8706 0.1561 0.3677 0.009453 0.6507 0.3616

mode bi mu pl ilm sill q H2O
0.2893 0 0.3430 0.009164 0.02470 0.2986 0.03523

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.20 813.2 0.4454 0.3120 0.03178 0.1173 0.2286 0.4562
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8684 0.1555 0.3677 0.009495 0.6485 0.3519

mode bi mu pl ilm sill q H2O
0.2893 0 0.3430 0.009124 0.02481 0.2985 0.03525

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.40 816.6 0.4455 0.3106 0.03171 0.1179 0.2284 0.4575
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8662 0.1550 0.3677 0.009537 0.6463 0.3418

mode bi mu pl ilm sill q H2O
0.2893 0 0.3430 0.009083 0.02492 0.2984 0.03528

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.60 819.9 0.4456 0.3093 0.03164 0.1184 0.2282 0.4587
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8640 0.1545 0.3677 0.009578 0.6440 0.3314

mode bi mu pl ilm sill q H2O
0.2893 0 0.3431 0.009043 0.02502 0.2983 0.03530

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.80 823.2 0.4458 0.3080 0.03157 0.1190 0.2280 0.4598
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8617 0.1540 0.3677 0.009618 0.6417 0.3205

mode bi mu pl ilm sill q H2O
0.2893 0 0.3431 0.009004 0.02513 0.2982 0.03533

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
18.00 826.6 0.4459 0.3067 0.03150 0.1196 0.2278 0.4610
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8595 0.1535 0.3676 0.009657 0.6394 0.3092

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3431	0.008964	0.02523	0.2981	0.03535	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.20	829.9	0.4460	0.3054	0.03143	0.1202	0.2276	0.4622
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8573	0.1531	0.3676	0.009695	0.6371	0.2974

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3431	0.008925	0.02534	0.2980	0.03538	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.40	833.2	0.4461	0.3041	0.03136	0.1208	0.2274	0.4634
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8550	0.1526	0.3676	0.009732	0.6348	0.2850

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3431	0.008886	0.02544	0.2979	0.03540	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.60	836.6	0.4463	0.3028	0.03128	0.1213	0.2272	0.4645
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8528	0.1522	0.3676	0.009769	0.6324	0.2719

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3431	0.008847	0.02554	0.2978	0.03543	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.80	839.9	0.4464	0.3015	0.03121	0.1219	0.2270	0.4657
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8505	0.1518	0.3676	0.009804	0.6301	0.2581

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3431	0.008809	0.02564	0.2977	0.03545	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.00	843.2	0.4465	0.3003	0.03114	0.1225	0.2268	0.4668
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8483	0.1514	0.3676	0.009839	0.6277	0.2435

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3431	0.008770	0.02574	0.2976	0.03548	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.20	846.5	0.4466	0.2990	0.03107	0.1230	0.2266	0.4679
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.8460	0.1511	0.3676	0.009873	0.6253	0.2278

mode	bi	mu	pl	ilm	sill	q	H2O
0.2893	0	0.3432	0.008732	0.02584	0.2975	0.03550	

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
19.40 849.8 0.4467 0.2978 0.03100 0.1236 0.2264 0.4690
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8437 0.1507 0.3676 0.009906 0.6229 0.2108

mode bi mu pl ilm sill q H2O
0.2893 0 0.3432 0.008694 0.02594 0.2974 0.03552

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
19.60 853.1 0.4469 0.2966 0.03093 0.1242 0.2262 0.4702
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8415 0.1504 0.3675 0.009939 0.6205 0.1922

mode bi mu pl ilm sill q H2O
0.2893 0 0.3432 0.008657 0.02604 0.2973 0.03555

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
19.80 856.4 0.4470 0.2954 0.03085 0.1247 0.2260 0.4713
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8392 0.1500 0.3675 0.009971 0.6181 0.1714

mode bi mu pl ilm sill q H2O
0.2893 0 0.3432 0.008619 0.02614 0.2972 0.03557

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
20.00 859.7 0.4471 0.2942 0.03078 0.1253 0.2258 0.4723
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8369 0.1497 0.3675 0.01000 0.6156 0.1477

mode bi mu pl ilm sill q H2O
0.2893 0 0.3432 0.008582 0.02623 0.2971 0.03560

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.00 715.5 0.1607 0.2282 0.7911 0.006379 0.003065 0.7114
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5835 0.4398 0.3651 0.03523 0.09158 0.2298
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3681 0.008537 0.7291 0.5877 0 0.2888

mode liq bi pl ilm sill q H2O

0 0.2888 0.3427 0.01087 0.02055 0.3028 0.03419

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.20 713.6 0.1564 0.2264 0.7938 0.006375 0.002855 0.7114
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5909 0.4397 0.3659 0.03521 0.09141 0.2298
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3681 0.008455 0.7294 0.5892 0 0.2889

mode liq bi pl ilm sill q H2O
0 0.2889 0.3427 0.01088 0.02049 0.3029 0.03418

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.40 711.9 0.1523 0.2247 0.7962 0.006380 0.002669 0.7114
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5980 0.4397 0.3666 0.03519 0.09128 0.2299
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3681 0.008380 0.7297 0.5905 0 0.2889

mode liq bi pl ilm sill q H2O
0 0.2889 0.3426 0.01089 0.02043 0.3030 0.03417

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.60 710.2 0.1484 0.2230 0.7985 0.006392 0.002504 0.7115
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6047 0.4397 0.3672 0.03517 0.09117 0.2300
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3681 0.008312 0.7298 0.5917 0 0.2889

mode liq bi pl ilm sill q H2O
0 0.2889 0.3426 0.01090 0.02038 0.3030 0.03416

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.80 708.6 0.1446 0.2214 0.8006 0.006413 0.002357 0.7116
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6112 0.4397 0.3677 0.03515 0.09109 0.2301
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3682 0.008251 0.7299 0.5927 0 0.2889

mode liq bi pl ilm sill q H2O
0 0.2889 0.3426 0.01091 0.02034 0.3031 0.03415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 707.1 0.1409 0.2198 0.8026 0.006440 0.002224 0.7117
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6173 0.4397 0.3682 0.03512 0.09104 0.2302
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3682 0.008194 0.7299 0.5935 0 0.2890

mode liq bi pl ilm sill q H2O

0 0.2890 0.3426 0.01091 0.02030 0.3031 0.03415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 705.7 0.1374 0.2183 0.8044 0.006475 0.002105 0.7119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6233 0.4397 0.3685 0.03509 0.09101 0.2303
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3682 0.008143 0.7299 0.5942 0 0.2890

mode liq bi pl ilm sill q H2O
0 0.2890 0.3426 0.01091 0.02027 0.3031 0.03414

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 704.4 0.1339 0.2169 0.8061 0.006515 0.001996 0.7121
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6290 0.4397 0.3688 0.03506 0.09100 0.2305
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3682 0.008096 0.7298 0.5949 0 0.2890

mode liq bi pl ilm sill q H2O
0 0.2890 0.3425 0.01091 0.02024 0.3032 0.03414

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 703.2 0.1306 0.2155 0.8078 0.006564 0.001902 0.7123
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6344 0.4397 0.3691 0.03503 0.09101 0.2306
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3682 0.008051 0.7297 0.5953 0 0.2890

mode liq bi pl ilm sill q H2O
0 0.2890 0.3425 0.01091 0.02022 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 702.1 0.1272 0.2142 0.8095 0.006621 0.001819 0.7126
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6397 0.4397 0.3693 0.03499 0.09103 0.2307
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3683 0.008006 0.7295 0.5956 0 0.2890

mode liq bi pl ilm sill q H2O
0 0.2890 0.3425 0.01091 0.02020 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 701.1 0.1239 0.2130 0.8112 0.006685 0.001744 0.7129
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6448 0.4397 0.3695 0.03496 0.09108 0.2308
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3683 0.007963 0.7293 0.5959 0 0.2891

mode liq bi pl ilm sill q H2O

0 0.2891 0.3425 0.01091 0.02019 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 700.2 0.1207 0.2119 0.8129 0.006755 0.001677 0.7133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6497 0.4397 0.3697 0.03492 0.09113 0.2309
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3683 0.007921 0.7291 0.5960 0 0.2891

mode liq bi pl ilm sill q H2O
0 0.2891 0.3425 0.01091 0.02017 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 699.3 0.1175 0.2107 0.8145 0.006832 0.001616 0.7137
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6545 0.4397 0.3698 0.03488 0.09120 0.2311
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3683 0.007881 0.7288 0.5960 0 0.2891

mode liq bi pl ilm sill q H2O
0 0.2891 0.3425 0.01090 0.02016 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 698.5 0.1144 0.2096 0.8161 0.006915 0.001560 0.7140
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6591 0.4397 0.3699 0.03484 0.09128 0.2312
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3683 0.007843 0.7285 0.5960 0 0.2891

mode liq bi pl ilm sill q H2O
0 0.2891 0.3425 0.01090 0.02016 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 697.7 0.1114 0.2086 0.8175 0.007003 0.001509 0.7145
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6636 0.4398 0.3699 0.03479 0.09138 0.2313
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3683 0.007807 0.7281 0.5959 0 0.2891

mode liq bi pl ilm sill q H2O
0 0.2891 0.3424 0.01089 0.02015 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 696.9 0.1085 0.2075 0.8189 0.007098 0.001461 0.7149
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6679 0.4398 0.3700 0.03475 0.09148 0.2314
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3683 0.007771 0.7278 0.5957 0 0.2892

mode liq bi pl ilm sill q H2O

0 0.2892 0.3424 0.01089 0.02015 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 696.2 0.1057 0.2065 0.8203 0.007198 0.001417 0.7153
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6721 0.4398 0.3700 0.03470 0.09159 0.2315
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3684 0.007737 0.7274 0.5955 0 0.2892

mode liq bi pl ilm sill q H2O
0 0.2892 0.3424 0.01088 0.02015 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 695.6 0.1030 0.2055 0.8216 0.007304 0.001375 0.7158
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6761 0.4398 0.3699 0.03465 0.09172 0.2317
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3684 0.007705 0.7270 0.5952 0 0.2892

mode liq bi pl ilm sill q H2O
0 0.2892 0.3424 0.01087 0.02015 0.3032 0.03413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 694.9 0.1003 0.2045 0.8228 0.007416 0.001337 0.7163
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6801 0.4399 0.3699 0.03461 0.09185 0.2318
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3684 0.007673 0.7266 0.5949 0 0.2892

mode liq bi pl ilm sill q H2O
0 0.2892 0.3424 0.01087 0.02015 0.3032 0.03414

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 694.3 0.09767 0.2036 0.8239 0.007534 0.001300 0.7167
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6839 0.4399 0.3698 0.03456 0.09199 0.2319
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3684 0.007642 0.7261 0.5946 0 0.2892

mode liq bi pl ilm sill q H2O
0 0.2892 0.3424 0.01086 0.02016 0.3032 0.03414

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 693.7 0.09513 0.2026 0.8250 0.007657 0.001266 0.7172
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6876 0.4399 0.3698 0.03451 0.09213 0.2321
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3684 0.007612 0.7256 0.5942 0 0.2892

mode liq bi pl ilm sill q H2O

0 0.2892 0.3424 0.01085 0.02016 0.3032 0.03414

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 693.1 0.09266 0.2017 0.8260 0.007786 0.001234 0.7177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6912 0.4400 0.3697 0.03446 0.09228 0.2322
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3684 0.007583 0.7251 0.5937 0 0.2893

mode liq bi pl ilm sill q H2O
0 0.2893 0.3424 0.01084 0.02017 0.3032 0.03415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 692.6 0.09026 0.2007 0.8270 0.007921 0.001203 0.7182
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6947 0.4400 0.3695 0.03441 0.09244 0.2323
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3684 0.007554 0.7246 0.5932 0 0.2893

mode liq bi pl ilm sill q H2O
0 0.2893 0.3424 0.01083 0.02018 0.3032 0.03415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 692.0 0.08792 0.1998 0.8279 0.008062 0.001174 0.7187
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6982 0.4400 0.3694 0.03436 0.09260 0.2325
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3684 0.007526 0.7241 0.5927 0 0.2893

mode liq bi pl ilm sill q H2O
0 0.2893 0.3423 0.01082 0.02019 0.3032 0.03415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 691.5 0.08564 0.1988 0.8287 0.008208 0.001146 0.7192
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7015 0.4401 0.3693 0.03430 0.09277 0.2326
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3684 0.007499 0.7236 0.5922 0 0.2893

mode liq bi pl ilm sill q H2O
0 0.2893 0.3423 0.01081 0.02020 0.3032 0.03416

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 690.9 0.08343 0.1979 0.8295 0.008361 0.001120 0.7198
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7048 0.4401 0.3691 0.03425 0.09295 0.2328
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007472 0.7230 0.5916 0 0.2893

mode liq bi pl ilm sill q H2O

0 0.2893 0.3423 0.01080 0.02021 0.3032 0.03416

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 690.4 0.08127 0.1970 0.8302 0.008519 0.001094 0.7203
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7080 0.4402 0.3690 0.03419 0.09313 0.2329
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007445 0.7225 0.5911 0 0.2893

mode liq bi pl ilm sill q H2O
0 0.2893 0.3423 0.01079 0.02022 0.3032 0.03417

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 689.9 0.07917 0.1960 0.8309 0.008684 0.001070 0.7208
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7111 0.4402 0.3688 0.03414 0.09331 0.2331
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007418 0.7219 0.5905 0 0.2894

mode liq bi pl ilm sill q H2O
0 0.2894 0.3423 0.01078 0.02024 0.3031 0.03417

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 689.3 0.07712 0.1951 0.8315 0.008855 0.001046 0.7213
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7141 0.4402 0.3686 0.03408 0.09349 0.2332
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007392 0.7213 0.5898 0 0.2894

mode liq bi pl ilm sill q H2O
0 0.2894 0.3423 0.01076 0.02025 0.3031 0.03418

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 688.8 0.07512 0.1941 0.8320 0.009032 0.001023 0.7218
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7171 0.4403 0.3685 0.03403 0.09368 0.2334
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007366 0.7207 0.5892 0 0.2894

mode liq bi pl ilm sill q H2O
0 0.2894 0.3423 0.01075 0.02026 0.3031 0.03418

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 688.3 0.07317 0.1932 0.8325 0.009216 0.001001 0.7224
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7200 0.4403 0.3683 0.03397 0.09388 0.2336
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007340 0.7201 0.5886 0 0.2894

mode liq bi pl ilm sill q H2O

0 0.2894 0.3423 0.01074 0.02028 0.3031 0.03419

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 687.8 0.07127 0.1923 0.8329 0.0094060.0009795 0.7229
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7228 0.4404 0.3681 0.03391 0.09407 0.2337
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007314 0.7195 0.5879 0 0.2894

mode liq bi pl ilm sill q H2O
0 0.2894 0.3423 0.01073 0.02029 0.3031 0.03419

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 687.2 0.06942 0.1913 0.8332 0.0096030.0009584 0.7234
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7256 0.4404 0.3679 0.03386 0.09427 0.2339
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007287 0.7188 0.5872 0 0.2894

mode liq bi pl ilm sill q H2O
0 0.2894 0.3423 0.01072 0.02031 0.3031 0.03420

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 686.7 0.06762 0.1903 0.8335 0.0098070.0009378 0.7239
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7283 0.4405 0.3677 0.03380 0.09447 0.2341
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007261 0.7182 0.5865 0 0.2895

mode liq bi pl ilm sill q H2O
0 0.2895 0.3423 0.01070 0.02032 0.3030 0.03421

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 686.1 0.06586 0.1894 0.8338 0.010020.0009176 0.7244
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7310 0.4405 0.3675 0.03374 0.09467 0.2342
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3685 0.007235 0.7175 0.5858 0 0.2895

mode liq bi pl ilm sill q H2O
0 0.2895 0.3422 0.01069 0.02034 0.3030 0.03421

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 685.5 0.06414 0.1884 0.8339 0.010230.0008977 0.7250
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7337 0.4406 0.3673 0.03368 0.09487 0.2344
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3686 0.007208 0.7169 0.5851 0 0.2895

mode liq bi pl ilm sill q H2O

0 0.2895 0.3422 0.01068 0.02036 0.3030 0.03422

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 684.9 0.06246 0.1874 0.8341 0.010460.0008782 0.7255
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7362 0.4406 0.3671 0.03362 0.09507 0.2346
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3686 0.007181 0.7162 0.5844 0 0.2895

mode liq bi pl ilm sill q H2O
0 0.2895 0.3422 0.01067 0.02037 0.3030 0.03422

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 684.3 0.06082 0.1864 0.8341 0.010690.0008589 0.7260
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7388 0.4407 0.3669 0.03356 0.09528 0.2348
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3686 0.007153 0.7156 0.5837 0 0.2895

mode liq bi pl ilm sill q H2O
0 0.2895 0.3422 0.01065 0.02039 0.3030 0.03423

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 683.7 0.05922 0.1854 0.8341 0.010930.0008398 0.7265
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7413 0.4407 0.3667 0.03349 0.09548 0.2350
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3686 0.007126 0.7149 0.5831 0 0.2895

mode liq bi pl ilm sill q H2O
0 0.2895 0.3422 0.01064 0.02040 0.3030 0.03423

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 683.1 0.05766 0.1844 0.8340 0.011180.0008208 0.7270
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7438 0.4407 0.3665 0.03343 0.09569 0.2352
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3686 0.007097 0.7142 0.5824 0 0.2896

mode liq bi pl ilm sill q H2O
0 0.2896 0.3422 0.01063 0.02042 0.3029 0.03424

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 682.4 0.05613 0.1834 0.8338 0.011430.0008020 0.7274
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7462 0.4408 0.3663 0.03337 0.09589 0.2354
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3686 0.007068 0.7135 0.5817 0 0.2896

mode liq bi pl ilm sill q H2O

0 0.2896 0.3422 0.01061 0.02043 0.3029 0.03425

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 681.7 0.05464 0.1823 0.8336 0.011690.0007832 0.7279
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7486 0.4408 0.3661 0.03330 0.09610 0.2356
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3686 0.007039 0.7129 0.5810 0 0.2896

mode liq bi pl ilm sill q H2O
0 0.2896 0.3422 0.01060 0.02045 0.3029 0.03425

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 681.0 0.05318 0.1813 0.8333 0.011970.0007644 0.7284
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7510 0.4409 0.3659 0.03324 0.09630 0.2358
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3686 0.007009 0.7122 0.5803 0 0.2896

mode liq bi pl ilm sill q H2O
0 0.2896 0.3422 0.01059 0.02046 0.3029 0.03426

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 680.2 0.05175 0.1802 0.8329 0.012240.0007456 0.7288
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7533 0.4409 0.3658 0.03317 0.09650 0.2360
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3686 0.006978 0.7115 0.5797 0 0.2896

mode liq bi pl ilm sill q H2O
0 0.2896 0.3422 0.01058 0.02048 0.3029 0.03426

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 679.4 0.05035 0.1791 0.8325 0.012530.0007268 0.7293
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7557 0.4410 0.3656 0.03311 0.09670 0.2362
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3687 0.006946 0.7108 0.5791 0 0.2897

mode liq bi pl ilm sill q H2O
0 0.2897 0.3421 0.01056 0.02049 0.3029 0.03427

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 678.6 0.04898 0.1780 0.8320 0.012830.0007079 0.7297
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7580 0.4410 0.3655 0.03304 0.09690 0.2364
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3687 0.006913 0.7101 0.5785 0 0.2897

mode liq bi pl ilm sill q H2O

0 0.2897 0.3421 0.01055 0.02050 0.3029 0.03427

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 677.7 0.04764 0.1768 0.8313 0.013130.0006889 0.7301
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7602 0.4411 0.3653 0.03298 0.09709 0.2366
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3687 0.006879 0.7094 0.5779 0 0.2897

mode liq bi pl ilm sill q H2O
0 0.2897 0.3421 0.01054 0.02051 0.3028 0.03428

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 676.8 0.04632 0.1756 0.8306 0.013440.0006697 0.7305
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7625 0.4411 0.3652 0.03291 0.09728 0.2368
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3687 0.006844 0.7088 0.5773 0 0.2897

mode liq bi pl ilm sill q H2O
0 0.2897 0.3421 0.01053 0.02052 0.3028 0.03428

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 675.9 0.04503 0.1744 0.8299 0.013760.0006503 0.7309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7648 0.4412 0.3651 0.03284 0.09747 0.2371
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3687 0.006808 0.7081 0.5768 0 0.2897

mode liq bi pl ilm sill q H2O
0 0.2897 0.3421 0.01052 0.02053 0.3028 0.03429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 674.8 0.04377 0.1732 0.8290 0.014090.0006307 0.7313
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7670 0.4412 0.3650 0.03277 0.09765 0.2373
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3687 0.006770 0.7074 0.5764 0 0.2898

mode liq bi pl ilm sill q H2O
0 0.2898 0.3421 0.01051 0.02054 0.3028 0.03429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 673.8 0.04252 0.1720 0.8280 0.014430.0006109 0.7316
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7693 0.4412 0.3649 0.03270 0.09783 0.2375
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3687 0.006731 0.7068 0.5759 0 0.2898

mode liq bi pl ilm sill q H2O

0 0.2898 0.3421 0.01050 0.02054 0.3028 0.03429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 672.6 0.04130 0.1707 0.8269 0.014770.0005908 0.7319
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7715 0.4413 0.3649 0.03263 0.09800 0.2378
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3687 0.006691 0.7061 0.5756 0 0.2898

mode liq bi pl ilm sill q H2O
0 0.2898 0.3421 0.01049 0.02055 0.3028 0.03430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 671.4 0.04010 0.1694 0.8256 0.015130.0005703 0.7322
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7738 0.4413 0.3648 0.03256 0.09816 0.2380
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3688 0.006648 0.7055 0.5752 0 0.2898

mode liq bi pl ilm sill q H2O
0 0.2898 0.3420 0.01048 0.02055 0.3028 0.03430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 670.1 0.03892 0.1680 0.8243 0.015490.0005495 0.7325
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7760 0.4414 0.3648 0.03248 0.09832 0.2383
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3688 0.006604 0.7049 0.5750 0 0.2898

mode liq bi pl ilm sill q H2O
0 0.2898 0.3420 0.01047 0.02055 0.3028 0.03430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 668.7 0.03776 0.1666 0.8228 0.015860.0005283 0.7327
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7783 0.4414 0.3649 0.03241 0.09847 0.2385
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3688 0.006557 0.7043 0.5748 0 0.2899

mode liq bi pl ilm sill q H2O
0 0.2899 0.3420 0.01046 0.02055 0.3028 0.03430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 667.2 0.03661 0.1651 0.8212 0.016240.0005066 0.7329
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7806 0.4414 0.3650 0.03233 0.09860 0.2388
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3688 0.006508 0.7037 0.5747 0 0.2899

mode liq bi pl ilm sill q H2O

0 0.2899 0.3420 0.01045 0.02054 0.3028 0.03431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 665.6 0.03548 0.1636 0.8194 0.016630.0004845 0.7331
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7830 0.4415 0.3651 0.03226 0.09872 0.2391
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3688 0.006456 0.7031 0.5748 0 0.2899

mode liq bi pl ilm sill q H2O
0 0.2899 0.3420 0.01045 0.02053 0.3028 0.03431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 663.9 0.03436 0.1621 0.8174 0.017020.0004618 0.7332
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7853 0.4415 0.3652 0.03218 0.09883 0.2394
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3689 0.006401 0.7026 0.5749 0 0.2899

mode liq bi pl ilm sill q H2O
0 0.2899 0.3420 0.01044 0.02052 0.3028 0.03431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 662.0 0.03325 0.1604 0.8152 0.017420.0004386 0.7333
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7877 0.4415 0.3654 0.03210 0.09892 0.2397
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3689 0.006342 0.7021 0.5751 0 0.2900

mode liq bi pl ilm sill q H2O
0 0.2900 0.3419 0.01044 0.02050 0.3028 0.03431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 659.9 0.03215 0.1587 0.8128 0.017830.0004147 0.7332
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7902 0.4415 0.3657 0.03201 0.09899 0.2400
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3689 0.006280 0.7017 0.5756 0 0.2900

mode liq bi pl ilm sill q H2O
0 0.2900 0.3419 0.01044 0.02048 0.3029 0.03430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 657.7 0.03105 0.1569 0.8102 0.018240.0003902 0.7332
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7928 0.4415 0.3661 0.03193 0.09903 0.2404
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3689 0.006212 0.7013 0.5762 0 0.2900

mode liq bi pl ilm sill q H2O

0 0.2900 0.3419 0.01044 0.02045 0.3029 0.03430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 655.2 0.02995 0.1550 0.8072 0.018650.0003648 0.7330
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7954 0.4415 0.3665 0.03184 0.09905 0.2407
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3690 0.006139 0.7010 0.5770 0 0.2901

mode liq bi pl ilm sill q H2O
0 0.2901 0.3419 0.01044 0.02041 0.3029 0.03429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 652.4 0.02885 0.1530 0.8039 0.019060.0003386 0.7327
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7982 0.4415 0.3671 0.03175 0.09903 0.2411
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3690 0.006059 0.7007 0.5781 0 0.2901

mode liq bi pl ilm sill q H2O
0 0.2901 0.3418 0.01045 0.02037 0.3030 0.03429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 649.2 0.02774 0.1508 0.8002 0.019470.0003112 0.7323
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8012 0.4415 0.3678 0.03166 0.09896 0.2415
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3690 0.005970 0.7006 0.5795 0 0.2901

mode liq bi pl ilm sill q H2O
0 0.2901 0.3418 0.01045 0.02031 0.3030 0.03428

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 645.6 0.02660 0.1484 0.7959 0.019870.0002826 0.7316
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8044 0.4415 0.3687 0.03156 0.09882 0.2419
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3691 0.005870 0.7006 0.5814 0 0.2902

mode liq bi pl ilm sill q H2O
0 0.2902 0.3418 0.01047 0.02024 0.3031 0.03426

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 641.4 0.02543 0.1458 0.7910 0.020250.0002523 0.7307
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8079 0.4415 0.3699 0.03146 0.09860 0.2424
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3691 0.005755 0.7008 0.5838 0 0.2902

mode liq bi pl ilm sill q H2O

0 0.2902 0.3417 0.01049 0.02015 0.3032 0.03425

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 636.2 0.02420 0.1427 0.7851 0.020600.0002197 0.7295
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8119 0.4414 0.3714 0.03134 0.09825 0.2430
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3691 0.005618 0.7013 0.5872 0 0.2902

mode liq bi pl ilm sill q H2O
0 0.2902 0.3417 0.01052 0.02002 0.3033 0.03422

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 629.3 0.02283 0.1391 0.7776 0.020870.0001831 0.7275
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8167 0.4413 0.3737 0.03120 0.09767 0.2436
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3692 0.005442 0.7023 0.5920 0 0.2903

mode liq bi pl ilm sill q H2O
0 0.2903 0.3416 0.01057 0.01984 0.3035 0.03419

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 618.4 0.02111 0.1337 0.7665 0.020950.0001369 0.7237
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8238 0.4410 0.3776 0.03102 0.09650 0.2445
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.3693 0.005169 0.7046 0.6004 0 0.2904

mode liq bi pl ilm sill q H2O
0 0.2904 0.3415 0.01066 0.01953 0.3038 0.03412

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : liq, bi, g, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.00 715.6 0.1607 0.2281 0.7917 0.006386 0.003090 0.7114
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5835 0.4397 0.3648 0.03522 0.09153 0.2300
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7396 0.01462 0.002308 0.3682 0.008505 0.7292
Q(ilm)
0.5878

mode liq bi g pl ilm sill q H2O
0.0005384 0.2888 0 0.3425 0.01087 0.02057 0.3027 0.03406

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.20 714.0 0.1564 0.2262 0.7961 0.006401 0.002952 0.7115
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5909 0.4396 0.3645 0.03517 0.09121 0.2306
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7409 0.01544 0.002305 0.3689 0.008324 0.7298
Q(ilm)
0.5896

mode liq bi g pl ilm sill q H2O
0.002263 0.2887 0 0.3419 0.01091 0.02056 0.3021 0.03360

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.40 712.5 0.1524 0.2243 0.8001 0.006423 0.002821 0.7116
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5980 0.4395 0.3643 0.03512 0.09094 0.2312
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7422 0.01630 0.002306 0.3695 0.008166 0.7303
Q(ilm)
0.5912

mode liq bi g pl ilm sill q H2O
0.003791 0.2886 0 0.3413 0.01093 0.02056 0.3017 0.03318

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.60 711.1 0.1484 0.2225 0.8037 0.006451 0.002696 0.7118
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6048 0.4395 0.3641 0.03508 0.09072 0.2317
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7435 0.01722 0.002309 0.3700 0.008029 0.7307
Q(ilm)
0.5925

mode liq bi g pl ilm sill q H2O
0.005130 0.2885 0 0.3408 0.01096 0.02056 0.3013 0.03279

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.80 709.7 0.1446 0.2208 0.8068 0.006484 0.002578 0.7119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6112 0.4394 0.3640 0.03503 0.09055 0.2322
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7448 0.01819 0.002315 0.3704 0.007911 0.7310
Q(ilm)
0.5937

mode liq bi g pl ilm sill q H2O
0.006288 0.2884 0 0.3403 0.01097 0.02056 0.3010 0.03244

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

5.00 708.4 0.1410 0.2192 0.8097 0.006523 0.002466 0.7121
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6174 0.4394 0.3639 0.03499 0.09042 0.2326
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7461 0.01922 0.002323 0.3708 0.007809 0.7311
Q(ilm)

0.5947

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.007271	0.2884		0	0.3399	0.01099	0.02057	0.3007 0.03212

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 707.1 0.1374 0.2177 0.8122 0.006566 0.002358 0.7123
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6233 0.4393 0.3638 0.03495 0.09032 0.2330
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7474 0.02031 0.002335 0.3711 0.007721 0.7312
Q(ilm)

0.5956

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.008085	0.2883		0	0.3396	0.01100	0.02057	0.3006 0.03185

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 705.9 0.1340 0.2162 0.8144 0.006615 0.002256 0.7126
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6290 0.4393 0.3637 0.03491 0.09026 0.2333
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7488 0.02148 0.002349 0.3714 0.007646 0.7313
Q(ilm)

0.5963

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.008739	0.2883		0	0.3393	0.01101	0.02057	0.3004 0.03161

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 704.7 0.1307 0.2149 0.8164 0.006668 0.002159 0.7128
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6344 0.4393 0.3638 0.03488 0.09024 0.2336
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7501 0.02271 0.002367 0.3716 0.007585 0.7312
Q(ilm)

0.5968

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.009189	0.2883		0	0.3391	0.01101	0.02058	0.3003 0.03143

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 703.6 0.1273 0.2136 0.8182 0.006727 0.002069 0.7131
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6397 0.4393 0.3639 0.03484 0.09025 0.2338
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7515 0.02401 0.002389 0.3717 0.007535 0.7311
Q(ilm)

0.5972

mode liq bi g pl ilm sill q H2O
0.009387 0.2883 0 0.3390 0.01101 0.02057 0.3003 0.03133

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 702.6 0.1240 0.2124 0.8198 0.006792 0.001983 0.7134
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6448 0.4393 0.3641 0.03480 0.09030 0.2339
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7528 0.02540 0.002414 0.3717 0.007497 0.7308
Q(ilm)

0.5974

mode liq bi g pl ilm sill q H2O
0.009391 0.2883 0 0.3390 0.01101 0.02056 0.3004 0.03128

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 701.7 0.1208 0.2113 0.8212 0.006860 0.001902 0.7138
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6497 0.4394 0.3643 0.03477 0.09037 0.2339
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7541 0.02688 0.002443 0.3717 0.007468 0.7306
Q(ilm)

0.5975

mode liq bi g pl ilm sill q H2O
0.009222 0.2884 0 0.3391 0.01100 0.02055 0.3005 0.03129

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 700.7 0.1177 0.2102 0.8225 0.006934 0.001823 0.7141
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6544 0.4394 0.3647 0.03473 0.09047 0.2339
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7555 0.02845 0.002477 0.3716 0.007447 0.7303
Q(ilm)

0.5975

mode liq bi g pl ilm sill q H2O
0.008894 0.2884 0 0.3392 0.01100 0.02053 0.3007 0.03135

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 699.8 0.1146 0.2092 0.8236 0.007012 0.001749 0.7145
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6590 0.4394 0.3650 0.03470 0.09059 0.2339
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.7569 0.03012 0.002515 0.3714 0.007435 0.7299

Q(ilm)

0.5974

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.008419	0.2885		0	0.3393	0.01099	0.02051	0.3008 0.03146

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.80	698.9	0.1116	0.2082	0.8245	0.007094	0.001677	0.7149

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.6635	0.4395	0.3654	0.03467	0.09073	0.2338

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.7583	0.03191	0.002557	0.3712	0.007430	0.7294

Q(ilm)

0.5972

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.007807	0.2885		0	0.3395	0.01098	0.02048	0.3011 0.03162

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.00	698.1	0.1087	0.2072	0.8252	0.007181	0.001608	0.7153

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.6678	0.4395	0.3659	0.03464	0.09090	0.2337

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.7598	0.03382	0.002605	0.3709	0.007431	0.7290

Q(ilm)

0.5969

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.007067	0.2886		0	0.3398	0.01096	0.02045	0.3013 0.03183

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.20	697.3	0.1058	0.2062	0.8258	0.007271	0.001541	0.7157

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.6720	0.4396	0.3664	0.03460	0.09108	0.2336

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.7612	0.03586	0.002658	0.3706	0.007440	0.7284

Q(ilm)

0.5966

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.006205	0.2887		0	0.3401	0.01095	0.02042	0.3016 0.03208

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.40	696.4	0.1031	0.2053	0.8262	0.007367	0.001477	0.7161

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.6760	0.4397	0.3669	0.03457	0.09128	0.2334

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.7627	0.03805	0.002718	0.3703	0.007454	0.7279

Q(ilm)

0.5961

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.005229	0.2888	0	0.3404	0.01093	0.02038	0.3018	0.03239

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 695.6 0.1004 0.2044 0.8265 0.007466 0.001414 0.7165
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6800 0.4397 0.3675 0.03454 0.09150 0.2331
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7643 0.04040 0.002786 0.3699 0.007474 0.7273
Q(ilm)

0.5956

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.004145	0.2889	0	0.3408	0.01091	0.02034	0.3021	0.03273

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 694.8 0.09773 0.2035 0.8266 0.007570 0.001354 0.7169
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6838 0.4398 0.3681 0.03451 0.09174 0.2329
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7659 0.04292 0.002861 0.3695 0.007500 0.7266
Q(ilm)

0.5951

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.002959	0.2890	0	0.3413	0.01089	0.02029	0.3025	0.03313

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 694.0 0.09517 0.2025 0.8265 0.007678 0.001296 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6876 0.4399 0.3688 0.03448 0.09199 0.2326
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7675 0.04564 0.002946 0.3690 0.007532 0.7259
Q(ilm)

0.5945

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.001675	0.2891	0	0.3417	0.01087	0.02024	0.3028	0.03356

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 693.2 0.09267 0.2016 0.8263 0.007790 0.001239 0.7177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6912 0.4400 0.3695 0.03445 0.09226 0.2323
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7692 0.04857 0.003041 0.3685 0.007568 0.7252
Q(ilm)

0.5938

mode liq bi g pl ilm sill q H2O
0.0003001 0.2892 0 0.3423 0.01084 0.02018 0.3031 0.03404
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : liq, bi, g, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.00 722.4 0.1658 0.2230 0.7816 0.007505 0.003391 0.6995
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5807 0.4169 0.3557 0.03647 0.09488 0.2349
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7207 0.01557 0.002489 0.4194 0.007442 0.7338
Q(ilm)
0.5911

mode liq bi g pl ilm sill q H2O
0.1431 0.2671 0.01454 0.2953 0.01124 0.01545 0.2533 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.20 720.6 0.1613 0.2213 0.7863 0.007484 0.003232 0.7003
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5883 0.4180 0.3559 0.03636 0.09441 0.2353
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7230 0.01642 0.002482 0.4183 0.007331 0.7340
Q(ilm)
0.5924

mode liq bi g pl ilm sill q H2O
0.1393 0.2682 0.01377 0.2961 0.01125 0.01586 0.2555 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.40 718.9 0.1569 0.2197 0.7905 0.007474 0.003082 0.7010
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5955 0.4190 0.3562 0.03626 0.09400 0.2356
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7252 0.01732 0.002478 0.4173 0.007234 0.7342
Q(ilm)
0.5936

mode liq bi g pl ilm sill q H2O
0.1359 0.2692 0.01310 0.2969 0.01125 0.01622 0.2575 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.60 717.3 0.1528 0.2182 0.7942 0.007473 0.002940 0.7017
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6023 0.4199 0.3564 0.03617 0.09367 0.2359

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7274 0.01828 0.002478 0.4164 0.007150 0.7343
Q(ilm)

0.5947

mode	liq	bi	g	pl	ilm	sill	q	H2O	
	0.1327	0.2700	0.01251	0.2976	0.01125	0.01654	0.2594		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.80 715.8 0.1488 0.2167 0.7976 0.007481 0.002806 0.7023
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6089 0.4206 0.3566 0.03609 0.09339 0.2362
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7294 0.01929 0.002481 0.4155 0.007078 0.7343
Q(ilm)

0.5956

mode	liq	bi	g	pl	ilm	sill	q	H2O	
	0.1297	0.2708	0.01200	0.2983	0.01125	0.01683	0.2611		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 714.3 0.1450 0.2154 0.8006 0.007498 0.002679 0.7029
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6151 0.4213 0.3568 0.03601 0.09317 0.2364
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7313 0.02036 0.002488 0.4147 0.007017 0.7343
Q(ilm)

0.5964

mode	liq	bi	g	pl	ilm	sill	q	H2O	
	0.1270	0.2715	0.01155	0.2989	0.01125	0.01710	0.2627		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 712.9 0.1412 0.2140 0.8033 0.007522 0.002559 0.7035
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6211 0.4219 0.3570 0.03594 0.09299 0.2366
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7332 0.02150 0.002499 0.4139 0.006966 0.7342
Q(ilm)

0.597

mode	liq	bi	g	pl	ilm	sill	q	H2O	
	0.1245	0.2721	0.01115	0.2995	0.01125	0.01733	0.2641		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 711.6 0.1377 0.2127 0.8057 0.007553 0.002445 0.7040
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6269 0.4225 0.3572 0.03587 0.09286 0.2368
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7351 0.02271 0.002513 0.4131 0.006923 0.7341

Q(ilm)

0.5976

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.1221	0.2727	0.01080	0.3001	0.01124	0.01754	0.2655	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.60	710.3	0.1342	0.2115	0.8079	0.007592	0.002336	0.7046
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6324	0.4229	0.3574	0.03581	0.09278	0.2370
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7369	0.02400	0.002530	0.4124	0.006888	0.7340
		Q(ilm)					

0.598

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.1199	0.2732	0.01050	0.3006	0.01124	0.01773	0.2668	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.80	709.1	0.1308	0.2103	0.8098	0.007638	0.002234	0.7051
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6377	0.4234	0.3576	0.03575	0.09273	0.2372
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7386	0.02536	0.002552	0.4117	0.006862	0.7338
		Q(ilm)					

0.5984

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.1179	0.2736	0.01025	0.3011	0.01123	0.01790	0.2680	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	708.0	0.1275	0.2092	0.8115	0.007694	0.002138	0.7056
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6428	0.4237	0.3579	0.03570	0.09273	0.2372
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7403	0.02682	0.002579	0.4110	0.006843	0.7335
		Q(ilm)					

0.5985

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.1159	0.2740	0.01004	0.3016	0.01122	0.01804	0.2692	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	706.9	0.1242	0.2082	0.8130	0.007757	0.002048	0.7061
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6478	0.4240	0.3582	0.03565	0.09277	0.2372
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.7420	0.02836	0.002611	0.4104	0.006831	0.7332
		Q(ilm)					

0.5986

mode	liq	bi	g	pl	ilm	sill	q	H2O	
	0.1141	0.2744	0.009863	0.3020	0.01121	0.01816	0.2703		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.40	706.0	0.1209	0.2072	0.8143	0.007827	0.001963	0.7066	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6525	0.4243	0.3586	0.03561	0.09284	0.2372		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7436	0.03001	0.002647	0.4097	0.006825	0.7328		
	Q(ilm)							
	0.5986							

mode	liq	bi	g	pl	ilm	sill	q	H2O	
	0.1124	0.2747	0.009725	0.3024	0.01120	0.01827	0.2714		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.60	705.0	0.1178	0.2062	0.8155	0.007904	0.001881	0.7071	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6572	0.4245	0.3590	0.03556	0.09294	0.2371		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7452	0.03177	0.002689	0.4091	0.006826	0.7324		
	Q(ilm)							
	0.5985							

mode	liq	bi	g	pl	ilm	sill	q	H2O	
	0.1107	0.2749	0.009619	0.3028	0.01118	0.01836	0.2724		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.80	704.1	0.1147	0.2053	0.8165	0.007987	0.001803	0.7075	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6616	0.4247	0.3595	0.03553	0.09307	0.2370		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7468	0.03366	0.002736	0.4085	0.006831	0.7320		
	Q(ilm)							
	0.5983							

mode	liq	bi	g	pl	ilm	sill	q	H2O	
	0.1092	0.2752	0.009543	0.3032	0.01117	0.01843	0.2733		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
7.00	703.2	0.1117	0.2044	0.8173	0.008076	0.001728	0.7080	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6660	0.4248	0.3599	0.03549	0.09322	0.2369		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.7484	0.03567	0.002790	0.4079	0.006842	0.7315		
	Q(ilm)							
	0.5981							

mode	liq	bi	g	pl	ilm	sill	q	H2O	
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0.1077 0.2754 0.009494 0.3035 0.01115 0.01849 0.2742 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 702.4 0.1088 0.2035 0.8179 0.008172 0.001656 0.7084
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6702 0.4249 0.3604 0.03546 0.09340 0.2368
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7500 0.03783 0.002850 0.4073 0.006857 0.7310
Q(ilm)
0.5977

mode liq bi g pl ilm sill q H2O
0.1063 0.2756 0.009471 0.3039 0.01113 0.01855 0.2751 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 701.5 0.1060 0.2027 0.8183 0.008273 0.001586 0.7089
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6743 0.4250 0.3610 0.03543 0.09361 0.2366
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7516 0.04014 0.002918 0.4067 0.006877 0.7305
Q(ilm)
0.5974

mode liq bi g pl ilm sill q H2O
0.1050 0.2757 0.009474 0.3042 0.01111 0.01859 0.2759 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 700.7 0.1032 0.2018 0.8186 0.008379 0.001519 0.7093
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6782 0.4250 0.3615 0.03540 0.09383 0.2364
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7532 0.04263 0.002995 0.4062 0.006902 0.7299
Q(ilm)
0.5969

mode liq bi g pl ilm sill q H2O
0.1037 0.2759 0.009501 0.3045 0.01109 0.01862 0.2767 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 699.9 0.1005 0.2009 0.8188 0.008492 0.001454 0.7097
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6821 0.4251 0.3621 0.03538 0.09408 0.2362
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7548 0.04531 0.003080 0.4056 0.006931 0.7293
Q(ilm)
0.5965

mode liq bi g pl ilm sill q H2O
0.1025 0.2760 0.009552 0.3048 0.01107 0.01864 0.2775 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 699.1 0.09792 0.2001 0.8187 0.008609 0.001392 0.7100
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6858 0.4250 0.3627 0.03535 0.09434 0.2360
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7565 0.04820 0.003177 0.4050 0.006964 0.7287
Q(ilm)
0.5959

mode liq bi g pl ilm sill q H2O
0.1014 0.2760 0.009626 0.3051 0.01105 0.01866 0.2782 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 698.3 0.09537 0.1993 0.8186 0.008732 0.001331 0.7104
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6895 0.4250 0.3633 0.03533 0.09463 0.2357
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7582 0.05131 0.003286 0.4044 0.007002 0.7280
Q(ilm)
0.5954

mode liq bi g pl ilm sill q H2O
0.1003 0.2761 0.009723 0.3053 0.01102 0.01866 0.2789 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 697.5 0.09289 0.1984 0.8182 0.008861 0.001272 0.7107
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6931 0.4249 0.3640 0.03532 0.09494 0.2354
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7599 0.05468 0.003409 0.4037 0.007043 0.7274
Q(ilm)
0.5948

mode liq bi g pl ilm sill q H2O
0.09922 0.2762 0.009843 0.3056 0.01100 0.01866 0.2795 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 696.7 0.09046 0.1976 0.8177 0.008994 0.001214 0.7110
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6965 0.4248 0.3647 0.03530 0.09526 0.2351
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7617 0.05834 0.003548 0.4031 0.007089 0.7267
Q(ilm)
0.5942

mode liq bi g pl ilm sill q H2O
0.09821 0.2762 0.009987 0.3058 0.01097 0.01866 0.2802 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 695.9 0.08810 0.1967 0.8171 0.009133 0.001159 0.7113

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6999 0.4246 0.3654 0.03529 0.09560 0.2348
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7635 0.06230 0.003705 0.4025 0.007140 0.7259
Q(ilm)

0.5935

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.09724	0.2762	0.01015	0.3061	0.01095	0.01864	0.2808	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 695.0 0.08580 0.1959 0.8162 0.009276 0.001104 0.7116
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7033 0.4245 0.3661 0.03528 0.09596 0.2345
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7654 0.06661 0.003884 0.4018 0.007194 0.7252
Q(ilm)

0.5928

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.09630	0.2762	0.01035	0.3063	0.01092	0.01863	0.2814	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 694.2 0.08355 0.1950 0.8152 0.009424 0.001051 0.7118
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7065 0.4243 0.3669 0.03527 0.09634 0.2341
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7673 0.07131 0.004089 0.4011 0.007253 0.7245
Q(ilm)

0.5921

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.09540	0.2761	0.01057	0.3065	0.01089	0.01861	0.2819	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 693.3 0.08136 0.1942 0.8140 0.0095770 0.0009991 0.7120
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7097 0.4240 0.3678 0.03526 0.09673 0.2337
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7693 0.07645 0.004324 0.4003 0.007317 0.7237
Q(ilm)

0.5914

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.09454	0.2761	0.01081	0.3067	0.01086	0.01858	0.2825	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 692.5 0.07922 0.1933 0.8126 0.0097340 0.0009482 0.7122
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7128 0.4237 0.3687 0.03526 0.09714 0.2333

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7714 0.08206 0.004594 0.3996 0.007386 0.7229
Q(ilm)

0.5907

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.09370	0.2760	0.01109	0.3069	0.01083	0.01855	0.2830	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 691.5 0.07712 0.1924 0.8111 0.009895 0.0008984 0.7124
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7159 0.4234 0.3696 0.03526 0.09757 0.2329
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7736 0.08822 0.004906 0.3987 0.007460 0.7221
Q(ilm)

0.5899

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.09289	0.2759	0.01140	0.3070	0.01080	0.01852	0.2835	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 690.6 0.07508 0.1915 0.8093 0.010060 0.0008496 0.7125
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7189 0.4230 0.3706 0.03526 0.09802 0.2324
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7758 0.09499 0.005269 0.3979 0.007540 0.7213
Q(ilm)

0.5892

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.09212	0.2758	0.01175	0.3072	0.01076	0.01848	0.2840	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 689.6 0.07307 0.1906 0.8073 0.010230 0.0008016 0.7125
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7219 0.4226 0.3716 0.03526 0.09849 0.2319
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7781 0.1024 0.005692 0.3969 0.007626 0.7205
Q(ilm)

0.5885

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.09136	0.2756	0.01213	0.3073	0.01073	0.01845	0.2844	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 688.5 0.07111 0.1897 0.8050 0.010400 0.0007543 0.7126
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7249 0.4222 0.3728 0.03527 0.09897 0.2314
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7806 0.1106 0.006190 0.3959 0.007719 0.7197

Q(ilm)

0.5879

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.09063	0.2755	0.01256	0.3074	0.01069	0.01842	0.2849	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	687.4	0.06919	0.1888	0.8025	0.010570	0.0007078	0.7125
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7278	0.4217	0.3739	0.03528	0.09948	0.2309	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7831	0.1197	0.006777	0.3948	0.007819	0.7189	

Q(ilm)

0.5872

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.08992	0.2753	0.01304	0.3074	0.01065	0.01839	0.2853	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.80	686.2	0.06730	0.1878	0.7997	0.010750	0.0006620	0.7124
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7306	0.4211	0.3752	0.03530	0.1000	0.2303	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7857	0.1297	0.007472	0.3936	0.007927	0.7181	

Q(ilm)

0.5867

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.08924	0.2751	0.01358	0.3074	0.01061	0.01836	0.2857	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	685.0	0.06544	0.1869	0.7965	0.010920	0.0006167	0.7122
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7335	0.4204	0.3766	0.03532	0.1006	0.2297	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7885	0.1408	0.008301	0.3923	0.008045	0.7174	

Q(ilm)

0.5862

mode	liq	bi	g	pl	ilm	sill	q	H2O
	0.08857	0.2748	0.01418	0.3074	0.01057	0.01834	0.2862	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	683.6	0.06361	0.1859	0.7931	0.011090	0.0005721	0.7120
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7363	0.4197	0.3781	0.03534	0.1011	0.2291	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7913	0.1530	0.009292	0.3908	0.008174	0.7167	

Q(ilm)

0.5859

mode	liq	bi	g	pl	ilm	sill	q	H2O
0.08792	0.2745	0.01486	0.3073	0.01053	0.01832	0.2866	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	682.1	0.06181	0.1849	0.7892	0.011260	0.0005279	0.7116
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7392	0.4189	0.3797	0.03537	0.1017	0.2284	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7942	0.1666	0.01048	0.3891	0.008316	0.7161	
	Q(ilm)						
0.5858							

mode	liq	bi	g	pl	ilm	sill	q	H2O
0.08729	0.2742	0.01562	0.3071	0.01048	0.01832	0.2870	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	680.5	0.06003	0.1838	0.7849	0.011430	0.0004843	0.7112
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7420	0.4181	0.3815	0.03540	0.1024	0.2276	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.7972	0.1815	0.01191	0.3872	0.008471	0.7156	
	Q(ilm)						
0.5859							

mode	liq	bi	g	pl	ilm	sill	q	H2O
0.08667	0.2739	0.01650	0.3068	0.01043	0.01834	0.2874	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	678.7	0.05827	0.1827	0.7801	0.011580	0.0004413	0.7106
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7449	0.4171	0.3834	0.03543	0.1030	0.2268	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8003	0.1980	0.01364	0.3849	0.008643	0.7153	
	Q(ilm)						
0.5863							

mode	liq	bi	g	pl	ilm	sill	q	H2O
0.08606	0.2735	0.01749	0.3064	0.01037	0.01839	0.2878	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	676.8	0.05651	0.1816	0.7747	0.011730	0.0003988	0.7099
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7478	0.4160	0.3855	0.03546	0.1037	0.2259	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.8035	0.2162	0.01572	0.3824	0.008834	0.7152	
	Q(ilm)						
0.5872							

mode	liq	bi	g	pl	ilm	sill	q	H2O
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0.08546 0.2731 0.01864 0.3059 0.01031 0.01846 0.2882 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 674.6 0.05476 0.1805 0.7687 0.011860.0003570 0.7090
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7507 0.4148 0.3878 0.03550 0.1044 0.2249
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8067 0.2361 0.01823 0.3793 0.009049 0.7154
Q(ilm)
0.5887

mode liq bi g pl ilm sill q H2O
0.08486 0.2726 0.01996 0.3052 0.01023 0.01858 0.2886 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 672.1 0.05300 0.1793 0.7620 0.011960.0003161 0.7079
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7538 0.4134 0.3904 0.03553 0.1052 0.2239
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8100 0.2580 0.02124 0.3758 0.009290 0.7161
Q(ilm)
0.591

mode liq bi g pl ilm sill q H2O
0.08427 0.2720 0.02150 0.3043 0.01015 0.01876 0.2890 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 669.3 0.05122 0.1780 0.7544 0.012040.0002761 0.7066
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7569 0.4118 0.3934 0.03556 0.1060 0.2227
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8133 0.2817 0.02484 0.3715 0.009563 0.7173
Q(ilm)
0.5944

mode liq bi g pl ilm sill q H2O
0.08367 0.2714 0.02330 0.3032 0.01006 0.01901 0.2894 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 666.1 0.04941 0.1767 0.7460 0.012080.0002374 0.7050
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7601 0.4101 0.3966 0.03558 0.1069 0.2215
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.8166 0.3075 0.02911 0.3663 0.009874 0.7195
Q(ilm)
0.5991

mode liq bi g pl ilm sill q H2O
0.08306 0.2707 0.02542 0.3016 0.009946 0.01937 0.2899 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 662.4 0.04756 0.1753 0.7365 0.012070.0002003 0.7030
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7636 0.4082 0.4004 0.03558 0.1077 0.2201
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8199 0.3354 0.03413 0.3601 0.01023 0.7227
 Q(ilm)
 0.6058

mode liq bi g pl ilm sill q H2O
 0.08242 0.2699 0.02792 0.2997 0.009815 0.01985 0.2904 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 658.0 0.04565 0.1738 0.7260 0.011990.0001651 0.7007
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7673 0.4060 0.4046 0.03554 0.1087 0.2186
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8232 0.3652 0.03992 0.3523 0.01064 0.7275
 Q(ilm)
 0.615

mode liq bi g pl ilm sill q H2O
 0.08175 0.2691 0.03089 0.2972 0.009657 0.02051 0.2909 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.40 652.8 0.04364 0.1721 0.7142 0.011820.0001325 0.6978
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7713 0.4036 0.4094 0.03545 0.1096 0.2169
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8266 0.3969 0.04650 0.3427 0.01111 0.7344
 Q(ilm)
 0.6273

mode liq bi g pl ilm sill q H2O
 0.08101 0.2681 0.03442 0.2940 0.009467 0.02138 0.2916 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.60 646.6 0.04151 0.1702 0.7013 0.011540.0001029 0.6943
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7757 0.4010 0.4149 0.03526 0.1105 0.2152
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8302 0.4303 0.05375 0.3306 0.01165 0.7439
 Q(ilm)
 0.6435

mode liq bi g pl ilm sill q H2O
 0.08018 0.2671 0.03859 0.2900 0.009240 0.02254 0.2923 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.80 639.2 0.03923 0.1680 0.6874 0.01113 7.691e-5 0.6901

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7807 0.3982 0.4213 0.03493 0.1114 0.2132
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8339 0.4650 0.06144 0.3156 0.01226 0.7567
 Q(ilm)

0.6643

mode liq bi g pl ilm sill q H2O
 0.07920 0.2661 0.04347 0.2850 0.008975 0.02404 0.2932 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.00 630.1 0.03676 0.1654 0.6729 0.01055 5.489e-5 0.6850
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7866 0.3952 0.4287 0.03436 0.1121 0.2113
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8381 0.5006 0.06919 0.2969 0.01292 0.7731
 Q(ilm)

0.6898

mode liq bi g pl ilm sill q H2O
 0.07800 0.2652 0.04910 0.2789 0.008677 0.02591 0.2943 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.20 618.8 0.03403 0.1620 0.6580 0.009769 3.690e-5 0.6786
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7936 0.3923 0.4374 0.03346 0.1125 0.2093
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8431 0.5371 0.07652 0.2738 0.01359 0.7931
 Q(ilm)

0.7199

mode liq bi g pl ilm sill q H2O
 0.07647 0.2644 0.05543 0.2715 0.008364 0.02821 0.2956 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.40 603.5 0.03084 0.1571 0.6432 0.008699 2.239e-5 0.6702
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8029 0.3896 0.4483 0.03205 0.1121 0.2073
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.8496 0.5761 0.08318 0.2444 0.01415 0.8169
 Q(ilm)

0.7549

mode liq bi g pl ilm sill q H2O
 0.07428 0.2639 0.06253 0.2627 0.008068 0.03101 0.2975 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O

6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.00 553.8 0.4329 0.4045 0.03385 0.06194 0.2602 0.3395
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9998 0.9014 0.4091 0.002390 0.7776 0.7207

mode bi mu pl ilm ky q H2O
0.2859 0.05361 0.3083 0.01328 0 0.3144 0.02444

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.20 556.8 0.4331 0.4002 0.03394 0.06261 0.2618 0.3416
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9998 0.8988 0.4099 0.002444 0.7769 0.7190

mode bi mu pl ilm ky q H2O
0.2857 0.05471 0.3077 0.01323 0 0.3142 0.02432

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.40 559.7 0.4332 0.3958 0.03402 0.06326 0.2633 0.3436
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9998 0.8962 0.4106 0.002496 0.7762 0.7172

mode bi mu pl ilm ky q H2O
0.2855 0.05580 0.3072 0.01318 0 0.3141 0.02421

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.60 562.6 0.4333 0.3914 0.03410 0.06391 0.2649 0.3457
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.8936 0.4113 0.002547 0.7755 0.7155

mode bi mu pl ilm ky q H2O
0.2853 0.05691 0.3066 0.01314 0 0.3139 0.02409

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.80 565.5 0.4335 0.3870 0.03418 0.06454 0.2665 0.3476
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.8911 0.4121 0.002597 0.7747 0.7137

mode bi mu pl ilm ky q H2O
0.2851 0.05802 0.3061 0.01309 0 0.3137 0.02398

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.00 568.3 0.4336 0.3826 0.03424 0.06517 0.2681 0.3496
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.8886 0.4128 0.002645 0.7740 0.7120

mode bi mu pl ilm ky q H2O

0.2849 0.05914 0.3055 0.01305 0 0.3135 0.02386

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.20 571.1 0.4337 0.3782 0.03430 0.06578 0.2698 0.3515
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.8862 0.4136 0.002692 0.7733 0.7102

mode bi mu pl ilm ky q H2O
0.2847 0.06025 0.3050 0.01301 0 0.3133 0.02374

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.40 573.8 0.4338 0.3737 0.03436 0.06639 0.2715 0.3534
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9996 0.8838 0.4143 0.002738 0.7725 0.7084

mode bi mu pl ilm ky q H2O
0.2844 0.06137 0.3044 0.01297 0 0.3131 0.02362

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.60 576.5 0.4339 0.3693 0.03441 0.06699 0.2732 0.3553
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9996 0.8814 0.4150 0.002782 0.7718 0.7066

mode bi mu pl ilm ky q H2O
0.2842 0.06249 0.3039 0.01293 0 0.3130 0.02351

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.80 579.2 0.4340 0.3648 0.03445 0.06757 0.2749 0.3571
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9996 0.8791 0.4158 0.002825 0.7711 0.7048

mode bi mu pl ilm ky q H2O
0.2840 0.06360 0.3034 0.01289 0 0.3128 0.02339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.00 581.8 0.4342 0.3604 0.03448 0.06816 0.2766 0.3590
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.8768 0.4165 0.002866 0.7703 0.7030

mode bi mu pl ilm ky q H2O
0.2838 0.06471 0.3028 0.01286 0 0.3126 0.02327

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.20 584.4 0.4343 0.3559 0.03451 0.06873 0.2783 0.3608
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.8746 0.4173 0.002906 0.7695 0.7012

mode bi mu pl ilm ky q H2O
0.2835 0.06582 0.3023 0.01282 0 0.3124 0.02315

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.40 586.9 0.4344 0.3515 0.03454 0.06930 0.2800 0.3625
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9994 0.8725 0.4180 0.002945 0.7688 0.6994

mode bi mu pl ilm ky q H2O
0.2833 0.06692 0.3017 0.01279 0 0.3122 0.02304

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.60 589.4 0.4345 0.3471 0.03455 0.06986 0.2817 0.3643
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9994 0.8704 0.4188 0.002982 0.7680 0.6975

mode bi mu pl ilm ky q H2O
0.2831 0.06802 0.3012 0.01276 0 0.3120 0.02292

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.80 591.9 0.4346 0.3428 0.03457 0.07041 0.2835 0.3660
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9993 0.8684 0.4195 0.003018 0.7672 0.6957

mode bi mu pl ilm ky q H2O
0.2828 0.06911 0.3007 0.01272 0 0.3119 0.02281

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.00 594.4 0.4347 0.3384 0.03457 0.07096 0.2852 0.3677
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9993 0.8664 0.4202 0.003053 0.7664 0.6938

mode bi mu pl ilm ky q H2O
0.2826 0.07019 0.3002 0.01269 0 0.3117 0.02269

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.20 596.8 0.4348 0.3341 0.03457 0.07150 0.2869 0.3693
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9992 0.8645 0.4210 0.003087 0.7656 0.6919

mode bi mu pl ilm ky q H2O
0.2824 0.07126 0.2996 0.01266 0 0.3115 0.02258

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.40 599.2 0.4349 0.3298 0.03456 0.07204 0.2886 0.3710
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9992 0.8627 0.4217 0.003120 0.7648 0.6901

mode bi mu pl ilm ky q H2O
0.2821 0.07232 0.2991 0.01263 0 0.3113 0.02247

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.60 601.6 0.4350 0.3256 0.03455 0.07257 0.2902 0.3726

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9991 0.8609 0.4224 0.003152 0.7640 0.6882

mode bi mu pl ilm ky q H2O
0.2819 0.07337 0.2986 0.01260 0 0.3111 0.02236

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.80 604.0 0.4351 0.3214 0.03454 0.07310 0.2919 0.3742
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9990 0.8592 0.4231 0.003183 0.7631 0.6862

mode bi mu pl ilm ky q H2O
0.2817 0.07441 0.2981 0.01257 0 0.3110 0.02225

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.00 606.3 0.4352 0.3172 0.03451 0.07363 0.2935 0.3758
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9990 0.8575 0.4238 0.003214 0.7623 0.6843

mode bi mu pl ilm ky q H2O
0.2815 0.07544 0.2976 0.01254 0 0.3108 0.02214

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.20 608.6 0.4353 0.3131 0.03449 0.07415 0.2952 0.3774
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9989 0.8559 0.4245 0.003243 0.7614 0.6823

mode bi mu pl ilm ky q H2O
0.2813 0.07646 0.2971 0.01252 0 0.3106 0.02203

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.40 610.9 0.4354 0.3090 0.03445 0.07466 0.2968 0.3789
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9988 0.8543 0.4252 0.003271 0.7606 0.6804

mode bi mu pl ilm ky q H2O
0.2810 0.07747 0.2966 0.01249 0 0.3105 0.02193

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.60 613.2 0.4354 0.3049 0.03441 0.07518 0.2983 0.3804
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9987 0.8528 0.4259 0.003299 0.7597 0.6784

mode bi mu pl ilm ky q H2O
0.2808 0.07847 0.2961 0.01246 0 0.3103 0.02182

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
8.80 615.4 0.4355 0.3010 0.03437 0.07569 0.2999 0.3819
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9986 0.8514 0.4266 0.003326 0.7588 0.6764

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2806	0.07945	0.2957	0.01244		0	0.3101 0.02172

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.00	617.7	0.4356	0.2970	0.03432	0.07619	0.3014	0.3834
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9985	0.8500	0.4273	0.003352	0.7579	0.6743

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2804	0.08042	0.2952	0.01241		0	0.3100 0.02162

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.20	619.9	0.4357	0.2931	0.03427	0.07670	0.3030	0.3848
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9985	0.8487	0.4280	0.003377	0.7570	0.6723

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2802	0.08138	0.2947	0.01238		0	0.3098 0.02151

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.40	622.1	0.4358	0.2893	0.03421	0.07720	0.3044	0.3863
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9983	0.8474	0.4286	0.003402	0.7561	0.6702

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2800	0.08232	0.2943	0.01236		0	0.3096 0.02142

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.60	624.3	0.4359	0.2854	0.03415	0.07770	0.3059	0.3877
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9982	0.8461	0.4293	0.003426	0.7552	0.6682

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2798	0.08326	0.2938	0.01234		0	0.3095 0.02132

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.80	626.4	0.4360	0.2817	0.03409	0.07820	0.3074	0.3891
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9981	0.8449	0.4299	0.003449	0.7543	0.6661

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2796	0.08418	0.2934	0.01231		0	0.3093 0.02122

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
10.00	628.6	0.4361	0.2780	0.03402	0.07870	0.3088	0.3905
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9980	0.8438	0.4306	0.003472	0.7533	0.6639

mode	bi	mu	pl	ilm	ky	q	H2O
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0.2794 0.08508 0.2929 0.01229 0 0.3092 0.02113

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.20 630.7 0.4362 0.2743 0.03395 0.07919 0.3102 0.3919
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.8427 0.4312 0.003495 0.7524 0.6618

mode bi mu pl ilm ky q H2O
0.2792 0.08598 0.2925 0.01226 0 0.3090 0.02103

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.40 632.8 0.4363 0.2707 0.03387 0.07968 0.3115 0.3932
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9978 0.8416 0.4318 0.003516 0.7514 0.6596

mode bi mu pl ilm ky q H2O
0.2790 0.08686 0.2921 0.01224 0 0.3089 0.02094

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.60 634.9 0.4363 0.2672 0.03379 0.08017 0.3129 0.3946
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9976 0.8406 0.4325 0.003538 0.7504 0.6574

mode bi mu pl ilm ky q H2O
0.2788 0.08773 0.2917 0.01222 0 0.3087 0.02085

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.80 637.0 0.4364 0.2637 0.03370 0.08066 0.3142 0.3959
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9975 0.8396 0.4331 0.003558 0.7494 0.6552

mode bi mu pl ilm ky q H2O
0.2786 0.08859 0.2912 0.01219 0 0.3086 0.02076

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.00 639.1 0.4365 0.2602 0.03361 0.08115 0.3155 0.3972
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9973 0.8386 0.4337 0.003579 0.7485 0.6530

mode bi mu pl ilm ky q H2O
0.2785 0.08944 0.2908 0.01217 0 0.3084 0.02067

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.20 641.1 0.4366 0.2568 0.03352 0.08164 0.3167 0.3985
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.8377 0.4343 0.003598 0.7475 0.6508

mode bi mu pl ilm ky q H2O
0.2783 0.09027 0.2904 0.01215 0 0.3083 0.02059

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.40 643.2 0.4367 0.2534 0.03343 0.08212 0.3180 0.3998
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9970 0.8368 0.4349 0.003618 0.7464 0.6485

mode bi mu pl ilm ky q H2O
0.2781 0.09109 0.2900 0.01213 0 0.3082 0.02050

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.60 645.2 0.4368 0.2501 0.03333 0.08261 0.3192 0.4011
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9968 0.8360 0.4355 0.003636 0.7454 0.6462

mode bi mu pl ilm ky q H2O
0.2779 0.09190 0.2896 0.01210 0 0.3080 0.02042

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.80 647.2 0.4369 0.2468 0.03323 0.08309 0.3203 0.4023
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9967 0.8352 0.4361 0.003655 0.7444 0.6439

mode bi mu pl ilm ky q H2O
0.2778 0.09270 0.2892 0.01208 0 0.3079 0.02033

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.00 649.2 0.4369 0.2436 0.03312 0.08357 0.3215 0.4035
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9965 0.8344 0.4367 0.003673 0.7434 0.6416

mode bi mu pl ilm ky q H2O
0.2776 0.09349 0.2889 0.01206 0 0.3078 0.02025

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.20 651.2 0.4370 0.2405 0.03302 0.08406 0.3226 0.4048
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9963 0.8336 0.4372 0.003690 0.7423 0.6392

mode bi mu pl ilm ky q H2O
0.2774 0.09427 0.2885 0.01204 0 0.3076 0.02017

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.40 653.2 0.4371 0.2373 0.03291 0.08454 0.3237 0.4060
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9961 0.8329 0.4378 0.003707 0.7413 0.6369

mode bi mu pl ilm ky q H2O
0.2773 0.09504 0.2881 0.01202 0 0.3075 0.02009

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.60 655.2 0.4372 0.2342 0.03280 0.08502 0.3248 0.4072

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9959 0.8322 0.4384 0.003724 0.7402 0.6345

mode bi mu pl ilm ky q H2O
0.2771 0.09579 0.2877 0.01200 0 0.3074 0.02001

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.80 657.1 0.4373 0.2312 0.03268 0.08549 0.3259 0.4084
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9956 0.8315 0.4389 0.003740 0.7391 0.6320

mode bi mu pl ilm ky q H2O
0.2769 0.09654 0.2874 0.01198 0 0.3072 0.01994

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
13.00 659.1 0.4374 0.2282 0.03257 0.08597 0.3269 0.4096
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9954 0.8309 0.4395 0.003755 0.7380 0.6296

mode bi mu pl ilm ky q H2O
0.2768 0.09727 0.2870 0.01195 0 0.3071 0.01986

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
13.20 661.0 0.4375 0.2253 0.03245 0.08645 0.3279 0.4107
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9952 0.8303 0.4400 0.003771 0.7369 0.6271

mode bi mu pl ilm ky q H2O
0.2766 0.09800 0.2867 0.01193 0 0.3070 0.01979

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
13.40 663.0 0.4375 0.2224 0.03232 0.08692 0.3289 0.4119
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9949 0.8297 0.4406 0.003786 0.7358 0.6247

mode bi mu pl ilm ky q H2O
0.2765 0.09871 0.2863 0.01191 0 0.3069 0.01971

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
13.60 664.9 0.4376 0.2195 0.03220 0.08740 0.3298 0.4130
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9947 0.8291 0.4411 0.003800 0.7347 0.6222

mode bi mu pl ilm ky q H2O
0.2763 0.09942 0.2860 0.01189 0 0.3067 0.01964

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
13.80 666.8 0.4377 0.2167 0.03207 0.08787 0.3308 0.4142
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9944 0.8285 0.4416 0.003814 0.7336 0.6196

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2762	0.1001	0.2856	0.01187		0	0.3066 0.01957

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.00	668.7	0.4378	0.2139	0.03195	0.08835	0.3317	0.4153
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9941	0.8280	0.4421	0.003828	0.7325	0.6171

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2761	0.1008	0.2853	0.01185		0	0.3065 0.01950

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.20	670.6	0.4379	0.2112	0.03182	0.08882	0.3326	0.4164
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9938	0.8274	0.4427	0.003841	0.7314	0.6145

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2759	0.1015	0.2849	0.01183		0	0.3064 0.01943

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.40	672.5	0.4380	0.2085	0.03169	0.08929	0.3334	0.4175
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9935	0.8269	0.4432	0.003854	0.7302	0.6119

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2758	0.1022	0.2846	0.01181		0	0.3063 0.01936

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.60	674.4	0.4381	0.2058	0.03155	0.08976	0.3343	0.4186
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9932	0.8265	0.4437	0.003866	0.7291	0.6093

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2756	0.1028	0.2843	0.01179		0	0.3062 0.01930

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.80	676.3	0.4381	0.2032	0.03142	0.09023	0.3351	0.4197
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9929	0.8260	0.4442	0.003878	0.7279	0.6067

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2755	0.1035	0.2840	0.01177		0	0.3061 0.01923

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
15.00	678.1	0.4382	0.2006	0.03128	0.09070	0.3359	0.4207
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9926	0.8255	0.4447	0.003889	0.7268	0.6040

mode	bi	mu	pl	ilm	ky	q	H2O
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0.2754 0.1041 0.2836 0.01175 0 0.3059 0.01916

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.20 680.0 0.4383 0.1981 0.03114 0.09117 0.3367 0.4218
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9922 0.8251 0.4452 0.003901 0.7256 0.6013

mode bi mu pl ilm ky q H2O
0.2752 0.1048 0.2833 0.01173 0 0.3058 0.01910

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.40 681.8 0.4384 0.1956 0.03100 0.09164 0.3375 0.4228
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9918 0.8246 0.4457 0.003911 0.7244 0.5986

mode bi mu pl ilm ky q H2O
0.2751 0.1054 0.2830 0.01171 0 0.3057 0.01903

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.60 683.7 0.4385 0.1931 0.03086 0.09211 0.3382 0.4239
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9915 0.8242 0.4462 0.003921 0.7233 0.5959

mode bi mu pl ilm ky q H2O
0.2750 0.1060 0.2827 0.01169 0 0.3056 0.01897

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.80 685.5 0.4386 0.1907 0.03072 0.09257 0.3389 0.4249
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9911 0.8238 0.4467 0.003931 0.7221 0.5931

mode bi mu pl ilm ky q H2O
0.2749 0.1067 0.2824 0.01167 0 0.3055 0.01891

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.00 687.3 0.4386 0.1883 0.03058 0.09304 0.3396 0.4259
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9907 0.8234 0.4471 0.003940 0.7209 0.5903

mode bi mu pl ilm ky q H2O
0.2747 0.1073 0.2821 0.01165 0 0.3054 0.01885

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.20 689.1 0.4387 0.1859 0.03043 0.09350 0.3403 0.4270
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9902 0.8230 0.4476 0.003949 0.7197 0.5875

mode bi mu pl ilm ky q H2O
0.2746 0.1079 0.2818 0.01163 0 0.3053 0.01879

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.40 690.9 0.4388 0.1836 0.03028 0.09397 0.3410 0.4280
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9898 0.8227 0.4481 0.003957 0.7185 0.5847

mode bi mu pl ilm ky q H2O
0.2745 0.1085 0.2815 0.01161 0 0.3052 0.01873

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.60 692.7 0.4389 0.1813 0.03014 0.09443 0.3416 0.4290
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9894 0.8223 0.4486 0.003965 0.7173 0.5819

mode bi mu pl ilm ky q H2O
0.2744 0.1091 0.2812 0.01159 0 0.3051 0.01867

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.80 694.5 0.4390 0.1790 0.02999 0.09489 0.3423 0.4299
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9889 0.8219 0.4490 0.003972 0.7161 0.5790

mode bi mu pl ilm ky q H2O
0.2742 0.1097 0.2809 0.01157 0 0.3050 0.01861

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.00 696.3 0.4391 0.1768 0.02984 0.09535 0.3429 0.4309
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9884 0.8216 0.4495 0.003979 0.7149 0.5761

mode bi mu pl ilm ky q H2O
0.2741 0.1103 0.2806 0.01155 0 0.3049 0.01855

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.20 698.1 0.4391 0.1746 0.02969 0.09581 0.3435 0.4319
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9879 0.8212 0.4500 0.003986 0.7136 0.5732

mode bi mu pl ilm ky q H2O
0.2740 0.1109 0.2803 0.01153 0 0.3048 0.01849

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.40 699.9 0.4392 0.1724 0.02954 0.09626 0.3441 0.4329
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9874 0.8209 0.4504 0.003992 0.7124 0.5702

mode bi mu pl ilm ky q H2O
0.2739 0.1114 0.2800 0.01152 0 0.3047 0.01843

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.60 701.7 0.4393 0.1703 0.02938 0.09672 0.3446 0.4338

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9868 0.8206 0.4509 0.003997 0.7112 0.5673

mode bi mu pl ilm ky q H2O
0.2738 0.1120 0.2797 0.01150 0 0.3046 0.01837

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
17.80 703.4 0.4394 0.1682 0.02923 0.09718 0.3452 0.4348
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9863 0.8202 0.4513 0.004002 0.7100 0.5643

mode bi mu pl ilm ky q H2O
0.2736 0.1126 0.2795 0.01148 0 0.3045 0.01832

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
18.00 705.2 0.4395 0.1661 0.02908 0.09763 0.3457 0.4357
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9857 0.8199 0.4518 0.004006 0.7087 0.5613

mode bi mu pl ilm ky q H2O
0.2735 0.1132 0.2792 0.01146 0 0.3044 0.01826

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
18.20 706.9 0.4395 0.1641 0.02892 0.09808 0.3462 0.4367
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9851 0.8196 0.4522 0.004010 0.7075 0.5582

mode bi mu pl ilm ky q H2O
0.2734 0.1137 0.2789 0.01144 0 0.3043 0.01821

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
18.40 708.7 0.4396 0.1620 0.02876 0.09853 0.3467 0.4376
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9845 0.8193 0.4527 0.004013 0.7062 0.5552

mode bi mu pl ilm ky q H2O
0.2733 0.1143 0.2786 0.01142 0 0.3042 0.01815

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
18.60 710.4 0.4397 0.1600 0.02861 0.09898 0.3472 0.4385
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9838 0.8190 0.4531 0.004016 0.7050 0.5521

mode bi mu pl ilm ky q H2O
0.2732 0.1148 0.2784 0.01141 0 0.3041 0.01810

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
18.80 712.2 0.4398 0.1581 0.02845 0.09943 0.3477 0.4394
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9831 0.8187 0.4536 0.004018 0.7037 0.5490

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2730	0.1154	0.2781	0.01139		0	0.3040 0.01804

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.00	713.9	0.4398	0.1561	0.02829	0.09987	0.3482	0.4403
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9824	0.8184	0.4540	0.004019	0.7025	0.5458

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2729	0.1160	0.2778	0.01137		0	0.3040 0.01799

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.20	715.6	0.4399	0.1542	0.02813	0.1003	0.3486	0.4412
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9817	0.8181	0.4545	0.004020	0.7012	0.5427

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2728	0.1165	0.2775	0.01135		0	0.3039 0.01793

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.40	717.4	0.4400	0.1523	0.02797	0.1008	0.3490	0.4421
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9810	0.8178	0.4549	0.004020	0.7000	0.5395

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2727	0.1171	0.2773	0.01134		0	0.3038 0.01788

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.60	719.1	0.4401	0.1504	0.02781	0.1012	0.3495	0.4430
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9802	0.8175	0.4554	0.004020	0.6987	0.5363

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2726	0.1176	0.2770	0.01132		0	0.3037 0.01782

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.80	720.8	0.4401	0.1486	0.02765	0.1016	0.3499	0.4439
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9794	0.8172	0.4558	0.004019	0.6975	0.5331

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2725	0.1182	0.2767	0.01130		0	0.3036 0.01777

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
20.00	722.5	0.4402	0.1467	0.02749	0.1021	0.3503	0.4448
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9786	0.8169	0.4562	0.004018	0.6962	0.5298

mode	bi	mu	pl	ilm	ky	q	H2O
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0.2723 0.1187 0.2765 0.01128 0 0.3035 0.01772

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.00 553.8 0.4329 0.4045 0.03385 0.06194 0.2602 0.3395
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9998 0.9014 0.4091 0.002390 0.7776 0.7207

mode bi mu pl ilm ky q H2O
0.2859 0.05361 0.3083 0.01328 0 0.3144 0.02444

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.20 556.8 0.4331 0.4002 0.03394 0.06261 0.2618 0.3416
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9998 0.8988 0.4099 0.002444 0.7769 0.7190

mode bi mu pl ilm ky q H2O
0.2857 0.05471 0.3077 0.01323 0 0.3142 0.02432

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.40 559.7 0.4332 0.3958 0.03402 0.06326 0.2633 0.3436
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9998 0.8962 0.4106 0.002496 0.7762 0.7172

mode bi mu pl ilm ky q H2O
0.2855 0.05580 0.3072 0.01318 0 0.3141 0.02421

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.60 562.6 0.4333 0.3914 0.03410 0.06391 0.2649 0.3457
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.8936 0.4113 0.002547 0.7755 0.7155

mode bi mu pl ilm ky q H2O
0.2853 0.05691 0.3066 0.01314 0 0.3139 0.02409

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
4.80 565.5 0.4335 0.3870 0.03418 0.06454 0.2665 0.3476
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.8911 0.4121 0.002597 0.7747 0.7137

mode bi mu pl ilm ky q H2O
0.2851 0.05802 0.3061 0.01309 0 0.3137 0.02398

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)

5.00 568.3 0.4336 0.3826 0.03424 0.06517 0.2681 0.3496
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.8886 0.4128 0.002645 0.7740 0.7120

mode bi mu pl ilm ky q H2O
0.2849 0.05914 0.3055 0.01305 0 0.3135 0.02386

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.20 571.1 0.4337 0.3782 0.03430 0.06578 0.2698 0.3515
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9997 0.8862 0.4136 0.002692 0.7733 0.7102

mode bi mu pl ilm ky q H2O
0.2847 0.06025 0.3050 0.01301 0 0.3133 0.02374

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.40 573.8 0.4338 0.3737 0.03436 0.06639 0.2715 0.3534
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9996 0.8838 0.4143 0.002738 0.7725 0.7084

mode bi mu pl ilm ky q H2O
0.2844 0.06137 0.3044 0.01297 0 0.3131 0.02362

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.60 576.5 0.4339 0.3693 0.03441 0.06699 0.2732 0.3553
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9996 0.8814 0.4150 0.002782 0.7718 0.7066

mode bi mu pl ilm ky q H2O
0.2842 0.06249 0.3039 0.01293 0 0.3130 0.02351

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.80 579.2 0.4340 0.3648 0.03445 0.06757 0.2749 0.3571
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9996 0.8791 0.4158 0.002825 0.7711 0.7048

mode bi mu pl ilm ky q H2O
0.2840 0.06360 0.3034 0.01289 0 0.3128 0.02339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.00 581.8 0.4342 0.3604 0.03448 0.06816 0.2766 0.3590
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9995 0.8768 0.4165 0.002866 0.7703 0.7030

mode bi mu pl ilm ky q H2O
0.2838 0.06471 0.3028 0.01286 0 0.3126 0.02327

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.20 584.4 0.4343 0.3559 0.03451 0.06873 0.2783 0.3608
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9995 0.8746 0.4173 0.002906 0.7695 0.7012

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2835	0.06582	0.3023	0.01282		0	0.3124 0.02315

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
6.40	586.9	0.4344	0.3515	0.03454	0.06930	0.2800	0.3625
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9994	0.8725	0.4180	0.002945	0.7688	0.6994

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2833	0.06692	0.3017	0.01279		0	0.3122 0.02304

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
6.60	589.4	0.4345	0.3471	0.03455	0.06986	0.2817	0.3643
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9994	0.8704	0.4188	0.002982	0.7680	0.6975

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2831	0.06802	0.3012	0.01276		0	0.3120 0.02292

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
6.80	591.9	0.4346	0.3428	0.03457	0.07041	0.2835	0.3660
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9993	0.8684	0.4195	0.003018	0.7672	0.6957

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2828	0.06911	0.3007	0.01272		0	0.3119 0.02281

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
7.00	594.4	0.4347	0.3384	0.03457	0.07096	0.2852	0.3677
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9993	0.8664	0.4202	0.003053	0.7664	0.6938

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2826	0.07019	0.3002	0.01269		0	0.3117 0.02269

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
7.20	596.8	0.4348	0.3341	0.03457	0.07150	0.2869	0.3693
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9992	0.8645	0.4210	0.003087	0.7656	0.6919

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2824	0.07126	0.2996	0.01266		0	0.3115 0.02258

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
7.40	599.2	0.4349	0.3298	0.03456	0.07204	0.2886	0.3710
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9992	0.8627	0.4217	0.003120	0.7648	0.6901

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2821	0.07232	0.2991	0.01263		0	0.3113 0.02247

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
7.60	601.6	0.4350	0.3256	0.03455	0.07257	0.2902	0.3726
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9991	0.8609	0.4224	0.003152	0.7640	0.6882

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2819	0.07337	0.2986	0.01260		0	0.3111 0.02236

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
7.80	604.0	0.4351	0.3214	0.03454	0.07310	0.2919	0.3742
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9990	0.8592	0.4231	0.003183	0.7631	0.6862

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2817	0.07441	0.2981	0.01257		0	0.3110 0.02225

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.00	606.3	0.4352	0.3172	0.03451	0.07363	0.2935	0.3758
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9990	0.8575	0.4238	0.003214	0.7623	0.6843

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2815	0.07544	0.2976	0.01254		0	0.3108 0.02214

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.20	608.6	0.4353	0.3131	0.03449	0.07415	0.2952	0.3774
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9989	0.8559	0.4245	0.003243	0.7614	0.6823

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2813	0.07646	0.2971	0.01252		0	0.3106 0.02203

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.40	610.9	0.4354	0.3090	0.03445	0.07466	0.2968	0.3789
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9988	0.8543	0.4252	0.003271	0.7606	0.6804

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2810	0.07747	0.2966	0.01249		0	0.3105 0.02193

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.60	613.2	0.4354	0.3049	0.03441	0.07518	0.2983	0.3804
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9987	0.8528	0.4259	0.003299	0.7597	0.6784

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2808	0.07847	0.2961	0.01246		0	0.3103 0.02182

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.80	615.4	0.4355	0.3010	0.03437	0.07569	0.2999	0.3819
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9986	0.8514	0.4266	0.003326	0.7588	0.6764	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2806	0.07945	0.2957	0.01244		0	0.3101 0.02172

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.00	617.7	0.4356	0.2970	0.03432	0.07619	0.3014	0.3834
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9985	0.8500	0.4273	0.003352	0.7579	0.6743	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2804	0.08042	0.2952	0.01241		0	0.3100 0.02162

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.20	619.9	0.4357	0.2931	0.03427	0.07670	0.3030	0.3848
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9985	0.8487	0.4280	0.003377	0.7570	0.6723	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2802	0.08138	0.2947	0.01238		0	0.3098 0.02151

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.40	622.1	0.4358	0.2893	0.03421	0.07720	0.3044	0.3863
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9983	0.8474	0.4286	0.003402	0.7561	0.6702	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2800	0.08232	0.2943	0.01236		0	0.3096 0.02142

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.60	624.3	0.4359	0.2854	0.03415	0.07770	0.3059	0.3877
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9982	0.8461	0.4293	0.003426	0.7552	0.6682	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2798	0.08326	0.2938	0.01234		0	0.3095 0.02132

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.80	626.4	0.4360	0.2817	0.03409	0.07820	0.3074	0.3891
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9981	0.8449	0.4299	0.003449	0.7543	0.6661	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2796	0.08418	0.2934	0.01231		0	0.3093 0.02122

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
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10.00 628.6 0.4361 0.2780 0.03402 0.07870 0.3088 0.3905
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9980 0.8438 0.4306 0.003472 0.7533 0.6639

mode bi mu pl ilm ky q H2O
0.2794 0.08508 0.2929 0.01229 0 0.3092 0.02113

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.20 630.7 0.4362 0.2743 0.03395 0.07919 0.3102 0.3919
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.8427 0.4312 0.003495 0.7524 0.6618

mode bi mu pl ilm ky q H2O
0.2792 0.08598 0.2925 0.01226 0 0.3090 0.02103

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.40 632.8 0.4363 0.2707 0.03387 0.07968 0.3115 0.3932
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9978 0.8416 0.4318 0.003516 0.7514 0.6596

mode bi mu pl ilm ky q H2O
0.2790 0.08686 0.2921 0.01224 0 0.3089 0.02094

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.60 634.9 0.4363 0.2672 0.03379 0.08017 0.3129 0.3946
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9976 0.8406 0.4325 0.003538 0.7504 0.6574

mode bi mu pl ilm ky q H2O
0.2788 0.08773 0.2917 0.01222 0 0.3087 0.02085

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.80 637.0 0.4364 0.2637 0.03370 0.08066 0.3142 0.3959
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9975 0.8396 0.4331 0.003558 0.7494 0.6552

mode bi mu pl ilm ky q H2O
0.2786 0.08859 0.2912 0.01219 0 0.3086 0.02076

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.00 639.1 0.4365 0.2602 0.03361 0.08115 0.3155 0.3972
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9973 0.8386 0.4337 0.003579 0.7485 0.6530

mode bi mu pl ilm ky q H2O
0.2785 0.08944 0.2908 0.01217 0 0.3084 0.02067

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.20 641.1 0.4366 0.2568 0.03352 0.08164 0.3167 0.3985
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9972 0.8377 0.4343 0.003598 0.7475 0.6508

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2783	0.09027	0.2904	0.01215		0	0.3083 0.02059

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
11.40	643.2	0.4367	0.2534	0.03343	0.08212	0.3180	0.3998
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9970	0.8368	0.4349	0.003618	0.7464	0.6485

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2781	0.09109	0.2900	0.01213		0	0.3082 0.02050

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
11.60	645.2	0.4368	0.2501	0.03333	0.08261	0.3192	0.4011
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9968	0.8360	0.4355	0.003636	0.7454	0.6462

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2779	0.09190	0.2896	0.01210		0	0.3080 0.02042

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
11.80	647.2	0.4369	0.2468	0.03323	0.08309	0.3203	0.4023
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9967	0.8352	0.4361	0.003655	0.7444	0.6439

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2778	0.09270	0.2892	0.01208		0	0.3079 0.02033

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
12.00	649.2	0.4369	0.2436	0.03312	0.08357	0.3215	0.4035
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9965	0.8344	0.4367	0.003673	0.7434	0.6416

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2776	0.09349	0.2889	0.01206		0	0.3078 0.02025

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
12.20	651.2	0.4370	0.2405	0.03302	0.08406	0.3226	0.4048
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9963	0.8336	0.4372	0.003690	0.7423	0.6392

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2774	0.09427	0.2885	0.01204		0	0.3076 0.02017

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
12.40	653.2	0.4371	0.2373	0.03291	0.08454	0.3237	0.4060
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9961	0.8329	0.4378	0.003707	0.7413	0.6369

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2773	0.09504	0.2881	0.01202		0	0.3075 0.02009

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
12.60	655.2	0.4372	0.2342	0.03280	0.08502	0.3248	0.4072
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9959	0.8322	0.4384	0.003724	0.7402	0.6345

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2771	0.09579	0.2877	0.01200		0	0.3074 0.02001

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
12.80	657.1	0.4373	0.2312	0.03268	0.08549	0.3259	0.4084
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9956	0.8315	0.4389	0.003740	0.7391	0.6320

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2769	0.09654	0.2874	0.01198		0	0.3072 0.01994

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.00	659.1	0.4374	0.2282	0.03257	0.08597	0.3269	0.4096
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9954	0.8309	0.4395	0.003755	0.7380	0.6296

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2768	0.09727	0.2870	0.01195		0	0.3071 0.01986

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.20	661.0	0.4375	0.2253	0.03245	0.08645	0.3279	0.4107
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9952	0.8303	0.4400	0.003771	0.7369	0.6271

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2766	0.09800	0.2867	0.01193		0	0.3070 0.01979

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.40	663.0	0.4375	0.2224	0.03232	0.08692	0.3289	0.4119
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9949	0.8297	0.4406	0.003786	0.7358	0.6247

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2765	0.09871	0.2863	0.01191		0	0.3069 0.01971

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.60	664.9	0.4376	0.2195	0.03220	0.08740	0.3298	0.4130
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9947	0.8291	0.4411	0.003800	0.7347	0.6222

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2763	0.09942	0.2860	0.01189		0	0.3067 0.01964

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.80	666.8	0.4377	0.2167	0.03207	0.08787	0.3308	0.4142
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9944	0.8285	0.4416	0.003814	0.7336	0.6196	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2762	0.1001	0.2856	0.01187		0	0.3066 0.01957

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.00	668.7	0.4378	0.2139	0.03195	0.08835	0.3317	0.4153
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9941	0.8280	0.4421	0.003828	0.7325	0.6171	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2761	0.1008	0.2853	0.01185		0	0.3065 0.01950

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.20	670.6	0.4379	0.2112	0.03182	0.08882	0.3326	0.4164
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9938	0.8274	0.4427	0.003841	0.7314	0.6145	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2759	0.1015	0.2849	0.01183		0	0.3064 0.01943

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.40	672.5	0.4380	0.2085	0.03169	0.08929	0.3334	0.4175
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9935	0.8269	0.4432	0.003854	0.7302	0.6119	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2758	0.1022	0.2846	0.01181		0	0.3063 0.01936

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.60	674.4	0.4381	0.2058	0.03155	0.08976	0.3343	0.4186
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9932	0.8265	0.4437	0.003866	0.7291	0.6093	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2756	0.1028	0.2843	0.01179		0	0.3062 0.01930

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.80	676.3	0.4381	0.2032	0.03142	0.09023	0.3351	0.4197
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9929	0.8260	0.4442	0.003878	0.7279	0.6067	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2755	0.1035	0.2840	0.01177		0	0.3061 0.01923

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
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15.00 678.1 0.4382 0.2006 0.03128 0.09070 0.3359 0.4207
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9926 0.8255 0.4447 0.003889 0.7268 0.6040

mode bi mu pl ilm ky q H2O
0.2754 0.1041 0.2836 0.01175 0 0.3059 0.01916

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.20 680.0 0.4383 0.1981 0.03114 0.09117 0.3367 0.4218
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9922 0.8251 0.4452 0.003901 0.7256 0.6013

mode bi mu pl ilm ky q H2O
0.2752 0.1048 0.2833 0.01173 0 0.3058 0.01910

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.40 681.8 0.4384 0.1956 0.03100 0.09164 0.3375 0.4228
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9918 0.8246 0.4457 0.003911 0.7244 0.5986

mode bi mu pl ilm ky q H2O
0.2751 0.1054 0.2830 0.01171 0 0.3057 0.01903

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.60 683.7 0.4385 0.1931 0.03086 0.09211 0.3382 0.4239
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9915 0.8242 0.4462 0.003921 0.7233 0.5959

mode bi mu pl ilm ky q H2O
0.2750 0.1060 0.2827 0.01169 0 0.3056 0.01897

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.80 685.5 0.4386 0.1907 0.03072 0.09257 0.3389 0.4249
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9911 0.8238 0.4467 0.003931 0.7221 0.5931

mode bi mu pl ilm ky q H2O
0.2749 0.1067 0.2824 0.01167 0 0.3055 0.01891

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.00 687.3 0.4386 0.1883 0.03058 0.09304 0.3396 0.4259
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9907 0.8234 0.4471 0.003940 0.7209 0.5903

mode bi mu pl ilm ky q H2O
0.2747 0.1073 0.2821 0.01165 0 0.3054 0.01885

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.20 689.1 0.4387 0.1859 0.03043 0.09350 0.3403 0.4270
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9902 0.8230 0.4476 0.003949 0.7197 0.5875

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2746	0.1079	0.2818	0.01163		0	0.3053 0.01879

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
16.40	690.9	0.4388	0.1836	0.03028	0.09397	0.3410	0.4280
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9898	0.8227	0.4481	0.003957	0.7185	0.5847

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2745	0.1085	0.2815	0.01161		0	0.3052 0.01873

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
16.60	692.7	0.4389	0.1813	0.03014	0.09443	0.3416	0.4290
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9894	0.8223	0.4486	0.003965	0.7173	0.5819

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2744	0.1091	0.2812	0.01159		0	0.3051 0.01867

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
16.80	694.5	0.4390	0.1790	0.02999	0.09489	0.3423	0.4299
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9889	0.8219	0.4490	0.003972	0.7161	0.5790

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2742	0.1097	0.2809	0.01157		0	0.3050 0.01861

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.00	696.3	0.4391	0.1768	0.02984	0.09535	0.3429	0.4309
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9884	0.8216	0.4495	0.003979	0.7149	0.5761

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2741	0.1103	0.2806	0.01155		0	0.3049 0.01855

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.20	698.1	0.4391	0.1746	0.02969	0.09581	0.3435	0.4319
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9879	0.8212	0.4500	0.003986	0.7136	0.5732

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2740	0.1109	0.2803	0.01153		0	0.3048 0.01849

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.40	699.9	0.4392	0.1724	0.02954	0.09626	0.3441	0.4329
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9874	0.8209	0.4504	0.003992	0.7124	0.5702

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2739	0.1114	0.2800	0.01152		0	0.3047 0.01843

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.60	701.7	0.4393	0.1703	0.02938	0.09672	0.3446	0.4338
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9868	0.8206	0.4509	0.003997	0.7112	0.5673

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2738	0.1120	0.2797	0.01150		0	0.3046 0.01837

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.80	703.4	0.4394	0.1682	0.02923	0.09718	0.3452	0.4348
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9863	0.8202	0.4513	0.004002	0.7100	0.5643

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2736	0.1126	0.2795	0.01148		0	0.3045 0.01832

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.00	705.2	0.4395	0.1661	0.02908	0.09763	0.3457	0.4357
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9857	0.8199	0.4518	0.004006	0.7087	0.5613

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2735	0.1132	0.2792	0.01146		0	0.3044 0.01826

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.20	706.9	0.4395	0.1641	0.02892	0.09808	0.3462	0.4367
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9851	0.8196	0.4522	0.004010	0.7075	0.5582

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2734	0.1137	0.2789	0.01144		0	0.3043 0.01821

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.40	708.7	0.4396	0.1620	0.02876	0.09853	0.3467	0.4376
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9845	0.8193	0.4527	0.004013	0.7062	0.5552

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2733	0.1143	0.2786	0.01142		0	0.3042 0.01815

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.60	710.4	0.4397	0.1600	0.02861	0.09898	0.3472	0.4385
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9838	0.8190	0.4531	0.004016	0.7050	0.5521

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2732	0.1148	0.2784	0.01141		0	0.3041 0.01810

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.80	712.2	0.4398	0.1581	0.02845	0.09943	0.3477	0.4394
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9831	0.8187	0.4536	0.004018	0.7037	0.5490	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2730	0.1154	0.2781	0.01139		0	0.3040 0.01804

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.00	713.9	0.4398	0.1561	0.02829	0.09987	0.3482	0.4403
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9824	0.8184	0.4540	0.004019	0.7025	0.5458	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2729	0.1160	0.2778	0.01137		0	0.3040 0.01799

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.20	715.6	0.4399	0.1542	0.02813	0.1003	0.3486	0.4412
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9817	0.8181	0.4545	0.004020	0.7012	0.5427	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2728	0.1165	0.2775	0.01135		0	0.3039 0.01793

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.40	717.4	0.4400	0.1523	0.02797	0.1008	0.3490	0.4421
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9810	0.8178	0.4549	0.004020	0.7000	0.5395	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2727	0.1171	0.2773	0.01134		0	0.3038 0.01788

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.60	719.1	0.4401	0.1504	0.02781	0.1012	0.3495	0.4430
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9802	0.8175	0.4554	0.004020	0.6987	0.5363	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2726	0.1176	0.2770	0.01132		0	0.3037 0.01782

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.80	720.8	0.4401	0.1486	0.02765	0.1016	0.3499	0.4439
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9794	0.8172	0.4558	0.004019	0.6975	0.5331	

mode	bi	mu	pl	ilm	ky	q	H2O
	0.2725	0.1182	0.2767	0.01130		0	0.3036 0.01777

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
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20.00 722.5 0.4402 0.1467 0.02749 0.1021 0.3503 0.4448
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9786 0.8169 0.4562 0.004018 0.6962 0.5298

mode bi mu pl ilm ky q H2O
0.2723 0.1187 0.2765 0.01128 0 0.3035 0.01772

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : bi, g, mu, pl, ilm, ru, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.40 588.3 0.4333 0.2055 0.03447 0.07134 0.3718 0.8681
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4457 0.07241 0.3801 0.9974 0.7938 0.4399
k(pl) x(ilm) Q(ilm)
0.002870 0.7676 0.6974

mode bi g mu pl ilm ru q H2O
0.27250.0006324 0.1030 0.2857 0.01303 0 0.3062 0.01906

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.60 596.6 0.4276 0.2139 0.03460 0.07358 0.3637 0.8604
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4071 0.05836 0.3771 0.9968 0.7747 0.4307
k(pl) x(ilm) Q(ilm)
0.003036 0.7705 0.6983

mode bi g mu pl ilm ru q H2O
0.2695 0.005861 0.1029 0.2835 0.01281 0 0.3060 0.01947

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.80 605.7 0.4191 0.2227 0.03487 0.07606 0.3553 0.8498
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3610 0.04426 0.3715 0.9957 0.7396 0.4188
k(pl) x(ilm) Q(ilm)
0.003201 0.7722 0.6974

mode bi g mu pl ilm ru q H2O
0.2647 0.01262 0.1019 0.2827 0.01264 0 0.3051 0.02024

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 617.1 0.4027 0.2340 0.03551 0.07922 0.3450 0.8301
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2911 0.02764 0.3589 0.9922 0.6565 0.4001
k(pl) x(ilm) Q(ilm)
0.003335 0.7721 0.6933

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2549	0.02362	0.09840	0.2860	0.01261		0	0.3024 0.02207

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.20	709.5	0.3784	0.3827	0.03703	0.1070	0.2217	0.7277
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.06741	0.004100	0.3554	0.9407	0.1798	0.3652
		k(pl)	x(ilm)	Q(ilm)			
		0.008652	0.7256	0.5855			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2391	0.04189	0.04774	0.3321	0.01125		0	0.2952 0.03267

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.40	733.6	0.3812	0.4019	0.03700	0.1145	0.2034	0.7177
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.05999	0.004156	0.3638	0.9345	0.1481	0.3634
		k(pl)	x(ilm)	Q(ilm)			
		0.01143	0.7105	0.5467			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2407	0.04241	0.04201	0.3351	0.01068		0	0.2955 0.03357

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.60	753.7	0.3829	0.4139	0.03707	0.1206	0.1910	0.7101
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.05592	0.004319	0.3704	0.9298	0.1280	0.3618
		k(pl)	x(ilm)	Q(ilm)			
		0.01429	0.6971	0.5098			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2414	0.04321	0.03813	0.3372	0.01022		0	0.2955 0.03426

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.80	771.9	0.3839	0.4225	0.03718	0.1262	0.1813	0.7036
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.05325	0.004526	0.3759	0.9260	0.1133	0.3602
		k(pl)	x(ilm)	Q(ilm)			
		0.01737	0.6843	0.4721			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2416	0.04424	0.03514	0.3390	0.009826		0	0.2953 0.03487

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.00	789.0	0.3844	0.4290	0.03733	0.1315	0.1732	0.6975
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.05128	0.004757	0.3807	0.9226	0.1018	0.3585
		k(pl)	x(ilm)	Q(ilm)			
		0.02080	0.6718	0.4319			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2413	0.04550	0.03261	0.3407	0.009468		0	0.2950 0.03545

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.20	805.6	0.3845	0.4345	0.03749	0.1366	0.1661	0.6916
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.04967	0.005004	0.3850	0.9196	0.09223	0.3567
		k(pl)	x(ilm)	Q(ilm)			
		0.02470	0.6592	0.3871			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2406	0.04698	0.03030	0.3424	0.009137		0	0.2946 0.03603

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.40	822.2	0.3843	0.4396	0.03765	0.1417	0.1594	0.6856
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.04817	0.005261	0.3888	0.9169	0.08406	0.3547
		k(pl)	x(ilm)	Q(ilm)			
		0.02927	0.6462	0.3343			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2395	0.04873	0.02801	0.3443	0.008824		0	0.2940 0.03666

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

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phases : bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.60	625.2	0.4304	0.2854	0.03453	0.07865	0.3063	0.8290
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2016	0.01290	0.3831	0.9977	0.8107	0.4235
		k(pl)	x(ilm)	Q(ilm)			
		0.003538	0.7561	0.6690			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2760	0.003835	0.08291	0.2947	0.01233		0	0.3083 0.02186

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.80	627.3	0.4034	0.2677	0.03567	0.08056	0.3198	0.8127
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1974	0.01265	0.3602	0.9917	0.6335	0.3997
		k(pl)	x(ilm)	Q(ilm)			
		0.003454	0.7630	0.6775			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2566	0.02152	0.08570	0.2974	0.01259		0	0.3023 0.02388

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.00	628.7	0.3861	0.2568	0.03637	0.08219	0.3268	0.8023
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2018	0.01336	0.3454	0.9844	0.5326	0.3850
		k(pl)	x(ilm)	Q(ilm)			
		0.003430	0.7670	0.6823			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2447	0.03257	0.08787	0.2985	0.01273		0	0.2986 0.02506

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.20	631.2	0.3750	0.2508	0.03684	0.08398	0.3293	0.7953
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2083	0.01439	0.3362	0.9781	0.4743	0.3751
		k(pl)	x(ilm)	Q(ilm)			
		0.003507	0.7693	0.6844			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2371	0.03991	0.08960	0.2984	0.01275		0	0.2964 0.02576

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.40	634.2	0.3659	0.2466	0.03722	0.08591	0.3299	0.7891
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2150	0.01551	0.3290	0.9720	0.4308	0.3667
		k(pl)	x(ilm)	Q(ilm)			
		0.003630	0.7711	0.6857			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2311	0.04607	0.09125	0.2979	0.01274		0	0.2947 0.02629

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.60	637.7	0.3579	0.2435	0.03755	0.08796	0.3295	0.7832
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2214	0.01664	0.3230	0.9661	0.3956	0.3590
		k(pl)	x(ilm)	Q(ilm)			
		0.003787	0.7727	0.6865			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2258	0.05161	0.09286	0.2970	0.01270		0	0.2933 0.02674

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.80	641.6	0.3507	0.2412	0.03783	0.09013	0.3282	0.7775
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2273	0.01777	0.3177	0.9602	0.3659	0.3517
		k(pl)	x(ilm)	Q(ilm)			
		0.003974	0.7743	0.6871			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2210	0.05676	0.09445	0.2961	0.01265		0	0.2920 0.02713

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.00	645.7	0.3441	0.2394	0.03809	0.09239	0.3263	0.7718
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2326	0.01886	0.3130	0.9543	0.3400	0.3448
		k(pl)	x(ilm)	Q(ilm)			
		0.004188	0.7758	0.6875			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2165	0.06161	0.09600	0.2950	0.01258		0	0.2909 0.02747

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.20	650.2	0.3380	0.2381	0.03831	0.09476	0.3238	0.7661
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2372	0.01991	0.3088	0.9485	0.3170	0.3381
		k(pl)	x(ilm)	Q(ilm)			
		0.004430	0.7772	0.6878			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2123	0.06622	0.09751	0.2939	0.01250		0	0.2898 0.02780

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.40	655.0	0.3323	0.2372	0.03850	0.09722	0.3209	0.7603
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2412	0.02089	0.3051	0.9426	0.2962	0.3317
		k(pl)	x(ilm)	Q(ilm)			
		0.004702	0.7786	0.6877			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2084	0.07061	0.09895	0.2928	0.01242		0	0.2888 0.02810

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.60	660.1	0.3270	0.2366	0.03868	0.09978	0.3176	0.7546
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2444	0.02178	0.3019	0.9368	0.2771	0.3256
		k(pl)	x(ilm)	Q(ilm)			
		0.005008	0.7798	0.6874			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2046	0.07478	0.1003	0.2918	0.01233		0	0.2878 0.02840

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.80	665.5	0.3221	0.2365	0.03884	0.1024	0.3139	0.7488
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2468	0.02259	0.2991	0.9310	0.2592	0.3198
		k(pl)	x(ilm)	Q(ilm)			
		0.005353	0.7809	0.6866			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.2011	0.07871	0.1015	0.2909	0.01224		0	0.2869 0.02870

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.00	671.3	0.3177	0.2369	0.03899	0.1052	0.3099	0.7430
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2484	0.02328	0.2968	0.9251	0.2421	0.3145
		k(pl)	x(ilm)	Q(ilm)			
		0.005746	0.7816	0.6853			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1977	0.08238	0.1025	0.2903	0.01214		0	0.2860 0.02901

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.20	677.7	0.3138	0.2377	0.03913	0.1082	0.3054	0.7372
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2489	0.02383	0.2952	0.9190	0.2256	0.3097
		k(pl)	x(ilm)	Q(ilm)			
		0.006201	0.7820	0.6833			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1946	0.08574	0.1032	0.2899	0.01204		0	0.2851 0.02933

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.40	684.7	0.3105	0.2393	0.03928	0.1113	0.3004	0.7314
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2483	0.02424	0.2943	0.9129	0.2092	0.3056
		k(pl)	x(ilm)	Q(ilm)			
		0.006739	0.7819	0.6801			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1918	0.08871	0.1036	0.2900	0.01193		0	0.2843 0.02968

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.60	692.7	0.3079	0.2416	0.03944	0.1146	0.2948	0.7257
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2462	0.02444	0.2943	0.9066	0.1926	0.3025
		k(pl)	x(ilm)	Q(ilm)			
		0.007397	0.7809	0.6754			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1894	0.09119	0.1034	0.2906	0.01181		0	0.2835 0.03006

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.80	702.0	0.3065	0.2452	0.03962	0.1183	0.2883	0.7200
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2421	0.02439	0.2958	0.9000	0.1754	0.3007
		k(pl)	x(ilm)	Q(ilm)			
		0.008235	0.7787	0.6682			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1875	0.09298	0.1026	0.2921	0.01167		0	0.2827 0.03051

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.00	713.3	0.3065	0.2506	0.03985	0.1225	0.2806	0.7144
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2353	0.02400	0.2992	0.8932	0.1573	0.3006
		k(pl)	x(ilm)	Q(ilm)			
		0.009365	0.7747	0.6572			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1864	0.09380	0.1007	0.2946	0.01150		0	0.2820 0.03105

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.20	727.5	0.3085	0.2583	0.04014	0.1272	0.2712	0.7090
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2248	0.02318	0.3052	0.8862	0.1382	0.3028
		k(pl)	x(ilm)	Q(ilm)			
		0.01097	0.7680	0.6406			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1864	0.09336	0.09736	0.2985	0.01128		0	0.2814 0.03169

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.40	744.7	0.3126	0.2684	0.04045	0.1327	0.2601	0.7037
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2109	0.02199	0.3139	0.8795	0.1195	0.3069
		k(pl)	x(ilm)	Q(ilm)			
		0.01325	0.7584	0.6170			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1876	0.09169	0.09263	0.3036	0.01100		0	0.2810 0.03243

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.60	763.9	0.3177	0.2796	0.04076	0.1385	0.2483	0.6983
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1957	0.02072	0.3239	0.8736	0.1032	0.3115
		k(pl)	x(ilm)	Q(ilm)			
		0.01626	0.7469	0.5879			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1895	0.08957	0.08729	0.3090	0.01066		0	0.2808 0.03320

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.80	783.1	0.3223	0.2901	0.04101	0.1443	0.2369	0.6928
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1818	0.01967	0.3332	0.8689	0.09036	0.3150
		k(pl)	x(ilm)	Q(ilm)			
		0.01989	0.7351	0.5562			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1911	0.08790	0.08225	0.3139	0.01032		0	0.2806 0.03395

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.00	801.4	0.3259	0.2993	0.04123	0.1499	0.2267	0.6871
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1702	0.01892	0.3412	0.8650	0.08050	0.3172
		k(pl)	x(ilm)	Q(ilm)			
		0.02402	0.7241	0.5238			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1921	0.08701	0.07785	0.3181	0.009999		0	0.2803 0.03466

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.20	818.6	0.3283	0.3070	0.04143	0.1553	0.2176	0.6814
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1608	0.01844	0.3476	0.8617	0.07282	0.3181
		k(pl)	x(ilm)	Q(ilm)			
		0.02863	0.7141	0.4916			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1924	0.08692	0.07408	0.3216	0.009707		0	0.2799 0.03534

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.40	834.6	0.3297	0.3135	0.04160	0.1604	0.2097	0.6755
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1534	0.01817	0.3527	0.8588	0.06673	0.3179
		k(pl)	x(ilm)	Q(ilm)			
		0.03369	0.7052	0.4600			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1920	0.08753	0.07088	0.3247	0.009451		0	0.2793 0.03601

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.60	849.6	0.3300	0.3187	0.04175	0.1652	0.2027	0.6696
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1475	0.01807	0.3564	0.8562	0.06180	0.3169
		k(pl)	x(ilm)	Q(ilm)			
		0.03920	0.6977	0.4295			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1910	0.08879	0.06815	0.3275	0.009234		0	0.2787 0.03668

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.80	863.5	0.3295	0.3229	0.04189	0.1699	0.1965	0.6636
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1430	0.01811	0.3591	0.8538	0.05777	0.3151
		k(pl)	x(ilm)	Q(ilm)			
		0.04514	0.6917	0.4010			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1892	0.09061	0.06583	0.3301	0.009057		0	0.2778 0.03735

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.00	876.4	0.3282	0.3262	0.04200	0.1744	0.1911	0.6575
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1398	0.01826	0.3606	0.8516	0.05445	0.3127
		k(pl)	x(ilm)	Q(ilm)			
		0.05148	0.6873	0.3752			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1869	0.09296	0.06388	0.3325	0.008921		0	0.2769 0.03801

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.20	888.2	0.3261	0.3286	0.04209	0.1787	0.1864	0.6514
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1375	0.01850	0.3612	0.8495	0.05169	0.3098
		k(pl)	x(ilm)	Q(ilm)			
		0.05817	0.6846	0.3531			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1840	0.09579	0.06227	0.3347	0.008825		0	0.2758 0.03869

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.40	899.0	0.3233	0.3302	0.04216	0.1828	0.1823	0.6452
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1362	0.01882	0.3609	0.8475	0.04939	0.3062
		k(pl)	x(ilm)	Q(ilm)			
		0.06517	0.6836	0.3358			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1805	0.09905	0.06098	0.3368	0.008768		0	0.2745 0.03936

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.60	908.8	0.3199	0.3312	0.04220	0.1868	0.1788	0.6388
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1357	0.01921	0.3597	0.8456	0.04749	0.3023
		k(pl)	x(ilm)	Q(ilm)			
		0.07241	0.6844	0.3239			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1766	0.1027	0.05999	0.3387	0.008748		0	0.2732 0.04004

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.80	917.7	0.3159	0.3315	0.04221	0.1907	0.1756	0.6324
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1360	0.01966	0.3577	0.8437	0.04591	0.2978
		k(pl)	x(ilm)	Q(ilm)			
		0.07982	0.6868	0.3180			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1723	0.1067	0.05929	0.3404	0.008763		0	0.2718 0.04070

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.00	925.7	0.3114	0.3313	0.04217	0.1945	0.1728	0.6259
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1369	0.02017	0.3551	0.8418	0.04462	0.2930
		k(pl)	x(ilm)	Q(ilm)			
		0.08732	0.6907	0.3178			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1676	0.1111	0.05888	0.3420	0.008809		0	0.2703 0.04136

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.20	932.8	0.3065	0.3306	0.04210	0.1983	0.1704	0.6194
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1384	0.02071	0.3519	0.8399	0.04357	0.2879
		k(pl)	x(ilm)	Q(ilm)			
		0.09487	0.6959	0.3230			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1626	0.1157	0.05874	0.3434	0.008883		0	0.2687 0.04200

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.40	939.3	0.3013	0.3296	0.04198	0.2019	0.1682	0.6127
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1404	0.02129	0.3481	0.8381	0.04274	0.2824
		k(pl)	x(ilm)	Q(ilm)			
		0.1024	0.7021	0.3325			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1573	0.1205	0.05887	0.3446	0.008982		0	0.2671 0.04262

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.60	945.0	0.2958	0.3281	0.04182	0.2055	0.1662	0.6060
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1429	0.02190	0.3439	0.8362	0.04208	0.2766
		k(pl)	x(ilm)	Q(ilm)			
		0.1098	0.7093	0.3455			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1518	0.1256	0.05925	0.3455	0.009103		0	0.2655 0.04321

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.80	950.2	0.2901	0.3264	0.04161	0.2090	0.1644	0.5993
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1457	0.02253	0.3393	0.8343	0.04159	0.2705
		k(pl)	x(ilm)	Q(ilm)			
		0.1171	0.7172	0.3609			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1461	0.1308	0.05987	0.3462	0.009243		0	0.2639 0.04378

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.00	954.8	0.2842	0.3245	0.04134	0.2125	0.1626	0.5925
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1489	0.02317	0.3345	0.8325	0.04123	0.2642
		k(pl)	x(ilm)	Q(ilm)			
		0.1242	0.7255	0.3778			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1404	0.1361	0.06073	0.3467	0.009399		0	0.2623 0.04432

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.20	958.9	0.2783	0.3224	0.04103	0.2160	0.1610	0.5857
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1523	0.02381	0.3294	0.8306	0.04100	0.2577
		k(pl)	x(ilm)	Q(ilm)			
		0.1312	0.7342	0.3957			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1346	0.1415	0.06179	0.3469	0.009568		0	0.2608 0.04482

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.40	962.7	0.2723	0.3202	0.04067	0.2194	0.1594	0.5789
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1560	0.02445	0.3241	0.8287	0.04088	0.2510
		k(pl)	x(ilm)	Q(ilm)			
		0.1380	0.7431	0.4139			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1287	0.1470	0.06304	0.3469	0.009750		0	0.2592 0.04529

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.60	966.0	0.2663	0.3178	0.04026	0.2228	0.1579	0.5722
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1597	0.02506	0.3188	0.8269	0.04085	0.2442
		k(pl)	x(ilm)	Q(ilm)			
		0.1446	0.7520	0.4321			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1229	0.1526	0.06447	0.3467	0.009943		0	0.2577 0.04573

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.80	969.1	0.2604	0.3154	0.03981	0.2262	0.1564	0.5654
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1635	0.02565	0.3134	0.8250	0.04091	0.2372
		k(pl)	x(ilm)	Q(ilm)			
		0.1510	0.7609	0.4499			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1170	0.1581	0.06605	0.3463	0.01015		0	0.2562 0.04614

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.00	972.0	0.2545	0.3129	0.03932	0.2295	0.1549	0.5586
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1674	0.02621	0.3079	0.8231	0.04104	0.2300
		k(pl)	x(ilm)	Q(ilm)			
		0.1573	0.7697	0.4671			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1112	0.1636	0.06775	0.3458	0.01036		0	0.2548 0.04653

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.20	974.6	0.2487	0.3104	0.03879	0.2329	0.1533	0.5519
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1712	0.02672	0.3025	0.8212	0.04123	0.2228
		k(pl)	x(ilm)	Q(ilm)			
		0.1634	0.7782	0.4836			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.1054	0.1692	0.06954	0.3450	0.01058		0	0.2534 0.04688

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.40	977.1	0.2430	0.3078	0.03822	0.2361	0.1518	0.5452
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1749	0.02719	0.2971	0.8193	0.04148	0.2155
		k(pl)	x(ilm)	Q(ilm)			
		0.1694	0.7865	0.4993			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.09966	0.1746	0.07141	0.3442	0.01081		0	0.2520 0.04721

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.60	979.4	0.2375	0.3053	0.03764	0.2394	0.1503	0.5385
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1785	0.02761	0.2917	0.8174	0.04177	0.2081
		k(pl)	x(ilm)	Q(ilm)			
		0.1754	0.7945	0.5142			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.09399	0.1801	0.07333	0.3433	0.01104		0	0.2507 0.04753

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.80	981.6	0.2320	0.3028	0.03703	0.2426	0.1488	0.5319
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1820	0.02798	0.2864	0.8155	0.04211	0.2008
		k(pl)	x(ilm)	Q(ilm)			
		0.1812	0.8022	0.5281			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.08838	0.1855	0.07526	0.3424	0.01129		0	0.2494 0.04783

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
19.00	983.7	0.2268	0.3003	0.03641	0.2458	0.1472	0.5254
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1853	0.02830	0.2813	0.8136	0.04248	0.1934
		k(pl)	x(ilm)	Q(ilm)			
		0.1870	0.8095	0.5411			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.08283	0.1908	0.07720	0.3414	0.01154		0	0.2482 0.04812

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
19.20	985.7	0.2217	0.2978	0.03577	0.2490	0.1457	0.5189
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1884	0.02857	0.2762	0.8116	0.04287	0.1861
		k(pl)	x(ilm)	Q(ilm)			
		0.1928	0.8165	0.5533			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.07736	0.1960	0.07910	0.3404	0.01180		0	0.2469 0.04840

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
19.40	987.7	0.2167	0.2953	0.03514	0.2521	0.1441	0.5124
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1913	0.02878	0.2713	0.8097	0.04329	0.1788
		k(pl)	x(ilm)	Q(ilm)			
		0.1986	0.8230	0.5645			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.07195	0.2011	0.08096	0.3395	0.01207		0	0.2457 0.04868

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
19.60	989.7	0.2119	0.2929	0.03450	0.2552	0.1425	0.5061
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1940	0.02894	0.2665	0.8078	0.04372	0.1716
		k(pl)	x(ilm)	Q(ilm)			
		0.2044	0.8292	0.5749			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.06662	0.2062	0.08276	0.3386	0.01234		0	0.2445 0.04896

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
19.80	991.7	0.2073	0.2905	0.03386	0.2582	0.1409	0.4997
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1965	0.02906	0.2618	0.8059	0.04416	0.1646
		k(pl)	x(ilm)	Q(ilm)			
		0.2102	0.8350	0.5844			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.06135	0.2111	0.08447	0.3378	0.01263		0	0.2433 0.04923

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
20.00	993.6	0.2028	0.2881	0.03324	0.2613	0.1393	0.4935
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1987	0.02913	0.2573	0.8039	0.04461	0.1577
		k(pl)	x(ilm)	Q(ilm)			
		0.2161	0.8405	0.5932			

mode	bi	g	mu	pl	ilm	ky	q	H2O
	0.05615	0.2160	0.08609	0.3372	0.01292		0	0.2422 0.04952

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.45	686.8	0.07002	0.1907	0.8054	0.010080.0008737	0.7244	
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7262	0.4369	0.3211	0.03552	0.09647	0.2594
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.8007	0.1436	0.009461	0.4074	0.9193	0.1423
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3838	0.008032	0.7222	0.5927	0.04853	0.2835

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.04853	0.2835	0.002278		0	0.3244	0.01069	0.02398	0.2908 0.01585

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.50	687.6	0.06998	0.1901	0.8034	0.010350.0008715	0.7223	
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7266	0.4327	0.3194	0.03576	0.09720	0.2605
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.7990	0.1488	0.01003	0.4040	0.9183	0.1400
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi
		0.3904	0.007938	0.7233	0.5938	0.07087	0.2801

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O
	0.07087	0.2801	0.005146		0	0.3156	0.01072	0.02388	0.2863 0.007342

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.55    821.2  0.08377  0.2750  0.5028  0.02861 0.002174 0.6984
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6070  0.3179  0.2978  0.04929  0.1646  0.2148
      x(g)   z(g)   f(g)  fe(mu)  y(mu)  na(mu)
      0.6795  0.1950  0.02911  0.3409  0.8521  0.04489
      na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.2284  0.01399  0.3084  0.05175  0.50700.0001120

      mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.1737 0.1862 0.1064 0 0 0.2650 0.004667 0.001981 0.02141 0.2406
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

```

<=====>
phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.55    821.2  0.08377  0.2750  0.5028  0.02861 0.002174 0.6984
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6070  0.3179  0.2978  0.04929  0.1646  0.2148
      x(g)   z(g)   f(g)  fe(mu)  y(mu)  na(mu)
      0.6795  0.1950  0.02911  0.3409  0.8521  0.04489
      na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.2284  0.01399  0.3084  0.05175  0.50700.0001120

      mode  liq  bi  g  mu  ksp  pl  ilm  ru  ky  q
      0.1737 0.1862 0.1064 0 0 0.2650 0.004667 0.001981 0.02141 0.2406
calcs use:

```

```

<=====>
phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.11    875.6  0.1317  0.3208  0.4390  0.03339 0.004544 0.6558
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4968  0.2616  0.3236  0.04838  0.1943  0.1740
      x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
      0.5531  0.05465 0.01006 0.2465 0.02113 0.3720
      k(pl)  x(ilm)  Q(ilm)
      0.05665 0.56870.0002251

      mode  liq  bi  g  ksp  pl  ilm  ru  ky  q
      0.2889 0.1093 0.1486 0 0.2604 0.007917 0.002305 0 0.1826
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O

```

6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.62 855.7 0.06656 0.2871 0.6306 0.02944 0.002146 0.6310
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6125 0.2192 0.2429 0.06148 0.1841 0.1947
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5608 0.2285 0.05140 0.2499 0.8123 0.04769
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3016 0.01394 0.1699 0.08499 0.4083 3.607e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1524 0.08091 0.2111 0.1061 0 0.21390 0.0005023 0.004950 0 0.2301

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 840.9 0.1073 0.2921 0.4556 0.03019 0.002055 0.6759
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5553 0.2948 0.4087 0.04768 0.1726 0.1546
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6056 0.06185 0.008217 0.3160 0.9048 0.05017
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2252 0.01679 0.3645 0.04972 0.5067 9.891e-5

mode liq bi g mu ksp pl ilm ru q
0.2171 0.1524 0.1213 0.001052 0 0.2799 0.006768 0.002075 0.2193

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 841.4 0.1054 0.2912 0.4574 0.03068 0.002078 0.6750
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5586 0.2922 0.4000 0.04838 0.1730 0.1578
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6052 0.06680 0.008846 0.3143 0.9012 0.04974
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2257 0.01674 0.3609 0.05009 0.5036 9.464e-5

mode liq bi g mu ksp pl ilm ru q
0.2137 0.1504 0.1233 0.004622 0 0.2791 0.006667 0.002149 0.2201

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 841.8 0.1035 0.2904 0.4595 0.03115 0.002098 0.6740

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5618 0.2895 0.3913 0.04908 0.1734 0.1609
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6048 0.07220 0.009560 0.3124 0.8976 0.04932
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2264 0.01668 0.3571 0.05051 0.5003 9.048e-5

mode liq bi g mu ksp pl ilm ru q
0.2103 0.1483 0.1254 0.008222 0 0.2781 0.006556 0.002227 0.2209

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 842.3 0.1016 0.2896 0.4618 0.03160 0.002115 0.6728
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5650 0.2867 0.3827 0.04979 0.1738 0.1640
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6043 0.07809 0.01037 0.3103 0.8938 0.04894
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2272 0.01662 0.3528 0.05097 0.4968 8.643e-5

mode liq bi g mu ksp pl ilm ru q
0.2070 0.1461 0.1277 0.01188 0 0.2770 0.006435 0.002308 0.2216

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 842.7 0.09977 0.2888 0.4645 0.03202 0.002129 0.6715
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5680 0.2838 0.3741 0.05050 0.1742 0.1670
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6037 0.08449 0.01130 0.3081 0.8900 0.04857
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2282 0.01655 0.3482 0.05149 0.4931 8.248e-5

mode liq bi g mu ksp pl ilm ru q
0.2038 0.1438 0.1302 0.01562 0 0.2756 0.006301 0.002395 0.2223

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 843.2 0.09790 0.2880 0.4675 0.03242 0.002139 0.6700
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5710 0.2808 0.3656 0.05121 0.1747 0.1699
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6030 0.09143 0.01236 0.3057 0.8862 0.04824
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2294 0.01648 0.3431 0.05209 0.4892 7.862e-5

mode liq bi g mu ksp pl ilm ru q
0.2006 0.1414 0.1329 0.01948 0 0.2740 0.006153 0.002487 0.2230

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 843.6 0.09604 0.2873 0.4711 0.03277 0.002146 0.6684
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5739 0.2775 0.3572 0.05193 0.1751 0.1726

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6022 0.09891 0.01356 0.3031 0.8823 0.04795
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2309 0.01641 0.3374 0.05276 0.4851 7.488e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1975	0.1389	0.1358	0.02347		0	0.2721	0.005987	0.002586 0.2236

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 844.0 0.09420 0.2866 0.4751 0.03308 0.002149 0.6666
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5768 0.2742 0.3490 0.05266 0.1755 0.1752
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6012 0.1069 0.01493 0.3003 0.8783 0.04769
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2326 0.01634 0.3312 0.05353 0.4807 7.124e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1944	0.1362	0.1390	0.02762		0	0.2700	0.005801	0.002691 0.2243

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 844.5 0.09236 0.2859 0.4799 0.03334 0.002150 0.6646
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5796 0.2707 0.3409 0.05338 0.1760 0.1777
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5999 0.1154 0.01648 0.2973 0.8744 0.04748
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2347 0.01626 0.3244 0.05441 0.4761 6.773e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1914	0.1334	0.1425	0.03195		0	0.2675	0.005595	0.002804 0.2248

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 845.0 0.09052 0.2854 0.4853 0.03355 0.002147 0.6625
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5823 0.2670 0.3329 0.05411 0.1765 0.1799
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5985 0.1242 0.01821 0.2941 0.8704 0.04731
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2371 0.01617 0.3169 0.05542 0.4714 6.436e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1884	0.1304	0.1463	0.03647		0	0.2648	0.005364	0.002925 0.2254

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 845.5 0.08870 0.2849 0.4915 0.03368 0.002142 0.6602
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5849 0.2632 0.3252 0.05483 0.1770 0.1820
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5968 0.1334 0.02012 0.2908 0.8663 0.04719

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2398 0.01609 0.3087 0.05657 0.4665 6.116e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1854	0.1272	0.1504	0.04118		0	0.2617	0.005109	0.003054 0.2259

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 846.1 0.08689 0.2845 0.4985 0.03375 0.002136 0.6578
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5875 0.2594 0.3176 0.05554 0.1775 0.1838
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5948 0.1427 0.02221 0.2874 0.8623 0.04712
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2430 0.01599 0.2999 0.05787 0.4614 5.812e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1824	0.1238	0.1548	0.04607		0	0.2584	0.004830	0.003190 0.2264

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 846.6 0.08509 0.2842 0.5064 0.03374 0.002128 0.6552
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5900 0.2555 0.3103 0.05624 0.1780 0.1855
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5925 0.1521 0.02446 0.2838 0.8583 0.04709
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2465 0.01589 0.2904 0.05933 0.4563 5.528e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1795	0.1204	0.1594	0.05111		0	0.2549	0.004526	0.003332 0.2269

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 847.3 0.08330 0.2839 0.5150 0.03365 0.002121 0.6527
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5925 0.2516 0.3032 0.05691 0.1786 0.1869
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5901 0.1613 0.02685 0.2802 0.8542 0.04709
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2504 0.01578 0.2803 0.06095 0.4512 5.264e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1766	0.1168	0.1641	0.05628		0	0.2511	0.004199	0.003480 0.2274

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 847.9 0.08153 0.2838 0.5245 0.03349 0.002114 0.6501
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5948 0.2477 0.2963 0.05755 0.1791 0.1882
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5874 0.1703 0.02933 0.2767 0.8502 0.04714
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2547 0.01566 0.2697 0.06275 0.4462 5.021e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1738	0.1131	0.1691	0.06153		0	0.2473	0.003854	0.003631 0.2278

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	848.7	0.07977	0.2838	0.5347	0.03325	0.002108	0.6475
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5971	0.2439	0.2896	0.05816	0.1797	0.1893	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5846	0.1789	0.03189	0.2731	0.8461	0.04720	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2592	0.01552	0.2587	0.06470	0.4412	4.797e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1710	0.1094	0.1741	0.06682		0	0.2433	0.003493	0.003785 0.2282

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	849.4	0.07804	0.2839	0.5455	0.03295	0.002104	0.6450
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5993	0.2403	0.2832	0.05873	0.1802	0.1902	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5817	0.1870	0.03447	0.2697	0.8421	0.04728	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2640	0.01538	0.2475	0.06682	0.4364	4.594e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1683	0.1056	0.1791	0.07209		0	0.2393	0.003122	0.003939 0.2286

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.40	850.2	0.07632	0.2841	0.5568	0.03258	0.002103	0.6426
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6015	0.2368	0.2770	0.05926	0.1808	0.1911	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5787	0.1946	0.03704	0.2664	0.8380	0.04737	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2691	0.01522	0.2361	0.06907	0.4318	4.409e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1657	0.1019	0.1840	0.07731		0	0.2353	0.002743	0.004093 0.2289

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	851.0	0.07464	0.2844	0.5686	0.03216	0.002103	0.6403
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6035	0.2334	0.2710	0.05974	0.1813	0.1918	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5756	0.2016	0.03959	0.2633	0.8339	0.04746	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2743	0.01504	0.2247	0.07146	0.4274	4.242e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
------	-----	----	---	----	-----	----	-----	----	---

0.1632 0.09823 0.1889 0.08243 0 0.2315 0.002362 0.004244 0.2292

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 851.9 0.07298 0.2848 0.5806 0.03169 0.002106 0.6382
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6055 0.2302 0.2651 0.06018 0.1819 0.1925
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5726 0.2080 0.04208 0.2603 0.8297 0.04754
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2796 0.01486 0.2134 0.07396 0.4232 4.090e-5

mode liq bi g mu ksp pl ilm ru q
0.1608 0.09463 0.1936 0.08742 0 0.2277 0.001983 0.004392 0.2294

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 852.7 0.07135 0.2852 0.5928 0.03118 0.002112 0.6362
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6073 0.2272 0.2594 0.06057 0.1824 0.1931
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5696 0.2138 0.04449 0.2575 0.8255 0.04761
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2850 0.01465 0.2023 0.07656 0.4192 3.954e-5

mode liq bi g mu ksp pl ilm ru q
0.1586 0.09112 0.1982 0.09226 0 0.2241 0.001608 0.004536 0.2296

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 853.6 0.06976 0.2857 0.6051 0.03064 0.002120 0.6344
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6091 0.2244 0.2539 0.06091 0.1830 0.1937
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5667 0.2191 0.04682 0.2548 0.8213 0.04766
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2904 0.01444 0.1914 0.07923 0.4155 3.830e-5

mode liq bi g mu ksp pl ilm ru q
0.1565 0.08770 0.2026 0.09692 0 0.2206 0.001241 0.004675 0.2298

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 854.6 0.06821 0.2863 0.6173 0.03007 0.002131 0.6327
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6108 0.2218 0.2486 0.06121 0.1835 0.1942
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5638 0.2239 0.04906 0.2524 0.8170 0.04769
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2958 0.01421 0.1809 0.08196 0.4119 3.718e-5

mode liq bi g mu ksp pl ilm ru q
0.1544 0.08440 0.2068 0.1014 0 0.21730.0008821 0.004809 0.2300

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.60    855.6  0.06669  0.2870  0.6295  0.02949 0.002145 0.6312
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6124  0.2194  0.2433  0.06146  0.1841  0.1947
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5610  0.2281  0.05121  0.2501  0.8127  0.04769
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3011  0.01396  0.1709  0.08473  0.4086 3.616e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1526 0.08120 0.2107 0.1057  0 0.21420.0005340 0.004938 0.2301

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.80    856.6  0.06522  0.2877  0.6414  0.02889 0.002161 0.6298
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6138  0.2171  0.2383  0.06168  0.1846  0.1952
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5583  0.2319  0.05326  0.2480  0.8083  0.04767
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3063  0.01371  0.1612  0.08752  0.4055 3.524e-5

```

```

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1508 0.07811 0.2145 0.1098  0 0.21130.0001973 0.005062 0.2302
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.92    857.2  0.06435  0.2882  0.6485  0.02853 0.002172 0.6290
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6147  0.2158  0.2353  0.06179  0.1849  0.1954
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5568  0.2340  0.05445  0.2468  0.8057  0.04764
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.3095  0.01355  0.1556  0.08920  0.4038 3.472e-5

```

```

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1498 0.07630 0.2167 0.1122  0 0.2096  0 0.005135 0.2302
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, mu, ksp, pl, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
13.00	844.8	0.1085	0.2944	0.4594	0.03034	0.001925	0.6840		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.5499	0.2895	0.3566	0.1381	0.1687	0.1475		
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
		0.6129	0.07253	0.03090	0.3258	0.9119	0.05180		
		na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi		
		0.2304	0.01720	0.3582	0.05138	0.2212	0.1516		
mode	liq	bi	g	mu	ksp	pl	ru	q	
	0.2212	0.1516	0.1305	0.001150	0	0.2752	0.003576	0.2168	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
13.20	845.2	0.1066	0.2936	0.4622	0.03074	0.001945	0.6824		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.5536	0.2866	0.3503	0.1363	0.1692	0.1506		
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
		0.6117	0.07864	0.03255	0.3231	0.9083	0.05143		
		na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi		
		0.2314	0.01713	0.3537	0.05188	0.2171	0.1491		
mode	liq	bi	g	mu	ksp	pl	ru	q	
	0.2171	0.1491	0.1329	0.005400	0	0.2741	0.003625	0.2178	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
13.40	845.5	0.1046	0.2928	0.4655	0.03111	0.001963	0.6806		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.5571	0.2836	0.3441	0.1342	0.1697	0.1536		
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
		0.6104	0.08525	0.03429	0.3202	0.9047	0.05108		
		na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi		
		0.2325	0.01705	0.3488	0.05243	0.2132	0.1465		
mode	liq	bi	g	mu	ksp	pl	ru	q	
	0.2132	0.1465	0.1356	0.009726	0	0.2727	0.003675	0.2187	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
13.60	845.8	0.1026	0.2920	0.4691	0.03145	0.001979	0.6787		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.5606	0.2806	0.3382	0.1317	0.1703	0.1566		
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
		0.6091	0.09236	0.03610	0.3172	0.9009	0.05075		
		na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi		
		0.2338	0.01698	0.3434	0.05306	0.2093	0.1438		
mode	liq	bi	g	mu	ksp	pl	ru	q	
	0.2093	0.1438	0.1384	0.01415	0	0.2710	0.003728	0.2196	

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80    846.1  0.1006 0.2913 0.4731 0.03175 0.001992 0.6766
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5640 0.2774 0.3325 0.1289 0.1709 0.1595
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.6076 0.09991 0.03797 0.3140 0.8971 0.05045
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.2353 0.01689 0.3375 0.05376 0.2055 0.1410

mode     liq  bi   g   mu  ksp  pl  ru   q
        0.2055 0.1410 0.1414 0.01867   0 0.2691 0.003783 0.2204

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00    846.4  0.09859 0.2905 0.4776 0.03201 0.002003 0.6743
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5674 0.2741 0.3270 0.1257 0.1715 0.1623
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.6059 0.1078 0.03985 0.3105 0.8932 0.05018
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.2371 0.01680 0.3311 0.05454 0.2018 0.1381

mode     liq  bi   g   mu  ksp  pl  ru   q
        0.2018 0.1381 0.1447 0.02331   0 0.2670 0.003840 0.2213

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20    846.7  0.09661 0.2898 0.4827 0.03223 0.002012 0.6719
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5706 0.2707 0.3217 0.1222 0.1722 0.1651
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.6041 0.1161 0.04170 0.3069 0.8892 0.04994
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.2391 0.01671 0.3243 0.05542 0.1982 0.1350

mode     liq  bi   g   mu  ksp  pl  ru   q
        0.1982 0.1350 0.1481 0.02805   0 0.2647 0.003899 0.2220

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40    847.0  0.09464 0.2892 0.4882 0.03240 0.002020 0.6694
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5738 0.2673 0.3166 0.1184 0.1729 0.1677
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.6021 0.1245 0.04350 0.3032 0.8851 0.04973
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.2414 0.01661 0.3169 0.05640 0.1947 0.1319

mode     liq  bi   g   mu  ksp  pl  ru   q
        0.1947 0.1319 0.1517 0.03288   0 0.2621 0.003962 0.2228

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```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60    847.3  0.09269 0.2886 0.4943 0.03252 0.002027 0.6667

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5769 0.2638 0.3116 0.1145 0.1736 0.1703
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5999 0.1330 0.04519 0.2994 0.8809 0.04954
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2440 0.01651 0.3091 0.05748 0.1913 0.1286

mode liq bi g mu ksp pl ru q
 0.1913 0.1286 0.1554 0.03779 0 0.2594 0.004026 0.2235

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 847.7 0.09076 0.2880 0.5009 0.03260 0.002032 0.6640
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5798 0.2603 0.3068 0.1105 0.1743 0.1727
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5976 0.1415 0.04675 0.2956 0.8767 0.04938
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2468 0.01640 0.3008 0.05867 0.1879 0.1253

mode liq bi g mu ksp pl ru q
 0.1879 0.1253 0.1593 0.04275 0 0.2564 0.004092 0.2241

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 848.1 0.08885 0.2875 0.5080 0.03263 0.002037 0.6613
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5827 0.2568 0.3021 0.1064 0.1750 0.1749
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5952 0.1498 0.04816 0.2917 0.8725 0.04924
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2498 0.01628 0.2922 0.05996 0.1847 0.1219

mode liq bi g mu ksp pl ru q
 0.1847 0.1219 0.1633 0.04774 0 0.2534 0.004160 0.2248

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 848.5 0.08696 0.2871 0.5156 0.03262 0.002041 0.6585
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5855 0.2533 0.2974 0.1023 0.1757 0.1771
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5926 0.1580 0.04941 0.2879 0.8682 0.04911
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2530 0.01616 0.2832 0.06136 0.1816 0.1185

mode liq bi g mu ksp pl ru q
 0.1816 0.1185 0.1674 0.05273 0 0.2502 0.004229 0.2253

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 848.9 0.08510 0.2868 0.5237 0.03256 0.002046 0.6558
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5883 0.2499 0.2928 0.09835 0.1765 0.1791

x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
0.5899	0.1659	0.05050	0.2840	0.8638	0.04901
na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi
0.2565	0.01603	0.2739	0.06287	0.1785	0.1151

mode	liq	bi	g	mu	ksp	pl	ru	q
	0.1785	0.1151	0.1714	0.05771		0	0.2470	0.004299 0.2259

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.60	849.4	0.08327	0.2865	0.5322	0.03245	0.002050	0.6530
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5909	0.2466	0.2882	0.09446	0.1772	0.1810	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5872	0.1735	0.05142	0.2803	0.8594	0.04891	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.2602	0.01589	0.2644	0.06449	0.1756	0.1117	

mode	liq	bi	g	mu	ksp	pl	ru	q
	0.1756	0.1117	0.1755	0.06264		0	0.2437	0.004369 0.2264

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.80	849.9	0.08146	0.2863	0.5411	0.03229	0.002055	0.6504
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5934	0.2433	0.2836	0.09071	0.1779	0.1827	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5845	0.1808	0.05219	0.2767	0.8550	0.04883	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.2640	0.01575	0.2547	0.06621	0.1728	0.1083	

mode	liq	bi	g	mu	ksp	pl	ru	q
	0.1728	0.1083	0.1796	0.06752		0	0.2404	0.004440 0.2269

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	850.4	0.07968	0.2861	0.5504	0.03209	0.002060	0.6478
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5959	0.2401	0.2790	0.08713	0.1786	0.1844	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5817	0.1877	0.05281	0.2732	0.8505	0.04875	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.2680	0.01559	0.2449	0.06803	0.1701	0.1050	

mode	liq	bi	g	mu	ksp	pl	ru	q
	0.1701	0.1050	0.1836	0.07231		0	0.2372	0.004511 0.2274

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	851.0	0.07793	0.2860	0.5600	0.03186	0.002066	0.6453
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5982	0.2371	0.2744	0.08372	0.1793	0.1859	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5789	0.1942	0.05331	0.2698	0.8460	0.04867	

na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2721 0.01542 0.2350 0.06995 0.1675 0.1017

mode liq bi g mu ksp pl ru q
0.1675 0.1017 0.1875 0.07702 0 0.2339 0.004580 0.2278

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 851.5 0.07621 0.2860 0.5698 0.03158 0.002073 0.6430
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6005 0.2341 0.2698 0.08050 0.1800 0.1873
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5761 0.2002 0.05370 0.2665 0.8415 0.04859
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2763 0.01525 0.2252 0.07196 0.1650 0.09842

mode liq bi g mu ksp pl ru q
0.1650 0.09842 0.1914 0.08162 0 0.2307 0.004650 0.2282

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 852.2 0.07453 0.2861 0.5799 0.03126 0.002082 0.6407
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6027 0.2313 0.2652 0.07747 0.1807 0.1886
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5734 0.2059 0.05399 0.2634 0.8369 0.04850
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2806 0.01506 0.2154 0.07405 0.1626 0.09524

mode liq bi g mu ksp pl ru q
0.1626 0.09524 0.1952 0.08609 0 0.2276 0.004718 0.2286

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 852.8 0.07288 0.2862 0.5902 0.03092 0.002091 0.6386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6048 0.2286 0.2606 0.07463 0.1814 0.1898
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5707 0.2112 0.05421 0.2605 0.8323 0.04840
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2850 0.01486 0.2057 0.07621 0.1604 0.09214

mode liq bi g mu ksp pl ru q
0.1604 0.09214 0.1988 0.09044 0 0.2246 0.004785 0.2289

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 853.5 0.07127 0.2864 0.6006 0.03054 0.002102 0.6366
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6068 0.2260 0.2560 0.07196 0.1820 0.1910
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5681 0.2161 0.05435 0.2577 0.8276 0.04830
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2894 0.01465 0.1962 0.07844 0.1582 0.08912

mode	liq	bi	g	mu	ksp	pl	ru	q
	0.1582	0.08912	0.2023	0.09465		0	0.2216	0.004851 0.2292

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	854.3	0.06970	0.2867	0.6111	0.03014	0.002114	0.6347
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6087	0.2236	0.2515	0.06947	0.1827	0.1921	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5655	0.2206	0.05444	0.2551	0.8229	0.04818	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.2938	0.01443	0.1869	0.08072	0.1562	0.08618	

mode	liq	bi	g	mu	ksp	pl	ru	q
	0.1562	0.08618	0.2057	0.09872		0	0.2188	0.004915 0.2295

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	855.0	0.06816	0.2870	0.6215	0.02971	0.002128	0.6330
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6105	0.2213	0.2469	0.06715	0.1833	0.1931	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5630	0.2247	0.05448	0.2526	0.8182	0.04805	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.2982	0.01420	0.1778	0.08304	0.1543	0.08333	

mode	liq	bi	g	mu	ksp	pl	ru	q
	0.1543	0.08333	0.2089	0.1027		0	0.2161	0.004978 0.2297

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.60	855.8	0.06667	0.2874	0.6320	0.02927	0.002143	0.6313
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6122	0.2191	0.2424	0.06498	0.1840	0.1940	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5605	0.2286	0.05449	0.2502	0.8134	0.04791	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.3026	0.01395	0.1690	0.08540	0.1525	0.08056	

mode	liq	bi	g	mu	ksp	pl	ru	q
	0.1525	0.08056	0.2120	0.1064		0	0.2135	0.005040 0.2299

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.80	856.7	0.06521	0.2879	0.6423	0.02881	0.002160	0.6299
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6138	0.2170	0.2379	0.06295	0.1846	0.1949	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5582	0.2320	0.05447	0.2480	0.8086	0.04774	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.3069	0.01370	0.1606	0.08777	0.1508	0.07788	

mode	liq	bi	g	mu	ksp	pl	ru	q
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0.1508 0.07788 0.2150 0.1101 0 0.2111 0.005099 0.2301

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 857.5 0.06380 0.2884 0.6525 0.02834 0.002179 0.6285
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6153 0.2150 0.2335 0.06105 0.1852 0.1958
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5559 0.2352 0.05443 0.2460 0.8037 0.04756
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3111 0.01345 0.1524 0.09015 0.1492 0.07528

mode liq bi g mu ksp pl ru q
0.1492 0.07528 0.2178 0.1136 0 0.2087 0.005158 0.2303

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 858.4 0.06242 0.2889 0.6626 0.02787 0.002200 0.6273
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6167 0.2132 0.2291 0.05927 0.1858 0.1966
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5536 0.2381 0.05437 0.2441 0.7988 0.04737
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3153 0.01318 0.1446 0.09252 0.1477 0.07276

mode liq bi g mu ksp pl ru q
0.1477 0.07276 0.2205 0.1169 0 0.2065 0.005214 0.2304

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 859.4 0.06109 0.2895 0.6724 0.02738 0.002221 0.6262
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6180 0.2114 0.2247 0.05760 0.1864 0.1973
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5515 0.2407 0.05430 0.2423 0.7939 0.04715
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3194 0.01291 0.1372 0.09489 0.1463 0.07032

mode liq bi g mu ksp pl ru q
0.1463 0.07032 0.2231 0.1202 0 0.2044 0.005269 0.2305

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 860.3 0.05980 0.2901 0.6821 0.02690 0.002245 0.6252
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6193 0.2097 0.2204 0.05603 0.1870 0.1980
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5494 0.2431 0.05423 0.2406 0.7889 0.04692
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3234 0.01263 0.1301 0.09722 0.1450 0.06794

mode liq bi g mu ksp pl ru q
0.1450 0.06794 0.2255 0.1233 0 0.2024 0.005323 0.2305

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80    861.3 0.05855 0.2908 0.6915 0.02642 0.002270 0.6243
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6204 0.2082 0.2162 0.05456 0.1876 0.1987
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5474 0.2452 0.05414 0.2390 0.7838 0.04668
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.3272 0.01234 0.1233 0.09952 0.1438 0.06564

mode     liq  bi   g   mu   ksp  pl   ru   q
        0.1438 0.06564 0.2278 0.1263   0 0.2006 0.005375 0.2306

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00    862.3 0.05733 0.2915 0.7006 0.02594 0.002297 0.6235
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6215 0.2067 0.2120 0.05316 0.1882 0.1994
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5455 0.2472 0.05406 0.2376 0.7787 0.04641
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.3310 0.01205 0.1169 0.1018 0.1426 0.06341

mode     liq  bi   g   mu   ksp  pl   ru   q
        0.1426 0.06341 0.2300 0.1292   0 0.1988 0.005426 0.2306

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20    863.4 0.05616 0.2922 0.7095 0.02546 0.002326 0.6228
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6225 0.2053 0.2079 0.05184 0.1888 0.2000
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5436 0.2489 0.05397 0.2362 0.7736 0.04614
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.3346 0.01176 0.1109 0.1040 0.1415 0.06124

mode     liq  bi   g   mu   ksp  pl   ru   q
        0.1415 0.06124 0.2321 0.1320   0 0.1971 0.005476 0.2306

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40    864.5 0.05503 0.2929 0.7182 0.02499 0.002356 0.6222
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6234 0.2039 0.2038 0.05059 0.1894 0.2006
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5418 0.2505 0.05388 0.2349 0.7684 0.04585
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.3380 0.01147 0.1051 0.1061 0.1405 0.05912

mode     liq  bi   g   mu   ksp  pl   ru   q
        0.1405 0.05912 0.2340 0.1347   0 0.1956 0.005524 0.2305

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60    865.6 0.05393 0.2937 0.7265 0.02452 0.002387 0.6216

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6243 0.2027 0.1998 0.04939 0.1900 0.2011
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5400 0.2519 0.05380 0.2338 0.7632 0.04554
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.3414 0.01118 0.09974 0.1082 0.1396 0.05706

mode liq bi g mu ksp pl ru q
 0.1396 0.05706 0.2359 0.1373 0 0.1941 0.005572 0.2305

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.80 866.7 0.05287 0.2945 0.7346 0.02406 0.002421 0.6212
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6250 0.2015 0.1958 0.04825 0.1906 0.2016
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5383 0.2532 0.05371 0.2326 0.7580 0.04523
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.3445 0.01088 0.09463 0.1103 0.1387 0.05504

mode liq bi g mu ksp pl ru q
 0.1387 0.05504 0.2377 0.1398 0 0.1927 0.005618 0.2304

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 20.00 867.9 0.05184 0.2953 0.7425 0.02362 0.002456 0.6208
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6257 0.2003 0.1919 0.04716 0.1912 0.2021
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5366 0.2544 0.05363 0.2316 0.7527 0.04490
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.3476 0.01059 0.08982 0.1122 0.1379 0.05308

mode liq bi g mu ksp pl ru q
 0.1379 0.05308 0.2394 0.1423 0 0.1914 0.005664 0.2303

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, (q)

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.95 857.9 0.06434 0.2884 0.6491 0.02865 0.002168 0.6278
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6143 0.2144 0.2355 0.06197 0.1853 0.1944
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5543 0.2328 0.05426 0.2454 0.8057 0.04768
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3101 0.01359 0.1552 0.08953 0.4024 3.432e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1512	0.07448	0.2183	0.1113	0.002021	0.2081		0	0.005176 0.2294

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.00	859.1	0.06432	0.2889	0.6502	0.02884	0.002162	0.6256
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6137	0.2120	0.2359	0.06227	0.1859	0.1926	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5500	0.2308	0.05394	0.2431	0.8059	0.04776	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3111	0.01366	0.1545	0.09009	0.4001	3.365e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1536	0.07136	0.2211	0.1098	0.005496	0.2054		0	0.005246 0.2281

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.05	860.2	0.06430	0.2893	0.6513	0.02904	0.002155	0.6234
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6130	0.2097	0.2363	0.06257	0.1865	0.1909	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5457	0.2288	0.05363	0.2408	0.8060	0.04784	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3122	0.01373	0.1538	0.09066	0.3979	3.301e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1559	0.06819	0.2239	0.1082	0.009032	0.2027		0	0.005318 0.2267

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.10	861.4	0.06427	0.2898	0.6525	0.02923	0.002148	0.6213
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6124	0.2073	0.2366	0.06287	0.1871	0.1891	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5415	0.2268	0.05333	0.2385	0.8061	0.04791	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3133	0.01380	0.1530	0.09123	0.3956	3.238e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1583	0.06500	0.2267	0.1067	0.01263	0.1999		0	0.005391 0.2254

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.15	862.6	0.06424	0.2902	0.6536	0.02942	0.002141	0.6191
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6118	0.2050	0.2370	0.06317	0.1877	0.1874	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5372	0.2248	0.05304	0.2362	0.8062	0.04799	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.3143	0.01386	0.1523	0.09179	0.3933	3.176e-5	

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
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0.1608 0.06176 0.2296 0.1051 0.01629 0.1971 0 0.005466 0.2240

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 863.7 0.06421 0.2906 0.6548 0.02961 0.002133 0.6169
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6112 0.2027 0.2373 0.06347 0.1883 0.1857
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5329 0.2229 0.05276 0.2339 0.8063 0.04806
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3154 0.01393 0.1516 0.09237 0.3910 3.117e-5

mode liq bi g mu ksp pl ilm ru q
0.1632 0.05848 0.2324 0.1035 0.02001 0.1942 0 0.005543 0.2226

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.25 864.9 0.06418 0.2911 0.6560 0.02980 0.002125 0.6147
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6106 0.2004 0.2377 0.06376 0.1888 0.1840
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5286 0.2210 0.05249 0.2317 0.8064 0.04813
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3165 0.01400 0.1508 0.09294 0.3887 3.059e-5

mode liq bi g mu ksp pl ilm ru q
0.1657 0.05517 0.2353 0.1019 0.02380 0.1912 0 0.005621 0.2212

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.30 866.0 0.06414 0.2915 0.6572 0.02999 0.002116 0.6125
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6100 0.1982 0.2380 0.06406 0.1894 0.1822
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5244 0.2192 0.05223 0.2294 0.8064 0.04821
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3176 0.01406 0.1501 0.09352 0.3865 3.002e-5

mode liq bi g mu ksp pl ilm ru q
0.1682 0.05182 0.2383 0.1003 0.02766 0.1883 0 0.005700 0.2197

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.35 867.1 0.06410 0.2919 0.6584 0.03017 0.002107 0.6103
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6094 0.1959 0.2383 0.06435 0.1900 0.1805
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5201 0.2173 0.05197 0.2272 0.8065 0.04828
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3186 0.01412 0.1493 0.09410 0.3842 2.947e-5

mode liq bi g mu ksp pl ilm ru q
0.1707 0.04843 0.2413 0.09874 0.03158 0.1852 0 0.005781 0.2183

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40    868.3 0.06405 0.2924 0.6597 0.03035 0.002098 0.6081
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6088 0.1937 0.2385 0.06464 0.1906 0.1788
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5159 0.2155 0.05173 0.2250 0.8066 0.04835
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3197 0.01418 0.1485 0.09468 0.3819 2.894e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1733 0.04500 0.2443 0.09712 0.03556 0.1821 0 0.005864 0.2168

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.45    869.4 0.06401 0.2928 0.6610 0.03052 0.002089 0.6058
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6083 0.1915 0.2388 0.06493 0.1911 0.1772
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5116 0.2137 0.05149 0.2228 0.8066 0.04841
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3208 0.01425 0.1478 0.09526 0.3796 2.842e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1759 0.04154 0.2473 0.09550 0.03962 0.1789 0 0.005948 0.2154

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50    870.5 0.06396 0.2932 0.6623 0.03070 0.002079 0.6036
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6077 0.1894 0.2390 0.06522 0.1917 0.1755
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5074 0.2119 0.05127 0.2206 0.8066 0.04848
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3219 0.01431 0.1470 0.09585 0.3774 2.791e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1784 0.03803 0.2503 0.09386 0.04374 0.1757 0 0.006033 0.2139

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.55    871.6 0.06390 0.2936 0.6636 0.03087 0.002069 0.6014
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6071 0.1872 0.2393 0.06550 0.1922 0.1738
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5032 0.2102 0.05105 0.2185 0.8067 0.04855
        na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
        0.3229 0.01436 0.1462 0.09644 0.3751 2.742e-5

mode  liq  bi  g  mu  ksp  pl  ilm  ru  q
      0.1811 0.03449 0.2534 0.09222 0.04793 0.1724 0 0.006120 0.2124

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60    872.6 0.06385 0.2941 0.6650 0.03104 0.002059 0.5992

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6066 0.1851 0.2395 0.06578 0.1928 0.1722
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4990 0.2084 0.05084 0.2163 0.8067 0.04861
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3240 0.01442 0.1454 0.09704 0.3728 2.694e-5

mode liq bi g mu ksp pl ilm ru q
0.1837 0.03092 0.2565 0.09056 0.05220 0.1690 0 0.006209 0.2108

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.65 873.7 0.06379 0.2945 0.6664 0.03120 0.002048 0.5970
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6061 0.1830 0.2397 0.06606 0.1933 0.1706
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4948 0.2067 0.05063 0.2142 0.8067 0.04868
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3251 0.01448 0.1446 0.09763 0.3706 2.648e-5

mode liq bi g mu ksp pl ilm ru q
0.1864 0.02730 0.2597 0.08890 0.05654 0.1656 0 0.006299 0.2093

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.70 874.8 0.06372 0.2949 0.6678 0.03136 0.002038 0.5947
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6055 0.1809 0.2399 0.06634 0.1939 0.1689
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4906 0.2051 0.05044 0.2121 0.8067 0.04874
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3262 0.01453 0.1437 0.09823 0.3683 2.602e-5

mode liq bi g mu ksp pl ilm ru q
0.1890 0.02365 0.2629 0.08722 0.06095 0.1621 0 0.006390 0.2078

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.75 875.8 0.06366 0.2953 0.6692 0.03152 0.002027 0.5925
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6050 0.1789 0.2400 0.06662 0.1944 0.1673
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.4864 0.2034 0.05025 0.2100 0.8067 0.04880
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3273 0.01459 0.1429 0.09884 0.3661 2.558e-5

mode liq bi g mu ksp pl ilm ru q
0.1917 0.01996 0.2661 0.08553 0.06543 0.1586 0 0.006484 0.2062

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 876.9 0.06359 0.2957 0.6707 0.03168 0.002016 0.5903
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6045 0.1768 0.2402 0.06689 0.1949 0.1657

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4823 0.2018 0.05007 0.2079 0.8066 0.04886
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3284 0.01464 0.1421 0.09944 0.3639 2.515e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1945	0.01624	0.2693	0.08384	0.06999	0.1549		0	0.006578 0.2047

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.85 877.9 0.06351 0.2961 0.6722 0.03183 0.002005 0.5881
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6040 0.1748 0.2403 0.06716 0.1954 0.1642
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4782 0.2002 0.04989 0.2059 0.8066 0.04892
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3295 0.01469 0.1412 0.1001 0.3617 2.473e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.1972	0.01248	0.2726	0.08213	0.07462	0.1513		0	0.006674 0.2031

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.90 878.9 0.06343 0.2966 0.6737 0.03197 0.001993 0.5858
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6035 0.1728 0.2404 0.06743 0.1960 0.1626
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4741 0.1986 0.04972 0.2038 0.8065 0.04898
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3306 0.01474 0.1404 0.1007 0.3594 2.432e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2000	0.008680	0.2759	0.08041	0.07934	0.1475		0	0.006772 0.2015

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.95 879.9 0.06335 0.2970 0.6752 0.03211 0.001982 0.5836
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6030 0.1709 0.2405 0.06770 0.1965 0.1611
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4700 0.1970 0.04956 0.2018 0.8065 0.04903
 na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
 0.3317 0.01479 0.1395 0.1013 0.3572 2.393e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	q
	0.2028	0.004847	0.2792	0.07868	0.08413	0.1437		0	0.006871 0.1999

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.00 880.9 0.06327 0.2974 0.6768 0.03225 0.001970 0.5814
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6026 0.1689 0.2406 0.06796 0.1970 0.1595
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.4659 0.1955 0.04941 0.1999 0.8064 0.04909

na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3328 0.01483 0.1386 0.1019 0.3551 2.354e-5

mode liq bi g mu ksp pl ilm ru q
0.20560.0009798 0.2825 0.07694 0.08900 0.1398 0 0.006971 0.1982

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 857.7 0.06565 0.2880 0.6390 0.02934 0.002148 0.6275
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6126 0.2148 0.2403 0.06200 0.1852 0.1928
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5538 0.2283 0.05225 0.2457 0.8098 0.04777
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3060 0.01388 0.1632 0.08733 0.4036 3.464e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1543 0.07516 0.2168 0.1067 0.004200 0.20890.0002984 0.005112 0 0.2285

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 860.0 0.06467 0.2891 0.6483 0.02921 0.002150 0.6236
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6126 0.2101 0.2376 0.06254 0.1864 0.1907
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5462 0.2278 0.05311 0.2412 0.8071 0.04786
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3109 0.01380 0.1561 0.08995 0.3985 3.317e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1565 0.06880 0.2231 0.1071 0.009159 0.2033 8.407e-5 0.005291 0 0.2266

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.08 861.0 0.06428 0.2896 0.6520 0.02916 0.002151 0.6221
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6126 0.2082 0.2365 0.06276 0.1869 0.1898
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5430 0.2275 0.05344 0.2393 0.8060 0.04789
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3129 0.01377 0.1533 0.09101 0.3964 3.261e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1574 0.06619 0.2256 0.1072 0.01128 0.2009 0 0.005364 0 0.2259
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 857.7 0.06556 0.2882 0.6407 0.02914 0.002150 0.6280
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6127 0.2150 0.2395 0.06378 0.1850 0.1929
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5543 0.2291 0.05414 0.2462 0.8100 0.04787
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3069 0.01384 0.1620 0.08772 0.1536 0.07533

mode liq bi g mu ksp pl ru ky q
0.1536 0.07533 0.2171 0.1076 0.003497 0.2090 0.005156 0 0.2287

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 860.0 0.06465 0.2892 0.6487 0.02916 0.002151 0.6238
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6127 0.2101 0.2374 0.06304 0.1863 0.1907
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5463 0.2280 0.05364 0.2413 0.8072 0.04788
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3111 0.01379 0.1558 0.09006 0.1563 0.06885

mode liq bi g mu ksp pl ru ky q
0.1563 0.06885 0.2232 0.1074 0.008956 0.2033 0.005303 0 0.2267

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 862.4 0.06375 0.2902 0.6569 0.02916 0.002151 0.6196
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6126 0.2054 0.2352 0.06236 0.1876 0.1885
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5383 0.2268 0.05314 0.2365 0.8044 0.04789
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3154 0.01374 0.1498 0.09242 0.1591 0.06230

mode liq bi g mu ksp pl ru ky q

0.1591 0.06230 0.2293 0.1070 0.01479 0.1974 0.005454 0 0.2247

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 864.7 0.06286 0.2913 0.6651 0.02914 0.002151 0.6155
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6125 0.2007 0.2332 0.06172 0.1889 0.1862
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5303 0.2253 0.05265 0.2319 0.8016 0.04789
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3197 0.01367 0.1439 0.09480 0.1621 0.05568

mode liq bi g mu ksp pl ru ky q
0.1621 0.05568 0.2354 0.1063 0.02102 0.1913 0.005608 0 0.2226

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 867.1 0.06198 0.2924 0.6733 0.02911 0.002151 0.6113
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6124 0.1962 0.2311 0.06113 0.1902 0.1838
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5222 0.2238 0.05215 0.2273 0.7988 0.04788
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3239 0.01360 0.1383 0.09720 0.1653 0.04897

mode liq bi g mu ksp pl ru ky q
0.1653 0.04897 0.2416 0.1055 0.02768 0.1849 0.005768 0 0.2204

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 869.5 0.06111 0.2935 0.6816 0.02907 0.002150 0.6072
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6122 0.1918 0.2290 0.06058 0.1915 0.1814
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5142 0.2220 0.05167 0.2229 0.7960 0.04787
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3282 0.01353 0.1329 0.09962 0.1686 0.04216

mode liq bi g mu ksp pl ru ky q
0.1686 0.04216 0.2478 0.1044 0.03480 0.1781 0.005931 0 0.2182

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 871.9 0.06026 0.2947 0.6899 0.02901 0.002149 0.6031
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6120 0.1875 0.2270 0.06008 0.1927 0.1790
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5062 0.2202 0.05119 0.2185 0.7932 0.04784
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3324 0.01345 0.1276 0.1020 0.1721 0.03523

mode liq bi g mu ksp pl ru ky q
0.1721 0.03523 0.2541 0.1031 0.04243 0.1710 0.006101 0 0.2159

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20    874.3 0.05942 0.2959 0.6983 0.02894 0.002147 0.5990
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6117 0.1832 0.2250 0.05961 0.1940 0.1765
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.4981 0.2181 0.05071 0.2142 0.7904 0.04782
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.3365 0.01336 0.1226 0.1045 0.1759 0.02818

mode  liq  bi  g  mu  ksp  pl  ru  ky  q
      0.1759 0.02818 0.2605 0.1015 0.05058 0.1636 0.006275 0 0.2135

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-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40    876.7 0.05860 0.2971 0.7066 0.02886 0.002144 0.5949
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6114 0.1791 0.2230 0.05918 0.1953 0.1740
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.4901 0.2160 0.05024 0.2100 0.7876 0.04778
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.3407 0.01327 0.1177 0.1069 0.1798 0.02098

mode  liq  bi  g  mu  ksp  pl  ru  ky  q
      0.1798 0.02098 0.2669 0.09971 0.05932 0.1557 0.006456 0 0.2111

```

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-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60    879.1 0.05778 0.2984 0.7149 0.02877 0.002140 0.5908
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6110 0.1750 0.2210 0.05878 0.1965 0.1714
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.4820 0.2137 0.04978 0.2059 0.7847 0.04774
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.3448 0.01318 0.1130 0.1094 0.1840 0.01363

mode  liq  bi  g  mu  ksp  pl  ru  ky  q
      0.1840 0.01363 0.2735 0.09762 0.06867 0.1473 0.006643 0 0.2085

```

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-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.80    881.5 0.05698 0.2998 0.7232 0.02866 0.002135 0.5867
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.6107 0.1710 0.2191 0.05842 0.1977 0.1688
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.4739 0.2113 0.04932 0.2018 0.7819 0.04769
        na(ksp) ca(ksp) ca(pl) k(pl) liq bi
        0.3489 0.01307 0.1085 0.1118 0.1885 0.006101

mode  liq  bi  g  mu  ksp  pl  ru  ky  q
      0.1885 0.006101 0.2803 0.09527 0.07868 0.1385 0.006837 0 0.2059

```

calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 821.7 0.08350 0.2751 0.5040 0.02870 0.002171 0.6971
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6071 0.3158 0.2967 0.04956 0.1650 0.2148
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6776 0.1963 0.02959 0.3390 0.8515 0.04492
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2293 0.01401 0.3065 0.05209 0.50500 0.001084

mode liq bi g mu ksp pl ilm ru ky q
0.1744 0.1844 0.1084 0 0.001119 0.2635 0.004588 0.002031 0.02154 0.2400

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 824.0 0.08236 0.2756 0.5095 0.02905 0.002159 0.6919
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6075 0.3072 0.2922 0.05065 0.1664 0.2144
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6696 0.2018 0.03161 0.3313 0.8490 0.04504
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2329 0.01408 0.2984 0.05356 0.4969 9.541e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1772 0.1772 0.1164 0 0.005783 0.2571 0.004254 0.002241 0.02210 0.2378

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 826.3 0.08121 0.2761 0.5155 0.02935 0.002147 0.6868
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6079 0.2989 0.2879 0.05170 0.1678 0.2138
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6616 0.2069 0.03362 0.3239 0.8465 0.04519
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2368 0.01413 0.2899 0.05513 0.4890 8.515e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1799 0.1702 0.1242 0 0.01046 0.2506 0.003915 0.002448 0.02269 0.2356

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 828.6 0.08007 0.2767 0.5220 0.02961 0.002136 0.6818
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6083 0.2909 0.2837 0.05270 0.1692 0.2131
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6535 0.2116 0.03563 0.3167 0.8439 0.04536
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2409 0.01418 0.2811 0.05681 0.4813 7.685e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1825	0.1634	0.1320		0	0.01517	0.2440	0.003572	0.002652	0.02329	0.2335

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 830.8 0.07892 0.2773 0.5290 0.02983 0.002126 0.6768
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6087 0.2833 0.2797 0.05367 0.1705 0.2121
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6455 0.2160 0.03759 0.3098 0.8414 0.04554
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2452 0.01422 0.2721 0.05859 0.4739 7.001e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1850	0.1567	0.1396		0	0.01992	0.2373	0.003229	0.002852	0.02389	0.2315

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 833.1 0.07777 0.2780 0.5364 0.03000 0.002118 0.6720
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6092 0.2760 0.2758 0.05459 0.1719 0.2110
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6375 0.2199 0.03950 0.3031 0.8388 0.04573
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2496 0.01425 0.2629 0.06048 0.4667 6.429e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1875	0.1501	0.1471		0	0.02473	0.2306	0.002887	0.003049	0.02448	0.2296

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 835.3 0.07663 0.2786 0.5442 0.03013 0.002111 0.6673
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6096 0.2691 0.2720 0.05547 0.1732 0.2097
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6296 0.2233 0.04134 0.2967 0.8362 0.04593
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2542 0.01427 0.2536 0.06247 0.4597 5.943e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q	
	0.1899	0.1437	0.1544		0	0.02961	0.2239	0.002548	0.003242	0.02506	0.2277

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 837.5 0.07550 0.2794 0.5524 0.03023 0.002106 0.6627
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6100 0.2624 0.2684 0.05631 0.1744 0.2083
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6217 0.2263 0.04310 0.2905 0.8337 0.04613
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)

0.2590 0.01428 0.2442 0.06455 0.4530 5.527e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1922	0.1373	0.1616		0	0.03457	0.2171	0.002217	0.003432	0.02560 0.2259

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 839.8 0.07437 0.2801 0.5609 0.03028 0.002102 0.6582
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6104 0.2560 0.2649 0.05711 0.1757 0.2068
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6138 0.2288 0.04477 0.2845 0.8311 0.04633
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2638 0.01428 0.2348 0.06671 0.4465 5.167e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1945	0.1311	0.1687		0	0.03962	0.2103	0.001893	0.003618	0.02610 0.2242

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 842.0 0.07326 0.2809 0.5696 0.03031 0.002099 0.6538
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6107 0.2499 0.2615 0.05787 0.1770 0.2052
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6060 0.2309 0.04634 0.2788 0.8285 0.04652
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2688 0.01427 0.2255 0.06897 0.4402 4.851e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1968	0.1249	0.1756		0	0.04478	0.2035	0.001579	0.003801	0.02656 0.2225

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 844.2 0.07216 0.2818 0.5786 0.03030 0.002098 0.6495
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6111 0.2440 0.2582 0.05860 0.1782 0.2035
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5982 0.2326 0.04781 0.2733 0.8258 0.04671
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2738 0.01425 0.2164 0.07129 0.4341 4.573e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.1990	0.1188	0.1824		0	0.05006	0.1967	0.001277	0.003980	0.02697 0.2208

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 846.5 0.07106 0.2826 0.5877 0.03026 0.002098 0.6453
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6114 0.2384 0.2550 0.05929 0.1794 0.2017
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5905 0.2338 0.04917 0.2680 0.8232 0.04689
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2788 0.01422 0.2074 0.07369 0.4282 4.325e-5

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2012	0.1128	0.1891		0	0.05546	0.18990	0.009869	0.004158	0.02733 0.2191

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.00    848.7  0.06999  0.2836  0.5970  0.03020 0.002099 0.6412
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6117  0.2329  0.2519  0.05995  0.1806  0.1999
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5828  0.2346  0.05042  0.2628  0.8206  0.04706
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.2839  0.01418  0.1986  0.07615  0.4226  4.103e-5

```

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2035	0.1067	0.1956		0	0.06101	0.18300	0.007099	0.004332	0.02763 0.2175

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.20    851.0  0.06893  0.2845  0.6064  0.03012 0.002101 0.6372
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6119  0.2277  0.2488  0.06057  0.1818  0.1979
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5751  0.2351  0.05157  0.2579  0.8179  0.04721
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.2890  0.01414  0.1901  0.07866  0.4170  3.904e-5

```

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2057	0.1007	0.2021		0	0.06671	0.17620	0.004463	0.004505	0.02787 0.2158

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.40    853.3  0.06788  0.2855  0.6159  0.03002 0.002104 0.6333
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6121  0.2227  0.2459  0.06117  0.1830  0.1960
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)
        0.5675  0.2352  0.05263  0.2530  0.8152  0.04736
        na(ksp) ca(ksp) ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.2941  0.01408  0.1818  0.08122  0.4117  3.722e-5

```

mode	liq	bi	g	mu	ksp	pl	ilm	ru	ky	q
	0.2079	0.09467	0.2084		0	0.07258	0.16930	0.001963	0.004677	0.02804 0.2142

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.57    855.1  0.06703  0.2864  0.6238  0.02992 0.002107 0.6301
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6123  0.2186  0.2435  0.06165  0.1840  0.1943
        x(g)   z(g)   f(g)   fe(mu)  y(mu)  na(mu)

```

0.5612 0.2351 0.05342 0.2492 0.8130 0.04746
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2983 0.01403 0.1752 0.08337 0.4073 3.584e-5

mode liq bi g mu ksp pl ilm ru ky q
0.2098 0.08967 0.2136 0 0.07757 0.1636 0 0.004818 0.02814 0.2128
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====

phases : liq, bi, g, mu, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 855.5 0.06684 0.2866 0.6258 0.02987 0.002110 0.6295
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6123 0.2179 0.2430 0.06172 0.1842 0.1940
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5600 0.2346 0.05342 0.2485 0.8126 0.04750
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.2993 0.01402 0.1736 0.08389 0.4066 3.561e-5

mode liq bi g mu ksp pl ilm ru ky q
0.2061 0.08812 0.2144 0.007423 0.07313 0.1660 0 0.004853 0.02618 0.2138

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 857.8 0.06575 0.2878 0.6369 0.02957 0.002128 0.6265
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6125 0.2138 0.2403 0.06216 0.1853 0.1923
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5530 0.2316 0.05342 0.2447 0.8099 0.04768
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3050 0.01392 0.1648 0.08686 0.4024 3.432e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1854 0.07910 0.2190 0.04962 0.04747 0.1802 0 0.005061 0.01508 0.2191

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 860.1 0.06470 0.2891 0.6477 0.02928 0.002145 0.6234
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6126 0.2098 0.2376 0.06259 0.1864 0.1905
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5459 0.2287 0.05343 0.2409 0.8072 0.04783
na(ksp) ca(ksp) ca(pl) k(pl) x(ilm) Q(ilm)
0.3106 0.01381 0.1565 0.08982 0.3982 3.309e-5

mode liq bi g mu ksp pl ilm ru ky q
0.1654 0.06995 0.2237 0.09078 0.02176 0.1948 0 0.005275 0.004300 0.2240

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
15.40	745.0	0.05353	0.2348	0.5676	0.017250	0.0005783	0.7111		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6929	0.3568	0.2808	0.05117	0.1343	0.2535			
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)			
	0.7694	0.4063	0.08793	0.2069	0.007333	0.2215			
	k(pl)	x(ilm)	Q(ilm)						
	0.04593	0.4135	5.234e-5						

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1205	0.2238	0.09923	0.001709	0.2455			0.003034	0.04007 0.2662

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
15.60	754.6	0.05448	0.2392	0.5723	0.018110	0.0006750	0.7074		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6864	0.3466	0.2771	0.05178	0.1382	0.2511			
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)			
	0.7570	0.3891	0.08310	0.2143	0.007748	0.2163			
	k(pl)	x(ilm)	Q(ilm)						
	0.04859	0.4178	5.277e-5						

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1256	0.2161	0.1064	0.005075	0.2409			0.003059	0.03982 0.2631

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
15.80	764.2	0.05547	0.2437	0.5772	0.019010	0.0007822	0.7031		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6799	0.3359	0.2734	0.05245	0.1423	0.2483			
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)			
	0.7436	0.3724	0.07870	0.2217	0.008189	0.2112			
	k(pl)	x(ilm)	Q(ilm)						
	0.05138	0.4213	5.273e-5						

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1312	0.2078	0.1139	0.008854	0.2360			0.003099	0.03944 0.2597

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
16.00	773.9	0.05650	0.2482	0.5821	0.019960	0.0008999	0.6982		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6732	0.3246	0.2697	0.05319	0.1464	0.2449			

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.7291 0.3561 0.07469 0.2294 0.008659 0.2064
 k(pl) x(ilm) Q(ilm)
 0.05431 0.4238 5.223e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1372	0.1988	0.1219	0.01309	0.2308			0.003158	0.03893 0.2562

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 783.7 0.05758 0.2528 0.5872 0.02096 0.001029 0.6926
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6663 0.3128 0.2662 0.05399 0.1507 0.2410
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.7133 0.3402 0.07105 0.2373 0.009163 0.2017
 k(pl) x(ilm) Q(ilm)
 0.05738 0.4255 5.127e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1436	0.1891	0.1304	0.01786	0.2251			0.003238	0.03828 0.2523

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.40 793.6 0.05873 0.2575 0.5923 0.02203 0.001168 0.6862
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6592 0.3005 0.2627 0.05487 0.1551 0.2365
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6962 0.3245 0.06772 0.2455 0.009708 0.1972
 k(pl) x(ilm) Q(ilm)
 0.06061 0.4262 4.989e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1506	0.1786	0.1396	0.02326	0.2190			0.003342	0.03747 0.2481

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.60 803.7 0.05995 0.2622 0.5975 0.02317 0.001317 0.6791
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6518 0.2876 0.2592 0.05581 0.1597 0.2312
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6775 0.3090 0.06469 0.2538 0.01030 0.1930
 k(pl) x(ilm) Q(ilm)
 0.06401 0.4259 4.813e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1583	0.1672	0.1494	0.02941	0.2122			0.003476	0.03647 0.2435

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.80 814.0 0.06125 0.2670 0.6028 0.02439 0.001475 0.6710
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6442 0.2743 0.2559 0.05684 0.1644 0.2252
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.6572 0.2937 0.06191 0.2625 0.01094 0.1889

k(pl) x(ilm) Q(ilm)
0.06760 0.4245 4.604e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.1668	0.1545	0.1601	0.03650	0.2046				0.003646	0.03528 0.2385

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 824.5 0.06263 0.2719 0.6082 0.02570 0.001640 0.6620
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6363 0.2604 0.2526 0.05796 0.1693 0.2184
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6350 0.2784 0.05938 0.2714 0.01165 0.1851
k(pl) x(ilm) Q(ilm)
0.07140 0.4220 4.366e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.1763	0.1404	0.1719	0.04475	0.1961				0.003860	0.03384 0.2329

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 835.2 0.06411 0.2770 0.6136 0.02710 0.001809 0.6519
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6280 0.2460 0.2493 0.05917 0.1743 0.2107
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6108 0.2631 0.05707 0.2806 0.01243 0.1815
k(pl) x(ilm) Q(ilm)
0.07542 0.4181 4.105e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.1868	0.1246	0.1850	0.05449	0.1862				0.004130	0.03213 0.2266

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 846.0 0.06568 0.2821 0.6192 0.02861 0.001975 0.6405
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6195 0.2312 0.2461 0.06048 0.1796 0.2021
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5845 0.2477 0.05498 0.2902 0.01328 0.1780
k(pl) x(ilm) Q(ilm)
0.07967 0.4129 3.825e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
0.1988	0.1065	0.1998	0.06613	0.1747				0.004470	0.03010 0.2195

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 857.1 0.06732 0.2873 0.6248 0.03020 0.002133 0.6277
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6107 0.2159 0.2430 0.06190 0.1849 0.1926
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5561 0.2324 0.05311 0.3000 0.01420 0.1746
k(pl) x(ilm) Q(ilm)
0.08417 0.4060 3.533e-5

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2123	0.08587	0.2167	0.08021	0.1610			0.004899	0.02769 0.2113

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.80    868.1  0.06900  0.2925  0.6307  0.03188 0.002272 0.6135
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6018  0.2004  0.2398  0.06343  0.1904  0.1824
        x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
        0.5256  0.2173  0.05147  0.3100  0.01519  0.1712
        k(pl)  x(ilm) Q(ilm)
        0.08890  0.3975 3.237e-5

```

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2276	0.06199	0.2361	0.09738	0.1446			0.005437	0.02484 0.2020

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.00    879.0  0.07066  0.2976  0.6368  0.03359 0.002383 0.5979
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5929  0.1849  0.2367  0.06505  0.1959  0.1714
        x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
        0.4935  0.2025  0.05007  0.3202  0.01624  0.1678
        k(pl)  x(ilm) Q(ilm)
        0.09384  0.3873 2.943e-5

```

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2450	0.03435	0.2585	0.1184	0.1249			0.006107	0.02149 0.1913

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.20    889.5  0.07224  0.3027  0.6434  0.03529 0.002458 0.5810
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5843  0.1696  0.2336  0.06674  0.2012  0.1602
        x(g)   z(g)   f(g)  na(ksp) ca(ksp) ca(pl)
        0.4604  0.1882  0.04893  0.3304  0.01732  0.1642
        k(pl)  x(ilm) Q(ilm)
        0.09897  0.3756 2.662e-5

```

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2646	0.002500	0.2843	0.1441	0.1010			0.006930	0.01759 0.1790

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, ksp, pl, ru, ky, (q)

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

```

14.60 820.9 0.08244 0.2762 0.5221 0.02718 0.002091 0.6995
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6087 0.3143 0.2799 0.08015 0.1629 0.2133
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6816 0.2235 0.06008 0.3420 0.8533 0.04633
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2376 0.01383 0.2876 0.05482 0.1738 0.1838

mode liq bi g mu ksp pl ru ky q
 0.1738 0.1838 0.1181 0 0.003684 0.2535 0.003035 0.02450 0.2397

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 823.2 0.08133 0.2767 0.5273 0.02753 0.002091 0.6943
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6091 0.3061 0.2771 0.07846 0.1645 0.2131
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6733 0.2261 0.05987 0.3343 0.8506 0.04639
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2411 0.01389 0.2801 0.05630 0.1765 0.1768

mode liq bi g mu ksp pl ru ky q
 0.1765 0.1768 0.1252 0 0.008210 0.2476 0.003149 0.02499 0.2375

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 825.5 0.08023 0.2772 0.5328 0.02785 0.002091 0.6892
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6094 0.2982 0.2744 0.07682 0.1660 0.2127
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6651 0.2284 0.05960 0.3268 0.8480 0.04646
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2447 0.01394 0.2725 0.05785 0.1791 0.1701

mode liq bi g mu ksp pl ru ky q
 0.1791 0.1701 0.1322 0 0.01274 0.2417 0.003262 0.02546 0.2355

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 827.8 0.07914 0.2778 0.5386 0.02815 0.002091 0.6842
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6097 0.2906 0.2718 0.07523 0.1675 0.2121
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6569 0.2305 0.05926 0.3195 0.8453 0.04654
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2485 0.01399 0.2648 0.05947 0.1817 0.1634

mode liq bi g mu ksp pl ru ky q
 0.1817 0.1634 0.1391 0 0.01729 0.2358 0.003376 0.02591 0.2335

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 830.2 0.07806 0.2783 0.5446 0.02843 0.002091 0.6792
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6100 0.2833 0.2692 0.07370 0.1690 0.2113
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6487 0.2322 0.05887 0.3125 0.8426 0.04662
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2523 0.01404 0.2571 0.06115 0.1842 0.1569

mode liq bi g mu ksp pl ru ky q
 0.1842 0.1569 0.1458 0 0.02187 0.2298 0.003490 0.02632 0.2316

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 832.5 0.07699 0.2789 0.5509 0.02869 0.002091 0.6743
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6103 0.2763 0.2666 0.07224 0.1705 0.2104
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6405 0.2337 0.05844 0.3057 0.8399 0.04671
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2562 0.01407 0.2492 0.06290 0.1866 0.1505

mode liq bi g mu ksp pl ru ky q
 0.1866 0.1505 0.1525 0 0.02651 0.2239 0.003605 0.02669 0.2297

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 834.8 0.07593 0.2795 0.5574 0.02892 0.002091 0.6695
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6106 0.2695 0.2642 0.07085 0.1719 0.2093
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6323 0.2349 0.05798 0.2991 0.8372 0.04679
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2602 0.01410 0.2414 0.06472 0.1891 0.1441

mode liq bi g mu ksp pl ru ky q
 0.1891 0.1441 0.1590 0 0.03121 0.2179 0.003720 0.02704 0.2279

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 837.1 0.07487 0.2802 0.5641 0.02912 0.002092 0.6648
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6109 0.2629 0.2617 0.06953 0.1734 0.2080
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.6242 0.2359 0.05750 0.2928 0.8345 0.04688
 na(ksp) ca(ksp) ca(pl) k(pl) liq bi
 0.2643 0.01412 0.2336 0.06661 0.1914 0.1379

mode liq bi g mu ksp pl ru ky q
 0.1914 0.1379 0.1655 0 0.03598 0.2120 0.003837 0.02734 0.2261

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 839.4 0.07383 0.2809 0.5711 0.02930 0.002093 0.6601
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6112 0.2566 0.2593 0.06828 0.1748 0.2066
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.6160 0.2366 0.05700 0.2866 0.8318 0.04697
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2685 0.01414 0.2258 0.06856 0.1938 0.1317

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.1938	0.1317	0.1718		0	0.04085	0.2059	0.003955	0.02760 0.2244

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 841.7 0.07280 0.2816 0.5783 0.02946 0.002094 0.6555
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6114 0.2505 0.2569 0.06711 0.1762 0.2051
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.6079 0.2371 0.05648 0.2806 0.8291 0.04705
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2727 0.01414 0.2180 0.07057 0.1961 0.1255

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.1961	0.1255	0.1781		0	0.04582	0.1999	0.004075	0.02782 0.2226

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 844.0 0.07179 0.2823 0.5857 0.02959 0.002096 0.6510
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6116 0.2446 0.2545 0.06601 0.1776 0.2034
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5998 0.2373 0.05596 0.2748 0.8263 0.04713
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2770 0.01414 0.2104 0.07264 0.1985 0.1193

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.1985	0.1193	0.1843		0	0.05091	0.1938	0.004196	0.02799 0.2209

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 846.3 0.07078 0.2831 0.5933 0.02970 0.002098 0.6465
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6118 0.2389 0.2522 0.06497 0.1789 0.2017
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5918 0.2373 0.05543 0.2692 0.8236 0.04721
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2813 0.01413 0.2028 0.07477 0.2008 0.1132

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2008	0.1132	0.1905		0	0.05613	0.1877	0.004320	0.02812 0.2192

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 848.6 0.06978 0.2839 0.6011 0.02979 0.002100 0.6421
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6120 0.2333 0.2499 0.06401 0.1803 0.1999
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5838 0.2370 0.05490 0.2637 0.8208 0.04729
na(ksp) ca(ksp) ca(pl) k(pl) liq bi

0.2857 0.01412 0.1954 0.07695 0.2031 0.1071

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2031	0.1071	0.1966		0	0.06149	0.1815	0.004446	0.02820 0.2176

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 850.9 0.06880 0.2847 0.6090 0.02985 0.002102 0.6378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6121 0.2280 0.2476 0.06312 0.1816 0.1980
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5758 0.2365 0.05438 0.2585 0.8181 0.04736
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2901 0.01410 0.1881 0.07918 0.2055 0.1010

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2055	0.1010	0.2026		0	0.06702	0.1752	0.004575	0.02822 0.2159

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 853.2 0.06782 0.2856 0.6171 0.02990 0.002105 0.6335
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6122 0.2228 0.2454 0.06229 0.1829 0.1960
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5678 0.2358 0.05385 0.2533 0.8153 0.04742
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2946 0.01406 0.1809 0.08146 0.2078 0.09479

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2078	0.09479	0.2087		0	0.07272	0.1689	0.004706	0.02820 0.2142

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 855.6 0.06686 0.2865 0.6253 0.02992 0.002107 0.6293
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6123 0.2177 0.2431 0.06152 0.1842 0.1940
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5598 0.2349 0.05333 0.2483 0.8126 0.04747
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.2990 0.01403 0.1740 0.08378 0.2102 0.08859

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2102	0.08859	0.2147		0	0.07860	0.1624	0.004841	0.02812 0.2125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 857.9 0.06592 0.2875 0.6336 0.02993 0.002110 0.6252
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6123 0.2128 0.2409 0.06081 0.1855 0.1918
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5518 0.2338 0.05282 0.2435 0.8098 0.04752
na(ksp) ca(ksp) ca(pl) k(pl) liq bi
0.3035 0.01398 0.1672 0.08613 0.2126 0.08233

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2126	0.08233	0.2207		0	0.08470	0.1559	0.004980	0.02799 0.2108

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.00	860.2	0.06498	0.2885	0.6421	0.02992	0.002112	0.6210
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6123	0.2081	0.2387	0.06016	0.1868	0.1897	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5439	0.2325	0.05231	0.2387	0.8070	0.04756	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.3079	0.01393	0.1606	0.08852	0.2151	0.07602	

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2151	0.07602	0.2267		0	0.09101	0.1492	0.005122	0.02781 0.2091

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.20	862.6	0.06406	0.2895	0.6506	0.02989	0.002114	0.6169
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6123	0.2034	0.2366	0.05956	0.1881	0.1875	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5360	0.2311	0.05182	0.2341	0.8042	0.04759	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.3124	0.01387	0.1542	0.09094	0.2176	0.06962	

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2176	0.06962	0.2327		0	0.09756	0.1424	0.005268	0.02757 0.2074

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.40	864.9	0.06315	0.2906	0.6592	0.02984	0.002116	0.6129
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6122	0.1989	0.2344	0.05901	0.1893	0.1852	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5280	0.2294	0.05133	0.2296	0.8014	0.04761	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.3168	0.01380	0.1480	0.09339	0.2201	0.06313	

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2201	0.06313	0.2387		0	0.1044	0.1354	0.005419	0.02728 0.2056

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.60	867.3	0.06225	0.2917	0.6678	0.02978	0.002117	0.6089
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6121	0.1945	0.2323	0.05851	0.1906	0.1829	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5201	0.2276	0.05085	0.2252	0.7986	0.04763	
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi	
	0.3212	0.01373	0.1420	0.09585	0.2227	0.05653	

mode	liq	bi	g	mu	ksp	pl	ru	ky	q
	0.2227	0.05653	0.2448		0	0.1114	0.1282	0.005574	0.02693 0.2038

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
18.80	869.6	0.06136	0.2929	0.6765	0.02970	0.002118	0.6049			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.6120	0.1902	0.2302	0.05805	0.1919	0.1805				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.5122	0.2257	0.05038	0.2208	0.7958	0.04763				
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi				
	0.3256	0.01365	0.1363	0.09834	0.2254	0.04981				
mode	liq	bi	g	mu	ksp	pl	ru	ky	q	
	0.2254	0.04981	0.2509		0	0.1188	0.1209	0.005735	0.02652	0.2020

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
19.00	872.0	0.06049	0.2941	0.6853	0.02961	0.002119	0.6009			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.6118	0.1859	0.2281	0.05764	0.1931	0.1781				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.5042	0.2236	0.04992	0.2166	0.7930	0.04763				
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi				
	0.3300	0.01356	0.1307	0.1008	0.2282	0.04295				
mode	liq	bi	g	mu	ksp	pl	ru	ky	q	
	0.2282	0.04295	0.2571		0	0.1265	0.1133	0.005902	0.02606	0.2001

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
19.20	874.4	0.05964	0.2953	0.6940	0.02951	0.002118	0.5969			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.6115	0.1818	0.2260	0.05727	0.1943	0.1757				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.4963	0.2213	0.04946	0.2124	0.7902	0.04762				
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi				
	0.3343	0.01347	0.1254	0.1033	0.2310	0.03594				
mode	liq	bi	g	mu	ksp	pl	ru	ky	q	
	0.2310	0.03594	0.2634		0	0.1345	0.1055	0.006075	0.02553	0.1981

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
19.40	876.8	0.05879	0.2966	0.7027	0.02939	0.002117	0.5929			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.6112	0.1778	0.2240	0.05694	0.1956	0.1732				
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)				
	0.4883	0.2189	0.04902	0.2083	0.7874	0.04760				
	na(ksp)	ca(ksp)	ca(pl)	k(pl)	liq	bi				
	0.3386	0.01338	0.1203	0.1059	0.2339	0.02876				
mode	liq	bi	g	mu	ksp	pl	ru	ky	q	
	0.2339	0.02876	0.2697		0	0.1428	0.09737	0.006254	0.02495	0.1962

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
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19.60  879.2 0.05796 0.2979 0.7113 0.02926 0.002115 0.5889
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6109 0.1738 0.2220 0.05664 0.1968 0.1707
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.4803 0.2164 0.04859 0.2043 0.7846 0.04758
      na(ksp) ca(ksp) ca(pl) k(pl) liq bi
      0.3429 0.01328 0.1153 0.1084 0.2370 0.02140

mode  liq  bi  g  mu  ksp  pl  ru  ky  q
      0.2370 0.02140 0.2762 0 0.1516 0.08901 0.006441 0.02430 0.1941

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.80  881.6 0.05714 0.2993 0.7199 0.02913 0.002112 0.5849
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6105 0.1699 0.2200 0.05638 0.1980 0.1681
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.4724 0.2138 0.04817 0.2003 0.7818 0.04754
      na(ksp) ca(ksp) ca(pl) k(pl) liq bi
      0.3471 0.01317 0.1106 0.1109 0.2401 0.01383

mode  liq  bi  g  mu  ksp  pl  ru  ky  q
      0.2401 0.01383 0.2828 0 0.1607 0.08034 0.006635 0.02359 0.1920

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00  884.0 0.05634 0.3007 0.7284 0.02898 0.002107 0.5809
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6101 0.1660 0.2180 0.05616 0.1993 0.1655
      x(g) z(g) f(g) fe(mu) y(mu) na(mu)
      0.4643 0.2111 0.04775 0.1964 0.7790 0.04750
      na(ksp) ca(ksp) ca(pl) k(pl) liq bi
      0.3513 0.01306 0.1061 0.1134 0.2433 0.006041

mode  liq  bi  g  mu  ksp  pl  ru  ky  q
      0.2433 0.006041 0.2895 0 0.1703 0.07133 0.006838 0.02281 0.1898

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calcs use:

composition (from script)

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H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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<=====>

phases : liq, g, ksp, pl, ilm, ru, ky, (q)

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80  842.2 0.06061 0.2825 0.6585 0.02477 0.001735 0.5527
      h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
      0.6286 0.4587 0.1979 0.04802 0.3047 0.01183
      ca(pl) k(pl) x(ilm) Q(ilm) liq g
      0.1438 0.08733 0.3512 2.452e-5 0.2322 0.2912

mode  liq  g  ksp  pl  ilm  ru  ky  q

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0.2322 0.2912 0.1522 0.1113 0 0.006996 0.01980 0.1862

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 869.1 0.06716 0.2942 0.6506 0.03044 0.002111 0.5682
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.6036 0.4583 0.1919 0.04848 0.3192 0.01482
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1565 0.09364 0.3648 2.567e-5 0.2504 0.2885

mode liq g ksp pl ilm ru ky q
0.2504 0.2885 0.1491 0.1048 0 0.006996 0.01840 0.1818

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 889.0 0.07203 0.3025 0.6443 0.03509 0.002438 0.5790
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.5849 0.4580 0.1875 0.04883 0.3304 0.01723
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1635 0.09897 0.3741 2.637e-5 0.2651 0.2865

mode liq g ksp pl ilm ru ky q
0.2651 0.2865 0.1464 0.09944 0 0.006996 0.01735 0.1783

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 905.7 0.07613 0.3093 0.6391 0.03930 0.002751 0.5877
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.5690 0.4577 0.1838 0.04915 0.3404 0.01940
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1676 0.1041 0.3813 2.687e-5 0.2783 0.2847

mode liq g ksp pl ilm ru ky q
0.2783 0.2847 0.1439 0.09448 0 0.006996 0.01647 0.1752

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 920.5 0.07973 0.3152 0.6347 0.04323 0.003058 0.5950
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.5549 0.4573 0.1806 0.04943 0.3499 0.02144
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1698 0.1092 0.3873 2.724e-5 0.2907 0.2830

mode liq g ksp pl ilm ru ky q
0.2907 0.2830 0.1417 0.08959 0 0.006996 0.01568 0.1723

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 933.9 0.08297 0.3204 0.6312 0.04695 0.003365 0.6014
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.5419 0.4569 0.1776 0.04971 0.3591 0.02341
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1706 0.1144 0.3924 2.751e-5 0.3026 0.2815

mode liq g ksp pl ilm ru ky q

0.3026 0.2815 0.1397 0.08463 0 0.006996 0.01496 0.1696

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.00 946.3 0.08593 0.3251 0.6284 0.05052 0.003673 0.6072

h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)

0.5299 0.4565 0.1750 0.04997 0.3684 0.02535

ca(pl) k(pl) x(ilm) Q(ilm) liq g

0.1702 0.1198 0.3968 2.771e-5 0.3142 0.2800

mode liq g ksp pl ilm ru ky q

0.3142 0.2800 0.1380 0.07946 0 0.006996 0.01429 0.1670

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.20 958.0 0.08865 0.3295 0.6264 0.05395 0.003985 0.6123

h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)

0.5186 0.4561 0.1725 0.05023 0.3777 0.02727

ca(pl) k(pl) x(ilm) Q(ilm) liq g

0.1690 0.1254 0.4007 2.785e-5 0.3256 0.2786

mode liq g ksp pl ilm ru ky q

0.3256 0.2786 0.1366 0.07399 0 0.006996 0.01366 0.1645

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.40 968.9 0.09118 0.3336 0.6252 0.05726 0.004302 0.6171

h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)

0.5079 0.4556 0.1701 0.05049 0.3872 0.02921

ca(pl) k(pl) x(ilm) Q(ilm) liq g

0.1670 0.1314 0.4042 2.794e-5 0.3369 0.2772

mode liq g ksp pl ilm ru ky q

0.3369 0.2772 0.1357 0.06809 0 0.006996 0.01307 0.1620

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.60 979.4 0.09353 0.3375 0.6248 0.06046 0.004625 0.6215

h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)

0.4977 0.4551 0.1679 0.05074 0.3969 0.03118

ca(pl) k(pl) x(ilm) Q(ilm) liq g

0.1645 0.1376 0.4073 2.800e-5 0.3481 0.2758

mode liq g ksp pl ilm ru ky q

0.3481 0.2758 0.1353 0.06163 0 0.006996 0.01250 0.1596

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

19.80 989.5 0.09574 0.3412 0.6252 0.06358 0.004956 0.6255

h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)

0.4879 0.4546 0.1658 0.05099 0.4069 0.03321

ca(pl) k(pl) x(ilm) Q(ilm) liq g

0.1614 0.1443 0.4101 2.803e-5 0.3593 0.2745

mode liq g ksp pl ilm ru ky q

0.3593 0.2745 0.1356 0.05447 0 0.006996 0.01195 0.1573

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00 999.2 0.09782 0.3449 0.6265 0.06662 0.005297 0.6294
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4784 0.4540 0.1637 0.05125 0.4172 0.03533
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.1578 0.1513 0.4127 2.802e-5 0.3706 0.2731

mode liq g ksp pl ilm ru ky q
0.3706 0.2731 0.1366 0.04638 0 0.006996 0.01142 0.1549

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.21 890.3 0.07235 0.3030 0.6439 0.03541 0.002462 0.5797
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5837 0.1685 0.2334 0.06687 0.2016 0.1593
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4580 0.1872 0.04886 0.3311 0.01739 0.1639
k(pl) x(ilm) Q(ilm)
0.09935 0.3747 2.642e-5

mode liq bi g ksp pl ilm ru ky q
0.2661 0 0.2863 0.1462 0.09907 0 0.006996 0.01729 0.1781

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, ksp, pl, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 903.5 0.1154 0.3206 0.4738 0.04214 0.003607 0.5957
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5092 0.1839 0.2484 0.1207 0.2054 0.1493
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4567 0.1078 0.05406 0.2803 0.02330 0.3062
k(pl)
0.0721

mode liq bi g ksp pl ru ky q
0.3349 0 0.2591 0.07448 0.1777 0.006996 0.0005490 0.1463

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 902.8 0.1128 0.3191 0.4800 0.04215 0.003531 0.5947
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5139 0.1830 0.2483 0.1166 0.2052 0.1500
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4568 0.1124 0.05375 0.2822 0.02306 0.2997
 k(pl)

0.07301

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3300	0	0.2606	0.07813	0.1743	0.006996	0.001541	0.1484

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 902.1 0.1103 0.3176 0.4867 0.04212 0.003456 0.5936
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5185 0.1821 0.2481 0.1125 0.2050 0.1507
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4569 0.1171 0.05343 0.2842 0.02282 0.2928
 k(pl)

0.074

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3253	0	0.2621	0.08182	0.1708	0.006996	0.002541	0.1505

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 901.3 0.1077 0.3162 0.4938 0.04204 0.003382 0.5925
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5231 0.1812 0.2479 0.1085 0.2048 0.1513
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4570 0.1219 0.05311 0.2864 0.02256 0.2857
 k(pl)

0.07505

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3206	0	0.2637	0.08556	0.1671	0.006996	0.003547	0.1526

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 900.6 0.1052 0.3148 0.5013 0.04192 0.003308 0.5914
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5277 0.1803 0.2476 0.1047 0.2046 0.1520
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4571 0.1268 0.05279 0.2887 0.02230 0.2784
 k(pl)

0.07618

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3161	0	0.2653	0.08935	0.1632	0.006996	0.004557	0.1546

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 899.8 0.1026 0.3135 0.5093 0.04175 0.003236 0.5903

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5322 0.1794 0.2472 0.1009 0.2044 0.1526
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4572 0.1317 0.05247 0.2912 0.02203 0.2708
k(pl)

0.07738

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3117	0	0.2669	0.09320	0.1591	0.006996	0.005570	0.1566

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 899.1 0.1001 0.3123 0.5177 0.04152 0.003166 0.5892
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5366 0.1785 0.2467 0.09735 0.2042 0.1532
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4572 0.1365 0.05215 0.2938 0.02175 0.2630
k(pl)

0.07867

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3074	0	0.2685	0.09710	0.1549	0.006996	0.006581	0.1585

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 898.3 0.09761 0.3111 0.5266 0.04125 0.003097 0.5882
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5410 0.1776 0.2461 0.09391 0.2040 0.1537
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4573 0.1414 0.05183 0.2965 0.02146 0.2550
k(pl)

0.08004

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.3032	0	0.2701	0.1011	0.1506	0.006996	0.007587	0.1604

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 897.5 0.09514 0.3100 0.5359 0.04093 0.003029 0.5872
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5453 0.1767 0.2455 0.09063 0.2038 0.1543
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4574 0.1462 0.05151 0.2993 0.02115 0.2469
k(pl)

0.08149

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2992	0	0.2718	0.1051	0.1461	0.006996	0.008584	0.1623

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 896.7 0.09270 0.3089 0.5456 0.04056 0.002964 0.5862
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5496 0.1758 0.2447 0.08751 0.2035 0.1549

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4575 0.1509 0.05120 0.3023 0.02083 0.2386
k(pl)

0.08301

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2953	0	0.2734	0.1091	0.1416	0.006996	0.009569	0.1641

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 895.9 0.09028 0.3080 0.5557 0.04014 0.002900 0.5853
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5538 0.1749 0.2438 0.08457 0.2033 0.1554
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4576 0.1556 0.05090 0.3053 0.02051 0.2302
k(pl)

0.08461

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2915	0	0.2750	0.1132	0.1369	0.006996	0.01054	0.1658

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 895.2 0.08790 0.3071 0.5661 0.03968 0.002838 0.5844
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5579 0.1740 0.2428 0.08180 0.2031 0.1559
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4576 0.1601 0.05061 0.3084 0.02016 0.2218
k(pl)

0.08628

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2879	0	0.2765	0.1173	0.1322	0.006996	0.01148	0.1675

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 894.4 0.08556 0.3063 0.5768 0.03917 0.002778 0.5835
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5618 0.1732 0.2417 0.07920 0.2029 0.1564
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4577 0.1645 0.05032 0.3116 0.01981 0.2134
k(pl)

0.08801

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2844	0	0.2781	0.1215	0.1274	0.006996	0.01241	0.1692

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 893.7 0.08326 0.3055 0.5877 0.03863 0.002721 0.5827
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5657 0.1723 0.2406 0.07677 0.2027 0.1569
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4577 0.1687 0.05005 0.3149 0.01944 0.2049

k(pl)

0.0898

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2810	0	0.2796	0.1256	0.1227	0.006996	0.01330	0.1708

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	893.0	0.08100	0.3049	0.5988	0.03804	0.002665	0.5820
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5695	0.1715	0.2393	0.07451	0.2024	0.1574
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4578	0.1728	0.04979	0.3181	0.01906	0.1966

k(pl)

0.09163

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2778	0	0.2810	0.1298	0.1179	0.006996	0.01416	0.1723

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.60	892.3	0.07880	0.3043	0.6099	0.03743	0.002612	0.5814
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5732	0.1707	0.2380	0.07241	0.2022	0.1579
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4578	0.1766	0.04954	0.3214	0.01867	0.1883

k(pl)

0.0935

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2747	0	0.2824	0.1339	0.1131	0.006996	0.01499	0.1738

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.80	891.6	0.07664	0.3038	0.6210	0.03680	0.002561	0.5808
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5767	0.1700	0.2366	0.07046	0.2020	0.1584
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4579	0.1803	0.04930	0.3246	0.01827	0.1802

k(pl)

0.0954

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2718	0	0.2838	0.1380	0.1085	0.006996	0.01578	0.1753

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.00	891.0	0.07454	0.3034	0.6321	0.03614	0.002512	0.5802
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5802	0.1693	0.2351	0.06865	0.2018	0.1588
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4579	0.1837	0.04908	0.3278	0.01785	0.1722

k(pl)

0.0973

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2689	0	0.2850	0.1420	0.1039	0.006996	0.01653	0.1767

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.20	890.3	0.07250	0.3031	0.6431	0.03546	0.002465	0.5797
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5835	0.1686	0.2335	0.06698	0.2016	0.1593
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4580	0.1870	0.04887	0.3309	0.01743	0.1645
		k(pl)					
		0.09921					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2663	0	0.2862	0.1459	0.09939	0.006996	0.01724	0.1780

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.40	889.7	0.07052	0.3028	0.6539	0.03478	0.002420	0.5793
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5866	0.1679	0.2319	0.06544	0.2014	0.1598
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4580	0.1900	0.04868	0.3339	0.01699	0.1569
		k(pl)					
		0.1011					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2637	0	0.2874	0.1497	0.09503	0.006996	0.01790	0.1793

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.60	889.2	0.06860	0.3025	0.6645	0.03408	0.002377	0.5790
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5897	0.1673	0.2303	0.06402	0.2012	0.1602
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4581	0.1928	0.04849	0.3369	0.01655	0.1497
		k(pl)					
		0.103					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2613	0	0.2884	0.1535	0.09082	0.006996	0.01853	0.1805

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.80	888.6	0.06673	0.3023	0.6747	0.03339	0.002336	0.5787
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5927	0.1667	0.2286	0.06270	0.2011	0.1607
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4581	0.1955	0.04832	0.3397	0.01610	0.1427
		k(pl)					
		0.1048					

mode	liq	bi	g	ksp	pl	ru	ky	q
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0.2589 0 0.2894 0.1571 0.08677 0.006996 0.01912 0.1816

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 888.1 0.06494 0.3022 0.6847 0.03269 0.002297 0.5784
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5955 0.1661 0.2269 0.06149 0.2009 0.1611
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4581 0.1980 0.04816 0.3423 0.01564 0.1359
k(pl)
0.1066

mode liq bi g ksp pl ru ky q
0.2567 0 0.2904 0.1606 0.08289 0.006996 0.01967 0.1827

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 887.7 0.06320 0.3021 0.6943 0.03200 0.002260 0.5782
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5982 0.1655 0.2251 0.06036 0.2008 0.1615
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4581 0.2002 0.04801 0.3449 0.01518 0.1295
k(pl)
0.1083

mode liq bi g ksp pl ru ky q
0.2546 0 0.2913 0.1639 0.07919 0.006996 0.02019 0.1838

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40 887.2 0.06152 0.3020 0.7035 0.03132 0.002224 0.5781
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6008 0.1650 0.2234 0.05932 0.2006 0.1620
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4582 0.2023 0.04788 0.3472 0.01472 0.1233
k(pl)
0.1099

mode liq bi g ksp pl ru ky q
0.2526 0 0.2921 0.1671 0.07569 0.006996 0.02067 0.1848

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 886.8 0.05991 0.3019 0.7124 0.03065 0.002190 0.5780
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6033 0.1645 0.2216 0.05835 0.2005 0.1624
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4582 0.2043 0.04775 0.3494 0.01425 0.1175
k(pl)
0.1115

mode liq bi g ksp pl ru ky q
0.2507 0 0.2929 0.1702 0.07238 0.006996 0.02111 0.1857

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.80 886.4 0.05835 0.3019 0.7209 0.02999 0.002157 0.5779
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6057 0.1640 0.2197 0.05745 0.2004 0.1628
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4582 0.2061 0.04763 0.3514 0.01379 0.1119
 k(pl)
 0.113

mode liq bi g ksp pl ru ky q
 0.2489 0 0.2936 0.1731 0.06927 0.006996 0.02153 0.1867

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 20.00 886.0 0.05684 0.3018 0.7290 0.02934 0.002126 0.5779
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6081 0.1635 0.2179 0.05661 0.2002 0.1632
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4582 0.2078 0.04752 0.3532 0.01332 0.1066
 k(pl)
 0.1143

mode liq bi g ksp pl ru ky q
 0.2471 0 0.2942 0.1758 0.06636 0.006996 0.02191 0.1875

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.20 876.2 0.1309 0.3204 0.4392 0.03372 0.004514 0.6544
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4979 0.2595 0.3219 0.04879 0.1946 0.1739
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5510 0.05583 0.01031 0.2467 0.02115 0.3710
 k(pl) x(ilm) Q(ilm)
 0.05683 0.56510.0002051

mode liq bi g ksp pl ilm ru ky q
 0.2891 0.1070 0.1507 0.001678 0.2591 0.007842 0.002393 0 0.1821

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.40 877.4 0.1292 0.3195 0.4397 0.03442 0.004449 0.6514
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5003 0.2551 0.3183 0.04965 0.1952 0.1737
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.5464 0.05844 0.01087 0.2471 0.02118 0.3687
 k(pl) x(ilm) Q(ilm)

0.05724 0.55730.0001719

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q	
	0.2897	0.1020	0.1554	0.005296	0.2564	0.007682	0.002584	0	0.1810	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.60	878.6	0.1276	0.3187	0.4403	0.03513	0.004381	0.6482	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.5026	0.2507	0.3148	0.05051	0.1958	0.1734		
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
	0.5417	0.06118	0.01147	0.2476	0.02121	0.3662		
	k(pl)	x(ilm)	Q(ilm)					
	0.05768	0.54950	0.0001472					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q	
	0.2904	0.09686	0.1602	0.008988	0.2534	0.007521	0.002777	0	0.1798	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
12.80	879.9	0.1260	0.3179	0.4409	0.03583	0.004312	0.6450	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.5048	0.2462	0.3112	0.05138	0.1964	0.1729		
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
	0.5368	0.06403	0.01211	0.2483	0.02124	0.3635		
	k(pl)	x(ilm)	Q(ilm)					
	0.05816	0.54170	0.0001282					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q	
	0.2912	0.09159	0.1652	0.01277	0.2503	0.007358	0.002974	0	0.1785	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
13.00	881.2	0.1244	0.3172	0.4418	0.03654	0.004242	0.6416	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.5070	0.2416	0.3077	0.05226	0.1971	0.1724		
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
	0.5318	0.06699	0.01280	0.2491	0.02128	0.3606		
	k(pl)	x(ilm)	Q(ilm)					
	0.05869	0.53380	0.0001131					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q	
	0.2922	0.08617	0.1704	0.01664	0.2470	0.007194	0.003173	0	0.1773	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
13.20	882.5	0.1227	0.3165	0.4428	0.03725	0.004171	0.6380	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.5090	0.2369	0.3043	0.05313	0.1978	0.1717		
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
	0.5265	0.07007	0.01354	0.2500	0.02132	0.3574		
	k(pl)	x(ilm)	Q(ilm)					
	0.05928	0.52580	0.0001007					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.2932	0.08058	0.1758	0.02064	0.2434	0.007027	0.003377	0	0.1759		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.40	883.8	0.1211	0.3158	0.4440	0.03796	0.004099	0.6343				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.5110	0.2322	0.3009	0.05401	0.1985	0.1708					
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)					
	0.5211	0.07326	0.01433	0.2511	0.02137	0.3539					
	k(pl)	x(ilm)	Q(ilm)								
	0.05992	0.5178	9.051e-5								

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.2944	0.07479	0.1814	0.02478	0.2396	0.006856	0.003587	0	0.1746		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.60	885.2	0.1196	0.3152	0.4455	0.03866	0.004026	0.6305				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.5129	0.2275	0.2975	0.05489	0.1992	0.1698					
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)					
	0.5154	0.07655	0.01517	0.2524	0.02143	0.3501					
	k(pl)	x(ilm)	Q(ilm)								
	0.06063	0.5098	8.186e-5								

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.2958	0.06877	0.1872	0.02908	0.2355	0.006681	0.003803	0	0.1731		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.80	886.7	0.1180	0.3147	0.4472	0.03936	0.003953	0.6265				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.5148	0.2226	0.2941	0.05578	0.2000	0.1687					
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)					
	0.5096	0.07993	0.01608	0.2539	0.02148	0.3460					
	k(pl)	x(ilm)	Q(ilm)								
	0.06140	0.5017	7.446e-5								

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.2974	0.06251	0.1934	0.03359	0.2311	0.006500	0.004026	0	0.1715		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
14.00	888.1	0.1165	0.3142	0.4492	0.04005	0.003879	0.6223				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.5165	0.2177	0.2908	0.05667	0.2008	0.1675					
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)					
	0.5034	0.08339	0.01704	0.2557	0.02155	0.3416					
	k(pl)	x(ilm)	Q(ilm)								
	0.06226	0.4935	6.806e-5								

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q		
	0.2991	0.05599	0.1998	0.03832	0.2264	0.006312	0.004256	0	0.1699		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.20 889.6 0.1149 0.3138 0.4515 0.04072 0.003804 0.6179
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5182 0.2127 0.2875 0.05756 0.2016 0.1660
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4971 0.08691 0.01807 0.2576 0.02161 0.3368
 k(pl) x(ilm) Q(ilm)
 0.06319 0.4853 6.247e-5

mode liq bi g ksp pl ilm ru ky q
 0.3010 0.04918 0.2065 0.04330 0.2213 0.006117 0.004496 0 0.1681

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.40 891.2 0.1134 0.3134 0.4541 0.04137 0.003729 0.6133
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5198 0.2077 0.2843 0.05845 0.2025 0.1645
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4905 0.09048 0.01915 0.2598 0.02168 0.3317
 k(pl) x(ilm) Q(ilm)
 0.06422 0.4771 5.756e-5

mode liq bi g ksp pl ilm ru ky q
 0.3030 0.04208 0.2136 0.04857 0.2158 0.005915 0.004744 0 0.1663

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.60 892.8 0.1119 0.3131 0.4572 0.04199 0.003654 0.6086
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5213 0.2026 0.2810 0.05934 0.2033 0.1628
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4836 0.09408 0.02030 0.2622 0.02176 0.3262
 k(pl) x(ilm) Q(ilm)
 0.06534 0.4688 5.322e-5

mode liq bi g ksp pl ilm ru ky q
 0.3053 0.03467 0.2210 0.05415 0.2099 0.005703 0.005002 0 0.1643

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 894.4 0.1105 0.3128 0.4607 0.04259 0.003580 0.6038
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5228 0.1975 0.2778 0.06023 0.2042 0.1609
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4766 0.09768 0.02150 0.2649 0.02184 0.3203
 k(pl) x(ilm) Q(ilm)
 0.06657 0.4605 4.936e-5

mode liq bi g ksp pl ilm ru ky q
 0.3076 0.02696 0.2287 0.06009 0.2036 0.005482 0.005270 0 0.1623

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.00 896.0 0.1090 0.3126 0.4648 0.04315 0.003506 0.5988
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5243 0.1925 0.2747 0.06111 0.2051 0.1590
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4693 0.1013 0.02276 0.2679 0.02192 0.3140
 k(pl) x(ilm) Q(ilm)
 0.06792 0.4523 4.591e-5

mode liq bi g ksp pl ilm ru ky q
 0.3102 0.01895 0.2368 0.06641 0.1968 0.005252 0.005547 0 0.1601

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 897.7 0.1075 0.3124 0.4694 0.04366 0.003433 0.5937
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5257 0.1874 0.2716 0.06197 0.2060 0.1569
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4620 0.1048 0.02406 0.2711 0.02200 0.3074
 k(pl) x(ilm) Q(ilm)
 0.06938 0.4441 4.282e-5

mode liq bi g ksp pl ilm ru ky q
 0.3128 0.01065 0.2451 0.07314 0.1895 0.005012 0.005834 0 0.1579

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 899.4 0.1060 0.3123 0.4746 0.04413 0.003360 0.5886
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5272 0.1824 0.2685 0.06283 0.2069 0.1548
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4545 0.1083 0.02541 0.2747 0.02208 0.3003
 k(pl) x(ilm) Q(ilm)
 0.07096 0.4359 4.005e-5

mode liq bi g ksp pl ilm ru ky q
 0.3156 0.002080 0.2538 0.08032 0.1817 0.004762 0.006130 0 0.1556

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.45 899.8 0.1057 0.3123 0.4759 0.04423 0.003343 0.5873
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5275 0.1813 0.2678 0.06303 0.2071 0.1542
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4527 0.1091 0.02573 0.2755 0.02209 0.2985
 k(pl) x(ilm) Q(ilm)

0.07136 0.4340 3.944e-5

mode liq bi g ksp pl ilm ru ky q
0.3162 0 0.2559 0.08211 0.1798 0.004701 0.006201 0 0.1551
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, g, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 409.6 0.05130 0.09960 0.5004 0.0011740.0009351 0.1622
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.8469 0.4578 0.1072 0.002622 0.058880.0004954
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2915 0.005602 0.2000 1.724e-5 0.1190 0.2583

mode liq g ksp pl ilm ru ky q
0.1190 0.2583 0.1471 0.2685 0.006560 0.006528 0 0.1940

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 420.3 0.05106 0.1035 0.5030 0.0012820.0008503 0.1736
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.8432 0.4576 0.1071 0.002864 0.062140.0005614
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2926 0.006101 0.2065 1.797e-5 0.1204 0.2583

mode liq g ksp pl ilm ru ky q
0.1204 0.2583 0.1468 0.2674 0.006566 0.006511 0 0.1940

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 431.0 0.05092 0.1074 0.5055 0.0014010.0007816 0.1853
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.8393 0.4574 0.1070 0.003121 0.065500.0006349
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2939 0.006630 0.2130 1.872e-5 0.1219 0.2583

mode liq g ksp pl ilm ru ky q
0.1219 0.2583 0.1466 0.2662 0.006572 0.006494 0 0.1940

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 441.9 0.05087 0.1115 0.5077 0.0015320.0007261 0.1972
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.8352 0.4572 0.1069 0.003392 0.068960.0007166
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.2952 0.007192 0.2196 1.949e-5 0.1235 0.2583

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1235	0.2583	0.1462	0.2650	0.006576	0.006477	0	0.1939

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.40	452.8	0.05091	0.1157	0.5097	0.0016760	0.0006814	0.2093
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.8309	0.4570	0.1068	0.003676	0.072520	0.0008073	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.2965	0.007786	0.2262	2.027e-5	0.1252	0.2583	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1252	0.2583	0.1459	0.2637	0.006579	0.006460	0	0.1938

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	463.8	0.05104	0.1199	0.5115	0.0018340	0.0006457	0.2216
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.8264	0.4569	0.1067	0.003976	0.076190	0.0009076	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.2979	0.008415	0.2328	2.108e-5	0.1270	0.2583	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1270	0.2583	0.1455	0.2625	0.006580	0.006443	0	0.1937

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.80	474.9	0.05125	0.1243	0.5132	0.0020080	0.0006177	0.2340
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.8217	0.4568	0.1066	0.004290	0.07996	0.001019	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.2994	0.009080	0.2395	2.189e-5	0.1290	0.2582	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1290	0.2582	0.1452	0.2612	0.006580	0.006426	0	0.1935

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.00	486.0	0.05154	0.1287	0.5147	0.0022000	0.0005962	0.2465
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.8167	0.4566	0.1064	0.004619	0.08383	0.001141	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3009	0.009780	0.2461	2.272e-5	0.1310	0.2582	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1310	0.2582	0.1447	0.2598	0.006578	0.006409	0	0.1933

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.20	497.3	0.05192	0.1333	0.5160	0.0024120	0.0005805	0.2591
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.8116	0.4565	0.1063	0.004964	0.08779	0.001276	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3024	0.01052	0.2528	2.356e-5	0.1331	0.2581	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1331	0.2581	0.1443	0.2585	0.006574	0.006391	0	0.1930

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	508.6	0.05237	0.1379	0.5172	0.0026440	0.0005698	0.2718
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.8062	0.4564	0.1061	0.005323	0.09186	0.001425	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3040	0.01129	0.2595	2.441e-5	0.1354	0.2581	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1354	0.2581	0.1438	0.2571	0.006569	0.006374	0	0.1927

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.60	519.9	0.05290	0.1426	0.5183	0.0029000	0.0005637	0.2844
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.8007	0.4563	0.1060	0.005697	0.09602	0.001588	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3056	0.01211	0.2662	2.527e-5	0.1377	0.2580	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1377	0.2580	0.1433	0.2556	0.006561	0.006358	0	0.1924

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.80	531.4	0.05351	0.1475	0.5191	0.0031810	0.0005620	0.2971
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7949	0.4561	0.1058	0.006087	0.1003	0.001767	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3072	0.01297	0.2729	2.614e-5	0.1402	0.2579	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1402	0.2579	0.1427	0.2541	0.006552	0.006341	0	0.1921

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.00	542.9	0.05420	0.1524	0.5199	0.0034910	0.0005642	0.3097
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7890	0.4560	0.1057	0.006491	0.1046	0.001963	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3089	0.01387	0.2796	2.700e-5	0.1429	0.2579	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1429	0.2579	0.1422	0.2526	0.006541	0.006324	0	0.1917

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	554.5	0.05496	0.1574	0.5205	0.0038320	0.0005703	0.3222
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7828	0.4559	0.1055	0.006911	0.1091	0.002178	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3105	0.01481	0.2862	2.787e-5	0.1456	0.2578	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1456	0.2578	0.1415	0.2510	0.006527	0.006308	0	0.1913

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.40	566.1	0.05581	0.1625	0.5209	0.0042060	0.0005801	0.3347
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7764	0.4558	0.1053	0.007346	0.1136	0.002412	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3122	0.01579	0.2928	2.874e-5	0.1485	0.2577	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1485	0.2577	0.1408	0.2494	0.006511	0.006292	0	0.1908

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.60	577.8	0.05673	0.1677	0.5212	0.0046170	0.0005937	0.3470
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7698	0.4557	0.1052	0.007796	0.1182	0.002666	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3139	0.01682	0.2994	2.960e-5	0.1515	0.2577	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1515	0.2577	0.1401	0.2477	0.006493	0.006277	0	0.1903

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.80	589.6	0.05773	0.1729	0.5213	0.0050680	0.0006111	0.3591
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7631	0.4556	0.1050	0.008260	0.1229	0.002944	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3156	0.01790	0.3060	3.046e-5	0.1547	0.2576	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1547	0.2576	0.1393	0.2460	0.006473	0.006261	0	0.1897

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	601.4	0.05880	0.1782	0.5213	0.0055620	0.0006323	0.3711
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7561	0.4555	0.1049	0.008739	0.1276	0.003244	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3173	0.01902	0.3124	3.130e-5	0.1581	0.2575	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1581	0.2575	0.1384	0.2442	0.006450	0.006247	0	0.1891

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	613.3	0.05996	0.1836	0.5211	0.0061040	0.0006576	0.3828
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7489	0.4554	0.1047	0.009233	0.1324	0.003570	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3189	0.02019	0.3189	3.213e-5	0.1615	0.2575	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1615	0.2575	0.1375	0.2424	0.006425	0.006232	0	0.1885

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	625.2	0.06119	0.1890	0.5208	0.0066960	0.0006869	0.3944
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7415	0.4553	0.1046	0.009740	0.1373	0.003922	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3205	0.02141	0.3252	3.294e-5	0.1652	0.2574	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1652	0.2574	0.1365	0.2405	0.006397	0.006219	0	0.1878

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	637.2	0.06250	0.1945	0.5203	0.0073440	0.0007207	0.4057
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7340	0.4552	0.1045	0.01026	0.1423	0.004302	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3221	0.02268	0.3315	3.372e-5	0.1690	0.2573	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1690	0.2573	0.1355	0.2386	0.006366	0.006206	0	0.1870

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.80	649.1	0.06388	0.2000	0.5196	0.0080500	0.0007590	0.4168
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7262	0.4551	0.1044	0.01080	0.1473	0.004710	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3236	0.02399	0.3377	3.449e-5	0.1731	0.2572	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1731	0.2572	0.1343	0.2366	0.006332	0.006193	0	0.1863

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	661.1	0.06534	0.2056	0.5188	0.0088180	0.0008021	0.4276
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7183	0.4550	0.1043	0.01134	0.1523	0.005148	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3250	0.02536	0.3438	3.522e-5	0.1773	0.2572	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1773	0.2572	0.1331	0.2346	0.006296	0.006182	0	0.1854

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	673.1	0.06687	0.2111	0.5178	0.0096530	0.0008503	0.4381
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.7102	0.4549	0.1042	0.01191	0.1574	0.005616	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3263	0.02678	0.3498	3.591e-5	0.1816	0.2571	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1816	0.2571	0.1318	0.2325	0.006256	0.006171	0	0.1845

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	685.1	0.06846	0.2167	0.5166	0.010560	0.0009039	0.4484
		h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)
		0.7019	0.4549	0.1042	0.01248	0.1625	0.006115
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g
		0.3275	0.02825	0.3556	3.657e-5	0.1862	0.2570

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1862	0.2570	0.1304	0.2304	0.006214	0.006161	0	0.1836

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	697.0	0.07012	0.2223	0.5153	0.011540	0.0009631	0.4583
		h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)
		0.6935	0.4548	0.1041	0.01306	0.1677	0.006647
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g
		0.3285	0.02978	0.3613	3.719e-5	0.1910	0.2570

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1910	0.2570	0.1289	0.2282	0.006168	0.006152	0	0.1826

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	708.9	0.07185	0.2278	0.5139	0.01259	0.001028	0.4679
		h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)
		0.6849	0.4547	0.1041	0.01366	0.1729	0.007210
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g
		0.3294	0.03136	0.3669	3.776e-5	0.1960	0.2569

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.1960	0.2569	0.1273	0.2260	0.006120	0.006144	0	0.1815

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	720.7	0.07363	0.2333	0.5122	0.01373	0.001100	0.4772
		h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)
		0.6762	0.4546	0.1042	0.01427	0.1781	0.007805
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g
		0.3302	0.03299	0.3723	3.828e-5	0.2011	0.2569

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2011	0.2569	0.1256	0.2238	0.006068	0.006137	0	0.1804

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	732.5	0.07545	0.2388	0.5105	0.01494	0.001177	0.4861
		h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)
		0.6674	0.4545	0.1042	0.01489	0.1834	0.008431
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g
		0.3307	0.03468	0.3776	3.876e-5	0.2065	0.2568

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2065	0.2568	0.1238	0.2214	0.006012	0.006131	0	0.1792

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	744.2	0.07733	0.2442	0.5086	0.01623	0.001261	0.4947
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.6586	0.4544	0.1043	0.01551	0.1887	0.009089	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3310	0.03642	0.3826	3.918e-5	0.2121	0.2568	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2121	0.2568	0.1219	0.2191	0.005954	0.006126	0	0.1780

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.60	755.7	0.07924	0.2495	0.5065	0.01761	0.001352	0.5030
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.6496	0.4543	0.1044	0.01615	0.1940	0.009777	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3311	0.03822	0.3875	3.955e-5	0.2179	0.2567	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2179	0.2567	0.1199	0.2167	0.005892	0.006123	0	0.1768

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	767.1	0.08118	0.2548	0.5044	0.01907	0.001450	0.5109
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.6406	0.4542	0.1045	0.01679	0.1993	0.01049	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3309	0.04008	0.3922	3.986e-5	0.2238	0.2567	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2238	0.2567	0.1178	0.2143	0.005827	0.006120	0	0.1754

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	778.4	0.08313	0.2599	0.5022	0.02061	0.001555	0.5186
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.6316	0.4542	0.1047	0.01744	0.2047	0.01124	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3304	0.04200	0.3966	4.011e-5	0.2300	0.2566	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2300	0.2566	0.1156	0.2118	0.005758	0.006119	0	0.1741

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	789.5	0.08511	0.2650	0.4999	0.02223	0.001666	0.5258
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.6226	0.4541	0.1049	0.01810	0.2101	0.01201	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3296	0.04398	0.4009	4.032e-5	0.2363	0.2566	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2363	0.2566	0.1133	0.2093	0.005686	0.006119	0	0.1727

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	800.4	0.08708	0.2699	0.4975	0.02392	0.001785	0.5328
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.6136	0.4540	0.1052	0.01877	0.2156	0.01281	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3286	0.04603	0.4049	4.046e-5	0.2428	0.2565	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2428	0.2565	0.1109	0.2068	0.005612	0.006121	0	0.1712

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	811.1	0.08905	0.2747	0.4951	0.02568	0.001910	0.5394
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.6046	0.4539	0.1055	0.01944	0.2211	0.01363	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3272	0.04814	0.4088	4.056e-5	0.2495	0.2565	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2495	0.2565	0.1084	0.2043	0.005534	0.006124	0	0.1697

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	821.6	0.09101	0.2794	0.4927	0.02751	0.002042	0.5457
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.5958	0.4538	0.1058	0.02011	0.2266	0.01448	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3254	0.05032	0.4124	4.060e-5	0.2563	0.2564	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2563	0.2564	0.1058	0.2017	0.005453	0.006128	0	0.1682

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	831.9	0.09294	0.2839	0.4903	0.02939	0.002180	0.5517
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.5870	0.4537	0.1061	0.02079	0.2323	0.01534	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3234	0.05257	0.4157	4.060e-5	0.2632	0.2564	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2632	0.2564	0.1031	0.1991	0.005369	0.006133	0	0.1667

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	842.0	0.09484	0.2883	0.4880	0.03133	0.002324	0.5574
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.5783	0.4535	0.1065	0.02147	0.2380	0.01622	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3210	0.05490	0.4189	4.055e-5	0.2703	0.2563	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2703	0.2563	0.1004	0.1965	0.005283	0.006139	0	0.1651

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	851.9	0.09671	0.2925	0.4858	0.03332	0.002474	0.5629
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.5697	0.4534	0.1068	0.02215	0.2437	0.01712	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3182	0.05730	0.4218	4.046e-5	0.2775	0.2563	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2775	0.2563	0.09758	0.1938	0.005195	0.006147	0	0.1635

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	861.5	0.09854	0.2966	0.4836	0.03535	0.002630	0.5681
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.5613	0.4533	0.1073	0.02284	0.2496	0.01804	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3152	0.05979	0.4246	4.033e-5	0.2847	0.2562	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2847	0.2562	0.09471	0.1912	0.005104	0.006155	0	0.1619

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	870.9	0.1003	0.3005	0.4815	0.03741	0.002790	0.5730
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.5530	0.4532	0.1077	0.02352	0.2555	0.01898	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3117	0.06237	0.4271	4.017e-5	0.2921	0.2561	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2921	0.2561	0.09179	0.1885	0.005011	0.006165	0	0.1603

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	880.1	0.1020	0.3043	0.4796	0.03949	0.002956	0.5777
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.5450	0.4530	0.1081	0.02421	0.2616	0.01992	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3080	0.06503	0.4294	3.997e-5	0.2995	0.2561	

mode	liq	g	ksp	pl	ilm	ru	ky	q
	0.2995	0.2561	0.08883	0.1858	0.004917	0.006175	0	0.1587

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.20	889.0	0.1037	0.3080	0.4779	0.04160	0.003126	0.5821
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.5371	0.4529	0.1086	0.02489	0.2677	0.02088	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3040	0.06779	0.4316	3.975e-5	0.3070	0.2560	

mode	liq	g	ksp	pl	ilm	ru	ky	q	
	0.3070	0.2560	0.08584	0.1831	0.004821	0.006186	0	0.1571	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
15.40	897.7	0.1053	0.3114	0.4763	0.04372	0.003301	0.5863	
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)		
	0.5293	0.4527	0.1090	0.02557	0.2740	0.02186		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g		
	0.2996	0.07066	0.4336	3.950e-5	0.3144	0.2559		

mode	liq	g	ksp	pl	ilm	ru	ky	q	
	0.3144	0.2559	0.08283	0.1804	0.004725	0.006198	0	0.1555	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
15.60	906.2	0.1068	0.3148	0.4749	0.04585	0.003480	0.5904	
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)		
	0.5218	0.4525	0.1095	0.02625	0.2804	0.02285		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g		
	0.2950	0.07363	0.4353	3.923e-5	0.3220	0.2558		

mode	liq	g	ksp	pl	ilm	ru	ky	q	
	0.3220	0.2558	0.07980	0.1777	0.004627	0.006211	0	0.1539	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
15.80	914.5	0.1083	0.3180	0.4737	0.04798	0.003662	0.5942	
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)		
	0.5145	0.4524	0.1099	0.02693	0.2870	0.02385		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g		
	0.2901	0.07673	0.4370	3.893e-5	0.3295	0.2557		

mode	liq	g	ksp	pl	ilm	ru	ky	q	
	0.3295	0.2557	0.07678	0.1750	0.004528	0.006224	0	0.1523	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.00	922.5	0.1097	0.3211	0.4728	0.05010	0.003848	0.5979	
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)		
	0.5074	0.4522	0.1104	0.02760	0.2937	0.02487		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g		
	0.2849	0.07994	0.4384	3.863e-5	0.3370	0.2556		

mode	liq	g	ksp	pl	ilm	ru	ky	q	
	0.3370	0.2556	0.07377	0.1723	0.004430	0.006238	0	0.1507	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
16.20	930.4	0.1111	0.3240	0.4721	0.05221	0.004037	0.6014	
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)		
	0.5006	0.4520	0.1108	0.02827	0.3005	0.02590		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g		
	0.2795	0.08328	0.4397	3.830e-5	0.3445	0.2554		

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.3445	0.2554	0.07078	0.1696	0.004331	0.006253		0	0.1491	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
16.40	938.0	0.1123	0.3268	0.4716	0.05431	0.004230	0.6047		
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)			
	0.4939	0.4518	0.1112	0.02893	0.3075	0.02695			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g			
	0.2738	0.08676	0.4409	3.797e-5	0.3520	0.2553			

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.3520	0.2553	0.06781	0.1668	0.004232	0.006267		0	0.1476	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
16.60	945.5	0.1135	0.3295	0.4714	0.05639	0.004426	0.6079		
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)			
	0.4874	0.4515	0.1117	0.02959	0.3146	0.02801			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g			
	0.2680	0.09039	0.4419	3.762e-5	0.3594	0.2551			

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.3594	0.2551	0.06489	0.1641	0.004133	0.006282		0	0.1461	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
16.80	952.7	0.1147	0.3321	0.4715	0.05845	0.004625	0.6109		
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)			
	0.4812	0.4513	0.1121	0.03024	0.3219	0.02909			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g			
	0.2619	0.09418	0.4429	3.727e-5	0.3668	0.2549			

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.3668	0.2549	0.06202	0.1613	0.004035	0.006298		0	0.1446	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
17.00	959.8	0.1158	0.3346	0.4719	0.06049	0.004826	0.6138		
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)			
	0.4751	0.4511	0.1125	0.03088	0.3294	0.03019			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g			
	0.2557	0.09813	0.4437	3.692e-5	0.3741	0.2547			

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.3741	0.2547	0.05921	0.1586	0.003937	0.006313		0	0.1432	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
17.20	966.8	0.1168	0.3369	0.4726	0.06249	0.005031	0.6166		
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)			
	0.4693	0.4508	0.1128	0.03152	0.3370	0.03132			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g			
	0.2493	0.1023	0.4443	3.655e-5	0.3814	0.2545			

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.3814	0.2545	0.05647	0.1558	0.003840	0.006329		0	0.1417	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
17.40	973.6	0.1177	0.3392	0.4735	0.06447	0.005239	0.6193		
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)			
	0.4636	0.4505	0.1132	0.03216	0.3448	0.03247			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g			
	0.2428	0.1066	0.4449	3.619e-5	0.3886	0.2543			

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.3886	0.2543	0.05382	0.1529	0.003745	0.006344		0	0.1403	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
17.60	980.2	0.1186	0.3414	0.4749	0.06641	0.005450	0.6219		
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)			
	0.4582	0.4502	0.1135	0.03278	0.3528	0.03365			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g			
	0.2362	0.1111	0.4454	3.582e-5	0.3957	0.2540			

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.3957	0.2540	0.05126	0.1500	0.003650	0.006360		0	0.1390	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
18.00	993.0	0.1202	0.3455	0.4785	0.07020	0.005881	0.6268		
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)			
	0.4478	0.4496	0.1141	0.03402	0.3695	0.03611			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g			
	0.2227	0.1209	0.4462	3.509e-5	0.4098	0.2534			

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.4098	0.2534	0.04649	0.1441	0.003463	0.006391		0	0.1363	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
18.20	999.3	0.1209	0.3475	0.4808	0.07205	0.006102	0.6291		
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)			
	0.4428	0.4493	0.1144	0.03462	0.3781	0.03741			
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g			
	0.2158	0.1261	0.4464	3.472e-5	0.4168	0.2531			

mode	liq	g	ksp	pl	ilm	ru	ky	q		
	0.4168	0.2531	0.04431	0.1410	0.003372	0.006407		0	0.1350	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 947.5 0.1577 0.3627 0.4303 0.04646 0.01482 0.5954
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4114 0.1874 0.1708 0.04724 0.2409 0.1776
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4337 0.08399 0.02638 0.3013 0.03165 0.3382
 k(pl) x(ilm) Q(ilm)
 0.07975 0.59790.0002007

mode liq bi g ksp pl ilm ru q
 0.4677 0 0.2256 0.004103 0.1851 0.006731 0.005321 0.1054

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 945.1 0.1540 0.3596 0.4341 0.04640 0.01374 0.5958
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4195 0.1876 0.1747 0.04829 0.2386 0.1771
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4360 0.08670 0.02681 0.3007 0.03110 0.3348
 k(pl) x(ilm) Q(ilm)
 0.07961 0.58810.0001700

mode liq bi g ksp pl ilm ru q
 0.4545 0 0.2289 0.01139 0.1837 0.006447 0.005424 0.1097

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 942.5 0.1504 0.3563 0.4379 0.04632 0.01267 0.5961
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4276 0.1877 0.1790 0.04938 0.2363 0.1764
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4381 0.08927 0.02716 0.2999 0.03052 0.3315
 k(pl) x(ilm) Q(ilm)
 0.07940 0.57800.0001459

mode liq bi g ksp pl ilm ru q
 0.4416 0 0.2321 0.01847 0.1823 0.006183 0.005521 0.1139

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 939.7 0.1467 0.3530 0.4417 0.04620 0.01162 0.5962
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4359 0.1877 0.1837 0.05051 0.2339 0.1756
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4401 0.09170 0.02744 0.2990 0.02991 0.3282
 k(pl) x(ilm) Q(ilm)
 0.07910 0.56730.0001265

mode liq bi g ksp pl ilm ru q
 0.4289 0 0.2350 0.02533 0.1812 0.005940 0.005611 0.1180

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.40 936.7 0.1429 0.3496 0.4454 0.04605 0.01060 0.5961

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4442 0.1876 0.1889 0.05168 0.2315 0.1746
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4419 0.09398 0.02765 0.2978 0.02926 0.3251
 k(pl) x(ilm) Q(ilm)
 0.07873 0.55630.0001107

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.4167	0	0.2379	0.03193	0.1802	0.005720	0.005694	0.1219

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.60 933.6 0.1392 0.3461 0.4491 0.04589 0.009627 0.5959
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4526 0.1874 0.1946 0.05286 0.2291 0.1734
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4436 0.09610 0.02778 0.2964 0.02859 0.3221
 k(pl) x(ilm) Q(ilm)
 0.07827 0.5449 9.765e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.4049	0	0.2405	0.03826	0.1793	0.005523	0.005770	0.1257

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.80 930.3 0.1355 0.3425 0.4527 0.04570 0.008700 0.5954
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4610 0.1870 0.2007 0.05406 0.2267 0.1721
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4451 0.09805 0.02783 0.2947 0.02790 0.3191
 k(pl) x(ilm) Q(ilm)
 0.07774 0.5333 8.669e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3934	0	0.2429	0.04429	0.1787	0.005351	0.005840	0.1294

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.00 926.8 0.1318 0.3388 0.4561 0.04551 0.007827 0.5949
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4693 0.1866 0.2072 0.05526 0.2242 0.1705
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4465 0.09986 0.02781 0.2929 0.02720 0.3163
 k(pl) x(ilm) Q(ilm)
 0.07713 0.5213 7.742e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3825	0	0.2452	0.05001	0.1783	0.005202	0.005902	0.1330

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.20 923.2 0.1282 0.3351 0.4594 0.04530 0.007013 0.5941
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4777 0.1861 0.2142 0.05646 0.2218 0.1688

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4477 0.1015 0.02771 0.2909 0.02648 0.3136
 k(pl) x(ilm) Q(ilm)
 0.07645 0.5092 6.951e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3719	0	0.2472	0.05541	0.1780	0.005075	0.005959	0.1364

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.40 919.5 0.1246 0.3314 0.4624 0.04508 0.006259 0.5933
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4860 0.1854 0.2216 0.05763 0.2193 0.1669
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4488 0.1030 0.02754 0.2887 0.02575 0.3109
 k(pl) x(ilm) Q(ilm)
 0.07571 0.4969 6.271e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3618	0	0.2490	0.06050	0.1780	0.004970	0.006010	0.1397

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.60 915.7 0.1209 0.3277 0.4654 0.04489 0.005575 0.5923
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4942 0.1848 0.2296 0.05878 0.2169 0.1649
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4497 0.1044 0.02730 0.2864 0.02503 0.3084
 k(pl) x(ilm) Q(ilm)
 0.07494 0.4847 5.688e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3522	0	0.2507	0.06527	0.1781	0.004885	0.006055	0.1429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 912.0 0.1173 0.3240 0.4682 0.04471 0.004956 0.5913
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5023 0.1840 0.2379 0.05987 0.2146 0.1626
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4506 0.1057 0.02701 0.2840 0.02432 0.3060
 k(pl) x(ilm) Q(ilm)
 0.07413 0.4726 5.184e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3430	0	0.2521	0.06971	0.1783	0.004818	0.006095	0.1460

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 908.2 0.1136 0.3204 0.4708 0.04455 0.004398 0.5901
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5103 0.1832 0.2467 0.06092 0.2122 0.1602
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4513 0.1068 0.02666 0.2815 0.02362 0.3036

k(pl) x(ilm) Q(ilm)
0.07330 0.4605 4.745e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.3343	0	0.2535	0.07386	0.1786	0.004768	0.006132	0.1489	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 904.5 0.1100 0.3167 0.4732 0.04440 0.003895 0.5889
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5181 0.1824 0.2559 0.06190 0.2099 0.1576
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4520 0.1079 0.02627 0.2789 0.02293 0.3013
k(pl) x(ilm) Q(ilm)
0.07244 0.4486 4.359e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.3259	0	0.2546	0.07771	0.1791	0.004731	0.006165	0.1518	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 900.7 0.1065 0.3131 0.4754 0.04426 0.003443 0.5876
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5257 0.1815 0.2655 0.06282 0.2077 0.1549
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4525 0.1089 0.02584 0.2762 0.02225 0.2991
k(pl) x(ilm) Q(ilm)
0.07157 0.4368 4.019e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.3181	0	0.2556	0.08129	0.1796	0.004706	0.006195	0.1545	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 896.9 0.1030 0.3095 0.4774 0.04414 0.003040 0.5863
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5332 0.1806 0.2754 0.06366 0.2055 0.1521
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4530 0.1098 0.02538 0.2735 0.02159 0.2968
k(pl) x(ilm) Q(ilm)
0.07068 0.4252 3.717e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
0.3106	0	0.2566	0.08461	0.1803	0.004691	0.006222	0.1570	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 893.1 0.09966 0.3060 0.4791 0.04403 0.002681 0.5849
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5405 0.1796 0.2857 0.06442 0.2033 0.1491
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4535 0.1107 0.02489 0.2707 0.02094 0.2946
k(pl) x(ilm) Q(ilm)
0.06979 0.4137 3.448e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3035	0	0.2574	0.08767	0.1811	0.004685	0.006247	0.1595

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	889.3	0.09635	0.3025	0.4806	0.04394	0.002362	0.5835
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5477	0.1787	0.2964	0.06509	0.2011	0.1461	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4539	0.1115	0.02438	0.2679	0.02030	0.2924	
	k(pl)	x(ilm)	Q(ilm)				
	0.06889	0.4025	3.208e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2967	0	0.2581	0.09049	0.1819	0.004687	0.006270	0.1618

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	885.5	0.09313	0.2990	0.4818	0.04386	0.002079	0.5820
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5546	0.1777	0.3073	0.06567	0.1990	0.1429	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4542	0.1122	0.02385	0.2650	0.01969	0.2902	
	k(pl)	x(ilm)	Q(ilm)				
	0.06800	0.3915	2.992e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2903	0	0.2588	0.09309	0.1828	0.004695	0.006292	0.1641

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.40	881.8	0.09000	0.2956	0.4827	0.04381	0.001828	0.5805
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5614	0.1767	0.3186	0.06616	0.1969	0.1397	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4545	0.1129	0.02330	0.2622	0.01908	0.2880	
	k(pl)	x(ilm)	Q(ilm)				
	0.06711	0.3808	2.797e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2843	0	0.2593	0.09548	0.1837	0.004708	0.006312	0.1662

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	878.0	0.08696	0.2922	0.4834	0.04377	0.001607	0.5790
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5680	0.1758	0.3301	0.06655	0.1948	0.1363	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4548	0.1136	0.02275	0.2594	0.01850	0.2858	
	k(pl)	x(ilm)	Q(ilm)				
	0.06622	0.3703	2.621e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
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0.2785 0 0.2599 0.09767 0.1847 0.004726 0.006331 0.1682

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 874.4 0.08401 0.2889 0.4838 0.04376 0.001413 0.5774
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5744 0.1748 0.3418 0.06684 0.1928 0.1329
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4550 0.1142 0.02219 0.2565 0.01793 0.2835
k(pl) x(ilm) Q(ilm)
0.06535 0.3600 2.461e-5

mode liq bi g ksp pl ilm ru q
0.2731 0 0.2603 0.09967 0.1857 0.004746 0.006349 0.1701

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 870.7 0.08116 0.2856 0.4839 0.04376 0.001241 0.5759
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5805 0.1738 0.3537 0.06703 0.1909 0.1295
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4552 0.1149 0.02163 0.2537 0.01738 0.2813
k(pl) x(ilm) Q(ilm)
0.06449 0.3501 2.316e-5

mode liq bi g ksp pl ilm ru q
0.2679 0 0.2607 0.1015 0.1868 0.004770 0.006366 0.1719

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 867.1 0.07840 0.2824 0.4837 0.04379 0.001090 0.5743
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5865 0.1729 0.3658 0.06713 0.1889 0.1260
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4554 0.1155 0.02107 0.2509 0.01685 0.2790
k(pl) x(ilm) Q(ilm)
0.06364 0.3404 2.184e-5

mode liq bi g ksp pl ilm ru q
0.2630 0 0.2611 0.1032 0.1879 0.004796 0.006383 0.1736

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 863.6 0.07573 0.2792 0.4832 0.043830.0009581 0.5728
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5923 0.1719 0.3780 0.06713 0.1870 0.1225
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4556 0.1160 0.02052 0.2481 0.01634 0.2767
k(pl) x(ilm) Q(ilm)
0.06281 0.3310 2.063e-5

mode liq bi g ksp pl ilm ru q
0.2584 0 0.2615 0.1047 0.1890 0.004823 0.006398 0.1752

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.60 860.1 0.07316 0.2762 0.4823 0.043910.0008419 0.5712
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5978 0.1710 0.3904 0.06703 0.1851 0.1190
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4558 0.1166 0.01997 0.2454 0.01584 0.2744
 k(pl) x(ilm) Q(ilm)
 0.06199 0.3219 1.952e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2540	0	0.2618	0.1060	0.1901	0.004851	0.006413	0.1768

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.80 856.7 0.07068 0.2731 0.4812 0.044000.0007400 0.5697
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6032 0.1701 0.4028 0.06684 0.1833 0.1154
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4559 0.1171 0.01942 0.2427 0.01536 0.2720
 k(pl) x(ilm) Q(ilm)
 0.06119 0.3131 1.850e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2499	0	0.2621	0.1073	0.1912	0.004880	0.006428	0.1783

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.00 853.4 0.06829 0.2702 0.4798 0.044110.0006506 0.5681
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6084 0.1692 0.4153 0.06656 0.1815 0.1118
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4560 0.1177 0.01888 0.2400 0.01490 0.2697
 k(pl) x(ilm) Q(ilm)
 0.06041 0.3045 1.755e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2460	0	0.2624	0.1083	0.1923	0.004910	0.006442	0.1796

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.20 850.1 0.06598 0.2673 0.4781 0.044250.0005723 0.5666
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6134 0.1684 0.4278 0.06620 0.1798 0.1083
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4562 0.1182 0.01836 0.2374 0.01446 0.2673
 k(pl) x(ilm) Q(ilm)
 0.05966 0.2962 1.669e-5

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2423	0	0.2626	0.1093	0.1934	0.004939	0.006455	0.1810

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.40 846.9 0.06377 0.2645 0.4760 0.044420.0005037 0.5651

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6181 0.1675 0.4402 0.06577 0.1780 0.1048
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4563 0.1187 0.01784 0.2348 0.01403 0.2648
 k(pl) x(ilm) Q(ilm)
 0.05892 0.2882 1.588e-5

mode liq bi g ksp pl ilm ru q
 0.2388 0 0.2629 0.1102 0.1946 0.004969 0.006468 0.1822

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.60 843.8 0.06163 0.2618 0.4736 0.044600.0004435 0.5637
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6227 0.1667 0.4526 0.06525 0.1763 0.1013
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4564 0.1193 0.01734 0.2323 0.01362 0.2624
 k(pl) x(ilm) Q(ilm)
 0.05820 0.2805 1.514e-5

mode liq bi g ksp pl ilm ru q
 0.2354 0 0.2631 0.1109 0.1957 0.004998 0.006481 0.1834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.80 840.7 0.05958 0.2591 0.4709 0.044810.0003908 0.5622
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6271 0.1659 0.4649 0.06467 0.1747 0.09784
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4565 0.1198 0.01684 0.2298 0.01322 0.2599
 k(pl) x(ilm) Q(ilm)
 0.05750 0.2730 1.445e-5

mode liq bi g ksp pl ilm ru q
 0.2323 0 0.2633 0.1116 0.1968 0.005027 0.006493 0.1845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.80 826.6 0.05044 0.2468 0.4527 0.046210.0002098 0.5555
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6465 0.1623 0.5244 0.06096 0.1668 0.08141
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4569 0.1223 0.01458 0.2182 0.01145 0.2471
 k(pl) x(ilm) Q(ilm)
 0.05430 0.2392 1.164e-5

mode liq bi g ksp pl ilm ru q
 0.2191 0 0.2643 0.1135 0.2021 0.005163 0.006549 0.1893

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 20.00 824.0 0.04882 0.2446 0.4481 0.046560.0001857 0.5542
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6499 0.1616 0.5357 0.06009 0.1653 0.07833

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4569 0.1228 0.01417 0.2160 0.01114 0.2444
 k(pl) x(ilm) Q(ilm)
 0.05371 0.2332 1.118e-5

mode liq bi g ksp pl ilm ru q
 0.2168 0 0.2644 0.1137 0.2031 0.005188 0.006559 0.1902

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, (q)

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 8.80 839.1 0.1479 0.3054 0.5445 0.02165 0.004770 0.6799
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4978 0.3162 0.3748 0.03674 0.1735 0.1759
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6073 0.02822 0.004736 0.4206 0.03265 0.6708
 Q(ilm)
 -0.00015

mode liq bi g pl ilm ru ky q
 0.2515 0.1701 0.09484 0.2683 0.01052 4.564e-6 0 0.2048

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.00 841.7 0.1469 0.3067 0.5379 0.02229 0.004790 0.6790
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4975 0.3131 0.3717 0.03742 0.1749 0.1760
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6043 0.02936 0.004951 0.4188 0.03382 0.6650
 Q(ilm)
 -0.00016

mode liq bi g pl ilm ru ky q
 0.2539 0.1667 0.09776 0.2678 0.010340.0001402 0 0.2034

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.20 844.3 0.1459 0.3080 0.5314 0.02295 0.004805 0.6780
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4972 0.3100 0.3686 0.03811 0.1763 0.1760
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.6013 0.03055 0.005175 0.4168 0.03502 0.6591
 Q(ilm)
 -0.00018

mode liq bi g pl ilm ru ky q

0.2562 0.1632 0.1007 0.2674 0.010160.0002757 0 0.2020

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 846.8 0.1449 0.3092 0.5249 0.02361 0.004815 0.6769
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4970 0.3069 0.3655 0.03880 0.1777 0.1760
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5983 0.03179 0.005410 0.4148 0.03624 0.6532
Q(ilm)
-0.0002

mode liq bi g pl ilm ru ky q
0.2586 0.1597 0.1037 0.2670 0.0099830.0004111 0 0.2006

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 849.2 0.1439 0.3103 0.5184 0.02429 0.004821 0.6758
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4969 0.3037 0.3624 0.03949 0.1790 0.1760
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5952 0.03308 0.005655 0.4126 0.03749 0.6472
Q(ilm)
-0.00022

mode liq bi g pl ilm ru ky q
0.2609 0.1562 0.1067 0.2665 0.0098120.0005467 0 0.1993

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 851.5 0.1429 0.3114 0.5119 0.02497 0.004823 0.6746
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4967 0.3005 0.3593 0.04018 0.1804 0.1760
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5922 0.03442 0.005913 0.4102 0.03877 0.6412
Q(ilm)
-0.00026

mode liq bi g pl ilm ru ky q
0.2632 0.1527 0.1097 0.2661 0.0096450.0006823 0 0.1979

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 853.9 0.1419 0.3124 0.5055 0.02566 0.004820 0.6733
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2973 0.3562 0.04088 0.1817 0.1760
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5890 0.03582 0.006183 0.4078 0.04008 0.6352
Q(ilm)
-0.00031

mode liq bi g pl ilm ru ky q
0.2654 0.1492 0.1128 0.2657 0.0094820.0008182 0 0.1966

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.20 856.1 0.1409 0.3134 0.4991 0.02636 0.004813 0.6720
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4966 0.2941 0.3531 0.04158 0.1829 0.1759
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5859 0.03728 0.006466 0.4051 0.04143 0.6291
 Q(ilm)
 -0.00039

mode liq bi g pl ilm ru ky q
 0.2676 0.1456 0.1159 0.2653 0.0093230 0.0009545 0 0.1953

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.40 858.3 0.1400 0.3143 0.4927 0.02707 0.004802 0.6706
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4965 0.2908 0.3500 0.04228 0.1842 0.1759
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5827 0.03880 0.006764 0.4024 0.04281 0.6230
 Q(ilm)
 -0.00053

mode liq bi g pl ilm ru ky q
 0.2699 0.1420 0.1191 0.2648 0.009166 0.001091 0 0.1940

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.60 860.5 0.1390 0.3152 0.4863 0.02779 0.004786 0.6691
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4965 0.2875 0.3469 0.04298 0.1854 0.1758
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5794 0.04039 0.007077 0.3995 0.04423 0.6168
 Q(ilm)
 -0.00083

mode liq bi g pl ilm ru ky q
 0.2721 0.1383 0.1223 0.2644 0.009013 0.001229 0 0.1926

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.80 862.6 0.1380 0.3160 0.4800 0.02851 0.004766 0.6676
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4965 0.2842 0.3438 0.04369 0.1867 0.1756
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5761 0.04204 0.007407 0.3964 0.04570 0.6106
 Q(ilm)
 -0.00198

mode liq bi g pl ilm ru ky q
 0.2743 0.1347 0.1256 0.2639 0.008862 0.001367 0 0.1913

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.00 864.7 0.1370 0.3168 0.4737 0.02924 0.004743 0.6660

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4965 0.2808 0.3407 0.04440 0.1879 0.1755
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5728 0.04376 0.007754 0.3932 0.04721 0.6043
Q(ilm)

0.00493

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2765	0.1309	0.1289	0.2635	0.008714	0.001506	0	0.1900

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 866.8 0.1360 0.3176 0.4674 0.02998 0.004715 0.6644
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2774 0.3376 0.04511 0.1891 0.1753
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5694 0.04556 0.008121 0.3898 0.04877 0.5980
Q(ilm)

0.001078

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2787	0.1272	0.1323	0.2630	0.008567	0.001647	0	0.1887

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 868.8 0.1351 0.3184 0.4611 0.03072 0.004684 0.6626
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2740 0.3345 0.04583 0.1902 0.1751
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5659 0.04743 0.008507 0.3862 0.05039 0.5916
Q(ilm)

0.000599

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2809	0.1234	0.1357	0.2625	0.008422	0.001789	0	0.1874

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 870.7 0.1341 0.3191 0.4548 0.03147 0.004648 0.6608
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4967 0.2705 0.3314 0.04655 0.1914 0.1748
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5624 0.04937 0.008916 0.3824 0.05207 0.5852
Q(ilm)

0.000412

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2831	0.1195	0.1392	0.2619	0.008278	0.001932	0	0.1861

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 872.7 0.1331 0.3198 0.4486 0.03223 0.004610 0.6589
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4967 0.2670 0.3283 0.04727 0.1926 0.1745

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5588 0.05140 0.009348 0.3785 0.05382 0.5787
Q(ilm)

0.000312

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2854	0.1155	0.1429	0.2613	0.008135	0.002078	0	0.1847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 874.6 0.1322 0.3204 0.4423 0.03299 0.004568 0.6569
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4968 0.2635 0.3252 0.04800 0.1937 0.1742
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5551 0.05350 0.009805 0.3743 0.05565 0.5722
Q(ilm)

0.000249

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2876	0.1115	0.1466	0.2607	0.007993	0.002225	0	0.1834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 876.5 0.1312 0.3211 0.4361 0.03375 0.004522 0.6548
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4968 0.2599 0.3222 0.04872 0.1949 0.1738
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5513 0.05568 0.01029 0.3700 0.05756 0.5656
Q(ilm)

0.000207

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2900	0.1074	0.1504	0.2601	0.007851	0.002375	0	0.1820

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 878.4 0.1302 0.3217 0.4300 0.03452 0.004474 0.6526
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4968 0.2562 0.3191 0.04946 0.1960 0.1733
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5474 0.05795 0.01080 0.3654 0.05957 0.5590
Q(ilm)

0.000176

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2923	0.1032	0.1543	0.2594	0.007708	0.002529	0	0.1806

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 880.2 0.1293 0.3224 0.4238 0.03529 0.004422 0.6504
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4968 0.2525 0.3160 0.05019 0.1972 0.1728
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5434 0.06029 0.01135 0.3605 0.06169 0.5523

Q(ilm)

0.000153

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2948	0.09890	0.1583	0.2586	0.007565	0.002685	0	0.1791

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	882.1	0.1283	0.3230	0.4177	0.03606	0.004368	0.6480
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4968	0.2488	0.3130	0.05093	0.1983	0.1722
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5393	0.06271	0.01192	0.3554	0.06393	0.5456

Q(ilm)

0.000134

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2973	0.09449	0.1625	0.2578	0.007420	0.002845	0	0.1777

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	883.9	0.1274	0.3236	0.4116	0.03683	0.004311	0.6455
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4968	0.2450	0.3100	0.05168	0.1995	0.1715
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5351	0.06521	0.01253	0.3501	0.06631	0.5389

Q(ilm)

0.00012

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.2998	0.08997	0.1668	0.2570	0.007275	0.003008	0	0.1762

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	885.8	0.1264	0.3243	0.4057	0.03761	0.004254	0.6429
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4968	0.2411	0.3070	0.05242	0.2006	0.1708
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5307	0.06778	0.01317	0.3444	0.06885	0.5321

Q(ilm)

0.000107

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3024	0.08533	0.1712	0.2560	0.007127	0.003175	0	0.1747

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	887.7	0.1255	0.3249	0.3998	0.03838	0.004194	0.6402
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4968	0.2372	0.3040	0.05316	0.2018	0.1700
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5262	0.07042	0.01386	0.3385	0.07157	0.5253

Q(ilm)

9.73E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3051	0.08055	0.1758	0.2550	0.006977	0.003347	0	0.1731

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	889.5	0.1245	0.3256	0.3940	0.03915	0.004133	0.6374
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4968	0.2332	0.3010	0.05391	0.2029	0.1691	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5216	0.07313	0.01458	0.3322	0.07449	0.5184	
	Q(ilm)						

8.86E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3079	0.07562	0.1806	0.2540	0.006825	0.003523	0	0.1715

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	891.4	0.1235	0.3262	0.3883	0.03991	0.004071	0.6344
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4967	0.2292	0.2981	0.05466	0.2041	0.1681	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5168	0.07589	0.01534	0.3256	0.07766	0.5115	
	Q(ilm)						

8.12E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3108	0.07054	0.1855	0.2529	0.006669	0.003706	0	0.1699

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	893.3	0.1225	0.3269	0.3827	0.04067	0.004007	0.6314
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4967	0.2252	0.2952	0.05541	0.2052	0.1670	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5118	0.07871	0.01614	0.3186	0.08110	0.5046	
	Q(ilm)						

7.47E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.3137	0.06529	0.1906	0.2517	0.006509	0.003893	0	0.1682

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	895.1	0.1216	0.3275	0.3773	0.04142	0.003942	0.6282
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4966	0.2211	0.2923	0.05617	0.2064	0.1658	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5067	0.08157	0.01698	0.3112	0.08486	0.4977	
	Q(ilm)						

6.91E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.3168 0.05985 0.1960 0.2505 0.006345 0.004088 0 0.1665

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 897.0 0.1206 0.3282 0.3720 0.04216 0.003875 0.6249
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2169 0.2894 0.05692 0.2076 0.1646
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5014 0.08448 0.01787 0.3034 0.08900 0.4907
Q(ilm)

6.40E-05

mode liq bi g pl ilm ru ky q
0.3199 0.05423 0.2015 0.2492 0.006175 0.004289 0 0.1647

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 898.9 0.1196 0.3288 0.3670 0.04289 0.003808 0.6215
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2127 0.2865 0.05768 0.2087 0.1633
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4960 0.08741 0.01880 0.2951 0.09360 0.4837
Q(ilm)

5.96E-05

mode liq bi g pl ilm ru ky q
0.3230 0.04840 0.2073 0.2479 0.006000 0.004497 0 0.1629

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 900.8 0.1186 0.3293 0.3622 0.04361 0.003740 0.6179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2085 0.2837 0.05844 0.2099 0.1618
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4904 0.09038 0.01977 0.2863 0.09873 0.4766
Q(ilm)

5.56E-05

mode liq bi g pl ilm ru ky q
0.3263 0.04235 0.2133 0.2466 0.005819 0.004713 0 0.1610

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 902.7 0.1176 0.3299 0.3577 0.04431 0.003672 0.6142
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4967 0.2043 0.2808 0.05919 0.2110 0.1603
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4846 0.09338 0.02080 0.2770 0.1045 0.4695
Q(ilm)

5.20E-05

mode liq bi g pl ilm ru ky q
0.3296 0.03606 0.2195 0.2453 0.005631 0.004938 0 0.1590

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 904.5 0.1166 0.3303 0.3536 0.04499 0.003602 0.6103
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4968 0.1999 0.2780 0.05995 0.2121 0.1587
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4786 0.09641 0.02187 0.2670 0.1112 0.4624
 Q(ilm)

4.87E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3329	0.02950	0.2261	0.2439	0.005434	0.005173	0	0.1570	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 906.4 0.1156 0.3307 0.3501 0.04566 0.003532 0.6063
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4972 0.1956 0.2752 0.06072 0.2132 0.1571
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4724 0.09948 0.02300 0.2563 0.1189 0.4552
 Q(ilm)

4.57E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3363	0.02262	0.2330	0.2426	0.005227	0.005419	0	0.1549	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 908.2 0.1145 0.3309 0.3473 0.04632 0.003461 0.6020
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4976 0.1911 0.2724 0.06150 0.2143 0.1552
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4659 0.1026 0.02419 0.2447 0.1282 0.4478
 Q(ilm)

4.29E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3396	0.01533	0.2403	0.2414	0.005007	0.005681	0	0.1527	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 910.0 0.1134 0.3310 0.3456 0.04698 0.003387 0.5973
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4984 0.1864 0.2695 0.06230 0.2153 0.1533
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4590 0.1059 0.02548 0.2317 0.1397 0.4402
 Q(ilm)

4.03E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.3430	0.007441	0.2482	0.2403	0.004769	0.005963	0	0.1504	

calcs use:

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
12.20	874.3	0.1300	0.3193	0.4408	0.03335	0.004483	0.6578		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.5006	0.2638	0.3228	0.04834	0.1934	0.1754		
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
		0.5574	0.05685	0.01022	0.2460	0.02092	0.3704		
		k(pl)	x(ilm)	Q(ilm)					
		0.05652	0.56780	0.002234					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2835	0.1127	0.1463		0	0.2613	0.007843	0.0022530	0.0007734 0.1853

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
12.40	871.2	0.1265	0.3160	0.4445	0.03325	0.004347	0.6619		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.5086	0.2684	0.3209	0.04828	0.1913	0.1783		
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
		0.5666	0.06193	0.01063	0.2448	0.02045	0.3668		
		k(pl)	x(ilm)	Q(ilm)					
		0.05623	0.56540	0.002183					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2727	0.1196	0.1418		0	0.2630	0.007677	0.002157	0.002381 0.1907

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
12.60	868.2	0.1230	0.3127	0.4482	0.03315	0.004204	0.6658		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.5166	0.2729	0.3190	0.04826	0.1893	0.1812		
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)		
		0.5756	0.06760	0.01111	0.2436	0.01998	0.3632		
		k(pl)	x(ilm)	Q(ilm)					
		0.05593	0.56260	0.002116					

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2624	0.1262	0.1377		0	0.2644	0.007504	0.002075	0.003935 0.1958

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
12.80	865.1	0.1194	0.3095	0.4521	0.03303	0.004054	0.6695		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.5246	0.2772	0.3171	0.04826	0.1873	0.1841		

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5845 0.07396 0.01170 0.2424 0.01951 0.3595
k(pl) x(ilm) Q(ilm)
0.05562 0.55950.0002036

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2526	0.1325	0.1337		0	0.2656	0.007321	0.002007	0.005458 0.2007

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 861.8 0.1157 0.3062 0.4561 0.03288 0.003894 0.6730
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5327 0.2815 0.3151 0.04829 0.1853 0.1870
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5936 0.08115 0.01241 0.2411 0.01903 0.3555
k(pl) x(ilm) Q(ilm)
0.05529 0.55590.0001945

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2433	0.1386	0.1301		0	0.2666	0.007127	0.001952	0.006974 0.2054

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 858.2 0.1120 0.3029 0.4604 0.03268 0.003724 0.6764
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5409 0.2857 0.3131 0.04834 0.1832 0.1900
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6028 0.08932 0.01327 0.2398 0.01853 0.3514
k(pl) x(ilm) Q(ilm)
0.05495 0.55190.0001847

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2342	0.1445	0.1266		0	0.2674	0.006918	0.001909	0.008503 0.2100

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 854.5 0.1083 0.2994 0.4649 0.03243 0.003542 0.6797
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5492 0.2899 0.3110 0.04842 0.1810 0.1930
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6122 0.09869 0.01432 0.2384 0.01800 0.3469
k(pl) x(ilm) Q(ilm)
0.05459 0.54740.0001745

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2253	0.1504	0.1233		0	0.2679	0.006691	0.001877	0.01007 0.2145

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 850.3 0.1044 0.2958 0.4698 0.03211 0.003348 0.6830
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5578 0.2941 0.3089 0.04852 0.1788 0.1961
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6221 0.1095 0.01563 0.2370 0.01745 0.3421

k(pl) x(ilm) Q(ilm)
0.05421 0.54240.0001640

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2166	0.1562	0.1201		0	0.2682	0.006442	0.001857	0.01169 0.2189

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 845.7 0.1005 0.2921 0.4752 0.03169 0.003139 0.6861
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5668 0.2985 0.3067 0.04864 0.1764 0.1994
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6324 0.1221 0.01726 0.2355 0.01685 0.3367
k(pl) x(ilm) Q(ilm)
0.05380 0.53670.0001533

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.2079	0.1621	0.1171		0	0.2682	0.006163	0.001850	0.01341 0.2233

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 840.5 0.09641 0.2881 0.4812 0.03114 0.002913 0.6893
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5763 0.3031 0.3045 0.04878 0.1737 0.2030
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6435 0.1369 0.01934 0.2339 0.01620 0.3306
k(pl) x(ilm) Q(ilm)
0.05335 0.53040.0001426

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1992	0.1681	0.1141		0	0.2679	0.005848	0.001858	0.01525 0.2277

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 834.6 0.09211 0.2838 0.4880 0.03043 0.002668 0.6925
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5865 0.3080 0.3022 0.04895 0.1708 0.2068
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6554 0.1545 0.02203 0.2321 0.01549 0.3237
k(pl) x(ilm) Q(ilm)
0.05285 0.52310.0001317

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1903	0.1743	0.1113		0	0.2673	0.005485	0.001882	0.01726 0.2322

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 827.5 0.08752 0.2790 0.4959 0.02950 0.002398 0.6958
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5976 0.3134 0.2997 0.04913 0.1675 0.2111
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.6685 0.1757 0.02558 0.2302 0.01469 0.3156
k(pl) x(ilm) Q(ilm)
0.05227 0.51450.0001206

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1811	0.1809	0.1085		0	0.2662	0.005055	0.001927	0.01950 0.2369

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	819.0	0.08253	0.2736	0.5051	0.02829	0.002100	0.6992
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6101	0.3195	0.2972	0.04935	0.1636	0.2161	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.6832	0.2017	0.03042	0.2278	0.01376	0.3059	
	k(pl)	x(ilm)	Q(ilm)				
	0.05157	0.50430	0.0001092				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1713	0.1879	0.1058		0	0.2646	0.004531	0.002002	0.02206 0.2418

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	808.0	0.07692	0.2672	0.5162	0.02665	0.001764	0.7028
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6248	0.3267	0.2945	0.04960	0.1589	0.2220	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.7002	0.2346	0.03731	0.2248	0.01264	0.2937	
	k(pl)	x(ilm)	Q(ilm)				
	0.05068	0.4914	9.710e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1606	0.1958	0.1031		0	0.2624	0.003866	0.002118	0.02509 0.2471

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	792.9	0.07026	0.2588	0.5301	0.02434	0.001374	0.7067
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6431	0.3359	0.2913	0.04993	0.1526	0.2297	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.7208	0.2786	0.04789	0.2206	0.01122	0.2775	
	k(pl)	x(ilm)	Q(ilm)				
	0.04941	0.4736	8.348e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
	0.1482	0.2049	0.1003		0	0.2591	0.002959	0.002304	0.02893 0.2533

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.20	767.4	0.06103	0.2458	0.5494	0.020550	0.0008821	0.7109
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6704	0.3495	0.2870	0.05042	0.1425	0.2419	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.7499	0.3479	0.06770	0.2127	0.009085	0.2513	
	k(pl)	x(ilm)	Q(ilm)				
	0.04715	0.4436	6.591e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	ky	q
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0.1317 0.2173 0.09737 0 0.2536 0.001486 0.002648 0.03468 0.2613

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.11 875.6 0.1317 0.3208 0.4390 0.03339 0.004544 0.6558
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4968 0.2616 0.3236 0.04838 0.1943 0.1740
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.5531 0.05465 0.01006 0.2465 0.02113 0.3720
k(pl) x(ilm) Q(ilm)
0.05665 0.56870.0002250

mode liq bi g ksp pl ilm ru ky q
0.2889 0.1093 0.1486 0 0.2604 0.007917 0.002305 0 0.1826

calcs use:

12-Jan

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, mu, pl, ilm, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.35 586.0 0.4338 0.2024 0.03445 0.07081 0.3748 0.8697
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4575 0.07714 0.3800 0.9975 0.7945 0.4413
k(pl) x(ilm) Q(ilm)
0.002829 0.7674 0.6980

mode bi g mu pl ilm q H2O
0.2726 0 0.1034 0.2858 0.01309 0.3061 0.01897

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.40 588.7 0.4340 0.2068 0.03446 0.07134 0.3707 0.8681
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4420 0.07100 0.3808 0.9975 0.7969 0.4407
k(pl) x(ilm) Q(ilm)
0.002871 0.7667 0.6961

mode bi g mu pl ilm q H2O

0.2730 0 0.1024 0.2862 0.01303 0.3063 0.01909

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.45 591.7 0.4341 0.2117 0.03448 0.07192 0.3661 0.8661
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4247 0.06453 0.3816 0.9975 0.7997 0.4400
k(pl) x(ilm) Q(ilm)
0.002916 0.7658 0.6940

mode bi g mu pl ilm q H2O
0.2734 0 0.1012 0.2867 0.01298 0.3065 0.01923

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.50 594.9 0.4343 0.2174 0.03449 0.07255 0.3609 0.8639
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4048 0.05760 0.3825 0.9975 0.8030 0.4392
k(pl) x(ilm) Q(ilm)
0.002968 0.7649 0.6917

mode bi g mu pl ilm q H2O
0.2740 0 0.09984 0.2872 0.01291 0.3067 0.01939

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.55 598.7 0.4345 0.2244 0.03449 0.07327 0.3546 0.8610
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3808 0.04987 0.3834 0.9976 0.8070 0.4382
k(pl) x(ilm) Q(ilm)
0.003028 0.7638 0.6889

mode bi g mu pl ilm q H2O
0.2746 0 0.09816 0.2878 0.01284 0.3070 0.01959

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.60 616.3 0.4355 0.2656 0.03437 0.07642 0.3212 0.8426
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2535 0.02018 0.3866 0.9980 0.8322 0.4322
k(pl) x(ilm) Q(ilm)
0.003314 0.7581 0.6751

mode bi g mu pl ilm q H2O
0.2781 0 0.08818 0.2918 0.01248 0.3087 0.02075

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, mu, pl, ilm, ru, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

```

9.37  587.3  0.4339  0.2044  0.03446  0.07105  0.3729  0.8690
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.4505  0.07431  0.3804  0.9975  0.7956  0.4410
      k(pl)  x(ilm)  Q(ilm)
      0.002848  0.7671  0.6971

```

```

mode    bi    g    mu    pl    ilm    ru    q    H2O
      0.2728    0  0.1029  0.2860  0.01306    0  0.3062  0.01903

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : bi, mu, pl, ilm, ru, H2O, (q)

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  fe(mu)
4.00    509.0  0.4306  0.2528  0.03818  0.05503  0.3772  0.3366
      y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.9994  0.7855  0.4313  0.002056  0.7960  0.7545

```

```

mode    bi    mu    pl    ilm    ru    q    H2O
      0.2738  0.09158  0.2924  0.01395    0  0.3081  0.02008

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  fe(mu)
4.20    512.3  0.4307  0.2509  0.03804  0.05565  0.3769  0.3385
      y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.9994  0.7860  0.4317  0.002088  0.7950  0.7525

```

```

mode    bi    mu    pl    ilm    ru    q    H2O
      0.2738  0.09201  0.2922  0.01391    0  0.3081  0.02004

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  fe(mu)
4.40    515.5  0.4309  0.2490  0.03791  0.05626  0.3766  0.3404
      y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.9994  0.7864  0.4321  0.002121  0.7939  0.7505

```

```

mode    bi    mu    pl    ilm    ru    q    H2O
      0.2738  0.09245  0.2919  0.01388    0  0.3080  0.02000

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  fe(mu)
4.60    518.7  0.4310  0.2472  0.03778  0.05687  0.3764  0.3422
      y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.9993  0.7869  0.4324  0.002152  0.7929  0.7486

```

```

mode    bi    mu    pl    ilm    ru    q    H2O
      0.2737  0.09288  0.2917  0.01384    0  0.3079  0.01996

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  fe(mu)

```


4.80 521.9 0.4311 0.2453 0.03765 0.05748 0.3762 0.3440
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9993 0.7873 0.4328 0.002184 0.7919 0.7466

mode bi mu pl ilm ru q H2O
0.2737 0.09332 0.2914 0.01381 0 0.3078 0.01992

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.00 525.0 0.4312 0.2434 0.03751 0.05809 0.3760 0.3458
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9992 0.7877 0.4332 0.002215 0.7909 0.7446

mode bi mu pl ilm ru q H2O
0.2736 0.09376 0.2912 0.01378 0 0.3078 0.01987

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.20 528.1 0.4314 0.2415 0.03738 0.05870 0.3758 0.3475
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9992 0.7881 0.4335 0.002246 0.7898 0.7425

mode bi mu pl ilm ru q H2O
0.2736 0.09420 0.2909 0.01374 0 0.3077 0.01983

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.40 531.1 0.4315 0.2396 0.03724 0.05930 0.3756 0.3493
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9991 0.7885 0.4339 0.002277 0.7888 0.7405

mode bi mu pl ilm ru q H2O
0.2736 0.09464 0.2907 0.01371 0 0.3076 0.01979

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.60 534.2 0.4316 0.2378 0.03711 0.05990 0.3755 0.3510
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9991 0.7889 0.4343 0.002308 0.7877 0.7385

mode bi mu pl ilm ru q H2O
0.2735 0.09507 0.2904 0.01367 0 0.3075 0.01975

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
5.80 537.2 0.4317 0.2359 0.03697 0.06051 0.3753 0.3527
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9990 0.7893 0.4346 0.002338 0.7867 0.7364

mode bi mu pl ilm ru q H2O
0.2735 0.09551 0.2902 0.01364 0 0.3075 0.01971

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.00 540.2 0.4319 0.2341 0.03683 0.06111 0.3752 0.3544
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9990 0.7897 0.4350 0.002368 0.7856 0.7344

mode bi mu pl ilm ru q H2O
0.2734 0.09594 0.2900 0.01361 0 0.3074 0.01967

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.20 543.1 0.4320 0.2322 0.03670 0.06170 0.3750 0.3560
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9989 0.7901 0.4354 0.002398 0.7846 0.7323

mode bi mu pl ilm ru q H2O
0.2734 0.09637 0.2897 0.01357 0 0.3073 0.01963

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.40 546.1 0.4321 0.2304 0.03656 0.06230 0.3749 0.3577
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9989 0.7904 0.4357 0.002428 0.7835 0.7302

mode bi mu pl ilm ru q H2O
0.2733 0.09680 0.2895 0.01354 0 0.3072 0.01959

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.60 549.0 0.4322 0.2285 0.03642 0.06290 0.3747 0.3593
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9988 0.7908 0.4361 0.002458 0.7825 0.7281

mode bi mu pl ilm ru q H2O
0.2733 0.09723 0.2892 0.01351 0 0.3072 0.01955

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
6.80 551.9 0.4324 0.2267 0.03628 0.06349 0.3746 0.3609
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9987 0.7912 0.4365 0.002487 0.7814 0.7259

mode bi mu pl ilm ru q H2O
0.2733 0.09766 0.2890 0.01348 0 0.3071 0.01951

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.00 554.7 0.4325 0.2249 0.03614 0.06409 0.3745 0.3625
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9986 0.7915 0.4368 0.002517 0.7803 0.7238

mode bi mu pl ilm ru q H2O
0.2732 0.09808 0.2888 0.01344 0 0.3070 0.01947

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
7.20 557.6 0.4326 0.2231 0.03600 0.06468 0.3743 0.3641
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9986 0.7919 0.4372 0.002546 0.7792 0.7216

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2732	0.09850	0.2885	0.01341		0	0.3069 0.01943

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
7.40	560.4	0.4327	0.2213	0.03586	0.06527	0.3742	0.3657
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9985	0.7922	0.4375	0.002575	0.7781	0.7194

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2731	0.09892	0.2883	0.01338		0	0.3069 0.01940

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
7.60	563.2	0.4328	0.2196	0.03572	0.06586	0.3741	0.3672
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9984	0.7926	0.4379	0.002603	0.7770	0.7173

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2731	0.09934	0.2880	0.01335		0	0.3068 0.01936

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
7.80	566.0	0.4330	0.2178	0.03558	0.06645	0.3739	0.3688
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9983	0.7929	0.4382	0.002632	0.7759	0.7150

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2731	0.09975	0.2878	0.01331		0	0.3067 0.01932

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.00	568.8	0.4331	0.2161	0.03544	0.06704	0.3738	0.3703
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9982	0.7933	0.4386	0.002660	0.7748	0.7128

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2730	0.1002	0.2876	0.01328		0	0.3067 0.01928

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.20	571.5	0.4332	0.2143	0.03529	0.06763	0.3737	0.3718
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9981	0.7936	0.4390	0.002688	0.7737	0.7106

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2730	0.1006	0.2874	0.01325		0	0.3066 0.01924

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.40	574.2	0.4333	0.2126	0.03515	0.06821	0.3736	0.3733
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9980	0.7940	0.4393	0.002716	0.7726	0.7083

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2730	0.1010	0.2871	0.01322		0	0.3065 0.01921

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.60	576.9	0.4334	0.2109	0.03501	0.06880	0.3734	0.3748
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9979	0.7943	0.4397	0.002743	0.7715	0.7061	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2729	0.1014	0.2869	0.01318		0	0.3065 0.01917

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
8.80	579.6	0.4336	0.2092	0.03487	0.06938	0.3733	0.3762
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9978	0.7946	0.4400	0.002771	0.7704	0.7038	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2729	0.1018	0.2867	0.01315		0	0.3064 0.01913

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.00	582.3	0.4337	0.2075	0.03472	0.06997	0.3732	0.3777
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9977	0.7950	0.4404	0.002798	0.7692	0.7015	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2728	0.1022	0.2864	0.01312		0	0.3063 0.01910

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.20	585.0	0.4338	0.2059	0.03458	0.07055	0.3730	0.3791
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9976	0.7953	0.4407	0.002825	0.7681	0.6991	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2728	0.1026	0.2862	0.01309		0	0.3062 0.01906

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.40	587.6	0.4339	0.2042	0.03444	0.07113	0.3729	0.3806
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9975	0.7956	0.4410	0.002852	0.7669	0.6968	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2728	0.1030	0.2860	0.01306		0	0.3062 0.01902

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
9.60	590.3	0.4340	0.2025	0.03429	0.07171	0.3728	0.3820
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9973	0.7960	0.4414	0.002878	0.7658	0.6944	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2727	0.1034	0.2858	0.01303		0	0.3061 0.01899

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
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9.80 592.9 0.4342 0.2009 0.03415 0.07229 0.3726 0.3834
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.7963 0.4417 0.002905 0.7646 0.6921

mode bi mu pl ilm ru q H2O
0.2727 0.1038 0.2855 0.01299 0 0.3060 0.01895

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.00 595.5 0.4343 0.1993 0.03401 0.07287 0.3725 0.3848
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.7966 0.4421 0.002931 0.7635 0.6897

mode bi mu pl ilm ru q H2O
0.2727 0.1042 0.2853 0.01296 0 0.3060 0.01892

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.20 598.0 0.4344 0.1977 0.03386 0.07345 0.3724 0.3861
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9969 0.7969 0.4424 0.002956 0.7623 0.6873

mode bi mu pl ilm ru q H2O
0.2726 0.1045 0.2851 0.01293 0 0.3059 0.01888

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.40 600.6 0.4345 0.1960 0.03372 0.07402 0.3723 0.3875
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9968 0.7972 0.4428 0.002982 0.7612 0.6849

mode bi mu pl ilm ru q H2O
0.2726 0.1049 0.2849 0.01290 0 0.3058 0.01884

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.60 603.2 0.4346 0.1944 0.03358 0.07460 0.3721 0.3889
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9966 0.7975 0.4431 0.003007 0.7600 0.6824

mode bi mu pl ilm ru q H2O
0.2726 0.1053 0.2847 0.01287 0 0.3058 0.01881

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
10.80 605.7 0.4347 0.1929 0.03343 0.07517 0.3720 0.3902
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9964 0.7979 0.4434 0.003032 0.7588 0.6799

mode bi mu pl ilm ru q H2O
0.2725 0.1057 0.2844 0.01284 0 0.3057 0.01877

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.00 608.2 0.4349 0.1913 0.03329 0.07574 0.3719 0.3915
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9963 0.7982 0.4438 0.003057 0.7576 0.6775

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2725	0.1061	0.2842	0.01281		0	0.3056 0.01874

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.20 610.7 0.4350 0.1897 0.03314 0.07632 0.3717 0.3929
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9961 0.7985 0.4441 0.003081 0.7564 0.6750

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2725	0.1065	0.2840	0.01278		0	0.3056 0.01870

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.40 613.2 0.4351 0.1881 0.03300 0.07689 0.3716 0.3942
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9959 0.7988 0.4445 0.003105 0.7553 0.6725

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2724	0.1069	0.2838	0.01275		0	0.3055 0.01867

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.60 615.7 0.4352 0.1866 0.03285 0.07745 0.3715 0.3955
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9957 0.7990 0.4448 0.003129 0.7541 0.6699

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2724	0.1072	0.2836	0.01272		0	0.3054 0.01864

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
11.80 618.1 0.4353 0.1850 0.03271 0.07802 0.3714 0.3968
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9955 0.7993 0.4451 0.003152 0.7529 0.6674

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2724	0.1076	0.2834	0.01269		0	0.3054 0.01860

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.00 620.6 0.4354 0.1835 0.03256 0.07859 0.3713 0.3980
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9953 0.7996 0.4455 0.003175 0.7517 0.6648

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2723	0.1080	0.2831	0.01265		0	0.3053 0.01857

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
12.20 623.0 0.4356 0.1820 0.03242 0.07915 0.3711 0.3993
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9951 0.7999 0.4458 0.003198 0.7504 0.6622

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2723	0.1084	0.2829	0.01262		0	0.3052 0.01853

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
12.40	625.4	0.4357	0.1805	0.03227	0.07971	0.3710	0.4006
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9949	0.8002	0.4461	0.003220	0.7492	0.6596

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2723	0.1087	0.2827	0.01259		0	0.3052 0.01850

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
12.60	627.8	0.4358	0.1789	0.03213	0.08028	0.3709	0.4018
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9946	0.8004	0.4465	0.003243	0.7480	0.6570

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2722	0.1091	0.2825	0.01256		0	0.3051 0.01846

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
12.80	630.2	0.4359	0.1774	0.03198	0.08084	0.3708	0.4031
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9944	0.8007	0.4468	0.003264	0.7468	0.6544

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2722	0.1095	0.2823	0.01253		0	0.3051 0.01843

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.00	632.6	0.4360	0.1759	0.03184	0.08139	0.3707	0.4043
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9941	0.8010	0.4471	0.003286	0.7456	0.6517

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2721	0.1099	0.2821	0.01251		0	0.3050 0.01840

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.20	635.0	0.4361	0.1744	0.03169	0.08195	0.3706	0.4055
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9939	0.8012	0.4475	0.003307	0.7443	0.6490

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2721	0.1103	0.2819	0.01248		0	0.3049 0.01836

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.40	637.3	0.4362	0.1730	0.03154	0.08251	0.3705	0.4067
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9936	0.8015	0.4478	0.003327	0.7431	0.6463

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2721	0.1106	0.2817	0.01245		0	0.3049 0.01833

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.60	639.7	0.4363	0.1715	0.03140	0.08306	0.3704	0.4079
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9933	0.8017	0.4482	0.003347	0.7419	0.6436	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2720	0.1110	0.2814	0.01242		0	0.3048 0.01829

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
13.80	642.0	0.4364	0.1700	0.03125	0.08361	0.3703	0.4091
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9930	0.8019	0.4485	0.003367	0.7406	0.6409	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2720	0.1114	0.2812	0.01239		0	0.3047 0.01826

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.00	644.3	0.4366	0.1685	0.03110	0.08416	0.3702	0.4103
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9927	0.8022	0.4488	0.003386	0.7394	0.6381	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2720	0.1118	0.2810	0.01236		0	0.3047 0.01822

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.20	646.6	0.4367	0.1671	0.03096	0.08471	0.3701	0.4114
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9924	0.8024	0.4492	0.003405	0.7381	0.6354	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2719	0.1121	0.2808	0.01233		0	0.3046 0.01819

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.40	648.8	0.4368	0.1656	0.03081	0.08525	0.3700	0.4126
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9921	0.8026	0.4495	0.003424	0.7369	0.6326	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2719	0.1125	0.2806	0.01230		0	0.3045 0.01816

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
14.60	651.1	0.4369	0.1641	0.03066	0.08580	0.3699	0.4137
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9917	0.8028	0.4498	0.003442	0.7356	0.6298	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2718	0.1129	0.2804	0.01227		0	0.3045 0.01812

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
---------	-------	-------	-------	-------	-------	-------	--------

14.80 653.3 0.4370 0.1627 0.03051 0.08634 0.3698 0.4149
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9914 0.8030 0.4502 0.003459 0.7343 0.6270

mode bi mu pl ilm ru q H2O
0.2718 0.1133 0.2802 0.01225 0 0.3044 0.01809

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.00 655.6 0.4371 0.1612 0.03036 0.08688 0.3697 0.4160
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9910 0.8032 0.4505 0.003476 0.7331 0.6241

mode bi mu pl ilm ru q H2O
0.2718 0.1137 0.2800 0.01222 0 0.3043 0.01805

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.20 657.8 0.4372 0.1598 0.03021 0.08741 0.3697 0.4171
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9907 0.8034 0.4509 0.003492 0.7318 0.6213

mode bi mu pl ilm ru q H2O
0.2717 0.1141 0.2798 0.01219 0 0.3043 0.01802

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.40 660.0 0.4373 0.1583 0.03007 0.08795 0.3696 0.4182
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9903 0.8035 0.4512 0.003508 0.7305 0.6184

mode bi mu pl ilm ru q H2O
0.2717 0.1144 0.2795 0.01216 0 0.3042 0.01798

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.60 662.2 0.4374 0.1569 0.02992 0.08848 0.3695 0.4193
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9899 0.8037 0.4515 0.003524 0.7293 0.6155

mode bi mu pl ilm ru q H2O
0.2716 0.1148 0.2793 0.01214 0 0.3041 0.01795

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
15.80 664.3 0.4375 0.1555 0.02977 0.08901 0.3695 0.4204
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9894 0.8039 0.4519 0.003539 0.7280 0.6126

mode bi mu pl ilm ru q H2O
0.2716 0.1152 0.2791 0.01211 0 0.3041 0.01791

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
16.00 666.5 0.4376 0.1540 0.02962 0.08953 0.3694 0.4215
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9890 0.8040 0.4522 0.003553 0.7267 0.6097

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2715	0.1156	0.2789	0.01208		0	0.3040 0.01788

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
16.20	668.6	0.4377	0.1526	0.02946	0.09006	0.3694	0.4226
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9886	0.8041	0.4526	0.003567	0.7254	0.6067

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2715	0.1160	0.2787	0.01206		0	0.3039 0.01784

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
16.40	670.8	0.4378	0.1512	0.02931	0.09058	0.3693	0.4236
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9881	0.8043	0.4529	0.003580	0.7241	0.6038

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2714	0.1164	0.2785	0.01203		0	0.3039 0.01780

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
16.60	672.9	0.4379	0.1497	0.02916	0.09110	0.3693	0.4247
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9876	0.8044	0.4533	0.003593	0.7229	0.6008

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2714	0.1168	0.2783	0.01200		0	0.3038 0.01777

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
16.80	675.0	0.4380	0.1483	0.02901	0.09161	0.3693	0.4257
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9871	0.8045	0.4536	0.003605	0.7216	0.5978

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2713	0.1172	0.2781	0.01198		0	0.3037 0.01773

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.00	677.0	0.4381	0.1469	0.02886	0.09213	0.3692	0.4268
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9866	0.8046	0.4540	0.003616	0.7203	0.5948

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2712	0.1176	0.2778	0.01195		0	0.3037 0.01769

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.20	679.1	0.4382	0.1455	0.02870	0.09264	0.3692	0.4278
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9860	0.8047	0.4543	0.003627	0.7190	0.5918

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2712	0.1180	0.2776	0.01193		0	0.3036 0.01766

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.40	681.2	0.4383	0.1441	0.02855	0.09314	0.3692	0.4288
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9855	0.8048	0.4547	0.003637	0.7177	0.5887

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2711	0.1184	0.2774	0.01190		0	0.3035 0.01762

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.60	683.2	0.4384	0.1426	0.02839	0.09365	0.3692	0.4298
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9849	0.8048	0.4550	0.003646	0.7164	0.5857

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2711	0.1188	0.2772	0.01188		0	0.3035 0.01758

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
17.80	685.2	0.4385	0.1412	0.02824	0.09415	0.3692	0.4308
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9843	0.8049	0.4554	0.003655	0.7151	0.5826

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2710	0.1192	0.2770	0.01186		0	0.3034 0.01754

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.00	687.2	0.4386	0.1398	0.02808	0.09464	0.3692	0.4318
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9837	0.8049	0.4558	0.003663	0.7138	0.5796

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2709	0.1197	0.2768	0.01183		0	0.3033 0.01750

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.20	689.2	0.4387	0.1384	0.02792	0.09513	0.3693	0.4328
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9831	0.8049	0.4561	0.003670	0.7126	0.5765

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2709	0.1201	0.2765	0.01181		0	0.3033 0.01746

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.40	691.1	0.4388	0.1370	0.02777	0.09562	0.3693	0.4337
		y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.9824	0.8049	0.4565	0.003676	0.7113	0.5734

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2708	0.1205	0.2763	0.01179		0	0.3032 0.01743

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.60	693.1	0.4389	0.1355	0.02761	0.09611	0.3693	0.4347
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9817	0.8049	0.4569	0.003682	0.7100	0.5703	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2707	0.1209	0.2761	0.01176		0	0.3031 0.01738

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
18.80	695.0	0.4389	0.1341	0.02745	0.09659	0.3694	0.4357
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9810	0.8049	0.4572	0.003687	0.7087	0.5671	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2706	0.1214	0.2759	0.01174		0	0.3030 0.01734

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.00	696.9	0.4390	0.1327	0.02729	0.09707	0.3694	0.4366
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9802	0.8049	0.4576	0.003691	0.7074	0.5640	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2706	0.1218	0.2756	0.01172		0	0.3030 0.01730

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.20	698.8	0.4391	0.1313	0.02713	0.09754	0.3695	0.4375
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9795	0.8049	0.4580	0.003694	0.7061	0.5609	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2705	0.1223	0.2754	0.01170		0	0.3029 0.01726

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.40	700.7	0.4392	0.1298	0.02696	0.09801	0.3696	0.4384
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9787	0.8048	0.4584	0.003697	0.7049	0.5577	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2704	0.1227	0.2752	0.01168		0	0.3028 0.01722

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
19.60	702.5	0.4393	0.1284	0.02680	0.09847	0.3697	0.4394
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9779	0.8047	0.4587	0.003698	0.7036	0.5546	

mode	bi	mu	pl	ilm	ru	q	H2O
	0.2703	0.1232	0.2750	0.01166		0	0.3027 0.01718

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	fe(mu)
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19.80 704.4 0.4394 0.1270 0.02663 0.09893 0.3697 0.4403
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9770 0.8046 0.4591 0.003699 0.7023 0.5514

mode bi mu pl ilm ru q H2O
0.2702 0.1236 0.2747 0.01164 0 0.3027 0.01713

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) fe(mu)
20.00 706.2 0.4394 0.1255 0.02647 0.09939 0.3699 0.4411
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9761 0.8045 0.4595 0.003698 0.7011 0.5482

mode bi mu pl ilm ru q H2O
0.2701 0.1241 0.2745 0.01162 0 0.3026 0.01709

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, mu, pl, ilm, ru, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.00 571.4 0.4382 0.1835 0.03514 0.06706 0.3931 0.8793
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5306 0.1136 0.3803 0.9978 0.8003 0.4453
k(pl) x(ilm) Q(ilm)
0.002632 0.7360 0.6624

mode bi g mu pl ilm ru q H2O
0.2733 0 0.1073 0.2833 0.011590.0008637 0.3055 0.01820

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.20 579.5 0.4360 0.1937 0.03483 0.06908 0.3831 0.8743
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.4914 0.09299 0.3804 0.9976 0.7977 0.4431
k(pl) x(ilm) Q(ilm)
0.002740 0.7531 0.6817

mode bi g mu pl ilm ru q H2O
0.2730 0 0.1052 0.2846 0.012340.0004226 0.3058 0.01861

calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, mu, pl, ilm, ru, H2O, (q)

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
8.40    550.5  0.4466  0.1613  0.03526  0.06176  0.4162  0.8914
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.6160  0.1676  0.3820  0.9984  0.8169  0.4511
      k(pl)  x(ilm)  Q(ilm)
      0.002368  0.6321  0.5271

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2757    0  0.1117  0.2796  0.008662  0.002495  0.3047  0.01710

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
8.60    557.0  0.4426  0.1673  0.03546  0.06345  0.4099  0.8873
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.5928  0.1518  0.3803  0.9981  0.8070  0.4489
      k(pl)  x(ilm)  Q(ilm)
      0.002448  0.6913  0.6083

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2742    0  0.1106  0.2810  0.01006  0.001744  0.3049  0.01749

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
8.80    564.0  0.4403  0.1749  0.03535  0.06520  0.4020  0.8835
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.5639  0.1332  0.3802  0.9979  0.8031  0.4471
      k(pl)  x(ilm)  Q(ilm)
      0.002536  0.7166  0.6394

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2737    0  0.1091  0.2821  0.01086  0.001290  0.3052  0.01783

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
9.00    571.4  0.4382  0.1835  0.03514  0.06706  0.3931  0.8793
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.5306  0.1136  0.3803  0.9978  0.8003  0.4453
      k(pl)  x(ilm)  Q(ilm)
      0.002633  0.7360  0.6624

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2733    0  0.1073  0.2833  0.011590  0.0008637  0.3055  0.01820

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : bi, g, mu, pl, ilm, ru, H2O, (q)

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
6.20    483.5  0.4560  0.1018  0.03206  0.04640  0.4934  0.9163
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.8024  0.3245  0.3674  0.9992  0.8155  0.4632
      k(pl)  x(ilm)  Q(ilm)
      0.001623  0.3049  4.531e-5

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2754    0  0.1249  0.2723  0.005462  0.004751  0.3025  0.01472

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
8.40    550.5  0.4466  0.1613  0.03526  0.06176  0.4162  0.8914
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.6160  0.1676  0.3820  0.9984  0.8169  0.4511
      k(pl)  x(ilm)  Q(ilm)
      0.002368  0.6321  0.5271

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2757    0  0.1117  0.2796  0.008662  0.002495  0.3047  0.01710

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : bi, g, mu, pl, ilm, ru, H2O, (q)

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
6.20    481.4  0.4492  0.09361  0.03242  0.04644  0.5034  0.9144
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.8201  0.3489  0.3603  0.9993  0.8419  0.4222
      k(pl)  x(ilm)  Q(ilm)
      0.001919  0.2924  3.892e-5

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2705  0.03117  0.1710  0.2043    0  0.005398  0.3099  0.007661

```

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
6.40    486.8  0.4484  0.09703  0.03273  0.04765  0.4978  0.9126
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.8104  0.3382  0.3617  0.9993  0.8414  0.4198
      k(pl)  x(ilm)  Q(ilm)
      0.001995  0.2992  4.139e-5

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2703  0.03194  0.1705  0.2041    0  0.005357  0.3100  0.007791

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
6.60    492.2  0.4475  0.1005  0.03305  0.04887  0.4923  0.9107
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.8003  0.3275  0.3630  0.9992  0.8407  0.4171
      k(pl)  x(ilm)  Q(ilm)
      0.002074  0.3060  4.407e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2701  0.03278  0.1700  0.2038      0  0.005315  0.3101  0.007927
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
6.80    497.7  0.4465  0.1040  0.03335  0.05011  0.4867  0.9088
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.7898  0.3166  0.3642  0.9991  0.8399  0.4143
      k(pl)  x(ilm)  Q(ilm)
      0.002157  0.3128  4.696e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2698  0.03369  0.1695  0.2035      0  0.005273  0.3102  0.008067
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
7.00    503.2  0.4454  0.1076  0.03365  0.05137  0.4811  0.9068
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.7789  0.3056  0.3653  0.9991  0.8387  0.4112
      k(pl)  x(ilm)  Q(ilm)
      0.002245  0.3196  5.008e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2695  0.03468  0.1690  0.2032      0  0.005231  0.3102  0.008215
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
7.20    508.7  0.4442  0.1112  0.03394  0.05266  0.4756  0.9047
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.7676  0.2946  0.3662  0.9990  0.8373  0.4080
      k(pl)  x(ilm)  Q(ilm)
      0.002337  0.3264  5.344e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2691  0.03576  0.1685  0.2028      0  0.005188  0.3103  0.008369
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
7.40    514.2  0.4429  0.1149  0.03423  0.05396  0.4701  0.9025
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.7558  0.2835  0.3671  0.9989  0.8356  0.4045
      k(pl)  x(ilm)  Q(ilm)
      0.002434  0.3331  5.707e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2686  0.03693  0.1681  0.2024      0  0.005146  0.3104  0.008531
-----

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
7.60    519.8  0.4415  0.1186  0.03452  0.05529  0.4646  0.9003
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.7436  0.2724  0.3678  0.9988  0.8335  0.4007
      k(pl)  x(ilm)  Q(ilm)
      0.002536  0.3398  6.098e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2680  0.03821  0.1676  0.2020      0  0.005103  0.3104  0.008702
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
7.80    525.4  0.4399  0.1222  0.03480  0.05664  0.4593  0.8979
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.7310  0.2613  0.3683  0.9987  0.8310  0.3967
      k(pl)  x(ilm)  Q(ilm)
      0.002644  0.3464  6.515e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2673  0.03961  0.1671  0.2015      0  0.005060  0.3104  0.008882
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
8.00    530.9  0.4381  0.1259  0.03508  0.05801  0.4539  0.8955
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.7180  0.2503  0.3687  0.9986  0.8280  0.3923
      k(pl)  x(ilm)  Q(ilm)
      0.002758  0.3528  6.961e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2666  0.04113  0.1667  0.2011      0  0.005018  0.3104  0.009073
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
8.20    536.5  0.4362  0.1295  0.03536  0.05940  0.4487  0.8929
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.7047  0.2393  0.3689  0.9984  0.8245  0.3876
      k(pl)  x(ilm)  Q(ilm)
      0.002878  0.3592  7.433e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2657  0.04279  0.1663  0.2006      0  0.004976  0.3104  0.009275
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
8.40    542.1  0.4340  0.1331  0.03565  0.06081  0.4436  0.8902
      z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
      0.6909  0.2285  0.3688  0.9983  0.8204  0.3826
      k(pl)  x(ilm)  Q(ilm)
      0.003005  0.3654  7.930e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
      0.2647  0.04460  0.1659  0.2001      0  0.004934  0.3103  0.009491
-----

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
8.60     547.7  0.4316  0.1366  0.03593  0.06224  0.4386  0.8873
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.6769  0.2178  0.3685  0.9981  0.8155  0.3771
          k(pl)  x(ilm)  Q(ilm)
          0.003138  0.3713  8.447e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.2635  0.04658  0.1655  0.1995      0 0.004894  0.3102  0.009721

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
8.80     553.3  0.4290  0.1400  0.03622  0.06369  0.4337  0.8843
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.6626  0.2073  0.3680  0.9979  0.8100  0.3713
          k(pl)  x(ilm)  Q(ilm)
          0.003279  0.3771  8.979e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.2622  0.04872  0.1652  0.1990      0 0.004855  0.3101  0.009967

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
9.00     558.9  0.4261  0.1432  0.03651  0.06515  0.4290  0.8811
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.6481  0.1970  0.3672  0.9976  0.8035  0.3650
          k(pl)  x(ilm)  Q(ilm)
          0.003425  0.3826  9.517e-5

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.2607  0.05105  0.1649  0.1985      0 0.004817  0.3099  0.01023

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
9.20     564.4  0.4229  0.1463  0.03681  0.06662  0.4245  0.8776
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.6333  0.1870  0.3661  0.9973  0.7962  0.3583
          k(pl)  x(ilm)  Q(ilm)
          0.003578  0.38790.0001005

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.2590  0.05357  0.1646  0.1979      0 0.004781  0.3096  0.01051

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
9.40     569.9  0.4194  0.1491  0.03712  0.06809  0.4202  0.8740
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.6185  0.1774  0.3647  0.9970  0.7878  0.3511
          k(pl)  x(ilm)  Q(ilm)
          0.003736  0.39280.0001057

mode     bi     g     mu     pl     ilm     ru     q     H2O
0.2570  0.05631  0.1644  0.1974      0 0.004747  0.3093  0.01082

```

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.60 575.4 0.4156 0.1517 0.03743 0.06957 0.4162 0.8701
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6036 0.1681 0.3628 0.9966 0.7783 0.3435
k(pl) x(ilm) Q(ilm)
0.003899 0.39740.0001105

mode bi g mu pl ilm ru q H2O
0.2549 0.05926 0.1642 0.1969 0 0.004717 0.3089 0.01114

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.80 580.7 0.4114 0.1539 0.03776 0.07105 0.4124 0.8660
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5886 0.1592 0.3607 0.9961 0.7676 0.3354
k(pl) x(ilm) Q(ilm)
0.004065 0.40170.0001148

mode bi g mu pl ilm ru q H2O
0.2525 0.06243 0.1640 0.1964 0 0.004689 0.3084 0.01149

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 586.0 0.4068 0.1559 0.03809 0.07251 0.4088 0.8616
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5738 0.1507 0.3581 0.9955 0.7557 0.3268
k(pl) x(ilm) Q(ilm)
0.004232 0.40550.0001184

mode bi g mu pl ilm ru q H2O
0.2498 0.06583 0.1639 0.1960 0 0.004665 0.3079 0.01187

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.20 591.1 0.4018 0.1575 0.03844 0.07397 0.4055 0.8570
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5591 0.1427 0.3550 0.9947 0.7425 0.3178
k(pl) x(ilm) Q(ilm)
0.004399 0.40880.0001210

mode bi g mu pl ilm ru q H2O
0.2469 0.06945 0.1638 0.1957 0 0.004646 0.3073 0.01227

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.40 596.2 0.3965 0.1588 0.03880 0.07540 0.4024 0.8520
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.5446 0.1351 0.3516 0.9938 0.7280 0.3084
k(pl) x(ilm) Q(ilm)
0.004564 0.41170.0001226

mode bi g mu pl ilm ru q H2O
0.2437 0.07328 0.1637 0.1954 0 0.004630 0.3065 0.01270

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
10.60    601.0  0.3907  0.1597  0.03918  0.07680  0.3995  0.8467
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.5304  0.1281  0.3477  0.9928  0.7122  0.2987
          k(pl)  x(ilm)  Q(ilm)
          0.004725  0.41400.0001229

```

```

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2403  0.07730  0.1636  0.1953    0 0.004619  0.3057  0.01316

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
10.80    605.7  0.3847  0.1603  0.03957  0.07818  0.3968  0.8411
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.5166  0.1215  0.3434  0.9915  0.6951  0.2887
          k(pl)  x(ilm)  Q(ilm)
          0.004880  0.41580.0001220

```

```

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2366  0.08151  0.1636  0.1953    0 0.004613  0.3048  0.01365

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
11.00    610.3  0.3783  0.1605  0.03998  0.07952  0.3942  0.8352
          z(g)  f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.5032  0.1155  0.3387  0.9900  0.6769  0.2786
          k(pl)  x(ilm)  Q(ilm)
          0.005027  0.41700.0001199

```

```

mode    bi    g    mu    pl    ilm    ru    q    H2O
0.2327  0.08586  0.1636  0.1954    0 0.004612  0.3038  0.01416

```

13-Jan

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.00    763.6  0.08092  0.2364  0.6734  0.01803  0.001772  0.7237
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.6593  0.3904  0.3276  0.03913  0.1325  0.2286
          x(g)  z(g)  f(g)  ca(pl)  k(pl)  x(ilm)
          0.7447  0.1406  0.01277  0.3836  0.02021  0.6782
          Q(ilm)
          0.467

```

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1244	0.2473	0.03931	0.2927	0.009074		0	0.02005 0.2673

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	867.8	0.1273	0.3149	0.4424	0.03236	0.003861	0.6610
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5082	0.2696	0.3430	0.04823	0.1894	0.1702	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.5653	0.05445	0.009384	0.2419	0.02015	0.3716	
	k(pl)	x(ilm)	Q(ilm)				
	0.05498	0.55820	0.0001924				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.2723	0.1197	0.1417		0	0.2655	0.007710	0.002199 0.1908

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, sill, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.00	813.3	0.1909	0.3000	0.5970	0.01493	0.007243	0.6767
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4537	0.3367	0.3465	0.03562	0.1523	0.2030	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.6216	0.01501	0.003763	0.4511	0.02041	0.6828	
	Q(ilm)						
	-0.00011						

mode	liq	bi	g	pl	ilm	sill	q
	0.2769	0.1871	0.07534	0.2614	0.01086		0 0.1884

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.20	815.8	0.1886	0.3014	0.5933	0.01531	0.007221	0.6766
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4548	0.3347	0.3463	0.03576	0.1539	0.2019	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	

0.6195 0.01555 0.003840 0.4504 0.02107 0.6825

Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	sill	q
	0.2774	0.1851	0.07700	0.2611	0.01086	0	0.1885

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 818.3 0.1865 0.3028 0.5896 0.01571 0.007196 0.6765
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4560 0.3326 0.3461 0.03589 0.1556 0.2007
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6174 0.01610 0.003919 0.4496 0.02175 0.6823
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	sill	q
	0.2779	0.1832	0.07866	0.2609	0.01086	0	0.1885

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 820.8 0.1843 0.3042 0.5859 0.01612 0.007166 0.6763
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4571 0.3306 0.3460 0.03601 0.1572 0.1996
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6154 0.01667 0.003998 0.4488 0.02243 0.6821
Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	sill	q
	0.2784	0.1812	0.08032	0.2607	0.01086	0	0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 823.2 0.1823 0.3054 0.5822 0.01653 0.007131 0.6761
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4583 0.3285 0.3458 0.03613 0.1589 0.1985
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6133 0.01727 0.004077 0.4479 0.02314 0.6820
Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	sill	q
	0.2789	0.1792	0.08199	0.2605	0.01087	0	0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 825.6 0.1802 0.3066 0.5785 0.01695 0.007093 0.6758
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4594 0.3265 0.3455 0.03624 0.1605 0.1974
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6113 0.01788 0.004158 0.4469 0.02385 0.6820
Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	sill	q
	0.2793	0.1772	0.08366	0.2603	0.01088	0	0.1886

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	827.9	0.1783	0.3077	0.5747	0.01739	0.007051	0.6756
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4605	0.3244	0.3453	0.03635	0.1622	0.1964
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6092	0.01851	0.004239	0.4458	0.02458	0.6819
		Q(ilm)					

-0.00012

mode	liq	bi	g	pl	ilm	sill	q
	0.2798	0.1753	0.08533	0.2602	0.01089	0	0.1886

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.40	830.2	0.1763	0.3088	0.5709	0.01783	0.007005	0.6753
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4617	0.3223	0.3451	0.03645	0.1638	0.1953
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6072	0.01917	0.004322	0.4446	0.02533	0.6820
		Q(ilm)					

-0.00012

mode	liq	bi	g	pl	ilm	sill	q
	0.2802	0.1733	0.08701	0.2600	0.01090	0	0.1886

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.60	832.5	0.1744	0.3098	0.5671	0.01828	0.006955	0.6750
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4628	0.3203	0.3448	0.03654	0.1655	0.1942
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6052	0.01984	0.004405	0.4434	0.02608	0.6821
		Q(ilm)					

-0.00012

mode	liq	bi	g	pl	ilm	sill	q
	0.2806	0.1713	0.08869	0.2599	0.01092	0	0.1886

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.80	834.7	0.1726	0.3107	0.5633	0.01873	0.006902	0.6747
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4640	0.3182	0.3446	0.03663	0.1671	0.1932
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6031	0.02054	0.004489	0.4421	0.02686	0.6822
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2810	0.1693	0.09038	0.2598	0.01093	0	0.1885

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.00 836.8 0.1708 0.3116 0.5595 0.01920 0.006845 0.6743

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4651 0.3161 0.3443 0.03671 0.1688 0.1921

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.6011 0.02127 0.004574 0.4407 0.02765 0.6824

Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2814	0.1673	0.09207	0.2597	0.01095	0	0.1885

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.20 838.9 0.1690 0.3124 0.5556 0.01968 0.006786 0.6739

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4663 0.3140 0.3440 0.03678 0.1705 0.1911

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5991 0.02201 0.004660 0.4393 0.02845 0.6826

Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2818	0.1654	0.09378	0.2596	0.01097	0	0.1884

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.40 841.0 0.1672 0.3132 0.5517 0.02016 0.006722 0.6735

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4674 0.3119 0.3437 0.03685 0.1721 0.1901

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5971 0.02278 0.004748 0.4377 0.02927 0.6829

Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2822	0.1634	0.09549	0.2596	0.01099	0	0.1884

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.60 843.1 0.1655 0.3139 0.5478 0.02066 0.006656 0.6731

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4686 0.3098 0.3434 0.03691 0.1738 0.1891

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5951 0.02358 0.004837 0.4361 0.03010 0.6832

Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2826	0.1614	0.09721	0.2595	0.01101	0	0.1883

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.80	845.1	0.1638	0.3146	0.5438	0.02116	0.006587	0.6726
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4697	0.3077	0.3431	0.03697	0.1755	0.1880	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5931	0.02441	0.004927	0.4344	0.03095	0.6837	
	Q(ilm)						
	-0.00013						

mode	liq	bi	g	pl	ilm	sill	q
	0.2829	0.1594	0.09894	0.2595	0.01104	0	0.1882

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.00	847.0	0.1622	0.3153	0.5398	0.02168	0.006516	0.6721
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4709	0.3056	0.3428	0.03702	0.1772	0.1870	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5911	0.02526	0.005018	0.4327	0.03182	0.6841	
	Q(ilm)						
	-0.00013						

mode	liq	bi	g	pl	ilm	sill	q
	0.2833	0.1574	0.1007	0.2595	0.01107	0	0.1881

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.20	849.0	0.1606	0.3159	0.5358	0.02220	0.006441	0.6716
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4720	0.3034	0.3424	0.03706	0.1789	0.1860	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5891	0.02614	0.005111	0.4309	0.03271	0.6846	
	Q(ilm)						
	-0.00013						

mode	liq	bi	g	pl	ilm	sill	q
	0.2837	0.1554	0.1024	0.2594	0.01109	0	0.1880

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	850.9	0.1590	0.3164	0.5318	0.02274	0.006364	0.6710
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4731	0.3013	0.3421	0.03710	0.1806	0.1850	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5870	0.02705	0.005206	0.4290	0.03361	0.6852	
	Q(ilm)						
	-0.00014						

mode	liq	bi	g	pl	ilm	sill	q
	0.2840	0.1533	0.1042	0.2594	0.01113	0	0.1879

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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8.60 852.7 0.1574 0.3169 0.5277 0.02328 0.006285 0.6704
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4743 0.2991 0.3417 0.03713 0.1823 0.1840
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5850 0.02800 0.005302 0.4270 0.03453 0.6858
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2844	0.1513	0.1060	0.2594	0.01116	0	0.1878

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 854.6 0.1558 0.3174 0.5236 0.02384 0.006204 0.6698
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4754 0.2969 0.3414 0.03715 0.1840 0.1830
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5829 0.02897 0.005400 0.4249 0.03546 0.6865
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2847	0.1492	0.1078	0.2594	0.01120	0	0.1876

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 856.4 0.1543 0.3178 0.5194 0.02440 0.006120 0.6691
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4765 0.2947 0.3410 0.03716 0.1858 0.1820
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5809 0.02998 0.005500 0.4228 0.03642 0.6873
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2851	0.1471	0.1096	0.2594	0.01123	0	0.1875

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 858.1 0.1528 0.3182 0.5152 0.02498 0.006035 0.6684
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4776 0.2924 0.3406 0.03717 0.1875 0.1810
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5788 0.03102 0.005601 0.4206 0.03740 0.6881
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2855	0.1451	0.1115	0.2594	0.01127	0	0.1873

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 859.9 0.1513 0.3186 0.5110 0.02557 0.005948 0.6676
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4787 0.2901 0.3402 0.03717 0.1893 0.1800
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5767 0.03209 0.005705 0.4183 0.03839 0.6890
Q(ilm)

-0.00014

mode liq bi g pl ilm sill q
0.2859 0.1429 0.1133 0.2593 0.01132 0 0.1872

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 861.6 0.1499 0.3189 0.5067 0.02617 0.005859 0.6668
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4798 0.2878 0.3397 0.03717 0.1911 0.1789
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5745 0.03320 0.005811 0.4159 0.03941 0.6900
Q(ilm)

-0.00014

mode liq bi g pl ilm sill q
0.2863 0.1408 0.1152 0.2593 0.01136 0 0.1870

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 863.3 0.1484 0.3192 0.5024 0.02678 0.005769 0.6660
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4809 0.2855 0.3393 0.03715 0.1929 0.1779
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5723 0.03435 0.005919 0.4135 0.04045 0.6910
Q(ilm)

-0.00014

mode liq bi g pl ilm sill q
0.2868 0.1386 0.1171 0.2593 0.01141 0 0.1867

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 865.0 0.1470 0.3195 0.4981 0.02740 0.005677 0.6651
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4819 0.2831 0.3388 0.03713 0.1948 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5701 0.03553 0.006030 0.4110 0.04151 0.6921
Q(ilm)

-0.00014

mode liq bi g pl ilm sill q
0.2872 0.1364 0.1191 0.2593 0.01146 0 0.1865

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 866.7 0.1456 0.3198 0.4937 0.02803 0.005584 0.6642
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4830 0.2807 0.3384 0.03710 0.1966 0.1758
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5679 0.03675 0.006143 0.4084 0.04260 0.6933

Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2877	0.1342	0.1211	0.2592	0.01152	0	0.1863

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	868.3	0.1442	0.3200	0.4893	0.02867	0.005490	0.6632
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4840	0.2783	0.3379	0.03707	0.1985	0.1748
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5656	0.03801	0.006259	0.4057	0.04371	0.6946
		Q(ilm)					

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2882	0.1320	0.1231	0.2592	0.01157	0	0.1860

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	869.9	0.1429	0.3203	0.4848	0.02933	0.005396	0.6622
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4850	0.2758	0.3374	0.03702	0.2004	0.1737
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5633	0.03931	0.006377	0.4029	0.04484	0.6959
		Q(ilm)					

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2888	0.1297	0.1251	0.2591	0.01163	0	0.1857

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.80	871.5	0.1416	0.3205	0.4803	0.02999	0.005300	0.6611
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4859	0.2733	0.3369	0.03696	0.2024	0.1726
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5609	0.04065	0.006498	0.4000	0.04601	0.6974
		Q(ilm)					

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2893	0.1273	0.1272	0.2590	0.01170	0	0.1854

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	873.1	0.1402	0.3207	0.4757	0.03067	0.005204	0.6600
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4869	0.2707	0.3363	0.03690	0.2043	0.1715
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5584	0.04203	0.006621	0.3971	0.04720	0.6989
		Q(ilm)					

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2900	0.1249	0.1293	0.2589	0.01177	0	0.1851

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	874.7	0.1389	0.3208	0.4711	0.03137	0.005108	0.6588
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4878	0.2681	0.3358	0.03682	0.2063	0.1704	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5559	0.04345	0.006748	0.3940	0.04843	0.7005	
	Q(ilm)						

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2906	0.1225	0.1315	0.2588	0.01184	0	0.1847

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	876.3	0.1377	0.3210	0.4665	0.03207	0.005011	0.6576
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4886	0.2654	0.3352	0.03674	0.2084	0.1693	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5533	0.04490	0.006877	0.3909	0.04969	0.7022	
	Q(ilm)						

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2914	0.1201	0.1337	0.2587	0.01191	0	0.1843

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	877.9	0.1364	0.3212	0.4618	0.03279	0.004914	0.6563
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4895	0.2627	0.3346	0.03665	0.2105	0.1681	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5507	0.04640	0.007009	0.3876	0.05098	0.7041	
	Q(ilm)						

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2921	0.1175	0.1360	0.2585	0.01200	0	0.1839

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	879.5	0.1352	0.3213	0.4571	0.03352	0.004817	0.6549
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4903	0.2600	0.3340	0.03654	0.2126	0.1669	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5480	0.04794	0.007143	0.3843	0.05231	0.7060	
	Q(ilm)						

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2929	0.1149	0.1383	0.2583	0.01208	0	0.1835

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	881.0	0.1340	0.3215	0.4524	0.03426	0.004720	0.6534
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4910	0.2572	0.3334	0.03642	0.2148	0.1657
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5452	0.04951	0.007281	0.3808	0.05369	0.7080
		Q(ilm)					
		-0.00013					

mode	liq	bi	g	pl	ilm	sill	q
	0.2938	0.1123	0.1406	0.2581	0.01217	0	0.1830

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, sill, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.00	813.3	0.1909	0.3000	0.5970	0.01493	0.007243	0.6767
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4537	0.3367	0.3465	0.03562	0.1523	0.2030
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6216	0.01501	0.003763	0.4511	0.02041	0.6828
		Q(ilm)					
		-0.00011					

mode	liq	bi	g	pl	ilm	sill	q
	0.2769	0.1871	0.07534	0.2614	0.01086	0	0.1884

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.20	815.8	0.1886	0.3014	0.5933	0.01531	0.007221	0.6766
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4548	0.3347	0.3463	0.03576	0.1539	0.2019
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.6195	0.01555	0.003840	0.4504	0.02107	0.6825
		Q(ilm)					
		-0.00011					

mode	liq	bi	g	pl	ilm	sill	q
	0.2774	0.1851	0.07700	0.2611	0.01086	0	0.1885

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.40	818.3	0.1865	0.3028	0.5896	0.01571	0.007196	0.6765
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)

0.4560 0.3326 0.3461 0.03589 0.1556 0.2007
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6174 0.01610 0.003919 0.4496 0.02175 0.6823
Q(ilm)

-0.00011

mode liq bi g pl ilm sill q
0.2779 0.1832 0.07866 0.2609 0.01086 0 0.1885

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 820.8 0.1843 0.3042 0.5859 0.01612 0.007166 0.6763
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4571 0.3306 0.3460 0.03601 0.1572 0.1996
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6154 0.01667 0.003998 0.4488 0.02243 0.6821
Q(ilm)

-0.00012

mode liq bi g pl ilm sill q
0.2784 0.1812 0.08032 0.2607 0.01086 0 0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 823.2 0.1823 0.3054 0.5822 0.01653 0.007131 0.6761
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4583 0.3285 0.3458 0.03613 0.1589 0.1985
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6133 0.01727 0.004077 0.4479 0.02314 0.6820
Q(ilm)

-0.00012

mode liq bi g pl ilm sill q
0.2789 0.1792 0.08199 0.2605 0.01087 0 0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 825.6 0.1802 0.3066 0.5785 0.01695 0.007093 0.6758
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4594 0.3265 0.3455 0.03624 0.1605 0.1974
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6113 0.01788 0.004158 0.4469 0.02385 0.6820
Q(ilm)

-0.00012

mode liq bi g pl ilm sill q
0.2793 0.1772 0.08366 0.2603 0.01088 0 0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 827.9 0.1783 0.3077 0.5747 0.01739 0.007051 0.6756
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4605 0.3244 0.3453 0.03635 0.1622 0.1964
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.6092 0.01851 0.004239 0.4458 0.02458 0.6819
Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	sill	q
	0.2798	0.1753	0.08533	0.2602	0.01089	0	0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 830.2 0.1763 0.3088 0.5709 0.01783 0.007005 0.6753
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4617 0.3223 0.3451 0.03645 0.1638 0.1953
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6072 0.01917 0.004322 0.4446 0.02533 0.6820
Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	sill	q
	0.2802	0.1733	0.08701	0.2600	0.01090	0	0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 832.5 0.1744 0.3098 0.5671 0.01828 0.006955 0.6750
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4628 0.3203 0.3448 0.03654 0.1655 0.1942
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6052 0.01984 0.004405 0.4434 0.02608 0.6821
Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	sill	q
	0.2806	0.1713	0.08869	0.2599	0.01092	0	0.1886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 834.7 0.1726 0.3107 0.5633 0.01873 0.006902 0.6747
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4640 0.3182 0.3446 0.03663 0.1671 0.1932
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6031 0.02054 0.004489 0.4421 0.02686 0.6822
Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2810	0.1693	0.09038	0.2598	0.01093	0	0.1885

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 836.8 0.1708 0.3116 0.5595 0.01920 0.006845 0.6743
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4651 0.3161 0.3443 0.03671 0.1688 0.1921
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6011 0.02127 0.004574 0.4407 0.02765 0.6824
Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2814	0.1673	0.09207	0.2597	0.01095	0	0.1885

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.20	838.9	0.1690	0.3124	0.5556	0.01968	0.006786	0.6739
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4663	0.3140	0.3440	0.03678	0.1705	0.1911
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5991	0.02201	0.004660	0.4393	0.02845	0.6826
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2818	0.1654	0.09378	0.2596	0.01097	0	0.1884

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.40	841.0	0.1672	0.3132	0.5517	0.02016	0.006722	0.6735
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4674	0.3119	0.3437	0.03685	0.1721	0.1901
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5971	0.02278	0.004748	0.4377	0.02927	0.6829
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2822	0.1634	0.09549	0.2596	0.01099	0	0.1884

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	843.1	0.1655	0.3139	0.5478	0.02066	0.006656	0.6731
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4686	0.3098	0.3434	0.03691	0.1738	0.1891
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5951	0.02358	0.004837	0.4361	0.03010	0.6832
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2826	0.1614	0.09721	0.2595	0.01101	0	0.1883

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.80	845.1	0.1638	0.3146	0.5438	0.02116	0.006587	0.6726
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4697	0.3077	0.3431	0.03697	0.1755	0.1880
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5931	0.02441	0.004927	0.4344	0.03095	0.6837
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2829	0.1594	0.09894	0.2595	0.01104	0	0.1882

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.00 847.0 0.1622 0.3153 0.5398 0.02168 0.006516 0.6721

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4709 0.3056 0.3428 0.03702 0.1772 0.1870

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5911 0.02526 0.005018 0.4327 0.03182 0.6841

Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2833	0.1574	0.1007	0.2595	0.01107	0	0.1881

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.20 849.0 0.1606 0.3159 0.5358 0.02220 0.006441 0.6716

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4720 0.3034 0.3424 0.03706 0.1789 0.1860

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5891 0.02614 0.005111 0.4309 0.03271 0.6846

Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2837	0.1554	0.1024	0.2594	0.01109	0	0.1880

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.40 850.9 0.1590 0.3164 0.5318 0.02274 0.006364 0.6710

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4731 0.3013 0.3421 0.03710 0.1806 0.1850

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5870 0.02705 0.005206 0.4290 0.03361 0.6852

Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2840	0.1533	0.1042	0.2594	0.01113	0	0.1879

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.60 852.7 0.1574 0.3169 0.5277 0.02328 0.006285 0.6704

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4743 0.2991 0.3417 0.03713 0.1823 0.1840

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5850 0.02800 0.005302 0.4270 0.03453 0.6858

Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2844	0.1513	0.1060	0.2594	0.01116	0	0.1878

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.80	854.6	0.1558	0.3174	0.5236	0.02384	0.006204	0.6698
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4754	0.2969	0.3414	0.03715	0.1840	0.1830	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5829	0.02897	0.005400	0.4249	0.03546	0.6865	
	Q(ilm)						
	-0.00014						

mode	liq	bi	g	pl	ilm	sill	q
	0.2847	0.1492	0.1078	0.2594	0.01120	0	0.1876

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.00	856.4	0.1543	0.3178	0.5194	0.02440	0.006120	0.6691
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4765	0.2947	0.3410	0.03716	0.1858	0.1820	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5809	0.02998	0.005500	0.4228	0.03642	0.6873	
	Q(ilm)						
	-0.00014						

mode	liq	bi	g	pl	ilm	sill	q
	0.2851	0.1471	0.1096	0.2594	0.01123	0	0.1875

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	858.1	0.1528	0.3182	0.5152	0.02498	0.006035	0.6684
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4776	0.2924	0.3406	0.03717	0.1875	0.1810	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5788	0.03102	0.005601	0.4206	0.03740	0.6881	
	Q(ilm)						
	-0.00014						

mode	liq	bi	g	pl	ilm	sill	q
	0.2855	0.1451	0.1115	0.2594	0.01127	0	0.1873

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.40	859.9	0.1513	0.3186	0.5110	0.02557	0.005948	0.6676
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4787	0.2901	0.3402	0.03717	0.1893	0.1800	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5767	0.03209	0.005705	0.4183	0.03839	0.6890	
	Q(ilm)						
	-0.00014						

mode	liq	bi	g	pl	ilm	sill	q
	0.2859	0.1429	0.1133	0.2593	0.01132	0	0.1872

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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9.60 861.6 0.1499 0.3189 0.5067 0.02617 0.005859 0.6668
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4798 0.2878 0.3397 0.03717 0.1911 0.1789
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5745 0.03320 0.005811 0.4159 0.03941 0.6900
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2863	0.1408	0.1152	0.2593	0.01136	0	0.1870

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 863.3 0.1484 0.3192 0.5024 0.02678 0.005769 0.6660
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4809 0.2855 0.3393 0.03715 0.1929 0.1779
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5723 0.03435 0.005919 0.4135 0.04045 0.6910
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2868	0.1386	0.1171	0.2593	0.01141	0	0.1867

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 865.0 0.1470 0.3195 0.4981 0.02740 0.005677 0.6651
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4819 0.2831 0.3388 0.03713 0.1948 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5701 0.03553 0.006030 0.4110 0.04151 0.6921
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2872	0.1364	0.1191	0.2593	0.01146	0	0.1865

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 866.7 0.1456 0.3198 0.4937 0.02803 0.005584 0.6642
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4830 0.2807 0.3384 0.03710 0.1966 0.1758
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5679 0.03675 0.006143 0.4084 0.04260 0.6933
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2877	0.1342	0.1211	0.2592	0.01152	0	0.1863

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 868.3 0.1442 0.3200 0.4893 0.02867 0.005490 0.6632
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4840 0.2783 0.3379 0.03707 0.1985 0.1748
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5656 0.03801 0.006259 0.4057 0.04371 0.6946
Q(ilm)

-0.00014

mode liq bi g pl ilm sill q
0.2882 0.1320 0.1231 0.2592 0.01157 0 0.1860

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 869.9 0.1429 0.3203 0.4848 0.02933 0.005396 0.6622
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4850 0.2758 0.3374 0.03702 0.2004 0.1737
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5633 0.03931 0.006377 0.4029 0.04484 0.6959
Q(ilm)

-0.00014

mode liq bi g pl ilm sill q
0.2888 0.1297 0.1251 0.2591 0.01163 0 0.1857

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 871.5 0.1416 0.3205 0.4803 0.02999 0.005300 0.6611
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4859 0.2733 0.3369 0.03696 0.2024 0.1726
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5609 0.04065 0.006498 0.4000 0.04601 0.6974
Q(ilm)

-0.00014

mode liq bi g pl ilm sill q
0.2893 0.1273 0.1272 0.2590 0.01170 0 0.1854

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 873.1 0.1402 0.3207 0.4757 0.03067 0.005204 0.6600
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4869 0.2707 0.3363 0.03690 0.2043 0.1715
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5584 0.04203 0.006621 0.3971 0.04720 0.6989
Q(ilm)

-0.00014

mode liq bi g pl ilm sill q
0.2900 0.1249 0.1293 0.2589 0.01177 0 0.1851

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 874.7 0.1389 0.3208 0.4711 0.03137 0.005108 0.6588
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4878 0.2681 0.3358 0.03682 0.2063 0.1704
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5559 0.04345 0.006748 0.3940 0.04843 0.7005

Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	q
	0.2906	0.1225	0.1315	0.2588	0.01184	0	0.1847

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	876.3	0.1377	0.3210	0.4665	0.03207	0.005011	0.6576
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4886	0.2654	0.3352	0.03674	0.2084	0.1693
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5533	0.04490	0.006877	0.3909	0.04969	0.7022
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2914	0.1201	0.1337	0.2587	0.01191	0	0.1843

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	877.9	0.1364	0.3212	0.4618	0.03279	0.004914	0.6563
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4895	0.2627	0.3346	0.03665	0.2105	0.1681
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5507	0.04640	0.007009	0.3876	0.05098	0.7041
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2921	0.1175	0.1360	0.2585	0.01200	0	0.1839

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	879.5	0.1352	0.3213	0.4571	0.03352	0.004817	0.6549
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4903	0.2600	0.3340	0.03654	0.2126	0.1669
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5480	0.04794	0.007143	0.3843	0.05231	0.7060
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	sill	q
	0.2929	0.1149	0.1383	0.2583	0.01208	0	0.1835

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	881.0	0.1340	0.3215	0.4524	0.03426	0.004720	0.6534
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4910	0.2572	0.3334	0.03642	0.2148	0.1657
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5452	0.04951	0.007281	0.3808	0.05369	0.7080
		Q(ilm)					

-0.00013

```
mode  liq  bi   g   pl  ilm  sill  q
      0.2938 0.1123 0.1406 0.2581 0.01217 0 0.1830
calcs use:
```

composition (from script)

```
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
```

<=====>

phases : liq, bi, g, pl, ilm, sill, ru, (q)

```
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80  854.3 0.1557 0.3173 0.5235 0.02381 0.006193 0.6700
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.4756 0.2972 0.3414 0.03740 0.1836 0.1832
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5834 0.02901 0.005433 0.4248 0.03547 0.6835
      Q(ilm)
```

-0.00014

```
mode  liq  bi   g   pl  ilm  sill  ru   q
      0.2844 0.1494 0.1078 0.2595 0.01108 0 6.004e-5 0.1878
```

```
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00  855.6 0.1540 0.3175 0.5193 0.02429 0.006082 0.6698
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.4774 0.2958 0.3410 0.03804 0.1841 0.1825
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5824 0.03013 0.005618 0.4223 0.03644 0.6766
      Q(ilm)
```

-0.00015

```
mode  liq  bi   g   pl  ilm  sill  ru   q
      0.2838 0.1477 0.1097 0.2598 0.01083 00.0002073 0.1879
```

```
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20  856.8 0.1523 0.3177 0.5149 0.02478 0.005970 0.6696
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.4791 0.2944 0.3406 0.03868 0.1846 0.1819
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5814 0.03129 0.005811 0.4198 0.03744 0.6696
      Q(ilm)
```

-0.00017

```
mode  liq  bi   g   pl  ilm  sill  ru   q
      0.2833 0.1459 0.1117 0.2601 0.01059 00.0003510 0.1880
```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.40 858.1 0.1506 0.3179 0.5104 0.02528 0.005857 0.6693
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4808 0.2929 0.3401 0.03932 0.1851 0.1813
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5803 0.03249 0.006009 0.4171 0.03846 0.6627
 Q(ilm)
 -0.00019

mode liq bi g pl ilm sill ru q
 0.2829 0.1441 0.1136 0.2604 0.01035 00.0004915 0.1881

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.60 859.2 0.1490 0.3180 0.5059 0.02578 0.005742 0.6690
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4825 0.2913 0.3397 0.03996 0.1856 0.1807
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5792 0.03374 0.006216 0.4144 0.03951 0.6557
 Q(ilm)
 -0.00021

mode liq bi g pl ilm sill ru q
 0.2824 0.1423 0.1156 0.2607 0.01013 00.0006291 0.1882

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.80 860.4 0.1473 0.3181 0.5013 0.02630 0.005627 0.6685
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4842 0.2897 0.3392 0.04061 0.1861 0.1801
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5780 0.03504 0.006430 0.4117 0.04058 0.6487
 Q(ilm)
 -0.00025

mode liq bi g pl ilm sill ru q
 0.2821 0.1404 0.1177 0.2609 0.009916 00.0007641 0.1883

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.00 861.5 0.1457 0.3182 0.4966 0.02682 0.005510 0.6681
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.4859 0.2880 0.3387 0.04125 0.1866 0.1795
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5768 0.03640 0.006653 0.4088 0.04169 0.6416
 Q(ilm)
 -0.0003

mode liq bi g pl ilm sill ru q
 0.2817 0.1385 0.1197 0.2612 0.009707 00.0008968 0.1883

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.20 862.6 0.1441 0.3182 0.4918 0.02736 0.005393 0.6675

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4875 0.2862 0.3382 0.04190 0.1871 0.1789
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5755 0.03780 0.006884 0.4059 0.04282 0.6346
Q(ilm)

-0.00037

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2814	0.1365	0.1218	0.2614	0.009506		0	0.001028 0.1883

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 863.7 0.1426 0.3183 0.4869 0.02790 0.005275 0.6669
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4891 0.2844 0.3377 0.04255 0.1877 0.1783
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5741 0.03926 0.007126 0.4028 0.04398 0.6275
Q(ilm)

-0.0005

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2812	0.1345	0.1240	0.2617	0.009311		0	0.001157 0.1882

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 864.7 0.1410 0.3183 0.4820 0.02844 0.005157 0.6662
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4907 0.2825 0.3371 0.04320 0.1882 0.1777
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5726 0.04077 0.007378 0.3997 0.04518 0.6204
Q(ilm)

-0.00076

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2810	0.1324	0.1262	0.2619	0.009123		0	0.001285 0.1881

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 865.7 0.1395 0.3183 0.4769 0.02900 0.005038 0.6655
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4922 0.2805 0.3365 0.04385 0.1887 0.1770
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5711 0.04235 0.007641 0.3965 0.04642 0.6132
Q(ilm)

-0.00168

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2808	0.1303	0.1285	0.2621	0.008940		0	0.001411 0.1880

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 866.8 0.1380 0.3183 0.4717 0.02956 0.004919 0.6646
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4937 0.2784 0.3359 0.04450 0.1892 0.1764

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5695 0.04398 0.007916 0.3932 0.04770 0.6060
Q(ilm)

0.007155

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2807	0.1281	0.1308	0.2622	0.008763		0	0.001537 0.1879

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 867.8 0.1365 0.3183 0.4665 0.03014 0.004800 0.6637
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4952 0.2763 0.3352 0.04516 0.1897 0.1757
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5678 0.04567 0.008203 0.3897 0.04902 0.5988
Q(ilm)

0.001118

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2807	0.1258	0.1332	0.2624	0.008589		0	0.001663 0.1877

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 868.7 0.1351 0.3183 0.4611 0.03072 0.004681 0.6626
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4966 0.2740 0.3346 0.04583 0.1902 0.1751
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5660 0.04743 0.008505 0.3862 0.05038 0.5916
Q(ilm)

0.000599

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2808	0.1234	0.1357	0.2625	0.008421		0	0.001788 0.1874

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 869.7 0.1336 0.3183 0.4556 0.03131 0.004563 0.6615
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4980 0.2717 0.3339 0.04650 0.1907 0.1744
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5641 0.04924 0.008821 0.3825 0.05180 0.5843
Q(ilm)

0.000405

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2810	0.1209	0.1383	0.2626	0.008257		0	0.001914 0.1871

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 870.7 0.1322 0.3183 0.4501 0.03191 0.004445 0.6603
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4994 0.2693 0.3331 0.04717 0.1913 0.1737
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5620 0.05113 0.009153 0.3787 0.05328 0.5770

Q(ilm)

0.000304

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2812	0.1184	0.1409	0.2626	0.008098			0 0.002039 0.1868

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	871.6	0.1308	0.3183	0.4445	0.03251	0.004327	0.6590
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5007	0.2668	0.3324	0.04785	0.1918	0.1730
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5599	0.05307	0.009501	0.3748	0.05481	0.5697

Q(ilm)

0.000242

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2815	0.1157	0.1436	0.2626	0.007941			0 0.002166 0.1864

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, sill, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.72	853.8	0.1564	0.3172	0.5252	0.02362	0.006237	0.6700
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4749	0.2978	0.3415	0.03714	0.1833	0.1834
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5838	0.02858	0.005360	0.4258	0.03509	0.6862

Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2846	0.1501	0.1071	0.2594	0.01118			0 0 0.1877

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, sill, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.80	853.0	0.1549	0.3161	0.5267	0.02360	0.006142	0.6715
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4781	0.2996	0.3421	0.03719	0.1826	0.1838

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5866 0.02923 0.005377 0.4244 0.03510 0.6845
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2804	0.1522	0.1057	0.2604	0.011090	0.0004327	0	0.1898

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 850.6 0.1510 0.3133 0.5308 0.02352 0.005895 0.6754
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4864 0.3045 0.3438 0.03729 0.1805 0.1847
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5940 0.03098 0.005419 0.4212 0.03504 0.6802
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2696	0.1577	0.1022	0.2629	0.01087	0.001519	0	0.1952

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 847.7 0.1470 0.3101 0.5358 0.02340 0.005632 0.6794
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4953 0.3098 0.3455 0.03738 0.1783 0.1857
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6020 0.03293 0.005460 0.4180 0.03483 0.6757
Q(ilm)

-0.00015

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2585	0.1637	0.09841	0.2654	0.01064	0.002622	0	0.2008

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 844.3 0.1427 0.3063 0.5418 0.02321 0.005348 0.6836
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5049 0.3156 0.3474 0.03743 0.1757 0.1868
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6107 0.03512 0.005500 0.4150 0.03443 0.6709
Q(ilm)

-0.00015

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2469	0.1701	0.09421	0.2681	0.01041	0.003759	0	0.2066

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 840.0 0.1382 0.3020 0.5495 0.02291 0.005035 0.6881
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5158 0.3222 0.3496 0.03745 0.1727 0.1882
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6205 0.03765 0.005537 0.4120 0.03378 0.6658

Q(ilm)

-0.00016

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2344	0.1774	0.08941	0.2709	0.01017	0.004960	0	0.2128

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 834.4 0.1330 0.2965 0.5600 0.02246 0.004675 0.6931

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5286 0.3302 0.3521 0.03740 0.1690 0.1898

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6321 0.04069 0.005564 0.4091 0.03271 0.6602

Q(ilm)

-0.00016

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2205	0.1859	0.08364	0.2740	0.009912	0.006285	0	0.2198

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 825.7 0.1265 0.2886 0.5770 0.02163 0.004209 0.6994

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5459 0.3413 0.3556 0.03718 0.1636 0.1922

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6478 0.04474 0.005561 0.4063 0.03079 0.6536

Q(ilm)

-0.00016

mode	liq	bi	g	pl	ilm	sill	ru	q
	0.2028	0.1975	0.07559	0.2779	0.009619	0.007935	0	0.2287

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, ru, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 880.1 0.1740 0.3363 0.5048 0.02741 0.01057 0.6471

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4325 0.2633 0.2764 0.03648 0.2018 0.1949

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5350 0.02924 0.006754 0.4424 0.03684 0.7174

Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.3579	0.1115	0.1279	0.2379	0.01274	0	0.1521

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
8.60    866.3  0.1644  0.3267  0.5134  0.02536 0.007949 0.6601
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.4552  0.2817  0.3112  0.03708  0.1919  0.1894
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.5618  0.02890 0.005973 0.4322  0.03640 0.7006
      Q(ilm)
-0.00013

```

```

mode  liq  bi  g  pl  ilm  ru  q
      0.3167 0.1322 0.1173 0.2502 0.01186 0 0.1717
calcs use:

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, pl, ilm, ru, (q)

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.80    932.3  0.2430  0.3494  0.4994  0.03780 0.03705 0.5392
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.3162  0.1669  0.1412  0.02972  0.2473  0.1769
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.3656  0.02456 0.01178 0.5732  0.02255 0.7731
      Q(ilm)
-0.0001

```

```

mode  liq  bi  g  pl  ilm  ru  q
      0.6791 0 0.1472 0.1517 0.01692 0.001124 0.003990

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.00    933.6  0.2400  0.3508  0.4982  0.03815 0.03657 0.5415
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.3184  0.1678  0.1416  0.03012  0.2474  0.1772
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.3677  0.02555 0.01204 0.5682  0.02333 0.7693
      Q(ilm)
-0.00011

```

```

mode  liq  bi  g  pl  ilm  ru  q
      0.6726 0 0.1493 0.1523 0.01658 0.001278 0.007939

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.20    934.9  0.2370  0.3521  0.4969  0.03850 0.03610 0.5439
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.3207  0.1687  0.1420  0.03052  0.2476  0.1774
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)

```

0.3699 0.02658 0.01231 0.5632 0.02413 0.7655

Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.6663	0	0.1513	0.1529	0.01625	0.001429	0.01178

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.40 936.1 0.2341 0.3533 0.4956 0.03885 0.03561 0.5462

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3229 0.1696 0.1424 0.03092 0.2478 0.1777

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3720 0.02765 0.01260 0.5580 0.02496 0.7616

Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.6601	0	0.1534	0.1536	0.01592	0.001578	0.01551

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.60 937.3 0.2312 0.3545 0.4943 0.03921 0.03513 0.5484

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3252 0.1704 0.1427 0.03132 0.2479 0.1779

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3740 0.02876 0.01289 0.5528 0.02582 0.7577

Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.6539	0	0.1554	0.1542	0.01560	0.001724	0.01914

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.80 938.4 0.2284 0.3556 0.4929 0.03956 0.03463 0.5506

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3274 0.1712 0.1431 0.03172 0.2481 0.1781

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3761 0.02993 0.01320 0.5474 0.02671 0.7538

Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.6479	0	0.1575	0.1548	0.01528	0.001868	0.02269

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.00 939.6 0.2257 0.3567 0.4915 0.03992 0.03414 0.5527

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3297 0.1720 0.1434 0.03213 0.2482 0.1783

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3781 0.03114 0.01351 0.5419 0.02764 0.7498

Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	ru	q
	0.6419	0	0.1595	0.1555	0.01496	0.002010	0.02614

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.20	940.7	0.2229	0.3577	0.4901	0.04027	0.03363	0.5548
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3319	0.1728	0.1437	0.03254	0.2483	0.1785	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3802	0.03240	0.01384	0.5363	0.02860	0.7457	
	Q(ilm)						

-0.00013

mode	liq	bi	g	pl	ilm	ru	q
	0.6360	0	0.1615	0.1561	0.01465	0.002150	0.02951

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.40	941.7	0.2203	0.3587	0.4886	0.04062	0.03312	0.5568
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3342	0.1736	0.1440	0.03295	0.2485	0.1787	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3822	0.03371	0.01418	0.5306	0.02961	0.7416	
	Q(ilm)						

-0.00014

mode	liq	bi	g	pl	ilm	ru	q
	0.6302	0	0.1636	0.1568	0.01434	0.002288	0.03281

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	942.7	0.2176	0.3596	0.4871	0.04097	0.03259	0.5588
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3364	0.1743	0.1443	0.03336	0.2486	0.1789	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3842	0.03507	0.01453	0.5248	0.03065	0.7374	
	Q(ilm)						

-0.00015

mode	liq	bi	g	pl	ilm	ru	q
	0.6244	0	0.1657	0.1574	0.01403	0.002424	0.03603

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.80	943.7	0.2150	0.3605	0.4855	0.04132	0.03206	0.5608
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3387	0.1750	0.1447	0.03378	0.2487	0.1791	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3862	0.03649	0.01489	0.5188	0.03174	0.7332	
	Q(ilm)						

-0.00015

mode	liq	bi	g	pl	ilm	ru	q
	0.6187	0	0.1677	0.1581	0.01372	0.002558	0.03918

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.00	944.6	0.2125	0.3613	0.4839	0.04166	0.03152	0.5627
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3410	0.1757	0.1450	0.03420	0.2487	0.1792	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3882	0.03797	0.01527	0.5127	0.03287	0.7289	
	Q(ilm)						
	-0.00016						

mode	liq	bi	g	pl	ilm	ru	q
	0.6130	0	0.1698	0.1588	0.01342	0.002690	0.04227

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.20	945.5	0.2099	0.3621	0.4823	0.04200	0.03096	0.5646
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3433	0.1764	0.1453	0.03462	0.2488	0.1794	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3902	0.03950	0.01566	0.5065	0.03405	0.7245	
	Q(ilm)						
	-0.00017						

mode	liq	bi	g	pl	ilm	ru	q
	0.6073	0	0.1720	0.1595	0.01311	0.002821	0.04530

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	946.4	0.2074	0.3628	0.4806	0.04233	0.03040	0.5665
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3457	0.1771	0.1457	0.03505	0.2488	0.1795	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3922	0.04109	0.01607	0.5001	0.03528	0.7201	
	Q(ilm)						
	-0.00018						

mode	liq	bi	g	pl	ilm	ru	q
	0.6016	0	0.1741	0.1602	0.01281	0.002950	0.04828

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.60	947.1	0.2050	0.3635	0.4788	0.04265	0.02982	0.5683
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3480	0.1778	0.1460	0.03549	0.2489	0.1797	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3942	0.04273	0.01649	0.4936	0.03657	0.7156	
	Q(ilm)						
	-0.00019						

mode	liq	bi	g	pl	ilm	ru	q
	0.5960	0	0.1762	0.1610	0.01251	0.003078	0.05121

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.80	947.9	0.2025	0.3641	0.4770	0.04297	0.02922	0.5700
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3504	0.1784	0.1464	0.03593	0.2489	0.1798	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3962	0.04444	0.01692	0.4869	0.03792	0.7110	
	Q(ilm)						
	-0.00021						

mode	liq	bi	g	pl	ilm	ru	q
	0.5903	0	0.1784	0.1618	0.01221	0.003204	0.05409

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.00	948.6	0.2001	0.3647	0.4752	0.04327	0.02862	0.5718
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3528	0.1790	0.1469	0.03638	0.2488	0.1799	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3982	0.04621	0.01737	0.4802	0.03933	0.7063	
	Q(ilm)						
	-0.00023						

mode	liq	bi	g	pl	ilm	ru	q
	0.5846	0	0.1807	0.1626	0.01191	0.003329	0.05692

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	949.2	0.1977	0.3653	0.4732	0.04357	0.02799	0.5735
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3553	0.1797	0.1473	0.03684	0.2488	0.1800	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4002	0.04803	0.01782	0.4732	0.04081	0.7015	
	Q(ilm)						
	-0.00025						

mode	liq	bi	g	pl	ilm	ru	q
	0.5789	0	0.1829	0.1634	0.01161	0.003453	0.05972

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.40	949.8	0.1954	0.3658	0.4712	0.04386	0.02735	0.5751
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3578	0.1803	0.1479	0.03731	0.2487	0.1801	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4022	0.04990	0.01830	0.4661	0.04236	0.6967	
	Q(ilm)						
	-0.00027						

mode	liq	bi	g	pl	ilm	ru	q
	0.5732	0	0.1852	0.1642	0.01131	0.003576	0.06248

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

9.60 950.3 0.1930 0.3662 0.4692 0.04413 0.02669 0.5768
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3604 0.1808 0.1484 0.03779 0.2486 0.1801
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4042 0.05183 0.01878 0.4588 0.04399 0.6917
Q(ilm)

-0.00031

mode liq bi g pl ilm ru q
0.5674 0 0.1875 0.1651 0.01101 0.003698 0.06521

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 950.8 0.1907 0.3666 0.4670 0.04439 0.02602 0.5784
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3630 0.1814 0.1491 0.03828 0.2485 0.1802
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4062 0.05381 0.01928 0.4514 0.04571 0.6866
Q(ilm)

-0.00035

mode liq bi g pl ilm ru q
0.5616 0 0.1899 0.1661 0.01071 0.003818 0.06792

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 951.2 0.1884 0.3669 0.4648 0.04464 0.02533 0.5799
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3657 0.1820 0.1498 0.03878 0.2483 0.1802
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4083 0.05584 0.01979 0.4439 0.04751 0.6814
Q(ilm)

-0.00042

mode liq bi g pl ilm ru q
0.5557 0 0.1923 0.1671 0.01041 0.003937 0.07059

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 951.5 0.1861 0.3672 0.4625 0.04487 0.02461 0.5814
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3685 0.1825 0.1506 0.03930 0.2481 0.1802
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4103 0.05791 0.02031 0.4361 0.04941 0.6761
Q(ilm)

-0.00051

mode liq bi g pl ilm ru q
0.5498 0 0.1947 0.1681 0.01011 0.004055 0.07325

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 951.7 0.1838 0.3674 0.4601 0.04509 0.02389 0.5829
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3713 0.1831 0.1515 0.03984 0.2478 0.1802
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4123 0.06001 0.02083 0.4283 0.05141 0.6706
Q(ilm)

-0.00066

mode	liq	bi	g	pl	ilm	ru	q
	0.5438	0	0.1971	0.1692	0.009814	0.004171	0.07589

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 951.9 0.1815 0.3675 0.4576 0.04529 0.02314 0.5843
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3742 0.1836 0.1525 0.04039 0.2476 0.1802
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4143 0.06215 0.02136 0.4203 0.05352 0.6650
Q(ilm)

-0.00097

mode	liq	bi	g	pl	ilm	ru	q
	0.5377	0	0.1996	0.1704	0.009517	0.004286	0.07851

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 952.0 0.1792 0.3675 0.4550 0.04548 0.02238 0.5857
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3772 0.1841 0.1536 0.04096 0.2472 0.1801
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4163 0.06431 0.02190 0.4121 0.05574 0.6593
Q(ilm)

-0.00183

mode	liq	bi	g	pl	ilm	ru	q
	0.5315	0	0.2022	0.1716	0.009222	0.004399	0.08111

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 951.9 0.1746 0.3674 0.4494 0.04580 0.02080 0.5883
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3835 0.1850 0.1562 0.04216 0.2464 0.1799
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4203 0.06866 0.02296 0.3955 0.06055 0.6472
Q(ilm)

0.002051

mode	liq	bi	g	pl	ilm	ru	q
	0.5189	0	0.2073	0.1743	0.008640	0.004620	0.08630

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 951.7 0.1723 0.3672 0.4465 0.04594 0.01999 0.5896
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3868 0.1854 0.1577 0.04279 0.2459 0.1797
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4223 0.07085 0.02349 0.3870 0.06314 0.6410
Q(ilm)

0.000964

mode	liq	bi	g	pl	ilm	ru	q
	0.5124	0	0.2098	0.1758	0.008353	0.004727	0.08889

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 951.4 0.1700 0.3670 0.4434 0.04607 0.01917 0.5907
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3903 0.1859 0.1593 0.04345 0.2453 0.1794
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4242 0.07303 0.02401 0.3785 0.06588 0.6345
Q(ilm)

0.000621

mode	liq	bi	g	pl	ilm	ru	q
	0.5058	0	0.2124	0.1774	0.008072	0.004831	0.09147

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 951.0 0.1677 0.3666 0.4402 0.04618 0.01834 0.5918
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3938 0.1862 0.1611 0.04413 0.2447 0.1792
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4261 0.07519 0.02452 0.3699 0.06875 0.6278
Q(ilm)

0.000452

mode	liq	bi	g	pl	ilm	ru	q
	0.4991	0	0.2150	0.1791	0.007795	0.004934	0.09405

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 950.5 0.1654 0.3661 0.4369 0.04628 0.01750 0.5929
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3975 0.1866 0.1631 0.04484 0.2440 0.1788
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4280 0.07734 0.02501 0.3612 0.07177 0.6209
Q(ilm)

0.000352

mode	liq	bi	g	pl	ilm	ru	q
	0.4923	0	0.2176	0.1810	0.007525	0.005033	0.09663

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 949.9 0.1631 0.3655 0.4334 0.04636 0.01665 0.5938
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4013 0.1869 0.1653 0.04557 0.2433 0.1784
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4298 0.07945 0.02548 0.3526 0.07494 0.6138
Q(ilm)

0.000286

mode	liq	bi	g	pl	ilm	ru	q
	0.4854	0	0.2201	0.1829	0.007261	0.005129	0.09921

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 949.1 0.1607 0.3648 0.4298 0.04644 0.01580 0.5947
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4052 0.1871 0.1677 0.04633 0.2425 0.1780
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4316 0.08153 0.02593 0.3440 0.07826 0.6064
Q(ilm)

0.000239

mode	liq	bi	g	pl	ilm	ru	q
	0.4783	0	0.2226	0.1850	0.007006	0.005222	0.1018

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 948.3 0.1584 0.3640 0.4261 0.04650 0.01495 0.5955
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4093 0.1874 0.1703 0.04712 0.2416 0.1775
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4334 0.08357 0.02636 0.3354 0.08172 0.5988
Q(ilm)

0.000203

mode	liq	bi	g	pl	ilm	ru	q
	0.4712	0	0.2251	0.1872	0.006760	0.005311	0.1044

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 947.3 0.1560 0.3630 0.4222 0.04656 0.01410 0.5962
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4136 0.1876 0.1732 0.04794 0.2406 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4351 0.08557 0.02675 0.3268 0.08533 0.5909
Q(ilm)

0.000176

mode	liq	bi	g	pl	ilm	ru	q
	0.4640	0	0.2276	0.1895	0.006523	0.005396	0.1070

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 946.1 0.1535 0.3619 0.4182 0.04661 0.01325 0.5969
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4180 0.1877 0.1763 0.04878 0.2396 0.1762
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4367 0.08751 0.02711 0.3184 0.08909 0.5828
Q(ilm)

0.000154

mode	liq	bi	g	pl	ilm	ru	q
	0.4566	0	0.2300	0.1920	0.006297	0.005478	0.1096

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.20 944.8 0.1511 0.3607 0.4140 0.04665 0.01241 0.5974

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4226 0.1878 0.1797 0.04965 0.2385 0.1754

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4383 0.08940 0.02744 0.3101 0.09298 0.5744

Q(ilm)

0.000136

mode	liq	bi	g	pl	ilm	ru	q
	0.4492	0	0.2324	0.1946	0.006082	0.005556	0.1122

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.40 943.4 0.1486 0.3593 0.4097 0.04669 0.01158 0.5978

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4273 0.1878 0.1834 0.05055 0.2373 0.1746

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4398 0.09123 0.02772 0.3019 0.09701 0.5657

Q(ilm)

0.000121

mode	liq	bi	g	pl	ilm	ru	q
	0.4417	0	0.2347	0.1973	0.005880	0.005630	0.1148

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.60 941.8 0.1461 0.3578 0.4053 0.04673 0.01077 0.5981

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4322 0.1877 0.1874 0.05148 0.2361 0.1736

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4413 0.09300 0.02795 0.2940 0.1012 0.5568

Q(ilm)

0.000108

mode	liq	bi	g	pl	ilm	ru	q
	0.4341	0	0.2369	0.2001	0.005691	0.005700	0.1175

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.80 940.0 0.1435 0.3561 0.4007 0.04676 0.009967 0.5983

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4372 0.1876 0.1917 0.05244 0.2347 0.1725

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4427 0.09471 0.02814 0.2862 0.1054 0.5475

Q(ilm)

9.75E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.4265	0	0.2390	0.2031	0.005515	0.005765	0.1201

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	938.1	0.1409	0.3543	0.3961	0.04680	0.009188	0.5984
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4424	0.1875	0.1965	0.05341	0.2333	0.1713	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4440	0.09635	0.02828	0.2786	0.1097	0.5380	
	Q(ilm)						
8.81E-05							

mode	liq	bi	g	pl	ilm	ru	q
	0.4188	0	0.2411	0.2062	0.005353	0.005827	0.1227

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	936.0	0.1382	0.3524	0.3912	0.04683	0.008432	0.5983
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4477	0.1872	0.2016	0.05441	0.2318	0.1700	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4452	0.09793	0.02836	0.2713	0.1141	0.5281	
	Q(ilm)						
8.00E-05							

mode	liq	bi	g	pl	ilm	ru	q
	0.4111	0	0.2431	0.2094	0.005207	0.005884	0.1253

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	933.8	0.1355	0.3503	0.3863	0.04686	0.007704	0.5981
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4532	0.1869	0.2071	0.05542	0.2302	0.1685	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4464	0.09943	0.02839	0.2642	0.1186	0.5180	
	Q(ilm)						
7.28E-05							

mode	liq	bi	g	pl	ilm	ru	q
	0.4034	0	0.2449	0.2127	0.005075	0.005937	0.1280

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	931.3	0.1328	0.3481	0.3813	0.04690	0.007007	0.5978
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4588	0.1865	0.2131	0.05644	0.2286	0.1669	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4474	0.1009	0.02836	0.2574	0.1231	0.5076	
	Q(ilm)						
6.64E-05							

mode	liq	bi	g	pl	ilm	ru	q
	0.3957	0	0.2467	0.2160	0.004958	0.005987	0.1306

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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14.80 928.7 0.1300 0.3457 0.3761 0.04694 0.006344 0.5974
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4646 0.1860 0.2195 0.05747 0.2268 0.1651
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4484 0.1022 0.02827 0.2509 0.1275 0.4970
Q(ilm)

6.08E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3881	0	0.2484	0.2195	0.004857	0.006032	0.1332

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 926.0 0.1271 0.3433 0.3710 0.04700 0.005725 0.5968
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4704 0.1855 0.2264 0.05849 0.2251 0.1632
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4493 0.1035 0.02812 0.2448 0.1320 0.4863
Q(ilm)

5.58E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3805	0	0.2499	0.2229	0.004771	0.006073	0.1358

calcs use:

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, ru, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 897.0 0.1880 0.3464 0.5003 0.03008 0.01527 0.6272
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4026 0.2395 0.2337 0.03489 0.2144 0.1985
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4974 0.02926 0.007846 0.4622 0.03545 0.7392
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.4198	0.08464	0.1387	0.2190	0.01405	0	0.1237

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 889.8 0.1816 0.3424 0.5015 0.02892 0.01301 0.6364
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4158 0.2499 0.2519 0.03569 0.2089 0.1975
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5143 0.02935 0.007363 0.4524 0.03635 0.7298

Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.3913	0.09641	0.1345	0.2277	0.01345	0	0.1367

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	880.1	0.1740	0.3363	0.5048	0.02741	0.01057	0.6471
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4325	0.2633	0.2764	0.03648	0.2018	0.1949
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5350	0.02924	0.006754	0.4424	0.03684	0.7174
		Q(ilm)					

-0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.3579	0.1115	0.1279	0.2379	0.01274	0	0.1521

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.60	866.3	0.1644	0.3267	0.5134	0.02536	0.007949	0.6601
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4552	0.2817	0.3112	0.03708	0.1919	0.1894
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5618	0.02890	0.005973	0.4322	0.03640	0.7006
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	ru	q
	0.3167	0.1322	0.1173	0.2502	0.01186	0	0.1717

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.60	924.1	0.2419	0.3483	0.5055	0.03539	0.03429	0.5494
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3221	0.1759	0.1519	0.02856	0.2425	0.1828
		x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)
		0.1353	0.3505	0.3820	0.02257	0.01003	0.5658
		k(pl)	x(ilm)	Q(ilm)			
		0.02237	0.7886-9.174e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.6461	0.01589	0	0.1411	0.1609	0.01820	0.01777

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.80	910.2	0.2301	0.3488	0.5106	0.03169	0.02858	0.5791
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3419	0.2008	0.1730	0.03110	0.2271	0.1971	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1534	0.3881	0.4264	0.02249	0.009037	0.5372	
	k(pl)	x(ilm)	Q(ilm)				
	0.02443	0.7700	9.630e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.5698	0.04313	0	0.1380	0.1804	0.01653	0.05228

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	898.7	0.2201	0.3474	0.5146	0.02902	0.02377	0.6009
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3599	0.2212	0.1940	0.03299	0.2157	0.2052	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1681	0.4228	0.4614	0.02240	0.008203	0.5149	
	k(pl)	x(ilm)	Q(ilm)				
	0.02611	0.7547	0.0001006				

mode	liq	bi	cd	g	pl	ilm	q
	0.5106	0.06507	0	0.1340	0.1960	0.01531	0.07900

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	888.9	0.2114	0.3447	0.5180	0.02702	0.01981	0.6175
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3764	0.2382	0.2148	0.03439	0.2068	0.2088	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1802	0.4549	0.4893	0.02232	0.007505	0.4973	
	k(pl)	x(ilm)	Q(ilm)				
	0.02745	0.7419	0.0001046				

mode	liq	bi	cd	g	pl	ilm	q
	0.4634	0.08325	0	0.1296	0.2089	0.01438	0.1006

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.40	880.2	0.2034	0.3411	0.5215	0.02545	0.01655	0.6306
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3919	0.2529	0.2356	0.03542	0.1996	0.2095	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1903	0.4851	0.5126	0.02228	0.006909	0.4830	
	k(pl)	x(ilm)	Q(ilm)				
	0.02847	0.7307	0.0001085				

mode	liq	bi	cd	g	pl	ilm	q
	0.4241	0.09898	0	0.1247	0.2198	0.01362	0.1188

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.60 872.1 0.1959 0.3368 0.5253 0.02414 0.01384 0.6416
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4069 0.2660 0.2566 0.03616 0.1933 0.2080
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1992 0.5140 0.5326 0.02227 0.006385 0.4710
k(pl) x(ilm) Q(ilm)
0.02922 0.7204-0.0001125

mode liq bi cd g pl ilm q
0.3900 0.1132 0 0.1196 0.2295 0.01297 0.1349

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 864.3 0.1886 0.3319 0.5300 0.02300 0.01157 0.6510
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4217 0.2782 0.2781 0.03666 0.1876 0.2050
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2071 0.5421 0.5507 0.02230 0.005916 0.4608
k(pl) x(ilm) Q(ilm)
0.02968 0.7106-0.0001165

mode liq bi cd g pl ilm q
0.3595 0.1265 0 0.1140 0.2381 0.01239 0.1495

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 856.5 0.1814 0.3262 0.5358 0.02197 0.009645 0.6594
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4368 0.2900 0.3001 0.03693 0.1822 0.2008
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2145 0.5696 0.5674 0.02238 0.005485 0.4519
k(pl) x(ilm) Q(ilm)
0.02984 0.7010-0.0001209

mode liq bi cd g pl ilm q
0.3315 0.1393 0 0.1080 0.2460 0.01187 0.1634

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 848.4 0.1741 0.3197 0.5434 0.02098 0.008004 0.6671
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4524 0.3016 0.3228 0.03698 0.1769 0.1956
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2214 0.5969 0.5834 0.02252 0.005083 0.4441
k(pl) x(ilm) Q(ilm)
0.02967 0.6915-0.0001255

mode liq bi cd g pl ilm q
0.3050 0.1520 0 0.1016 0.2534 0.01139 0.1767

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 839.9 0.1666 0.3123 0.5532 0.02001 0.006595 0.6742
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4690 0.3134 0.3462 0.03682 0.1714 0.1895
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2281 0.6243 0.5989 0.02273 0.004701 0.4372
k(pl) x(ilm) Q(ilm)
0.02911 0.6819-0.0001304

mode liq bi cd g pl ilm q
0.2796 0.1649 0 0.09457 0.2603 0.01094 0.1897

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 830.6 0.1589 0.3039 0.5662 0.01902 0.005376 0.6809
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4871 0.3255 0.3704 0.03641 0.1657 0.1828
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2346 0.6519 0.6143 0.02302 0.004329 0.4311
k(pl) x(ilm) Q(ilm)
0.02809 0.6723-0.0001351

mode liq bi cd g pl ilm q
0.2548 0.1782 0 0.08699 0.2668 0.01053 0.2027

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 820.1 0.1506 0.2941 0.5835 0.01797 0.004315 0.6870
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5070 0.3380 0.3955 0.03574 0.1596 0.1756
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2408 0.6802 0.6299 0.02342 0.003959 0.4257
k(pl) x(ilm) Q(ilm)
0.02653 0.6629-0.0001389

mode liq bi cd g pl ilm q
0.2302 0.1919 0 0.07876 0.2731 0.01016 0.2159

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 807.9 0.1417 0.2826 0.6064 0.01681 0.003383 0.6924
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5298 0.3511 0.4214 0.03474 0.1529 0.1680
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2466 0.7096 0.6457 0.02396 0.003580 0.4209
k(pl) x(ilm) Q(ilm)
0.02434 0.6542-0.0001403

mode liq bi cd g pl ilm q
0.2056 0.2063 0 0.06985 0.2791 0.009854 0.2293

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 792.7 0.1319 0.2686 0.6372 0.01547 0.002552 0.6967
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5567 0.3647 0.4485 0.03334 0.1454 0.1603
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2516 0.7406 0.6622 0.02473 0.003177 0.4166
k(pl) x(ilm) Q(ilm)
0.02140 0.6470-0.0001363

mode	liq	bi	cd	g	pl	ilm	q
	0.1806	0.2214	0	0.06021	0.2851	0.009634	0.2431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 772.1 0.1204 0.2504 0.6800 0.01379 0.001787 0.6991
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5906 0.3788 0.4775 0.03133 0.1364 0.1527
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2552 0.7750 0.6803 0.02590 0.002714 0.4123
k(pl) x(ilm) Q(ilm)
0.01748 0.6431-0.0001233

mode	liq	bi	cd	g	pl	ilm	q
	0.1544	0.2375	0	0.04961	0.2913	0.009562	0.2576

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 725.7 0.09971 0.2146 0.7691 0.010590.0008720 0.6945
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6565 0.3982 0.5212 0.02698 0.1194 0.1445
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2543 0.8282 0.7100 0.02889 0.001920 0.4058
k(pl) x(ilm) Q(ilm)
0.01030 0.6512-8.876e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1162	0.2605	0	0.03366	0.3007	0.009994	0.2789

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.38 840.8 0.1674 0.3131 0.5521 0.02011 0.006729 0.6735
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4673 0.3122 0.3438 0.03684 0.1720 0.1902
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2275 0.6215 0.5973 0.02270 0.004739 0.4379
k(pl) x(ilm) Q(ilm)
0.02918 0.6829-0.0001299

mode	liq	bi	cd	g	pl	ilm	sill	q
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0.2822 0.1636 0 0.09531 0.2596 0.01099 0 0.1884
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>

phases : liq, bi, cd, g, pl, ilm, sill, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 664.3 0.1107 0.1789 0.8677 0.005977 0.001201 0.6983
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6965 0.4358 0.3558 0.02519 0.08917 0.2524
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2798 0.7893 0.7682 0.03320 0.001565 0.4045
k(pl) x(ilm) Q(ilm)
0.003911 0.7090-5.350e-5

mode liq bi cd g pl ilm sill q
0.09529 0.2836 0 0.001621 0.3087 0.01179 0.02073 0.2783

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 695.1 0.1173 0.1991 0.8327 0.007325 0.001721 0.7054
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6660 0.4281 0.3613 0.02727 0.09898 0.2386
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2817 0.7713 0.7510 0.03110 0.001942 0.4085
k(pl) x(ilm) Q(ilm)
0.005818 0.6958-6.194e-5

mode liq bi cd g pl ilm sill q
0.1075 0.2774 0 0.008133 0.3038 0.01111 0.01869 0.2733

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 729.6 0.1260 0.2236 0.7835 0.009211 0.002534 0.7103
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6272 0.4164 0.3648 0.02980 0.1110 0.2251
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2813 0.7456 0.7297 0.02892 0.002455 0.4136
k(pl) x(ilm) Q(ilm)
0.008924 0.6807-7.553e-5

mode liq bi cd g pl ilm sill q
0.1262 0.2669 0 0.01777 0.2975 0.01043 0.01613 0.2651

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 766.4 0.1371 0.2522 0.7179 0.01181 0.003727 0.7101
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5800 0.3973 0.3647 0.03265 0.1256 0.2130
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2756 0.7109 0.7017 0.02677 0.003118 0.4200
k(pl) x(ilm) Q(ilm)
0.01377 0.6670-9.723e-5

mode	liq	bi	cd	g	pl	ilm	sill	q
	0.1556	0.2487	0	0.03271	0.2890	0.009918	0.01271	0.2513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 798.5 0.1492 0.2787 0.6483 0.01477 0.005010 0.7023
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5330 0.3703 0.3593 0.03505 0.1418 0.2040
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2626 0.6744 0.6678 0.02501 0.003793 0.4265
k(pl) x(ilm) Q(ilm)
0.01968 0.6627-0.0001207

mode	liq	bi	cd	g	pl	ilm	sill	q
	0.1957	0.2223	0	0.05286	0.2791	0.009858	0.008595	0.2316

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 703.9 0.1193 0.2086 0.8218 0.007409 0.001910 0.7108
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6535 0.4319 0.3654 0.02777 0.1014 0.2327
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2866 0.7615 0.7497 0.02907 0.002022 0.3916
k(pl) x(ilm) Q(ilm)
0.006972 0.6890-6.574e-5

mode	liq	bi	cd	g	pl	ilm	sill	q	H2O
	0.06485	0.2809	0	0.006393	0.3189	0.01079	0.01897	0.2846	0.01466

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.47 706.2 0.1199 0.2067 0.8181 0.007882 0.001952 0.7074

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6541 0.4248 0.3628 0.02806 0.1027 0.2340
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2819 0.7637 0.7445 0.03038 0.002096 0.4101
k(pl) x(ilm) Q(ilm)
0.006687 0.6909-6.572e-5

mode liq bi cd g pl ilm sill q H2O
0.1128 0.2745 0 0.01089 0.3019 0.01088 0.01791 0.2710 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 701.5 0.1173 0.2101 0.8329 0.006907 0.001998 0.7160
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6546 0.4415 0.3653 0.02722 0.09913 0.2327
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2932 0.7627 0.3688 0.007066 0.6877-6.557e-5

mode liq bi cd pl ilm sill q H2O
0.0006920 0.2894 0 0.3419 0.01072 0.02074 0.3023 0.03416

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 703.0 0.1146 0.2081 0.8460 0.007181 0.002349 0.7171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6589 0.4409 0.3569 0.02691 0.09797 0.2377
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2933 0.7716 0.3755 0.006380 0.6908-6.503e-5

mode liq bi cd pl ilm sill q H2O
0.01835 0.2882 0 0.3353 0.01088 0.02131 0.2975 0.02854

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 704.6 0.1121 0.2061 0.8576 0.007502 0.002758 0.7180
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6630 0.4401 0.3486 0.02661 0.09686 0.2425
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2934 0.7801 0.3838 0.005751 0.6936-6.458e-5

mode liq bi cd pl ilm sill q H2O
0.03967 0.2869 0 0.3271 0.01103 0.02184 0.2919 0.02160

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 706.3 0.1099 0.2039 0.8675 0.007888 0.003233 0.7189

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6668 0.4392 0.3406 0.02632 0.09586 0.2472
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2933 0.7882 0.3944 0.005177 0.6963-6.424e-5

mode liq bi cd pl ilm sill q H2O
0.06544 0.2854 0 0.3172 0.01118 0.02230 0.2854 0.01305

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 708.4 0.1080 0.2014 0.8756 0.008365 0.003784 0.7197
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6702 0.4379 0.3328 0.02607 0.09502 0.2517
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2930 0.7959 0.4078 0.004657 0.6987-6.403e-5

mode liq bi cd pl ilm sill q H2O
0.09662 0.2836 0 0.3053 0.01132 0.02269 0.2779 0.002550

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.39 701.5 0.1175 0.2102 0.8323 0.006896 0.001984 0.7159
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6544 0.4415 0.3657 0.02724 0.09919 0.2325
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2932 0.7623 0.3686 0.007097 0.6876-6.560e-5

mode liq bi cd pl ilm sill q H2O
0 0.2895 0 0.3422 0.01072 0.02072 0.3025 0.03437

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, cd, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
5.00 639.6 0.4400 0.3904 0.02540 0.09190 0.2366 0.2757
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7192 0.3692 0.005560 0.6999-5.128e-5 0.2898

mode bi cd pl ilm sill q H2O

0.2898 0 0.3417 0.01135 0.01879 0.3044 0.03397

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
5.20 648.7 0.4402 0.3866 0.02569 0.09304 0.2360 0.2784
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7260 0.3691 0.005790 0.6980-5.300e-5 0.2897

mode bi cd pl ilm sill q H2O
0.2897 0 0.3418 0.01125 0.01909 0.3041 0.03404

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
5.40 657.8 0.4405 0.3828 0.02597 0.09416 0.2354 0.2811
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7325 0.3690 0.006018 0.6962-5.483e-5 0.2897

mode bi cd pl ilm sill q H2O
0.2897 0 0.3418 0.01115 0.01938 0.3038 0.03410

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
5.60 666.7 0.4407 0.3792 0.02624 0.09523 0.2348 0.2837
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7389 0.3689 0.006242 0.6944-5.676e-5 0.2897

mode bi cd pl ilm sill q H2O
0.2897 0 0.3419 0.01106 0.01966 0.3036 0.03416

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
5.80 675.6 0.4409 0.3757 0.02650 0.09628 0.2343 0.2862
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7451 0.3688 0.006463 0.6927-5.880e-5 0.2896

mode bi cd pl ilm sill q H2O
0.2896 0 0.3420 0.01097 0.01994 0.3033 0.03421

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.00 684.4 0.4411 0.3722 0.02676 0.09729 0.2337 0.2886
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7511 0.3687 0.006681 0.6909-6.096e-5 0.2896

mode bi cd pl ilm sill q H2O
0.2896 0 0.3421 0.01088 0.02021 0.3030 0.03427

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.20 693.2 0.4413 0.3689 0.02701 0.09827 0.2331 0.2910
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7569 0.3687 0.006895 0.6892-6.326e-5 0.2895

mode bi cd pl ilm sill q H2O
0.2895 0 0.3421 0.01079 0.02047 0.3028 0.03432

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.40 701.8 0.4415 0.3656 0.02725 0.09923 0.2325 0.2933
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7625 0.3686 0.007106 0.6875-6.571e-5 0.2895

mode bi cd pl ilm sill q H2O
0.2895 0 0.3422 0.01071 0.02073 0.3025 0.03438

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.60 710.4 0.4417 0.3623 0.02748 0.1002 0.2319 0.2956
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7680 0.3685 0.007313 0.6859-6.832e-5 0.2894

mode bi cd pl ilm sill q H2O
0.2894 0 0.3423 0.01063 0.02098 0.3023 0.03443

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.80 719.0 0.4419 0.3592 0.02771 0.1011 0.2312 0.2978
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7733 0.3684 0.007517 0.6842-7.112e-5 0.2894

mode bi cd pl ilm sill q H2O
0.2894 0 0.3423 0.01055 0.02123 0.3020 0.03448

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.00 727.5 0.4421 0.3562 0.02794 0.1019 0.2306 0.2999
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7785 0.3684 0.007716 0.6826-7.412e-5 0.2893

mode bi cd pl ilm sill q H2O
0.2893 0 0.3424 0.01048 0.02146 0.3018 0.03453

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.20 735.9 0.4423 0.3532 0.02816 0.1028 0.2300 0.3021
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7835 0.3683 0.007912 0.6810-7.736e-5 0.2893

mode bi cd pl ilm sill q H2O
0.2893 0 0.3425 0.01040 0.02170 0.3016 0.03458

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.40 744.3 0.4425 0.3502 0.02837 0.1036 0.2294 0.3041
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7884 0.3682 0.008103 0.6794-8.084e-5 0.2892

mode bi cd pl ilm sill q H2O
0.2892 0 0.3425 0.01033 0.02193 0.3013 0.03462

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.60 752.6 0.4426 0.3474 0.02858 0.1044 0.2287 0.3061

h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7931 0.3682 0.008291 0.6779-8.462e-5 0.2892

mode bi cd pl ilm sill q H2O
0.2892 0 0.3426 0.01026 0.02215 0.3011 0.03467

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.80 760.9 0.4428 0.3446 0.02878 0.1052 0.2281 0.3081
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7977 0.3681 0.008474 0.6764-8.872e-5 0.2891

mode bi cd pl ilm sill q H2O
0.2891 0 0.3427 0.01019 0.02236 0.3009 0.03471

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.00 769.1 0.4430 0.3419 0.02898 0.1060 0.2274 0.3100
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8021 0.3680 0.008651 0.6749-9.320e-5 0.2891

mode bi cd pl ilm sill q H2O
0.2891 0 0.3427 0.01013 0.02257 0.3007 0.03475

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.20 777.3 0.4431 0.3393 0.02917 0.1067 0.2267 0.3119
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8064 0.3680 0.008826 0.6734-9.810e-5 0.2891

mode bi cd pl ilm sill q H2O
0.2891 0 0.3428 0.01006 0.02278 0.3005 0.03480

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.40 785.4 0.4433 0.3367 0.02936 0.1075 0.2261 0.3138
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8106 0.3679 0.008997 0.6719-0.0001035 0.2890

mode bi cd pl ilm sill q H2O
0.2890 0 0.3429 0.01000 0.02298 0.3003 0.03484

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.60 793.5 0.4434 0.3342 0.02955 0.1082 0.2254 0.3156
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8147 0.3678 0.009166 0.6704-0.0001095 0.2890

mode bi cd pl ilm sill q H2O
0.2890 0 0.3429 0.009939 0.02318 0.3001 0.03488

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.80 801.5 0.4436 0.3317 0.02973 0.1089 0.2248 0.3174
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8186 0.3678 0.009331 0.6690-0.0001161 0.2889

mode	bi	cd	pl	ilm	sill	q	H2O
0.2889	0	0.3430	0.009878	0.02337	0.2999	0.03492	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
9.00	809.5	0.4437	0.3292	0.02990	0.1096	0.2241	0.3191
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8225	0.3677	0.009494	0.6676	0.0001235	0.2889

mode	bi	cd	pl	ilm	sill	q	H2O
0.2889	0	0.3430	0.009820	0.02356	0.2997	0.03496	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
9.20	817.5	0.4438	0.3269	0.03008	0.1102	0.2234	0.3208
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8262	0.3676	0.009653	0.6662	0.0001318	0.2889

mode	bi	cd	pl	ilm	sill	q	H2O
0.2889	0	0.3431	0.009762	0.02374	0.2996	0.03499	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
9.40	825.4	0.4440	0.3245	0.03025	0.1109	0.2228	0.3225
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8298	0.3676	0.009810	0.6648	0.0001413	0.2888

mode	bi	cd	pl	ilm	sill	q	H2O
0.2888	0	0.3431	0.009706	0.02393	0.2994	0.03503	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
9.60	833.3	0.4441	0.3222	0.03041	0.1115	0.2221	0.3241
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8334	0.3675	0.009964	0.6634	0.0001522	0.2888

mode	bi	cd	pl	ilm	sill	q	H2O
0.2888	0	0.3432	0.009651	0.02410	0.2992	0.03507	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
9.80	841.1	0.4442	0.3200	0.03058	0.1121	0.2214	0.3258
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8368	0.3675	0.01011	0.6620	0.0001647	0.2887

mode	bi	cd	pl	ilm	sill	q	H2O
0.2887	0	0.3432	0.009598	0.02428	0.2990	0.03510	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
10.00	848.9	0.4444	0.3178	0.03074	0.1128	0.2207	0.3273
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8401	0.3674	0.01026	0.6606	0.0001793	0.2887

mode	bi	cd	pl	ilm	sill	q	H2O
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0.2887 0 0.3433 0.009545 0.02445 0.2989 0.03514

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
10.20 856.6 0.4445 0.3156 0.03090 0.1134 0.2201 0.3289
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8434 0.3674 0.01041 0.6593-0.0001967 0.2887

mode bi cd pl ilm sill q H2O
0.2887 0 0.3433 0.009493 0.02462 0.2987 0.03517

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
10.40 864.3 0.4446 0.3135 0.03105 0.1140 0.2194 0.3304
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8465 0.3673 0.01055 0.6580-0.0002176 0.2886

mode bi cd pl ilm sill q H2O
0.2886 0 0.3434 0.009443 0.02478 0.2985 0.03521

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
10.60 872.0 0.4447 0.3114 0.03120 0.1145 0.2188 0.3319
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8496 0.3673 0.01069 0.6566-0.0002432 0.2886

mode bi cd pl ilm sill q H2O
0.2886 0 0.3434 0.009393 0.02494 0.2984 0.03524

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
10.80 879.7 0.4448 0.3093 0.03135 0.1151 0.2181 0.3334
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8526 0.3672 0.01083 0.6553-0.0002754 0.2886

mode bi cd pl ilm sill q H2O
0.2886 0 0.3435 0.009345 0.02510 0.2982 0.03527

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
11.00 887.3 0.4450 0.3073 0.03150 0.1157 0.2174 0.3348
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8555 0.3672 0.01097 0.6540-0.0003171 0.2885

mode bi cd pl ilm sill q H2O
0.2885 0 0.3435 0.009297 0.02526 0.2981 0.03530

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
11.20 894.8 0.4451 0.3053 0.03164 0.1162 0.2168 0.3362
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8583 0.3671 0.01110 0.6527-0.0003732 0.2885

mode bi cd pl ilm sill q H2O
0.2885 0 0.3436 0.009251 0.02541 0.2979 0.03533

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
11.40 902.4 0.4452 0.3034 0.03178 0.1167 0.2161 0.3376
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8611 0.3671 0.01123 0.6515-0.0004527 0.2885

mode bi cd pl ilm sill q H2O
0.2885 0 0.3436 0.009205 0.02556 0.2978 0.03536

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
11.60 909.9 0.4453 0.3015 0.03192 0.1173 0.2154 0.3390
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8638 0.3670 0.01136 0.6502-0.0005741 0.2884

mode bi cd pl ilm sill q H2O
0.2884 0 0.3437 0.009160 0.02571 0.2976 0.03539

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
11.80 917.4 0.4454 0.2996 0.03206 0.1178 0.2148 0.3404
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8664 0.3670 0.01148 0.6489-0.0007823 0.2884

mode bi cd pl ilm sill q H2O
0.2884 0 0.3437 0.009116 0.02585 0.2975 0.03542

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.00 924.8 0.4455 0.2978 0.03219 0.1183 0.2141 0.3417
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8689 0.3669 0.01161 0.6477-0.001223 0.2884

mode bi cd pl ilm sill q H2O
0.2884 0 0.3438 0.009072 0.02599 0.2973 0.03545

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.20 932.2 0.4456 0.2960 0.03232 0.1188 0.2135 0.3430
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8714 0.3669 0.01173 0.6464-0.002776 0.2883

mode bi cd pl ilm sill q H2O
0.2883 0 0.3438 0.009030 0.02613 0.2972 0.03548

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.40 939.6 0.4457 0.2942 0.03245 0.1193 0.2128 0.3443
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8738 0.3668 0.01185 0.6452 0.01023 0.2883

mode bi cd pl ilm sill q H2O
0.2883 0 0.3438 0.008988 0.02627 0.2971 0.03551

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.60 946.9 0.4458 0.2925 0.03258 0.1198 0.2122 0.3455

h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8761 0.3668 0.01196 0.6440 0.001834 0.2883

mode bi cd pl ilm sill q H2O
0.2883 0 0.3439 0.008947 0.02640 0.2969 0.03554

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.80 954.3 0.4459 0.2907 0.03270 0.1203 0.2115 0.3468
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8784 0.3667 0.01208 0.6428 0.001007 0.2883

mode bi cd pl ilm sill q H2O
0.2883 0 0.3439 0.008907 0.02653 0.2968 0.03556

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.00 961.6 0.4460 0.2891 0.03283 0.1207 0.2109 0.3480
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8807 0.3667 0.01219 0.64160.0006951 0.2882

mode bi cd pl ilm sill q H2O
0.2882 0 0.3440 0.008867 0.02666 0.2967 0.03559

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.20 968.8 0.4461 0.2874 0.03295 0.1212 0.2102 0.3492
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8828 0.3667 0.01230 0.64040.0005316 0.2882

mode bi cd pl ilm sill q H2O
0.2882 0 0.3440 0.008828 0.02679 0.2966 0.03562

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.40 976.1 0.4462 0.2858 0.03307 0.1216 0.2096 0.3504
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8849 0.3666 0.01241 0.63920.0004309 0.2882

mode bi cd pl ilm sill q H2O
0.2882 0 0.3440 0.008790 0.02691 0.2964 0.03564

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.60 983.3 0.4463 0.2842 0.03319 0.1221 0.2089 0.3515
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8870 0.3666 0.01252 0.63800.0003626 0.2882

mode bi cd pl ilm sill q H2O
0.2882 0 0.3441 0.008752 0.02704 0.2963 0.03567

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.80 990.4 0.4463 0.2826 0.03330 0.1225 0.2083 0.3527
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8890 0.3665 0.01262 0.63690.0003133 0.2881

mode	bi	cd	pl	ilm	sill	q	H2O
	0.2881	0	0.3441	0.008715	0.02716	0.2962	0.03569

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
14.00	997.6	0.4464	0.2810	0.03342	0.1229	0.2076	0.3538
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8910	0.3665	0.01273	0.63570	0.0002760	0.2881

mode	bi	cd	pl	ilm	sill	q	H2O
	0.2881	0	0.3442	0.008678	0.02728	0.2961	0.03571

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	906.8	0.1987	0.3509	0.5005	0.03174	0.01931	0.6115
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3822	0.2236	0.2083	0.03344	0.2225	0.1980
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4704	0.02864	0.008551	0.4809	0.03320	0.7532
		Q(ilm)					
		-0.00011					

mode	liq	bi	g	pl	ilm	ru	q
	0.4677	0.06691	0.1434	0.2048	0.01500	0	0.1023

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.80	902.4	0.1936	0.3491	0.5001	0.03100	0.01736	0.6190
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3916	0.2309	0.2196	0.03413	0.2188	0.1985
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4830	0.02901	0.008234	0.4717	0.03437	0.7469
		Q(ilm)					
		-0.00011					

mode	liq	bi	g	pl	ilm	ru	q
	0.4450	0.07503	0.1415	0.2114	0.01456	0	0.1125

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.00	897.0	0.1880	0.3464	0.5003	0.03008	0.01527	0.6272
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4026	0.2395	0.2337	0.03489	0.2144	0.1985
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4974	0.02926	0.007846	0.4622	0.03545	0.7392
		Q(ilm)					
		-0.00011					

```

mode   liq   bi    g    pl   ilm   ru    q
      0.4198 0.08464 0.1387 0.2190 0.01405    0 0.1237
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20   889.8 0.1816 0.3424 0.5015 0.02892 0.01301 0.6364
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.4158 0.2499 0.2519 0.03569 0.2089 0.1975
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5143 0.02935 0.007363 0.4524 0.03635 0.7298
      Q(ilm)
-0.00011

mode   liq   bi    g    pl   ilm   ru    q
      0.3913 0.09641 0.1345 0.2277 0.01345    0 0.1367
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40   880.1 0.1740 0.3363 0.5048 0.02741 0.01057 0.6471
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.4325 0.2633 0.2764 0.03648 0.2018 0.1949
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5350 0.02924 0.006754 0.4424 0.03684 0.7174
      Q(ilm)
-0.00012

mode   liq   bi    g    pl   ilm   ru    q
      0.3579 0.1115 0.1279 0.2379 0.01274    0 0.1521
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60   866.3 0.1644 0.3267 0.5134 0.02536 0.007949 0.6601
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.4552 0.2817 0.3112 0.03708 0.1919 0.1894
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5618 0.02890 0.005973 0.4322 0.03640 0.7006
      Q(ilm)
-0.00013

mode   liq   bi    g    pl   ilm   ru    q
      0.3167 0.1322 0.1173 0.2502 0.01186    0 0.1717
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, g, pl, ilm, ru, (q)
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60   918.7 0.2208 0.3528 0.5037 0.03401 0.02742 0.5795
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.3479 0.1969 0.1732 0.03070 0.2343 0.1919
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4221 0.02582 0.009506 0.5244 0.02740 0.7743
Q(ilm)

-9.73E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.5613	0.03797	0.1449	0.1797	0.01674	0	0.05929

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 917.2 0.2166 0.3531 0.5030 0.03369 0.02597 0.5854
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3537 0.2014 0.1785 0.03117 0.2325 0.1934
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4305 0.02646 0.009372 0.5161 0.02851 0.7710
Q(ilm)

-9.86E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.5443	0.04275	0.1453	0.1839	0.01644	0	0.06731

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 915.3 0.2124 0.3531 0.5023 0.03332 0.02444 0.5915
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3599 0.2062 0.1844 0.03167 0.2305 0.1947
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4393 0.02707 0.009216 0.5076 0.02965 0.7673
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.5266	0.04792	0.1453	0.1885	0.01612	0	0.07551

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 913.0 0.2080 0.3528 0.5017 0.03288 0.02283 0.5979
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3666 0.2115 0.1912 0.03221 0.2282 0.1960
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4489 0.02764 0.009031 0.4989 0.03082 0.7632
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.5081	0.05358	0.1451	0.1934	0.01578	0	0.08400

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 910.2 0.2035 0.3521 0.5010 0.03236 0.02112 0.6045
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3740 0.2172 0.1990 0.03280 0.2255 0.1971
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4592 0.02817 0.008813 0.4900 0.03201 0.7586

Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.4886	0.05985	0.1445	0.1988	0.01541	0	0.09287

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 906.8 0.1987 0.3509 0.5005 0.03174 0.01931 0.6115
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3822 0.2236 0.2083 0.03344 0.2225 0.1980
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4704 0.02864 0.008551 0.4809 0.03320 0.7532
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.4677	0.06691	0.1434	0.2048	0.01500	0	0.1023

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 902.4 0.1936 0.3491 0.5001 0.03100 0.01736 0.6190
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3916 0.2309 0.2196 0.03413 0.2188 0.1985
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4830 0.02901 0.008234 0.4717 0.03437 0.7469
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.4450	0.07503	0.1415	0.2114	0.01456	0	0.1125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 897.0 0.1880 0.3464 0.5003 0.03008 0.01527 0.6272
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4026 0.2395 0.2337 0.03489 0.2144 0.1985
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4974 0.02926 0.007846 0.4622 0.03545 0.7392
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.4198	0.08464	0.1387	0.2190	0.01405	0	0.1237

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 889.8 0.1816 0.3424 0.5015 0.02892 0.01301 0.6364
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4158 0.2499 0.2519 0.03569 0.2089 0.1975
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5143 0.02935 0.007363 0.4524 0.03635 0.7298
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.3913	0.09641	0.1345	0.2277	0.01345	0	0.1367

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	880.1	0.1740	0.3363	0.5048	0.02741	0.01057	0.6471
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4325	0.2633	0.2764	0.03648	0.2018	0.1949
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5350	0.02924	0.006754	0.4424	0.03684	0.7174
		Q(ilm)					

-0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.3579	0.1115	0.1279	0.2379	0.01274	0	0.1521

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.60	866.3	0.1644	0.3267	0.5134	0.02536	0.007949	0.6601
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4552	0.2817	0.3112	0.03708	0.1919	0.1894
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5618	0.02890	0.005973	0.4322	0.03640	0.7006
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	ru	q
	0.3167	0.1322	0.1173	0.2502	0.01186	0	0.1717

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.80	922.4	0.2371	0.3495	0.5057	0.03490	0.03269	0.5571
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3279	0.1813	0.1568	0.02911	0.2400	0.1857
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3923	0.02317	0.009882	0.5562	0.02338	0.7849
		Q(ilm)					

-9.30E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.6250	0.02166	0.1419	0.1655	0.01781	0	0.02812

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 921.8 0.2330 0.3506 0.5053 0.03473 0.03144 0.5626
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3325 0.1849 0.1603 0.02948 0.2388 0.1873
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3993 0.02384 0.009807 0.5485 0.02433 0.7826
Q(ilm)

-9.40E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.6096	0.02540	0.1429	0.1687	0.01756	0	0.03586

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 921.0 0.2289 0.3515 0.5048 0.03452 0.03016 0.5681
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3374 0.1887 0.1642 0.02986 0.2374 0.1889
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4065 0.02451 0.009721 0.5407 0.02531 0.7801
Q(ilm)

-9.50E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.5939	0.02934	0.1437	0.1722	0.01730	0	0.04362

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 920.0 0.2249 0.3523 0.5042 0.03429 0.02882 0.5738
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3425 0.1927 0.1685 0.03027 0.2360 0.1904
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4141 0.02517 0.009621 0.5326 0.02634 0.7773
Q(ilm)

-9.61E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.5778	0.03352	0.1444	0.1758	0.01703	0	0.05141

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 918.7 0.2208 0.3528 0.5037 0.03401 0.02742 0.5795
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3479 0.1969 0.1732 0.03070 0.2343 0.1919
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4221 0.02582 0.009506 0.5244 0.02740 0.7743
Q(ilm)

-9.73E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.5613	0.03797	0.1449	0.1797	0.01674	0	0.05929

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 917.2 0.2166 0.3531 0.5030 0.03369 0.02597 0.5854

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3537 0.2014 0.1785 0.03117 0.2325 0.1934
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4304 0.02646 0.009372 0.5161 0.02851 0.7710
 Q(ilm)

-9.86E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.5443	0.04275	0.1453	0.1839	0.01644	0	0.06731

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.00 915.3 0.2124 0.3531 0.5023 0.03332 0.02444 0.5915
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3599 0.2062 0.1844 0.03167 0.2305 0.1947
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4393 0.02707 0.009216 0.5076 0.02965 0.7673
 Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.5266	0.04792	0.1453	0.1885	0.01612	0	0.07551

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.20 913.0 0.2080 0.3528 0.5017 0.03288 0.02283 0.5979
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3666 0.2115 0.1912 0.03221 0.2282 0.1960
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4489 0.02764 0.009031 0.4989 0.03082 0.7632
 Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.5081	0.05358	0.1451	0.1934	0.01578	0	0.08400

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.40 910.2 0.2035 0.3521 0.5010 0.03236 0.02112 0.6045
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3740 0.2172 0.1990 0.03280 0.2255 0.1971
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4592 0.02817 0.008813 0.4900 0.03201 0.7586
 Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.4886	0.05985	0.1445	0.1988	0.01541	0	0.09287

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.60 906.8 0.1987 0.3509 0.5005 0.03174 0.01931 0.6115
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3822 0.2236 0.2083 0.03344 0.2225 0.1980

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4704 0.02864 0.008551 0.4809 0.03320 0.7532
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.4677	0.06691	0.1434	0.2048	0.01500	0	0.1023

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 902.4 0.1936 0.3491 0.5001 0.03100 0.01736 0.6190
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3916 0.2309 0.2196 0.03413 0.2188 0.1985
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4830 0.02901 0.008234 0.4717 0.03437 0.7469
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.4450	0.07503	0.1415	0.2114	0.01456	0	0.1125

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 897.0 0.1880 0.3464 0.5003 0.03008 0.01527 0.6272
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4026 0.2395 0.2337 0.03489 0.2144 0.1985
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4974 0.02926 0.007846 0.4622 0.03545 0.7392
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.4198	0.08464	0.1387	0.2190	0.01405	0	0.1237

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 927.7 0.2474 0.3465 0.5063 0.03638 0.03866 0.5414
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3139 0.1703 0.1407 0.02766 0.2453 0.1810
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1312 0.3311 0.3710 0.02292 0.01062 0.5777
k(pl) x(ilm) Q(ilm)
0.02121 0.7919-9.144e-5

```

mode  liq  bi  cd  g  pl  ilm  ru  q
      0.6735 0.009837 0.008116 0.1303 0.1552 0.01863 0 0.004455

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.60    923.2  0.2413  0.3483  0.5060 0.03514 0.03414 0.5514
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.3231 0.1776 0.1527 0.02871 0.2413 0.1840
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.1365 0.3520 0.3849 0.02259 0.009993 0.5643
      k(pl)  x(ilm)  Q(ilm)
      0.02245 0.7874-9.206e-5

```

```

mode  liq  bi  cd  g  pl  ilm  ru  q
      0.6416 0.017700 0.005592 0.1402 0.1621 0.01808 0 0.01975

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
7.60    740.9  0.1178  0.2309  0.7389 0.01064 0.001681 0.7128
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6225 0.4184 0.4572 0.02873 0.1196 0.1718
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.2783 0.7759 0.7228 0.02767 0.002290 0.4094
      k(pl)  x(ilm)  Q(ilm)
      0.01216 0.6615-8.907e-5

```

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.00    692.0  0.1425  0.2246  0.6933 0.0059300 0.0006351 0.7101
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6152 0.4501 0.4275 0.02856 0.1080 0.1957
      x(cd)  h(cd)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.2951 0.6896 0.3663 0.01330 0.6703-6.869e-5

```

```

mode  liq  bi  cd  pl  ilm  sill  q  H2O
      0 0.2827 0.02107 0.3444 0.01010 0.007699 0.3003 0.03369

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.20    693.8  0.1386  0.2220  0.7164 0.0060760 0.0007542 0.7112
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6217 0.4488 0.4187 0.02844 0.1068 0.2007
      x(cd)  h(cd)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.2949 0.7010 0.3667 0.01220 0.6728-6.835e-5

```

```

mode  liq  bi  cd  pl  ilm  sill  q  H2O

```

0 0.2838 0.01795 0.3440 0.01017 0.009578 0.3007 0.03376

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 695.5 0.1348 0.2196 0.7386 0.0062190.0008929 0.7121
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6279 0.4476 0.4100 0.02830 0.1056 0.2058
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2948 0.7121 0.3671 0.01117 0.6752-6.797e-5

mode liq bi cd pl ilm sill q H2O
0 0.2849 0.01487 0.3436 0.01025 0.01145 0.3011 0.03385

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 697.0 0.1311 0.2174 0.7597 0.006361 0.001054 0.7130
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6338 0.4463 0.4011 0.02813 0.1044 0.2110
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2945 0.7228 0.3674 0.01022 0.6777-6.755e-5

mode liq bi cd pl ilm sill q H2O
0 0.2859 0.01182 0.3433 0.01033 0.01332 0.3014 0.03394

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 698.4 0.1275 0.2154 0.7797 0.006500 0.001241 0.7138
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6394 0.4451 0.3923 0.02794 0.1031 0.2163
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2943 0.7332 0.3678 0.009340 0.6802-6.710e-5

mode liq bi cd pl ilm sill q H2O
0 0.2868 0.008793 0.3430 0.01042 0.01519 0.3017 0.03404

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 699.6 0.1240 0.2135 0.7986 0.006636 0.001458 0.7146
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6447 0.4439 0.3833 0.02772 0.1018 0.2217
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2940 0.7434 0.3681 0.008523 0.6827-6.662e-5

mode liq bi cd pl ilm sill q H2O
0 0.2878 0.005796 0.3427 0.01052 0.01706 0.3020 0.03414

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 700.6 0.1206 0.2118 0.8164 0.006770 0.001708 0.7153
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6498 0.4427 0.3743 0.02749 0.1005 0.2272
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2936 0.7532 0.3683 0.007767 0.6852-6.611e-5

mode liq bi cd pl ilm sill q H2O

0 0.2886 0.002824 0.3424 0.01062 0.01893 0.3023 0.03426
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 748.0 0.1366 0.2427 0.7251 0.01015 0.003174 0.7323
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5934 0.4469 0.3841 0.02918 0.1154 0.2056
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3083 0.7111 0.7440 0.02709 0.002621 0.4133
k(pl) x(ilm) Q(ilm)
0.01262 0.6755-8.410e-5

mode liq bi cd g pl ilm sill q
0.1325 0.2557 0.04533 0.005090 0.2988 0.01054 0 0.2521

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 773.3 0.1444 0.2630 0.6771 0.01214 0.004096 0.7259
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5596 0.4220 0.3774 0.03152 0.1269 0.2027
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2958 0.6872 0.7179 0.02588 0.003109 0.4181
k(pl) x(ilm) Q(ilm)
0.01663 0.6684-9.974e-5

mode liq bi cd g pl ilm sill q
0.1590 0.2397 0.03728 0.02148 0.2914 0.01025 0 0.2409

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 794.7 0.1516 0.2802 0.6343 0.01419 0.004959 0.7158
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5297 0.3943 0.3690 0.03353 0.1385 0.2006
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2799 0.6658 0.6893 0.02489 0.003578 0.4230
k(pl) x(ilm) Q(ilm)
0.02058 0.6663-0.0001142

mode liq bi cd g pl ilm sill q
0.1888 0.2212 0.02846 0.03972 0.2837 0.01018 0 0.2280

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 812.6 0.1579 0.2939 0.5997 0.01622 0.005692 0.7029
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5047 0.3657 0.3600 0.03509 0.1500 0.1982
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.2623 0.6480 0.6589 0.02407 0.004008 0.4279
k(pl) x(ilm) Q(ilm)
0.02406 0.6689-0.0001244

mode liq bi cd g pl ilm sill q
0.2202 0.2016 0.01917 0.05862 0.2756 0.01031 0 0.2145

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 828.1 0.1632 0.3049 0.5722 0.01825 0.006292 0.6882
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4837 0.3372 0.3512 0.03620 0.1614 0.1947
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2440 0.6331 0.6271 0.02334 0.004405 0.4330
k(pl) x(ilm) Q(ilm)
0.02699 0.6749-0.0001294

mode liq bi cd g pl ilm sill q
0.2524 0.1817 0.009376 0.07778 0.2674 0.01060 0 0.2008

calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.21 700.1 0.1206 0.2118 0.8129 0.006757 0.001676 0.7133
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6499 0.4397 0.3697 0.03492 0.09113 0.2310
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2911 0.7537 0.3683 0.007920 0.7291 0.5960

mode liq bi cd pl ilm sill q H2O
0 0.2891 0 0.3425 0.01091 0.02017 0.3032 0.03413

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.20 681.8 0.1590 0.2381 0.5876 0.0052850.0002993 0.7029
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5853 0.4523 0.4572 0.03606 0.1021 0.1807

x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2924 0.6415 0.3642 0.01899 0.7102 0.5769

mode liq bi cd pl ilm sill q H2O
0 0.2781 0.03120 0.3463 0.01025 0.001391 0.2994 0.03334

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.40 684.4 0.1547 0.2344 0.6135 0.0054420.0003608 0.7043
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5933 0.4510 0.4487 0.03605 0.1012 0.1853
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2925 0.6541 0.3647 0.01748 0.7119 0.5781

mode liq bi cd pl ilm sill q H2O
0 0.2795 0.02789 0.3458 0.01028 0.003291 0.2999 0.03338

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.60 686.8 0.1505 0.2309 0.6389 0.0055980.0004333 0.7056
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6010 0.4496 0.4402 0.03602 0.1003 0.1900
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2925 0.6665 0.3653 0.01608 0.7137 0.5795

mode liq bi cd pl ilm sill q H2O
0 0.2807 0.02463 0.3453 0.01032 0.005183 0.3004 0.03342

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
4.80 689.1 0.1465 0.2277 0.6638 0.0057500.0005182 0.7068
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6082 0.4483 0.4316 0.03597 0.09926 0.1948
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2925 0.6785 0.3657 0.01478 0.7155 0.5811

mode liq bi cd pl ilm sill q H2O
0 0.2819 0.02143 0.3449 0.01037 0.007069 0.3008 0.03348

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 691.1 0.1425 0.2248 0.6879 0.0059010.0006179 0.7079
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6151 0.4470 0.4229 0.03589 0.09821 0.1997
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2924 0.6901 0.3662 0.01357 0.7174 0.5829

mode liq bi cd pl ilm sill q H2O
0 0.2831 0.01827 0.3444 0.01043 0.008946 0.3013 0.03354

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 691.1 0.1425 0.2248 0.6879 0.0059010.0006179 0.7079
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6151 0.4470 0.4229 0.03589 0.09821 0.1997
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2924 0.6901 0.3662 0.01357 0.7174 0.5829

mode liq bi cd pl ilm sill q H2O
0 0.2831 0.01827 0.3444 0.01043 0.008946 0.3013 0.03354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 693.0 0.1386 0.2222 0.7112 0.0060490.0007344 0.7090
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6216 0.4458 0.4142 0.03579 0.09713 0.2046
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2923 0.7014 0.3666 0.01245 0.7193 0.5848

mode liq bi cd pl ilm sill q H2O
0 0.2842 0.01516 0.3441 0.01050 0.01082 0.3016 0.03362

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 694.8 0.1348 0.2198 0.7336 0.0061950.0008702 0.7100
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6278 0.4446 0.4054 0.03566 0.09601 0.2097
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2922 0.7125 0.3670 0.01141 0.7212 0.5868

mode liq bi cd pl ilm sill q H2O
0 0.2853 0.01208 0.3437 0.01057 0.01268 0.3020 0.03370

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 696.3 0.1312 0.2175 0.7550 0.006339 0.001028 0.7109
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6337 0.4433 0.3966 0.03551 0.09485 0.2148
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2920 0.7232 0.3674 0.01044 0.7232 0.5890

mode liq bi cd pl ilm sill q H2O
0 0.2863 0.009036 0.3434 0.01064 0.01455 0.3023 0.03380

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 697.8 0.1276 0.2155 0.7753 0.006479 0.001211 0.7117
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6393 0.4421 0.3877 0.03534 0.09365 0.2201
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2917 0.7335 0.3677 0.009541 0.7251 0.5912

```
mode  liq  bi  cd  pl  ilm  sill  q  H2O
0 0.2872 0.006022 0.3430 0.01072 0.01641 0.3027 0.03390
```

```
-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.00  699.0  0.1241  0.2136  0.7945  0.006618  0.001424  0.7125
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6447  0.4409  0.3788  0.03514  0.09243  0.2254
      x(cd)  h(cd)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.2915  0.7436  0.3680  0.008709  0.7271  0.5935
```

```
mode  liq  bi  cd  pl  ilm  sill  q  H2O
0 0.2882 0.003035 0.3428 0.01081 0.01827 0.3029 0.03401
```

```
-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.20  700.1  0.1207  0.2119  0.8125  0.006754  0.001669  0.7133
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6497  0.4397  0.3699  0.03492  0.09117  0.2308
      x(cd)  h(cd)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
      0.2911  0.7534  0.3683  0.007939  0.7290  0.5959
```

```
mode  liq  bi  cd  pl  ilm  sill  q  H2O
0 0.2891 7.392e-5 0.3425 0.01091 0.02013 0.3032 0.03413
```

calcs use:

composition (from script)

```
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
```

<=====>

phases : bi, cd, pl, ilm, sill, H2O, (q)

```
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(cd)
5.00  648.2  0.4380  0.3918  0.03512  0.08331  0.2336  0.2761
      h(cd)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.7144  0.3687  0.006690  0.7454  0.6449  0.2893
```

```
mode  bi  cd  pl  ilm  sill  q  H2O
0.2893  0 0.3421 0.01147 0.01839 0.3050 0.03373
```

```
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(cd)
5.20  657.0  0.4383  0.3879  0.03510  0.08469  0.2332  0.2787
      h(cd)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.7214  0.3687  0.006908  0.7427  0.6372  0.2893
```

```
mode  bi  cd  pl  ilm  sill  q  H2O
0.2893  0 0.3421 0.01137 0.01870 0.3047 0.03380
```

```
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(cd)
5.40  665.7  0.4386  0.3840  0.03508  0.08603  0.2327  0.2813
      h(cd)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
      0.7282  0.3686  0.007120  0.7400  0.6294  0.2892
```


mode	bi	cd	pl	ilm	sill	q	H2O
	0.2892	0	0.3422	0.01127	0.01901	0.3044	0.03387

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
5.60	674.4	0.4389	0.3803	0.03504	0.08734	0.2323	0.2838
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7348	0.3685	0.007327	0.7373	0.6213	0.2892

mode	bi	cd	pl	ilm	sill	q	H2O
	0.2892	0	0.3423	0.01118	0.01931	0.3041	0.03394

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
5.80	683.0	0.4391	0.3767	0.03501	0.08863	0.2319	0.2863
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7413	0.3684	0.007528	0.7346	0.6132	0.2892

mode	bi	cd	pl	ilm	sill	q	H2O
	0.2892	0	0.3423	0.01109	0.01960	0.3038	0.03400

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.00	691.5	0.4394	0.3732	0.03496	0.08988	0.2314	0.2887
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7475	0.3684	0.007724	0.7319	0.6048	0.2891

mode	bi	cd	pl	ilm	sill	q	H2O
	0.2891	0	0.3424	0.01100	0.01989	0.3035	0.03407

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.20	699.9	0.4397	0.3698	0.03492	0.09110	0.2310	0.2910
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7535	0.3683	0.007915	0.7291	0.5962	0.2891

mode	bi	cd	pl	ilm	sill	q	H2O
	0.2891	0	0.3425	0.01091	0.02017	0.3032	0.03413

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.40	708.3	0.4399	0.3664	0.03487	0.09230	0.2305	0.2933
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7594	0.3682	0.008101	0.7264	0.5874	0.2890

mode	bi	cd	pl	ilm	sill	q	H2O
	0.2890	0	0.3425	0.01083	0.02044	0.3030	0.03419

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
6.60	716.6	0.4402	0.3631	0.03481	0.09347	0.2300	0.2956
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.7651	0.3682	0.008282	0.7237	0.5785	0.2890

mode	bi	cd	pl	ilm	sill	q	H2O
------	----	----	----	-----	------	---	-----

0.2890 0 0.3426 0.01074 0.02070 0.3027 0.03425

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.80 724.9 0.4404 0.3599 0.03476 0.09462 0.2295 0.2977
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7706 0.3681 0.008457 0.7210 0.5693 0.2890

mode bi cd pl ilm sill q H2O
0.2890 0 0.3427 0.01066 0.02096 0.3024 0.03430

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.00 733.1 0.4407 0.3568 0.03469 0.09574 0.2290 0.2999
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7759 0.3680 0.008627 0.7182 0.5599 0.2889

mode bi cd pl ilm sill q H2O
0.2889 0 0.3427 0.01058 0.02121 0.3022 0.03436

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.20 741.3 0.4409 0.3538 0.03463 0.09684 0.2284 0.3020
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7811 0.3680 0.008792 0.7155 0.5502 0.2889

mode bi cd pl ilm sill q H2O
0.2889 0 0.3428 0.01051 0.02146 0.3019 0.03442

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.40 749.4 0.4412 0.3508 0.03456 0.09792 0.2279 0.3040
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7861 0.3679 0.008952 0.7128 0.5404 0.2889

mode bi cd pl ilm sill q H2O
0.2889 0 0.3428 0.01043 0.02170 0.3017 0.03447

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.60 757.5 0.4414 0.3480 0.03449 0.09897 0.2274 0.3060
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7910 0.3678 0.009106 0.7101 0.5302 0.2888

mode bi cd pl ilm sill q H2O
0.2888 0 0.3429 0.01036 0.02193 0.3015 0.03452

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.80 765.5 0.4416 0.3451 0.03442 0.1000 0.2268 0.3080
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7957 0.3678 0.009255 0.7074 0.5198 0.2888

mode bi cd pl ilm sill q H2O
0.2888 0 0.3429 0.01029 0.02216 0.3012 0.03457

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.00 773.5 0.4418 0.3424 0.03435 0.1010 0.2262 0.3099
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8003 0.3677 0.009400 0.7046 0.5091 0.2888

mode bi cd pl ilm sill q H2O
0.2888 0 0.3430 0.01022 0.02238 0.3010 0.03462

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.20 781.4 0.4420 0.3397 0.03427 0.1020 0.2256 0.3118
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8047 0.3677 0.009542 0.7019 0.4980 0.2888

mode bi cd pl ilm sill q H2O
0.2888 0 0.3430 0.01015 0.02260 0.3008 0.03467

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.40 789.3 0.4422 0.3371 0.03419 0.1030 0.2251 0.3136
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8091 0.3676 0.009680 0.6992 0.4867 0.2887

mode bi cd pl ilm sill q H2O
0.2887 0 0.3431 0.01008 0.02281 0.3006 0.03472

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.60 797.2 0.4424 0.3345 0.03411 0.1039 0.2245 0.3154
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8132 0.3676 0.009815 0.6965 0.4750 0.2887

mode bi cd pl ilm sill q H2O
0.2887 0 0.3431 0.01001 0.02302 0.3004 0.03477

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
8.80 805.0 0.4426 0.3320 0.03403 0.1049 0.2239 0.3172
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8173 0.3675 0.009946 0.6938 0.4629 0.2887

mode bi cd pl ilm sill q H2O
0.2887 0 0.3432 0.009951 0.02322 0.3002 0.03481

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
9.00 812.8 0.4428 0.3295 0.03395 0.1058 0.2233 0.3190
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8213 0.3675 0.01007 0.6910 0.4504 0.2887

mode bi cd pl ilm sill q H2O
0.2887 0 0.3432 0.009888 0.02342 0.3000 0.03486

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
9.20 820.5 0.4430 0.3271 0.03387 0.1067 0.2227 0.3207

h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8251 0.3674 0.01020 0.6883 0.4374 0.2886

mode bi cd pl ilm sill q H2O
0.2886 0 0.3433 0.009826 0.02361 0.2998 0.03490

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
9.40 828.2 0.4432 0.3247 0.03378 0.1076 0.2221 0.3223
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8288 0.3674 0.01032 0.6856 0.4240 0.2886

mode bi cd pl ilm sill q H2O
0.2886 0 0.3433 0.009766 0.02381 0.2996 0.03495

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
9.60 835.8 0.4434 0.3224 0.03370 0.1085 0.2215 0.3240
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8325 0.3674 0.01044 0.6829 0.4100 0.2886

mode bi cd pl ilm sill q H2O
0.2886 0 0.3434 0.009707 0.02399 0.2994 0.03499

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
9.80 843.5 0.4436 0.3201 0.03361 0.1093 0.2209 0.3256
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8360 0.3673 0.01056 0.6801 0.3954 0.2886

mode bi cd pl ilm sill q H2O
0.2886 0 0.3434 0.009649 0.02418 0.2992 0.03503

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
10.00 851.1 0.4438 0.3179 0.03352 0.1102 0.2202 0.3272
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8394 0.3673 0.01067 0.6774 0.3802 0.2885

mode bi cd pl ilm sill q H2O
0.2885 0 0.3434 0.009592 0.02436 0.2990 0.03507

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
10.20 858.6 0.4439 0.3157 0.03343 0.1110 0.2196 0.3288
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8427 0.3672 0.01078 0.6747 0.3643 0.2885

mode bi cd pl ilm sill q H2O
0.2885 0 0.3435 0.009536 0.02453 0.2988 0.03511

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
10.40 866.1 0.4441 0.3136 0.03334 0.1118 0.2190 0.3303
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8460 0.3672 0.01089 0.6720 0.3475 0.2885

mode	bi	cd	pl	ilm	sill	q	H2O
0.2885	0	0.3435	0.009481	0.02471	0.2987	0.03515	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
10.60	873.6	0.4443	0.3115	0.03325	0.1126	0.2184	0.3318
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8491	0.3671	0.01099	0.6693	0.3298	0.2885

mode	bi	cd	pl	ilm	sill	q	H2O
0.2885	0	0.3435	0.009428	0.02488	0.2985	0.03519	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
10.80	881.0	0.4445	0.3094	0.03316	0.1134	0.2178	0.3333
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8522	0.3671	0.01110	0.6666	0.3109	0.2885

mode	bi	cd	pl	ilm	sill	q	H2O
0.2885	0	0.3436	0.009375	0.02504	0.2983	0.03523	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
11.00	888.5	0.4446	0.3074	0.03307	0.1142	0.2172	0.3347
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8551	0.3671	0.01120	0.6638	0.2907	0.2884

mode	bi	cd	pl	ilm	sill	q	H2O
0.2884	0	0.3436	0.009323	0.02521	0.2981	0.03527	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
11.20	895.9	0.4448	0.3054	0.03297	0.1150	0.2165	0.3362
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8580	0.3670	0.01129	0.6611	0.2688	0.2884

mode	bi	cd	pl	ilm	sill	q	H2O
0.2884	0	0.3437	0.009273	0.02537	0.2980	0.03530	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
11.40	903.2	0.4449	0.3034	0.03288	0.1157	0.2159	0.3376
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8608	0.3670	0.01139	0.6584	0.2449	0.2884

mode	bi	cd	pl	ilm	sill	q	H2O
0.2884	0	0.3437	0.009223	0.02552	0.2978	0.03534	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(cd)
11.60	910.5	0.4451	0.3015	0.03279	0.1165	0.2153	0.3389
		h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.8636	0.3670	0.01148	0.6557	0.2183	0.2884

mode	bi	cd	pl	ilm	sill	q	H2O
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0.2884 0 0.3437 0.009174 0.02568 0.2977 0.03537

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
11.80 917.8 0.4453 0.2996 0.03269 0.1172 0.2147 0.3403
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8662 0.3669 0.01158 0.6530 0.1877 0.2884

mode bi cd pl ilm sill q H2O
0.2884 0 0.3438 0.009126 0.02583 0.2975 0.03541

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.00 925.1 0.4454 0.2978 0.03260 0.1179 0.2141 0.3416
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8688 0.3669 0.01167 0.6503 0.1508 0.2884

mode bi cd pl ilm sill q H2O
0.2884 0 0.3438 0.009079 0.02598 0.2974 0.03544

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.20 932.4 0.4456 0.2960 0.03250 0.1186 0.2134 0.3430
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8713 0.3669 0.01175 0.6476 0.1014 0.2883

mode bi cd pl ilm sill q H2O
0.2883 0 0.3438 0.009033 0.02612 0.2972 0.03548

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.40 939.6 0.4457 0.2942 0.03245 0.1193 0.2128 0.3443
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8738 0.3668 0.01185 0.6452 0.01023 0.2883

mode bi cd pl ilm sill q H2O
0.2883 0 0.3438 0.008988 0.02627 0.2971 0.03551

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.60 946.9 0.4458 0.2925 0.03258 0.1198 0.2122 0.3455
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8761 0.3668 0.01196 0.6440 0.001834 0.2883

mode bi cd pl ilm sill q H2O
0.2883 0 0.3439 0.008947 0.02640 0.2969 0.03554

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
12.80 954.3 0.4459 0.2907 0.03270 0.1203 0.2115 0.3468
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8784 0.3667 0.01208 0.6428 0.001007 0.2883

mode bi cd pl ilm sill q H2O
0.2883 0 0.3439 0.008907 0.02653 0.2968 0.03556

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.00 961.6 0.4460 0.2891 0.03283 0.1207 0.2109 0.3480
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8807 0.3667 0.01219 0.64160.0006950 0.2882

mode bi cd pl ilm sill q H2O
0.2882 0 0.3440 0.008867 0.02666 0.2967 0.03559

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.20 968.8 0.4461 0.2874 0.03295 0.1212 0.2102 0.3492
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8828 0.3667 0.01230 0.64040.0005316 0.2882

mode bi cd pl ilm sill q H2O
0.2882 0 0.3440 0.008828 0.02679 0.2966 0.03562

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.40 976.1 0.4462 0.2858 0.03307 0.1216 0.2096 0.3504
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8849 0.3666 0.01241 0.63920.0004309 0.2882

mode bi cd pl ilm sill q H2O
0.2882 0 0.3440 0.008790 0.02691 0.2964 0.03564

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.60 983.3 0.4463 0.2842 0.03319 0.1221 0.2089 0.3515
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8870 0.3666 0.01252 0.63800.0003626 0.2882

mode bi cd pl ilm sill q H2O
0.2882 0 0.3441 0.008752 0.02704 0.2963 0.03567

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
13.80 990.4 0.4463 0.2826 0.03330 0.1225 0.2083 0.3527
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8890 0.3665 0.01262 0.63690.0003133 0.2881

mode bi cd pl ilm sill q H2O
0.2881 0 0.3441 0.008715 0.02716 0.2962 0.03569

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
14.00 997.6 0.4464 0.2810 0.03342 0.1229 0.2076 0.3538
h(cd) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8910 0.3665 0.01273 0.63570.0002761 0.2881

mode bi cd pl ilm sill q H2O
0.2881 0 0.3442 0.008678 0.02728 0.2961 0.03571

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 701.6 0.1178 0.2099 0.8273 0.007002 0.001967 0.7144
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6543 0.4392 0.3615 0.03464 0.09001 0.2357
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2913 0.7626 0.3738 0.007183 0.7311 0.5984

mode liq bi cd pl ilm sill q H2O
0.01497 0.2880 0 0.3369 0.01106 0.02075 0.2989 0.02944

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 703.2 0.1151 0.2078 0.8405 0.007290 0.002314 0.7155
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6587 0.4385 0.3531 0.03436 0.08891 0.2406
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2915 0.7715 0.3808 0.006488 0.7331 0.6005

mode liq bi cd pl ilm sill q H2O
0.03323 0.2868 0 0.3299 0.01120 0.02130 0.2940 0.02358

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 704.9 0.1127 0.2057 0.8522 0.007627 0.002717 0.7165
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6627 0.4378 0.3450 0.03407 0.08788 0.2453
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2915 0.7800 0.3896 0.005852 0.7349 0.6023

mode liq bi cd pl ilm sill q H2O
0.05501 0.2854 0 0.3216 0.01135 0.02180 0.2883 0.01644

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 706.8 0.1105 0.2035 0.8622 0.008029 0.003187 0.7174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6665 0.4368 0.3370 0.03379 0.08697 0.2499
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2914 0.7880 0.4005 0.005271 0.7364 0.6037

mode liq bi cd pl ilm sill q H2O
0.08102 0.2839 0 0.3117 0.01149 0.02225 0.2819 0.007768

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.40	701.6	0.1178	0.2099	0.8273	0.007002	0.001967	0.7144		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.6543	0.4392	0.3615	0.03464	0.09001	0.2357		
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.2913	0.7626	0.3738	0.007183	0.7311	0.5984		
mode	liq	bi	cd	pl	ilm	sill	q	H2O	
	0.01497	0.2880	0	0.3369	0.01106	0.02075	0.2989	0.02944	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.60	703.2	0.1151	0.2078	0.8405	0.007290	0.002314	0.7155		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.6587	0.4385	0.3531	0.03436	0.08891	0.2406		
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.2915	0.7715	0.3808	0.006488	0.7331	0.6005		
mode	liq	bi	cd	pl	ilm	sill	q	H2O	
	0.03323	0.2868	0	0.3299	0.01120	0.02130	0.2940	0.02358	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.80	704.9	0.1127	0.2057	0.8522	0.007627	0.002717	0.7165		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.6627	0.4378	0.3450	0.03407	0.08788	0.2453		
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.2915	0.7800	0.3896	0.005852	0.7349	0.6023		
mode	liq	bi	cd	pl	ilm	sill	q	H2O	
	0.05501	0.2854	0	0.3216	0.01135	0.02180	0.2883	0.01644	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
7.00	706.8	0.1105	0.2035	0.8622	0.008029	0.003187	0.7174		
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
		0.6665	0.4368	0.3370	0.03379	0.08697	0.2499		
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)		
		0.2914	0.7880	0.4005	0.005271	0.7364	0.6037		
mode	liq	bi	cd	pl	ilm	sill	q	H2O	
	0.08102	0.2839	0	0.3117	0.01149	0.02225	0.2819	0.007768	

calcs use:

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, H2O, (q)

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.40  703.4  0.1194  0.2087  0.8184  0.007394  0.001895  0.7102
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6534  0.4314  0.3614  0.03520  0.09170  0.2358
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.2859  0.7618  0.7493  0.02929  0.002565  0.3916
      k(pl)  x(ilm)  Q(ilm)
      0.007110  0.7316  0.5982

```

```

mode  liq  bi  cd  g  pl  ilm  sill  q  H2O
0.06496  0.2811  0 0.005181  0.3190  0.01110  0.01934  0.2850  0.01430
calcs use:

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composition (from script)
H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, cd, g, pl, ilm, sill, H2O, (q)

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.33  701.1  0.1188  0.2106  0.8221  0.006906  0.001852  0.7140
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6527  0.4394  0.3645  0.03475  0.09043  0.2339
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.2912  0.7593  0.7550  0.02786  0.002464  0.3716
      k(pl)  x(ilm)  Q(ilm)
      0.007454  0.7304  0.5975
mode  liq  bi  cd  g  pl  ilm  sill  q  H2O
0.009032  0.2884  0 0 0.3391  0.01100  0.02054  0.3006  0.03132
calcs use:

```

```

composition (from script)
H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, cd, g, pl, ilm, sill, H2O, (q)

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.47  705.6  0.1199  0.2069  0.8147  0.007852  0.001935  0.7068
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6541  0.4244  0.3588  0.03559  0.09287  0.2372
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.2813  0.7639  0.7441  0.03058  0.002660  0.4095
      k(pl)  x(ilm)  Q(ilm)
      0.006825  0.7327  0.5986
mode  liq  bi  cd  g  pl  ilm  sill  q  H2O
0.1118  0.2748  0 0.009687  0.3025  0.01119  0.01830  0.2717  0
calcs use:

```

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, (q)

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	942.5	0.1504	0.3563	0.4379	0.04632	0.01267	0.5961
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4276	0.1877	0.1790	0.04938	0.2363	0.1764
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4381	0.08927	0.02716	0.2999	0.03052	0.3315
		k(pl)	x(ilm)	Q(ilm)			
		0.07940	0.57800	0.001459			

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.4415	0	0.2321	0.01847	0.1823	0.006183	0.005521	0.1139

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	939.7	0.1467	0.3530	0.4417	0.04620	0.01162	0.5962
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4359	0.1877	0.1837	0.05051	0.2339	0.1756
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4401	0.09170	0.02744	0.2990	0.02991	0.3282
		k(pl)	x(ilm)	Q(ilm)			
		0.07910	0.56730	0.001265			

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.4289	0	0.2350	0.02533	0.1812	0.005940	0.005611	0.1180

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	936.7	0.1429	0.3496	0.4454	0.04605	0.01060	0.5961
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4442	0.1876	0.1889	0.05168	0.2315	0.1746
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4419	0.09398	0.02765	0.2978	0.02926	0.3251
		k(pl)	x(ilm)	Q(ilm)			
		0.07873	0.55630	0.001107			

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.4167	0	0.2379	0.03193	0.1802	0.005720	0.005694	0.1219

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	933.6	0.1392	0.3461	0.4491	0.04589	0.009627	0.5959
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4526	0.1874	0.1946	0.05286	0.2291	0.1734
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4436	0.09610	0.02778	0.2964	0.02859	0.3221
		k(pl)	x(ilm)	Q(ilm)			
		0.07827	0.5449	9.765e-5			

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.4049	0	0.2405	0.03826	0.1793	0.005523	0.005770	0.1257

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	930.3	0.1355	0.3425	0.4527	0.04570	0.008700	0.5954
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4610	0.1870	0.2007	0.05406	0.2267	0.1721	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4451	0.09805	0.02783	0.2947	0.02790	0.3191	
	k(pl)	x(ilm)	Q(ilm)				
	0.07774	0.5333	8.669e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3934	0	0.2429	0.04429	0.1787	0.005351	0.005840	0.1294

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	926.8	0.1318	0.3388	0.4561	0.04551	0.007827	0.5949
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4693	0.1866	0.2072	0.05526	0.2242	0.1705	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4465	0.09986	0.02781	0.2929	0.02720	0.3163	
	k(pl)	x(ilm)	Q(ilm)				
	0.07713	0.5213	7.742e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3825	0	0.2452	0.05001	0.1783	0.005202	0.005902	0.1330

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	923.2	0.1282	0.3351	0.4594	0.04530	0.007013	0.5941
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4777	0.1861	0.2142	0.05646	0.2218	0.1688	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4477	0.1015	0.02771	0.2909	0.02648	0.3136	
	k(pl)	x(ilm)	Q(ilm)				
	0.07645	0.5092	6.951e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
	0.3719	0	0.2472	0.05541	0.1780	0.005075	0.005959	0.1364

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	919.5	0.1246	0.3314	0.4624	0.04508	0.006259	0.5933
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4860	0.1854	0.2216	0.05763	0.2193	0.1669	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4488	0.1030	0.02754	0.2887	0.02575	0.3109	
	k(pl)	x(ilm)	Q(ilm)				
	0.07571	0.4969	6.271e-5				

mode	liq	bi	g	ksp	pl	ilm	ru	q
------	-----	----	---	-----	----	-----	----	---

0.3618 0 0.2490 0.06050 0.1780 0.004970 0.006010 0.1397

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 915.7 0.1209 0.3277 0.4654 0.04489 0.005575 0.5923
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4942 0.1848 0.2296 0.05878 0.2169 0.1649
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4497 0.1044 0.02730 0.2864 0.02503 0.3084
k(pl) x(ilm) Q(ilm)
0.07494 0.4847 5.688e-5

mode liq bi g ksp pl ilm ru q
0.3522 0 0.2507 0.06527 0.1781 0.004885 0.006055 0.1429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 912.0 0.1173 0.3240 0.4682 0.04471 0.004956 0.5913
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5023 0.1840 0.2379 0.05987 0.2146 0.1626
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4506 0.1057 0.02701 0.2840 0.02432 0.3060
k(pl) x(ilm) Q(ilm)
0.07413 0.4726 5.184e-5

mode liq bi g ksp pl ilm ru q
0.3430 0 0.2521 0.06972 0.1783 0.004818 0.006095 0.1460

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 908.2 0.1136 0.3204 0.4708 0.04455 0.004397 0.5901
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5103 0.1832 0.2467 0.06092 0.2122 0.1602
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4513 0.1068 0.02666 0.2815 0.02362 0.3036
k(pl) x(ilm) Q(ilm)
0.07330 0.4605 4.745e-5

mode liq bi g ksp pl ilm ru q
0.3343 0 0.2535 0.07386 0.1786 0.004768 0.006132 0.1489

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 904.5 0.1100 0.3167 0.4732 0.04440 0.003894 0.5889
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5181 0.1824 0.2559 0.06190 0.2099 0.1576
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4520 0.1079 0.02627 0.2789 0.02293 0.3013
k(pl) x(ilm) Q(ilm)
0.07244 0.4486 4.359e-5

mode liq bi g ksp pl ilm ru q
0.3259 0 0.2546 0.07772 0.1791 0.004731 0.006165 0.1518

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40    900.7  0.1065 0.3131 0.4754 0.04426 0.003443 0.5876
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5257 0.1815 0.2655 0.06282 0.2077 0.1549
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.4525 0.1089 0.02584 0.2762 0.02225 0.2991
        k(pl) x(ilm) Q(ilm)
        0.07157 0.4368 4.019e-5

```

```

mode  liq  bi  g  ksp  pl  ilm  ru  q
      0.3181  0 0.2556 0.08129 0.1796 0.004706 0.006195 0.1545

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60    896.9  0.1030 0.3095 0.4774 0.04414 0.003040 0.5863
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5332 0.1806 0.2754 0.06366 0.2055 0.1521
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.4530 0.1098 0.02538 0.2735 0.02159 0.2968
        k(pl) x(ilm) Q(ilm)
        0.07068 0.4252 3.717e-5

```

```

mode  liq  bi  g  ksp  pl  ilm  ru  q
      0.3106  0 0.2566 0.08461 0.1803 0.004691 0.006222 0.1570

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80    893.1  0.09966 0.3060 0.4791 0.04403 0.002681 0.5849
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5405 0.1796 0.2857 0.06442 0.2033 0.1491
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.4535 0.1107 0.02489 0.2707 0.02094 0.2946
        k(pl) x(ilm) Q(ilm)
        0.06979 0.4137 3.448e-5

```

```

mode  liq  bi  g  ksp  pl  ilm  ru  q
      0.3035  0 0.2574 0.08767 0.1811 0.004685 0.006247 0.1595

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00    889.3  0.09635 0.3025 0.4806 0.04394 0.002362 0.5835
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.5477 0.1787 0.2964 0.06509 0.2011 0.1461
        x(g)  z(g)  f(g) na(ksp) ca(ksp) ca(pl)
        0.4539 0.1115 0.02438 0.2679 0.02030 0.2924
        k(pl) x(ilm) Q(ilm)
        0.06889 0.4025 3.208e-5

```

```

mode  liq  bi  g  ksp  pl  ilm  ru  q
      0.2967  0 0.2581 0.09049 0.1819 0.004687 0.006270 0.1618

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O

```

6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.49 948.8 0.1597 0.3644 0.4282 0.04647 0.01542 0.5951
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4071 0.1873 0.1689 0.04668 0.2421 0.1778
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4324 0.08245 0.02613 0.3016 0.03194 0.3401
k(pl) x(ilm) Q(ilm)
0.07979 0.60300.0002216

mode liq bi g ksp pl ilm ru q
0.4752 0 0.2238 0 0.1860 0.006895 0.005262 0.1030

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 918.6 0.1496 0.3478 0.4269 0.04084 0.009818 0.6230
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4427 0.2173 0.2246 0.04818 0.2219 0.1837
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4837 0.06655 0.01688 0.2745 0.02694 0.3613
k(pl) x(ilm) Q(ilm)
0.06804 0.59940.0002940

mode liq bi g ksp pl ilm ru q
0.3881 0.04825 0.1904 0 0.2239 0.008150 0.003544 0.1376

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 938.9 0.1563 0.3590 0.4267 0.04469 0.01338 0.6048
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4190 0.1971 0.1858 0.04730 0.2353 0.1809
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4497 0.07684 0.02259 0.2917 0.03017 0.3482
k(pl) x(ilm) Q(ilm)
0.07548 0.60300.0002476

mode liq bi g ksp pl ilm ru q
0.4439 0.01663 0.2124 0 0.1999 0.007474 0.004600 0.1151

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, g, ksp, pl, ilm, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.20	816.3	0.2070	0.3510	0.3952	0.01576	0.02286	0.5090
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.3995	0.4005	0.02914	0.008397	0.2232	0.01772	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4545	0.04048	0.7984-6.160e-5	0.4911	0.1850		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4911	0.1850	0	0.2333	0.01911	6.699e-5	0.07135

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.40	820.5	0.2051	0.3517	0.3960	0.01633	0.02289	0.5121
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4000	0.4016	0.03035	0.008746	0.2246	0.01807	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4528	0.04121	0.7939-6.331e-5	0.4901	0.1858		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4901	0.1858	0	0.2324	0.018620	0.0002958	0.07273

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.60	824.6	0.2033	0.3523	0.3968	0.01691	0.02291	0.5153
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4006	0.4027	0.03159	0.009107	0.2260	0.01842	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4511	0.04194	0.7893-6.514e-5	0.4892	0.1867		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4892	0.1867	0	0.2314	0.018140	0.0005194	0.07406

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.80	828.7	0.2015	0.3530	0.3976	0.01751	0.02291	0.5183
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4011	0.4038	0.03286	0.009481	0.2275	0.01877	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4493	0.04269	0.7847-6.712e-5	0.4882	0.1875		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4882	0.1875	0	0.2305	0.017670	0.0007380	0.07535

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	832.8	0.1997	0.3536	0.3984	0.01813	0.02289	0.5213
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4016	0.4049	0.03416	0.009866	0.2290	0.01912	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4474	0.04345	0.7799-6.925e-5	0.4873	0.1884		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4873	0.1884	0	0.2295	0.017210	0.0009514	0.07659

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 836.8 0.1981 0.3541 0.3992 0.01876 0.02285 0.5243
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4021 0.4059 0.03550 0.01026 0.2305 0.01948
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.4454 0.04423 0.7750-7.155e-5 0.4865 0.1893

mode liq g ksp pl ilm ru q
0.4865 0.1893 0 0.2285 0.01676 0.001160 0.07780

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 840.8 0.1964 0.3547 0.4000 0.01941 0.02279 0.5271
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4026 0.4070 0.03686 0.01067 0.2320 0.01983
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.4433 0.04502 0.7701-7.405e-5 0.4856 0.1902

mode liq g ksp pl ilm ru q
0.4856 0.1902 0 0.2275 0.01631 0.001363 0.07897

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 844.8 0.1948 0.3552 0.4007 0.02007 0.02271 0.5300
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4031 0.4080 0.03826 0.01109 0.2336 0.02019
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.4411 0.04582 0.7651-7.678e-5 0.4848 0.1912

mode liq g ksp pl ilm ru q
0.4848 0.1912 0 0.2265 0.01588 0.001560 0.08010

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 848.7 0.1933 0.3557 0.4015 0.02075 0.02262 0.5327
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4035 0.4091 0.03968 0.01152 0.2352 0.02055
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.4388 0.04664 0.7600-7.976e-5 0.4840 0.1921

mode liq g ksp pl ilm ru q
0.4840 0.1921 0 0.2254 0.01545 0.001753 0.08120

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 852.6 0.1917 0.3562 0.4023 0.02144 0.02250 0.5354
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4039 0.4101 0.04113 0.01197 0.2369 0.02091
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.4365 0.04748 0.7549-8.304e-5 0.4833 0.1931

mode liq g ksp pl ilm ru q
0.4833 0.1931 0 0.2243 0.01504 0.001941 0.08227

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.20	856.4	0.1902	0.3567	0.4031	0.02215	0.02237	0.5381
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4043	0.4111	0.04260	0.01242	0.2386	0.02128	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4341	0.04833	0.7497-8.665e-5	0.4826	0.1942		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4826	0.1942	0	0.2232	0.01463	0.002123	0.08331

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.40	860.2	0.1888	0.3571	0.4038	0.02288	0.02222	0.5407
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4047	0.4121	0.04410	0.01289	0.2403	0.02164	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4316	0.04920	0.7444-9.066e-5	0.4819	0.1952		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4819	0.1952	0	0.2221	0.01423	0.002300	0.08431

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	864.0	0.1874	0.3576	0.4046	0.02362	0.02206	0.5433
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4050	0.4131	0.04562	0.01336	0.2421	0.02201	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4289	0.05009	0.7390-9.513e-5	0.4812	0.1963		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4812	0.1963	0	0.2209	0.01384	0.002473	0.08529

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.80	867.8	0.1860	0.3580	0.4054	0.02437	0.02188	0.5458
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4054	0.4140	0.04716	0.01385	0.2440	0.02238	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4263	0.05099	0.7336-0.0001001	0.4806	0.1974		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4806	0.1974	0	0.2197	0.01346	0.002640	0.08624

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.00	871.5	0.1846	0.3584	0.4062	0.02515	0.02168	0.5483
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4057	0.4150	0.04871	0.01434	0.2458	0.02275	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4235	0.05192	0.7282-0.0001058	0.4800	0.1985		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4800	0.1985	0	0.2185	0.01309	0.002802	0.08717

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.20	875.2	0.1833	0.3588	0.4070	0.02594	0.02147	0.5508
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4060	0.4159	0.05028	0.01484	0.2477	0.02313	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4206	0.05287	0.7227-0.0001123	0.4794	0.1996		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4794	0.1996	0	0.2172	0.01272	0.002959	0.08807

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	878.9	0.1820	0.3592	0.4078	0.02674	0.02124	0.5532
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4062	0.4169	0.05185	0.01535	0.2497	0.02351	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4177	0.05383	0.7171-0.0001197	0.4789	0.2007		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4789	0.2007	0	0.2160	0.01237	0.003111	0.08895

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.60	882.5	0.1807	0.3595	0.4087	0.02756	0.02101	0.5555
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4065	0.4178	0.05344	0.01587	0.2517	0.02389	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4146	0.05482	0.7115-0.0001282	0.4783	0.2019		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4783	0.2019	0	0.2147	0.01202	0.003259	0.08980

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.80	886.1	0.1794	0.3599	0.4095	0.02840	0.02076	0.5579
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4067	0.4187	0.05503	0.01639	0.2538	0.02427	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4115	0.05584	0.7059-0.0001383	0.4779	0.2030		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4779	0.2030	0	0.2134	0.01168	0.003402	0.09064

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.00	889.7	0.1782	0.3603	0.4104	0.02925	0.02050	0.5602
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4069	0.4196	0.05662	0.01692	0.2559	0.02466	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4083	0.05687	0.7003-0.0001503	0.4774	0.2042		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4774	0.2042	0	0.2120	0.01135	0.003539	0.09145

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	893.3	0.1770	0.3606	0.4112	0.03012	0.02023	0.5624
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4071	0.4205	0.05821	0.01745	0.2581	0.02504	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4050	0.05794	0.6946-0.0001647	0.4770	0.2054		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4770	0.2054	0	0.2107	0.01103	0.003673	0.09224

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.40	896.8	0.1758	0.3609	0.4121	0.03100	0.01996	0.5646
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4073	0.4214	0.05980	0.01799	0.2603	0.02544	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.4017	0.05902	0.6889-0.0001825	0.4766	0.2066		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4766	0.2066	0	0.2093	0.01072	0.003801	0.09301

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.60	900.3	0.1747	0.3612	0.4130	0.03190	0.01967	0.5668
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4074	0.4222	0.06138	0.01853	0.2625	0.02583	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3982	0.06013	0.6833-0.0002049	0.4763	0.2078		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4763	0.2078	0	0.2079	0.01041	0.003925	0.09377

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.80	903.8	0.1735	0.3615	0.4139	0.03282	0.01938	0.5690
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4075	0.4231	0.06296	0.01907	0.2649	0.02623	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3947	0.06127	0.6776-0.0002340	0.4759	0.2089		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4759	0.2089	0	0.2065	0.01012	0.004044	0.09450

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	907.3	0.1724	0.3618	0.4149	0.03374	0.01909	0.5711
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4077	0.4239	0.06452	0.01961	0.2672	0.02663	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3911	0.06244	0.6719-0.0002733	0.4756	0.2101		

mode	liq	g	ksp	pl	ilm	ru	q
	0.4756	0.2101	0	0.2050	0.009831	0.004159	0.09522

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 910.7 0.1713 0.3621 0.4158 0.03469 0.01879 0.5732
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4077 0.4247 0.06608 0.02015 0.2697 0.02703
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3874 0.06364 0.6662-0.0003293 0.4754 0.2113

mode liq g ksp pl ilm ru q
0.4754 0.2113 0 0.2036 0.009551 0.004270 0.09593

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 914.2 0.1702 0.3623 0.4168 0.03565 0.01849 0.5753
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4078 0.4254 0.06761 0.02069 0.2721 0.02744
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3836 0.06486 0.6605-0.0004153 0.4752 0.2124

mode liq g ksp pl ilm ru q
0.4752 0.2124 0 0.2021 0.009280 0.004377 0.09661

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 917.6 0.1691 0.3626 0.4178 0.03662 0.01819 0.5773
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4078 0.4262 0.06913 0.02122 0.2747 0.02785
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3798 0.06612 0.6548-0.0005642 0.4750 0.2136

mode liq g ksp pl ilm ru q
0.4750 0.2136 0 0.2006 0.009016 0.004479 0.09728

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 920.9 0.1680 0.3628 0.4188 0.03761 0.01789 0.5793
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4078 0.4270 0.07064 0.02176 0.2773 0.02827
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3759 0.06741 0.6492-0.0008848 0.4749 0.2147

mode liq g ksp pl ilm ru q
0.4749 0.2147 0 0.1991 0.008761 0.004577 0.09794

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 924.3 0.1670 0.3630 0.4198 0.03861 0.01759 0.5813
h2o(L) x(g) z(g) f(g) na(ksp) ca(ksp)
0.4078 0.4277 0.07212 0.02229 0.2799 0.02868
ca(pl) k(pl) x(ilm) Q(ilm) liq g
0.3719 0.06874 0.6436-0.002076 0.4747 0.2159

mode liq g ksp pl ilm ru q
0.4747 0.2159 0 0.1976 0.008513 0.004671 0.09858

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	927.6	0.1660	0.3633	0.4208	0.03962	0.01729	0.5832
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4078	0.4284	0.07358	0.02282	0.2826	0.02911	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3679	0.07009	0.6380	0.005778	0.4747	0.2170	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4747	0.2170	0	0.1961	0.008273	0.004762	0.09921

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	931.0	0.1650	0.3635	0.4219	0.04065	0.01699	0.5851
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4078	0.4291	0.07502	0.02335	0.2854	0.02953	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3637	0.07149	0.6324	0.001201	0.4746	0.2181	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4746	0.2181	0	0.1945	0.008040	0.004849	0.09983

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	934.3	0.1640	0.3637	0.4230	0.04169	0.01669	0.5870
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4077	0.4297	0.07644	0.02387	0.2882	0.02996	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3596	0.07292	0.62690	0.0006675	0.4747	0.2192	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4747	0.2192	0	0.1930	0.007814	0.004932	0.1004

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	937.6	0.1630	0.3639	0.4241	0.04275	0.01640	0.5889
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4076	0.4304	0.07783	0.02439	0.2911	0.03040	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3553	0.07439	0.62150	0.0004612	0.4747	0.2202	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4747	0.2202	0	0.1914	0.007596	0.005012	0.1010

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	940.8	0.1620	0.3640	0.4253	0.04381	0.01611	0.5907
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4075	0.4310	0.07920	0.02490	0.2941	0.03084	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3510	0.07590	0.61610	0.0003517	0.4748	0.2213	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4748	0.2213	0	0.1898	0.007384	0.005088	0.1016

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	944.1	0.1611	0.3642	0.4264	0.04489	0.01582	0.5925
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4073	0.4316	0.08055	0.02540	0.2971	0.03129	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3466	0.07746	0.61070	0.0002838	0.4749	0.2223	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4749	0.2223	0	0.1883	0.007179	0.005161	0.1022

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	947.3	0.1601	0.3644	0.4276	0.04598	0.01555	0.5943
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4071	0.4322	0.08187	0.02591	0.3002	0.03174	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3421	0.07906	0.60540	0.0002377	0.4751	0.2233	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4751	0.2233	0	0.1867	0.006981	0.005231	0.1027

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.60	950.5	0.1592	0.3645	0.4289	0.04708	0.01527	0.5961
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4070	0.4327	0.08316	0.02640	0.3033	0.03219	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3376	0.08070	0.60010	0.0002043	0.4753	0.2243	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4753	0.2243	0	0.1851	0.006789	0.005299	0.1033

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	953.8	0.1582	0.3647	0.4301	0.04819	0.01500	0.5978
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4067	0.4333	0.08443	0.02689	0.3065	0.03265	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3330	0.08240	0.59500	0.0001791	0.4755	0.2253	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4755	0.2253	0	0.1834	0.006604	0.005363	0.1038

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	956.9	0.1573	0.3648	0.4314	0.04931	0.01474	0.5995
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4065	0.4338	0.08567	0.02737	0.3098	0.03312	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3284	0.08415	0.58990	0.0001593	0.4758	0.2262	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4758	0.2262	0	0.1818	0.006424	0.005424	0.1043

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	960.1	0.1564	0.3649	0.4327	0.05044	0.01449	0.6012
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4062	0.4343	0.08688	0.02785	0.3132	0.03360	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3237	0.08595	0.58480	0.0001434	0.4762	0.2271	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4762	0.2271	0	0.1802	0.006250	0.005483	0.1048

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	963.3	0.1555	0.3651	0.4341	0.05158	0.01424	0.6029
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4059	0.4348	0.08807	0.02832	0.3167	0.03408	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3189	0.08780	0.57980	0.0001304	0.4766	0.2280	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4766	0.2280	0	0.1785	0.006082	0.005539	0.1053

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	966.5	0.1547	0.3652	0.4355	0.05273	0.01400	0.6045
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4056	0.4352	0.08923	0.02878	0.3202	0.03457	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3140	0.08972	0.57490	0.0001195	0.4770	0.2289	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4770	0.2289	0	0.1769	0.005919	0.005593	0.1058

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	969.6	0.1538	0.3653	0.4370	0.05388	0.01377	0.6061
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4053	0.4357	0.09037	0.02924	0.3238	0.03506	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3091	0.09170	0.57010	0.0001102	0.4774	0.2297	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4774	0.2297	0	0.1752	0.005761	0.005645	0.1063

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	972.8	0.1530	0.3654	0.4385	0.05505	0.01354	0.6077
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4049	0.4361	0.09148	0.02970	0.3275	0.03557	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.3042	0.09375	0.56540	0.0001023	0.4780	0.2305	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4780	0.2305	0	0.1735	0.005608	0.005694	0.1067

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	975.9	0.1521	0.3655	0.4400	0.05622	0.01333	0.6093
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4045	0.4365	0.09256	0.03014	0.3313	0.03609	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.2992	0.09586	0.5607	9.544e-5	0.4785	0.2313	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4785	0.2313	0	0.1718	0.005460	0.005741	0.1072

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	979.1	0.1513	0.3657	0.4416	0.05739	0.01312	0.6109
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4041	0.4369	0.09361	0.03059	0.3352	0.03661	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.2941	0.09805	0.5561	8.944e-5	0.4792	0.2321	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4792	0.2321	0	0.1701	0.005317	0.005787	0.1076

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	982.2	0.1505	0.3658	0.4432	0.05858	0.01292	0.6124
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4037	0.4373	0.09464	0.03102	0.3392	0.03715	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.2890	0.1003	0.5516	8.415e-5	0.4798	0.2328	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4798	0.2328	0	0.1684	0.005178	0.005830	0.1080

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	985.3	0.1497	0.3659	0.4449	0.05977	0.01273	0.6140
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4032	0.4376	0.09564	0.03145	0.3433	0.03770	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.2838	0.1027	0.5472	7.946e-5	0.4806	0.2335	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4806	0.2335	0	0.1666	0.005043	0.005871	0.1084

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.00	988.5	0.1489	0.3660	0.4467	0.06096	0.01255	0.6155
	h2o(L)	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	
	0.4027	0.4379	0.09662	0.03188	0.3475	0.03826	
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	g	
	0.2786	0.1051	0.5429	7.526e-5	0.4813	0.2342	

mode	liq	g	ksp	pl	ilm	ru	q
	0.4813	0.2342	0	0.1649	0.004913	0.005911	0.1088

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.20    991.6  0.1481 0.3661  0.4485 0.06216 0.01237 0.6170
        h2o(L)  x(g)  z(g)  f(g) na(ksp) ca(ksp)
        0.4021 0.4382 0.09756 0.03230 0.3519 0.03884
        ca(pl) k(pl) x(ilm) Q(ilm)  liq    g
        0.2733 0.1076 0.5386 7.150e-5 0.4822 0.2348

```

```

mode  liq    g    ksp    pl    ilm    ru    q
      0.4822 0.2348    0 0.1631 0.004786 0.005949 0.1092

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.40    994.8  0.1473 0.3663  0.4504 0.06336 0.01221 0.6185
        h2o(L)  x(g)  z(g)  f(g) na(ksp) ca(ksp)
        0.4016 0.4385 0.09848 0.03272 0.3563 0.03943
        ca(pl) k(pl) x(ilm) Q(ilm)  liq    g
        0.2680 0.1103 0.5345 6.810e-5 0.4831 0.2354

```

```

mode  liq    g    ksp    pl    ilm    ru    q
      0.4831 0.2354    0 0.1613 0.004664 0.005985 0.1095

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.60    997.9  0.1466 0.3664  0.4524 0.06457 0.01206 0.6200
        h2o(L)  x(g)  z(g)  f(g) na(ksp) ca(ksp)
        0.4010 0.4388 0.09938 0.03313 0.3608 0.04004
        ca(pl) k(pl) x(ilm) Q(ilm)  liq    g
        0.2626 0.1130 0.5305 6.503e-5 0.4841 0.2360

```

```

mode  liq    g    ksp    pl    ilm    ru    q
      0.4841 0.2360    0 0.1594 0.004545 0.006020 0.1099

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2   O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, pl, ilm, ky, H2O, (q)

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
7.60     695.7  0.1004 0.2044  0.8265 0.007471 0.001418 0.7165
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6800 0.4397 0.3670 0.03455 0.09150 0.2334
        x(g)  z(g)  f(g)  ca(pl)  k(pl)  x(ilm)
        0.7643 0.04047 0.002791 0.3701 0.007471 0.7273
        Q(ilm)
0.5957

```

```

mode  liq    bi    g    pl    ilm    ky    q    H2O
      0.004652 0.2889    0 0.3406 0.01091 0.02038 0.3020 0.03257

```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 695.2 0.09789 0.2034 0.8265 0.007616 0.001387 0.7173
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6837 0.4397 0.3633 0.03461 0.09171 0.2354
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7663 0.04370 0.002918 0.3712 0.007464 0.7272
Q(ilm)
0.5957

mode liq bi g pl ilm ky q H2O
0.007762 0.2886 0 0.3395 0.01090 0.02067 0.3011 0.03151

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 694.7 0.09545 0.2025 0.8264 0.007766 0.001355 0.7180
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6874 0.4397 0.3598 0.03466 0.09193 0.2374
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7683 0.04724 0.003062 0.3722 0.007464 0.7270
Q(ilm)
0.5957

mode liq bi g pl ilm ky q H2O
0.01073 0.2883 0 0.3384 0.01090 0.02096 0.3002 0.03049

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 694.1 0.09308 0.2016 0.8261 0.007921 0.001322 0.7187
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6910 0.4397 0.3562 0.03471 0.09216 0.2394
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7704 0.05114 0.003227 0.3732 0.007470 0.7268
Q(ilm)
0.5956

mode liq bi g pl ilm ky q H2O
0.01353 0.2881 0 0.3374 0.01089 0.02124 0.2994 0.02949

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 693.6 0.09076 0.2007 0.8256 0.008080 0.001289 0.7194
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6945 0.4397 0.3528 0.03477 0.09241 0.2413
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7726 0.05545 0.003417 0.3741 0.007483 0.7265
Q(ilm)
0.5955

mode liq bi g pl ilm ky q H2O
0.01617 0.2878 0 0.3364 0.01088 0.02153 0.2986 0.02854

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 693.1 0.08849 0.1997 0.8250 0.008244 0.001254 0.7201

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6979 0.4397 0.3494 0.03482 0.09268 0.2432
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7749 0.06021 0.003637 0.3750 0.007502 0.7262
Q(ilm)

0.5953

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.01863	0.2876	0	0.3355	0.01086	0.02181	0.2980	0.02763

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 692.5 0.08628 0.1988 0.8241 0.008412 0.001218 0.7208
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7012 0.4398 0.3460 0.03487 0.09296 0.2450
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7773 0.06549 0.003893 0.3758 0.007529 0.7258
Q(ilm)

0.5951

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.02090	0.2874	0	0.3347	0.01085	0.02209	0.2973	0.02677

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 691.9 0.08411 0.1979 0.8231 0.008583 0.001182 0.7215
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7044 0.4398 0.3428 0.03492 0.09326 0.2469
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7798 0.07136 0.004193 0.3765 0.007563 0.7254
Q(ilm)

0.5948

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.02297	0.2872	0	0.3339	0.01084	0.02236	0.2968	0.02597

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 691.3 0.08199 0.1969 0.8218 0.008758 0.001144 0.7222
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7076 0.4398 0.3396 0.03497 0.09357 0.2486
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7824 0.07792 0.004548 0.3771 0.007606 0.7250
Q(ilm)

0.5945

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.02482	0.2870	0	0.3333	0.01082	0.02263	0.2962	0.02524

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 690.6 0.07992 0.1960 0.8202 0.008937 0.001104 0.7229
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7108 0.4399 0.3365 0.03502 0.09390 0.2504

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7852 0.08526 0.004971 0.3776 0.007658 0.7245
Q(ilm)

0.5942

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.02644	0.2868	0	0.3327	0.01080	0.02289	0.2958	0.02459

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 689.8 0.07789 0.1951 0.8184 0.009119 0.001063 0.7235
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7138 0.4399 0.3335 0.03508 0.09425 0.2521
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7882 0.09350 0.005480 0.3780 0.007720 0.7240
Q(ilm)

0.5938

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.02780	0.2866	0	0.3322	0.01078	0.02314	0.2954	0.02402

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 689.0 0.07590 0.1941 0.8162 0.009302 0.001020 0.7242
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7169 0.4400 0.3306 0.03513 0.09462 0.2537
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7913 0.1028 0.006098 0.3783 0.007794 0.7235
Q(ilm)

0.5933

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.02889	0.2865	0	0.3319	0.01076	0.02339	0.2951	0.02354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 688.2 0.07395 0.1931 0.8137 0.0094880.0009747 0.7248
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7199 0.4401 0.3278 0.03519 0.09501 0.2553
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7946 0.1133 0.006856 0.3785 0.007881 0.7229
Q(ilm)

0.5929

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.02968	0.2863	0	0.3316	0.01073	0.02362	0.2948	0.02317

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 687.2 0.07203 0.1922 0.8107 0.0096750.0009274 0.7254
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7228 0.4401 0.3252 0.03526 0.09542 0.2569
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.7981 0.1252 0.007794 0.3785 0.007983 0.7222

Q(ilm)

0.5924

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.03015	0.2862		0	0.3315	0.01070	0.02385	0.2946 0.02292

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	686.2	0.07015	0.1912	0.8073	0.009862	0.0008777	0.7260
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7257	0.4402	0.3227	0.03533	0.09587	0.2583
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8018	0.1387	0.008968	0.3785	0.008103	0.7215

Q(ilm)

0.5918

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.03025	0.2861		0	0.3316	0.01067	0.02406	0.2945 0.02281

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	685.0	0.06829	0.1902	0.8033	0.010050	0.0008253	0.7265
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7287	0.4403	0.3203	0.03541	0.09634	0.2597
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.8057	0.1541	0.01045	0.3782	0.008244	0.7207

Q(ilm)

0.5913

mode	liq	bi	g	pl	ilm	ky	q	H2O
	0.02996	0.2861		0	0.3318	0.01063	0.02425	0.2945 0.02286

calcs use:

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ru, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.35	588.9	0.02247	0.1563	0.8560	0.001802	9.747e-5	0.6830
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.8193	0.3922	0.04988	0.009010	0.07655	0.4899
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.8696	0.6854	0.1232	0.3509	0.9816	0.7786
		ca(pl)	k(pl)				
		0.03958	0.01055				

mode	liq	bi	g	mu	pl	ru	q	H2O
------	-----	----	---	----	----	----	---	-----

0 0.2328 0.1080 0.2508 0.08825 0.004733 0.3154 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, g, mu, pl, ru, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
5.00 431.8 0.4476 0.05139 0.01095 0.03682 0.5788 0.9349
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8873 0.2494 0.3354 0.9996 0.8507 0.3592
k(pl)
0.001907

mode bi g mu pl ru q H2O
0.2648 0.05375 0.2205 0.1387 0.005764 0.3165 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
5.20 436.8 0.4467 0.05324 0.01114 0.03785 0.5744 0.9333
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8816 0.2439 0.3368 0.9996 0.8503 0.3544
k(pl)
0.002004

mode bi g mu pl ru q H2O
0.2645 0.05479 0.2208 0.1375 0.005731 0.3167 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
5.40 441.7 0.4458 0.05509 0.01132 0.03889 0.5700 0.9317
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8759 0.2384 0.3381 0.9995 0.8498 0.3494
k(pl)
0.002107

mode bi g mu pl ru q H2O
0.2642 0.05587 0.2212 0.1362 0.005697 0.3168 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
5.60 446.7 0.4449 0.05692 0.01150 0.03994 0.5656 0.9300
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8700 0.2330 0.3394 0.9995 0.8493 0.3441
k(pl)
0.002215

mode bi g mu pl ru q H2O
0.2638 0.05701 0.2216 0.1349 0.005663 0.3170 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

5.80 451.6 0.4439 0.05873 0.01166 0.04099 0.5614 0.9284
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8640 0.2276 0.3406 0.9994 0.8487 0.3385
k(pl)
0.00233

mode bi g mu pl ru q H2O
0.2634 0.05819 0.2220 0.1336 0.005629 0.3172 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.00 456.4 0.4429 0.06051 0.01182 0.04206 0.5572 0.9267
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8579 0.2223 0.3417 0.9994 0.8479 0.3327
k(pl)
0.002452

mode bi g mu pl ru q H2O
0.2630 0.05941 0.2225 0.1322 0.005596 0.3173 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.20 461.2 0.4418 0.06225 0.01197 0.04313 0.5531 0.9250
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8518 0.2171 0.3428 0.9993 0.8471 0.3265
k(pl)
0.002581

mode bi g mu pl ru q H2O
0.2626 0.06068 0.2230 0.1308 0.005562 0.3175 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.40 466.0 0.4407 0.06393 0.01210 0.04420 0.5490 0.9233
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8456 0.2120 0.3437 0.9993 0.8462 0.3201
k(pl)
0.002717

mode bi g mu pl ru q H2O
0.2621 0.06199 0.2235 0.1293 0.005529 0.3176 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.60 470.7 0.4395 0.06556 0.01222 0.04528 0.5451 0.9216
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8395 0.2070 0.3446 0.9992 0.8452 0.3133
k(pl)
0.002862

mode bi g mu pl ru q H2O
0.2616 0.06334 0.2240 0.1279 0.005495 0.3177 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

6.80 475.3 0.4383 0.06712 0.01234 0.04636 0.5413 0.9199
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8333 0.2021 0.3454 0.9991 0.8441 0.3063
k(pl)
0.003016

mode bi g mu pl ru q H2O
0.2610 0.06473 0.2245 0.1264 0.005462 0.3179 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.00 479.9 0.4370 0.06860 0.01244 0.04743 0.5377 0.9182
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8271 0.1973 0.3461 0.9990 0.8429 0.2990
k(pl)
0.003178

mode bi g mu pl ru q H2O
0.2604 0.06616 0.2251 0.1249 0.005430 0.3180 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.20 484.4 0.4357 0.06998 0.01252 0.04850 0.5341 0.9164
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8210 0.1927 0.3468 0.9989 0.8417 0.2914
k(pl)
0.003349

mode bi g mu pl ru q H2O
0.2598 0.06761 0.2257 0.1234 0.005398 0.3181 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.40 488.8 0.4343 0.07127 0.01260 0.04957 0.5307 0.9147
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8149 0.1883 0.3473 0.9989 0.8403 0.2835
k(pl)
0.00353

mode bi g mu pl ru q H2O
0.2592 0.06909 0.2264 0.1218 0.005366 0.3182 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.60 493.2 0.4330 0.07245 0.01266 0.05063 0.5274 0.9129
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8089 0.1840 0.3478 0.9988 0.8388 0.2754
k(pl)
0.003721

mode bi g mu pl ru q H2O
0.2585 0.07059 0.2270 0.1203 0.005335 0.3183 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

7.80 497.4 0.4316 0.07351 0.01271 0.05169 0.5243 0.9112
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.8031 0.1799 0.3483 0.9986 0.8373 0.2671
k(pl)
0.003921

mode bi g mu pl ru q H2O
0.2578 0.07210 0.2277 0.1188 0.005305 0.3184 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.00 501.6 0.4301 0.07446 0.01275 0.05273 0.5214 0.9094
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7973 0.1760 0.3486 0.9985 0.8357 0.2586
k(pl)
0.00413

mode bi g mu pl ru q H2O
0.2571 0.07362 0.2284 0.1172 0.005275 0.3184 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.20 505.7 0.4287 0.07527 0.01277 0.05375 0.5186 0.9077
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7917 0.1723 0.3489 0.9984 0.8341 0.2500
k(pl)
0.004349

mode bi g mu pl ru q H2O
0.2563 0.07514 0.2291 0.1157 0.005246 0.3185 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.40 509.6 0.4272 0.07596 0.01279 0.05476 0.5159 0.9060
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7863 0.1688 0.3492 0.9983 0.8324 0.2412
k(pl)
0.004577

mode bi g mu pl ru q H2O
0.2556 0.07665 0.2298 0.1143 0.005218 0.3186 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.60 513.5 0.4258 0.07651 0.01279 0.05576 0.5134 0.9043
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7810 0.1654 0.3494 0.9981 0.8306 0.2324
k(pl)
0.004812

mode bi g mu pl ru q H2O
0.2548 0.07815 0.2305 0.1128 0.005191 0.3186 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

8.80 517.2 0.4243 0.07694 0.01277 0.05673 0.5111 0.9026
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7760 0.1623 0.3496 0.9979 0.8289 0.2235
k(pl)
0.005056

mode bi g mu pl ru q H2O
0.2540 0.07964 0.2312 0.1114 0.005165 0.3186 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.00 520.9 0.4229 0.07722 0.01275 0.05768 0.5089 0.9010
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7711 0.1593 0.3497 0.9978 0.8271 0.2147
k(pl)
0.005306

mode bi g mu pl ru q H2O
0.2532 0.08109 0.2319 0.1100 0.005139 0.3186 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.20 524.4 0.4215 0.07738 0.01272 0.05861 0.5069 0.8994
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7663 0.1566 0.3499 0.9976 0.8253 0.2058
k(pl)
0.005562

mode bi g mu pl ru q H2O
0.2524 0.08252 0.2327 0.1087 0.005115 0.3186 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.40 527.8 0.4201 0.07742 0.01267 0.05952 0.5050 0.8978
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7618 0.1540 0.3500 0.9974 0.8235 0.1971
k(pl)
0.005822

mode bi g mu pl ru q H2O
0.2516 0.08392 0.2334 0.1074 0.005092 0.3186 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.60 531.1 0.4187 0.07733 0.01262 0.06040 0.5033 0.8963
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7575 0.1515 0.3500 0.9972 0.8217 0.1885
k(pl)
0.006086

mode bi g mu pl ru q H2O
0.2509 0.08528 0.2341 0.1061 0.005069 0.3186 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

9.80 534.3 0.4174 0.07713 0.01255 0.06126 0.5017 0.8948
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7533 0.1493 0.3501 0.9969 0.8199 0.1800
k(pl)
0.006352

mode bi g mu pl ru q H2O
0.2501 0.08659 0.2348 0.1049 0.005048 0.3186 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 537.4 0.4161 0.07681 0.01248 0.06209 0.5003 0.8934
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7494 0.1472 0.3501 0.9967 0.8181 0.1717
k(pl)
0.006619

mode bi g mu pl ru q H2O
0.2493 0.08787 0.2355 0.1037 0.005027 0.3185 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.20 540.3 0.4148 0.07640 0.01240 0.06290 0.4990 0.8920
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7456 0.1452 0.3502 0.9965 0.8163 0.1636
k(pl)
0.006885

mode bi g mu pl ru q H2O
0.2485 0.08910 0.2362 0.1026 0.005008 0.3185 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.40 543.2 0.4135 0.07588 0.01231 0.06368 0.4978 0.8907
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7420 0.1434 0.3502 0.9962 0.8146 0.1557
k(pl)
0.007149

mode bi g mu pl ru q H2O
0.2478 0.09028 0.2369 0.1016 0.004989 0.3184 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.60 545.9 0.4123 0.07528 0.01221 0.06444 0.4967 0.8894
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7386 0.1417 0.3502 0.9959 0.8129 0.1480
k(pl)
0.00741

mode bi g mu pl ru q H2O
0.2471 0.09142 0.2376 0.1006 0.004971 0.3183 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

10.80 548.6 0.4111 0.07460 0.01211 0.06517 0.4957 0.8882
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7353 0.1402 0.3502 0.9956 0.8112 0.1407
k(pl)
0.007665

mode bi g mu pl ru q H2O
0.2463 0.09251 0.2383 0.09966 0.004954 0.3183 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 551.1 0.4100 0.07384 0.01201 0.06587 0.4949 0.8870
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7321 0.1387 0.3503 0.9953 0.8096 0.1335
k(pl)
0.007915

mode bi g mu pl ru q H2O
0.2456 0.09355 0.2389 0.09877 0.004938 0.3182 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 553.6 0.4089 0.07302 0.01189 0.06656 0.4941 0.8858
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7291 0.1374 0.3503 0.9949 0.8079 0.1267
k(pl)
0.008158

mode bi g mu pl ru q H2O
0.2449 0.09456 0.2396 0.09792 0.004922 0.3181 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 555.9 0.4079 0.07214 0.01178 0.06722 0.4934 0.8847
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7263 0.1361 0.3503 0.9946 0.8063 0.1201
k(pl)
0.008393

mode bi g mu pl ru q H2O
0.2443 0.09551 0.2402 0.09713 0.004908 0.3180 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.60 558.2 0.4068 0.07121 0.01165 0.06786 0.4928 0.8836
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7235 0.1350 0.3504 0.9942 0.8048 0.1139
k(pl)
0.008618

mode bi g mu pl ru q H2O
0.2436 0.09643 0.2408 0.09637 0.004894 0.3179 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

11.80 560.4 0.4058 0.07023 0.01153 0.06847 0.4922 0.8826
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7209 0.1339 0.3504 0.9938 0.8032 0.1078
k(pl)
0.008833

mode bi g mu pl ru q H2O
0.2429 0.09730 0.2414 0.09566 0.004881 0.3178 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 562.5 0.4049 0.06920 0.01140 0.06907 0.4918 0.8816
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7184 0.1329 0.3504 0.9933 0.8017 0.1021
k(pl)
0.009037

mode bi g mu pl ru q H2O
0.2423 0.09814 0.2420 0.09500 0.004868 0.3177 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 564.5 0.4040 0.06815 0.01127 0.06964 0.4914 0.8807
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7159 0.1320 0.3505 0.9929 0.8002 0.09664
k(pl)
0.00923

mode bi g mu pl ru q H2O
0.2417 0.09894 0.2426 0.09437 0.004856 0.3176 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 566.5 0.4031 0.06706 0.01113 0.07019 0.4910 0.8798
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7136 0.1311 0.3505 0.9924 0.7988 0.09143
k(pl)
0.009411

mode bi g mu pl ru q H2O
0.2411 0.09970 0.2431 0.09378 0.004844 0.3175 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 568.4 0.4022 0.06595 0.01100 0.07073 0.4907 0.8789
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7114 0.1303 0.3506 0.9919 0.7973 0.08648
k(pl)
0.009579

mode bi g mu pl ru q H2O
0.2405 0.1004 0.2437 0.09322 0.004834 0.3174 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

12.80 570.2 0.4014 0.06482 0.01086 0.07125 0.4904 0.8781
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7092 0.1296 0.3506 0.9914 0.7959 0.08178
k(pl)
0.009735

mode bi g mu pl ru q H2O
0.2399 0.1011 0.2443 0.09270 0.004823 0.3172 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 572.0 0.4006 0.06367 0.01072 0.07175 0.4902 0.8773
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7071 0.1289 0.3506 0.9908 0.7945 0.07732
k(pl)
0.009877

mode bi g mu pl ru q H2O
0.2393 0.1018 0.2448 0.09221 0.004814 0.3171 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.20 573.7 0.3998 0.06251 0.01057 0.07223 0.4901 0.8765
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7050 0.1282 0.3507 0.9902 0.7931 0.07309
k(pl)
0.01001

mode bi g mu pl ru q H2O
0.2387 0.1024 0.2453 0.09175 0.004804 0.3170 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.40 575.3 0.3990 0.06134 0.01043 0.07270 0.4899 0.8757
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7030 0.1276 0.3507 0.9896 0.7918 0.06908
k(pl)
0.01012

mode bi g mu pl ru q H2O
0.2381 0.1031 0.2459 0.09132 0.004796 0.3168 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.60 576.9 0.3982 0.06016 0.01029 0.07315 0.4898 0.8750
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.7011 0.1271 0.3508 0.9890 0.7904 0.06528
k(pl)
0.01022

mode bi g mu pl ru q H2O
0.2376 0.1036 0.2464 0.09091 0.004787 0.3167 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

13.80 578.4 0.3975 0.05898 0.01014 0.07359 0.4898 0.8743
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6992 0.1265 0.3508 0.9883 0.7891 0.06168
k(pl)
0.01031

mode bi g mu pl ru q H2O
0.2370 0.1042 0.2469 0.09053 0.004779 0.3166 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.00 579.9 0.3968 0.05779 0.009997 0.07402 0.4897 0.8737
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6973 0.1260 0.3508 0.9876 0.7877 0.05827
k(pl)
0.01039

mode bi g mu pl ru q H2O
0.2365 0.1048 0.2474 0.09017 0.004772 0.3164 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.20 581.4 0.3961 0.05661 0.009851 0.07443 0.4897 0.8730
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6955 0.1256 0.3509 0.9868 0.7864 0.05505
k(pl)
0.01045

mode bi g mu pl ru q H2O
0.2359 0.1053 0.2479 0.08983 0.004765 0.3163 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.40 582.8 0.3954 0.05543 0.009705 0.07482 0.4897 0.8724
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6937 0.1251 0.3509 0.9860 0.7851 0.05200
k(pl)
0.0105

mode bi g mu pl ru q H2O
0.2354 0.1058 0.2484 0.08951 0.004759 0.3161 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.60 584.1 0.3947 0.05426 0.009559 0.07521 0.4897 0.8718
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6919 0.1247 0.3509 0.9852 0.7837 0.04912
k(pl)
0.01053

mode bi g mu pl ru q H2O
0.2348 0.1063 0.2489 0.08922 0.004752 0.3160 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

14.80 585.4 0.3941 0.05309 0.009413 0.07558 0.4897 0.8712
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6902 0.1243 0.3509 0.9843 0.7824 0.04639
k(pl)
0.01055

mode bi g mu pl ru q H2O
0.2343 0.1068 0.2494 0.08894 0.004747 0.3158 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.00 586.7 0.3934 0.05192 0.009267 0.07594 0.4898 0.8706
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6885 0.1239 0.3509 0.9834 0.7810 0.04381
k(pl)
0.01056

mode bi g mu pl ru q H2O
0.2337 0.1072 0.2499 0.08868 0.004742 0.3157 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.20 587.9 0.3927 0.05077 0.009122 0.07629 0.4898 0.8701
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6868 0.1235 0.3509 0.9824 0.7797 0.04137
k(pl)
0.01056

mode bi g mu pl ru q H2O
0.2332 0.1077 0.2504 0.08843 0.004737 0.3155 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.40 589.1 0.3921 0.04962 0.008977 0.07663 0.4899 0.8695
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6850 0.1232 0.3509 0.9813 0.7783 0.03907
k(pl)
0.01055

mode bi g mu pl ru q H2O
0.2326 0.1081 0.2510 0.08820 0.004732 0.3153 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.60 590.3 0.3914 0.04849 0.008833 0.07696 0.4900 0.8690
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6833 0.1228 0.3508 0.9802 0.7770 0.03689
k(pl)
0.01052

mode bi g mu pl ru q H2O
0.2321 0.1086 0.2515 0.08798 0.004728 0.3151 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

15.80 591.4 0.3908 0.04737 0.008689 0.07727 0.4901 0.8684
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6816 0.1225 0.3508 0.9791 0.7756 0.03484
k(pl)
0.01048

mode bi g mu pl ru q H2O
0.2315 0.1090 0.2520 0.08778 0.004725 0.3150 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.00 592.5 0.3901 0.04626 0.008547 0.07758 0.4902 0.8679
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6799 0.1222 0.3507 0.9779 0.7742 0.03289
k(pl)
0.01043

mode bi g mu pl ru q H2O
0.2310 0.1094 0.2525 0.08759 0.004721 0.3148 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.20 593.6 0.3895 0.04516 0.008405 0.07788 0.4903 0.8674
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6782 0.1219 0.3506 0.9766 0.7727 0.03105
k(pl)
0.01037

mode bi g mu pl ru q H2O
0.2304 0.1099 0.2530 0.08741 0.004719 0.3146 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 594.6 0.3888 0.04407 0.008264 0.07816 0.4904 0.8669
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6765 0.1215 0.3505 0.9752 0.7713 0.02932
k(pl)
0.0103

mode bi g mu pl ru q H2O
0.2298 0.1103 0.2536 0.08725 0.004716 0.3144 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.60 595.6 0.3882 0.04300 0.008125 0.07844 0.4905 0.8664
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6747 0.1212 0.3504 0.9738 0.7698 0.02767
k(pl)
0.01022

mode bi g mu pl ru q H2O
0.2292 0.1107 0.2541 0.08709 0.004714 0.3142 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

16.80 596.6 0.3875 0.04194 0.007986 0.07870 0.4907 0.8659
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6729 0.1209 0.3503 0.9723 0.7683 0.02612
k(pl)
0.01012

mode bi g mu pl ru q H2O
0.2286 0.1111 0.2547 0.08695 0.004713 0.3140 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.00 597.6 0.3868 0.04090 0.007849 0.07896 0.4908 0.8654
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6711 0.1206 0.3501 0.9707 0.7667 0.02466
k(pl)
0.01002

mode bi g mu pl ru q H2O
0.2280 0.1115 0.2552 0.08681 0.004712 0.3138 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.20 598.5 0.3861 0.03986 0.007712 0.07921 0.4909 0.8649
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6693 0.1203 0.3499 0.9691 0.7652 0.02327
k(pl)
0.009908

mode bi g mu pl ru q H2O
0.2273 0.1119 0.2558 0.08669 0.004712 0.3135 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.40 599.4 0.3854 0.03885 0.007578 0.07944 0.4910 0.8644
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6674 0.1200 0.3497 0.9673 0.7635 0.02196
k(pl)
0.009785

mode bi g mu pl ru q H2O
0.2267 0.1123 0.2564 0.08657 0.004712 0.3133 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.60 600.2 0.3847 0.03784 0.007444 0.07967 0.4912 0.8639
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6655 0.1197 0.3494 0.9654 0.7619 0.02072
k(pl)
0.009653

mode bi g mu pl ru q H2O
0.2260 0.1127 0.2570 0.08647 0.004712 0.3131 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

17.80 601.1 0.3840 0.03686 0.007312 0.07989 0.4913 0.8634
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6635 0.1194 0.3492 0.9634 0.7601 0.01955
k(pl)
0.009511

mode bi g mu pl ru q H2O
0.2253 0.1131 0.2577 0.08637 0.004713 0.3128 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.00 601.9 0.3832 0.03588 0.007182 0.08009 0.4915 0.8629
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6615 0.1191 0.3489 0.9613 0.7583 0.01844
k(pl)
0.00936

mode bi g mu pl ru q H2O
0.2246 0.1136 0.2583 0.08628 0.004715 0.3126 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.20 602.7 0.3824 0.03492 0.007052 0.08029 0.4916 0.8623
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6595 0.1188 0.3485 0.9591 0.7565 0.01740
k(pl)
0.009201

mode bi g mu pl ru q H2O
0.2238 0.1140 0.2590 0.08620 0.004718 0.3123 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.40 603.5 0.3816 0.03397 0.006925 0.08047 0.4917 0.8618
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6573 0.1184 0.3481 0.9567 0.7546 0.01641
k(pl)
0.009032

mode bi g mu pl ru q H2O
0.2230 0.1144 0.2597 0.08612 0.004721 0.3120 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.60 604.2 0.3808 0.03304 0.006799 0.08064 0.4919 0.8612
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6551 0.1181 0.3477 0.9542 0.7526 0.01547
k(pl)
0.008855

mode bi g mu pl ru q H2O
0.2222 0.1149 0.2604 0.08605 0.004724 0.3117 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

18.80 604.9 0.3799 0.03212 0.006675 0.08080 0.4920 0.8606
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6528 0.1178 0.3472 0.9515 0.7505 0.01459
k(pl)
0.00867

mode bi g mu pl ru q H2O
0.2213 0.1153 0.2612 0.08600 0.004729 0.3114 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.00 605.6 0.3790 0.03121 0.006552 0.08095 0.4921 0.8600
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6504 0.1174 0.3466 0.9487 0.7483 0.01375
k(pl)
0.008477

mode bi g mu pl ru q H2O
0.2204 0.1158 0.2620 0.08594 0.004734 0.3111 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.20 606.3 0.3780 0.03032 0.006431 0.08109 0.4922 0.8594
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6479 0.1170 0.3460 0.9457 0.7461 0.01296
k(pl)
0.008275

mode bi g mu pl ru q H2O
0.2195 0.1163 0.2628 0.08590 0.004740 0.3107 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.40 606.9 0.3770 0.02944 0.006312 0.08122 0.4924 0.8588
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6454 0.1166 0.3454 0.9425 0.7437 0.01221
k(pl)
0.008066

mode bi g mu pl ru q H2O
0.2185 0.1168 0.2637 0.08586 0.004747 0.3104 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.60 607.5 0.3760 0.02857 0.006195 0.08133 0.4925 0.8581
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6426 0.1162 0.3446 0.9390 0.7412 0.01150
k(pl)
0.007849

mode bi g mu pl ru q H2O
0.2174 0.1174 0.2647 0.08583 0.004755 0.3100 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

19.80 608.1 0.3749 0.02771 0.006080 0.08142 0.4926 0.8574
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6398 0.1157 0.3438 0.9354 0.7386 0.01083
k(pl)
0.007624

mode bi g mu pl ru q H2O
0.2163 0.1179 0.2656 0.08581 0.004765 0.3096 0

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
20.00 608.6 0.3737 0.02687 0.005966 0.08150 0.4927 0.8566
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.6368 0.1153 0.3429 0.9314 0.7359 0.01019
k(pl)
0.007392

mode bi g mu pl ru q H2O
0.2151 0.1185 0.2667 0.08580 0.004775 0.3091 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ru, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 440.8 0.07734 0.08623 0.7634 0.001335 1.644e-6 0.5902
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8351 0.4484 0.05094 0.01080 0.03659 0.5738
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9322 0.8929 0.2537 0.3397 0.9995 0.8517
ca(pl) k(pl)
0.3625 0.001973

mode liq bi g mu pl ru q
0 0.2652 0.05296 0.2202 0.1395 0.005770 0.3165

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 445.7 0.07530 0.08831 0.7665 0.001397 1.933e-6 0.5945
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8350 0.4476 0.05277 0.01099 0.03760 0.5694
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9306 0.8875 0.2483 0.3411 0.9995 0.8514
ca(pl) k(pl)
0.3580 0.002068

mode liq bi g mu pl ru q
0 0.2649 0.05394 0.2205 0.1383 0.005737 0.3166

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 450.6 0.07335 0.09040 0.7694 0.001460 2.265e-6 0.5987
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8348 0.4468 0.05460 0.01117 0.03862 0.5651
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9290 0.8819 0.2430 0.3425 0.9994 0.8510
ca(pl) k(pl)
0.3533 0.002168

mode liq bi g mu pl ru q
0 0.2646 0.05497 0.2209 0.1371 0.005704 0.3168

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 455.4 0.07148 0.09251 0.7723 0.001524 2.646e-6 0.6028
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8345 0.4460 0.05642 0.01134 0.03965 0.5608
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9274 0.8762 0.2376 0.3438 0.9994 0.8506
ca(pl) k(pl)
0.3483 0.002274

mode liq bi g mu pl ru q
0 0.2643 0.05604 0.2212 0.1358 0.005671 0.3170

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 460.2 0.06969 0.09462 0.7751 0.001589 3.080e-6 0.6066
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8341 0.4450 0.05823 0.01151 0.04069 0.5566
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9258 0.8704 0.2323 0.3450 0.9993 0.8501
ca(pl) k(pl)
0.3431 0.002387

mode liq bi g mu pl ru q
0 0.2639 0.05716 0.2216 0.1345 0.005637 0.3171

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 465.0 0.06797 0.09674 0.7778 0.001655 3.574e-6 0.6104
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8336 0.4441 0.06001 0.01167 0.04174 0.5524
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9242 0.8645 0.2270 0.3461 0.9993 0.8494
ca(pl) k(pl)
0.3376 0.002505

mode liq bi g mu pl ru q
0 0.2635 0.05832 0.2221 0.1332 0.005604 0.3173

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 469.7 0.06632 0.09887 0.7805 0.001721 4.132e-6 0.6139

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8331 0.4431 0.06176 0.01182 0.04280 0.5484
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9226 0.8584 0.2218 0.3472 0.9992 0.8487
ca(pl) k(pl)
0.3318 0.002631

mode liq bi g mu pl ru q
0 0.2631 0.05954 0.2225 0.1318 0.005570 0.3174

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 474.4 0.06473 0.1010 0.7830 0.001787 4.760e-6 0.6174
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8324 0.4420 0.06348 0.01195 0.04386 0.5444
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9209 0.8524 0.2167 0.3481 0.9991 0.8479
ca(pl) k(pl)
0.3256 0.002763

mode liq bi g mu pl ru q
0 0.2627 0.06079 0.2230 0.1305 0.005537 0.3176

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 479.0 0.06320 0.1031 0.7855 0.001853 5.462e-6 0.6207
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8318 0.4409 0.06514 0.01208 0.04493 0.5406
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9193 0.8462 0.2116 0.3490 0.9991 0.8470
ca(pl) k(pl)
0.3192 0.002904

mode liq bi g mu pl ru q
0 0.2622 0.06210 0.2235 0.1290 0.005503 0.3177

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 483.5 0.06172 0.1053 0.7880 0.001918 6.245e-6 0.6238
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8310 0.4397 0.06674 0.01220 0.04600 0.5368
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9176 0.8400 0.2067 0.3498 0.9990 0.8460
ca(pl) k(pl)
0.3125 0.003053

mode liq bi g mu pl ru q
0 0.2617 0.06344 0.2240 0.1276 0.005470 0.3178

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 488.0 0.06029 0.1074 0.7903 0.001982 7.111e-6 0.6268
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8303 0.4385 0.06827 0.01231 0.04707 0.5331

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9159 0.8338 0.2018 0.3505 0.9989 0.8449
ca(pl) k(pl)
0.3055 0.003210

mode liq bi g mu pl ru q
0 0.2611 0.06483 0.2246 0.1261 0.005438 0.3180

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 492.3 0.05890 0.1096 0.7926 0.002044 8.065e-6 0.6297
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8294 0.4372 0.06972 0.01240 0.04815 0.5296
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9142 0.8277 0.1971 0.3512 0.9988 0.8437
ca(pl) k(pl)
0.2982 0.003377

mode liq bi g mu pl ru q
0 0.2605 0.06625 0.2252 0.1246 0.005405 0.3181

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 496.7 0.05756 0.1117 0.7949 0.002104 9.110e-6 0.6324
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8286 0.4359 0.07108 0.01248 0.04922 0.5262
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9125 0.8215 0.1925 0.3517 0.9987 0.8424
ca(pl) k(pl)
0.2906 0.003553

mode liq bi g mu pl ru q
0 0.2599 0.06770 0.2258 0.1231 0.005373 0.3182

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 500.9 0.05625 0.1138 0.7971 0.002162 1.025e-5 0.6350
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8277 0.4346 0.07234 0.01255 0.05028 0.5230
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9108 0.8154 0.1881 0.3522 0.9986 0.8410
ca(pl) k(pl)
0.2827 0.003738

mode liq bi g mu pl ru q
0 0.2592 0.06918 0.2264 0.1216 0.005342 0.3183

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 505.0 0.05497 0.1159 0.7993 0.002217 1.148e-5 0.6374
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8268 0.4332 0.07350 0.01261 0.05134 0.5199
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9091 0.8094 0.1838 0.3526 0.9985 0.8395

ca(pl) k(pl)
0.2746 0.003933

mode	liq	bi	g	mu	pl	ru	q
0	0.2586	0.07068	0.2271	0.1200	0.005311	0.3184	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 509.1 0.05373 0.1180 0.8014 0.002269 1.280e-5 0.6398
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8259 0.4318 0.07453 0.01266 0.05239 0.5170
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9074 0.8034 0.1798 0.3529 0.9984 0.8379
ca(pl) k(pl)
0.2662 0.004138

mode	liq	bi	g	mu	pl	ru	q
0	0.2578	0.07220	0.2277	0.1185	0.005281	0.3184	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 513.0 0.05252 0.1201 0.8035 0.002316 1.422e-5 0.6420
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8250 0.4304 0.07544 0.01269 0.05343 0.5142
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9058 0.7976 0.1758 0.3532 0.9982 0.8363
ca(pl) k(pl)
0.2577 0.004353

mode	liq	bi	g	mu	pl	ru	q
0	0.2571	0.07373	0.2284	0.1170	0.005251	0.3185	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 516.8 0.05134 0.1221 0.8055 0.002360 1.573e-5 0.6440
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8242 0.4289 0.07622 0.01272 0.05445 0.5116
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9041 0.7919 0.1721 0.3534 0.9981 0.8346
ca(pl) k(pl)
0.2489 0.004576

mode	liq	bi	g	mu	pl	ru	q
0	0.2564	0.07526	0.2291	0.1155	0.005223	0.3186	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 520.5 0.05018 0.1241 0.8075 0.002400 1.732e-5 0.6460
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8233 0.4275 0.07687 0.01273 0.05546 0.5091
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.9025 0.7864 0.1686 0.3535 0.9980 0.8329
ca(pl) k(pl)
0.2401 0.004809

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mode   liq   bi    g    mu   pl    ru    q
      0 0.2556 0.07679 0.2299 0.1140 0.005195 0.3186
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80  524.1 0.04905 0.1260 0.8095 0.002435 1.900e-5 0.6479
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8224 0.4260 0.07738 0.01272 0.05645 0.5068
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.9008 0.7810 0.1652 0.3536 0.9978 0.8311
      ca(pl) k(pl)
      0.2312 0.005050

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mode   liq   bi    g    mu   pl    ru    q
      0 0.2548 0.07831 0.2306 0.1125 0.005168 0.3186
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00  527.6 0.04794 0.1279 0.8114 0.002465 2.075e-5 0.6497
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8216 0.4245 0.07776 0.01271 0.05743 0.5047
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.8992 0.7759 0.1620 0.3536 0.9976 0.8292
      ca(pl) k(pl)
      0.2222 0.005299

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mode   liq   bi    g    mu   pl    ru    q
      0 0.2540 0.07981 0.2313 0.1111 0.005142 0.3187
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20  531.0 0.04686 0.1298 0.8133 0.002490 2.258e-5 0.6514
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8208 0.4231 0.07800 0.01268 0.05838 0.5027
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.8977 0.7708 0.1590 0.3536 0.9974 0.8274
      ca(pl) k(pl)
      0.2132 0.005554

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mode   liq   bi    g    mu   pl    ru    q
      0 0.2532 0.08129 0.2321 0.1097 0.005117 0.3187
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40  534.2 0.04579 0.1316 0.8151 0.002510 2.447e-5 0.6530
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8201 0.4216 0.07810 0.01265 0.05930 0.5009
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.8962 0.7660 0.1562 0.3536 0.9972 0.8255
      ca(pl) k(pl)
      0.2042 0.005815

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mode   liq   bi    g    mu   pl    ru    q

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0 0.2524 0.08274 0.2328 0.1083 0.005093 0.3187

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 537.4 0.04475 0.1333 0.8169 0.002525 2.643e-5 0.6545
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8194 0.4202 0.07808 0.01260 0.06021 0.4993
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8947 0.7614 0.1536 0.3536 0.9970 0.8236
ca(pl) k(pl)
0.1953 0.006080

mode liq bi g mu pl ru q
0 0.2516 0.08416 0.2336 0.1070 0.005070 0.3186

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 540.4 0.04372 0.1349 0.8186 0.002536 2.844e-5 0.6560
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8187 0.4188 0.07792 0.01254 0.06109 0.4978
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8933 0.7570 0.1512 0.3535 0.9968 0.8218
ca(pl) k(pl)
0.1865 0.006347

mode liq bi g mu pl ru q
0 0.2508 0.08554 0.2343 0.1057 0.005048 0.3186

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 543.2 0.04272 0.1365 0.8203 0.002541 3.050e-5 0.6574
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8181 0.4174 0.07765 0.01248 0.06194 0.4964
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8919 0.7527 0.1489 0.3534 0.9965 0.8199
ca(pl) k(pl)
0.1779 0.006617

mode liq bi g mu pl ru q
0 0.2499 0.08688 0.2350 0.1045 0.005027 0.3186

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 546.0 0.04174 0.1381 0.8220 0.002543 3.261e-5 0.6587
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8176 0.4160 0.07727 0.01240 0.06277 0.4952
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8905 0.7487 0.1468 0.3533 0.9963 0.8180
ca(pl) k(pl)
0.1695 0.006886

mode liq bi g mu pl ru q
0 0.2492 0.08818 0.2358 0.1034 0.005007 0.3185

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 548.6 0.04077 0.1395 0.8236 0.002539 3.475e-5 0.6600
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8171 0.4147 0.07678 0.01232 0.06357 0.4941
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8892 0.7448 0.1448 0.3532 0.9960 0.8162
ca(pl) k(pl)
0.1612 0.007153

mode liq bi g mu pl ru q
0 0.2484 0.08943 0.2365 0.1023 0.004988 0.3185

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 551.2 0.03983 0.1409 0.8252 0.002532 3.693e-5 0.6612
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8167 0.4134 0.07619 0.01223 0.06434 0.4932
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8880 0.7411 0.1430 0.3531 0.9957 0.8144
ca(pl) k(pl)
0.1532 0.007418

mode liq bi g mu pl ru q
0 0.2476 0.09063 0.2372 0.1012 0.004969 0.3184

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 553.6 0.03890 0.1422 0.8268 0.002521 3.915e-5 0.6624
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8163 0.4122 0.07551 0.01213 0.06509 0.4923
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8868 0.7376 0.1413 0.3529 0.9954 0.8126
ca(pl) k(pl)
0.1455 0.007678

mode liq bi g mu pl ru q
0 0.2468 0.09178 0.2379 0.1002 0.004952 0.3183

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 555.9 0.03799 0.1434 0.8283 0.002507 4.139e-5 0.6636
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8160 0.4110 0.07475 0.01203 0.06581 0.4916
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8856 0.7342 0.1397 0.3528 0.9951 0.8109
ca(pl) k(pl)
0.1380 0.007932

mode liq bi g mu pl ru q
0 0.2461 0.09289 0.2386 0.09927 0.004936 0.3182

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 558.2 0.03711 0.1446 0.8298 0.002489 4.366e-5 0.6647

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8157 0.4098 0.07391 0.01192 0.06651 0.4909
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8845 0.7310 0.1382 0.3527 0.9947 0.8091
ca(pl) k(pl)
0.1308 0.008179

mode liq bi g mu pl ru q
0 0.2454 0.09395 0.2392 0.09837 0.004920 0.3182

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 560.3 0.03624 0.1457 0.8312 0.002469 4.596e-5 0.6658
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8155 0.4087 0.07301 0.01180 0.06718 0.4904
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8835 0.7280 0.1369 0.3526 0.9944 0.8075
ca(pl) k(pl)
0.1239 0.008418

mode liq bi g mu pl ru q
0 0.2446 0.09496 0.2399 0.09753 0.004905 0.3181

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 562.4 0.03538 0.1468 0.8326 0.002445 4.828e-5 0.6668
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8153 0.4076 0.07205 0.01168 0.06783 0.4899
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8824 0.7251 0.1356 0.3525 0.9940 0.8058
ca(pl) k(pl)
0.1173 0.008647

mode liq bi g mu pl ru q
0 0.2439 0.09593 0.2405 0.09673 0.004891 0.3180

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 564.3 0.03455 0.1477 0.8340 0.002420 5.062e-5 0.6679
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8152 0.4066 0.07103 0.01156 0.06846 0.4895
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8815 0.7223 0.1345 0.3524 0.9936 0.8042
ca(pl) k(pl)
0.1109 0.008865

mode liq bi g mu pl ru q
0 0.2433 0.09686 0.2412 0.09598 0.004878 0.3179

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 566.2 0.03373 0.1486 0.8354 0.002392 5.298e-5 0.6689
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8152 0.4056 0.06998 0.01143 0.06906 0.4892

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8806 0.7196 0.1334 0.3523 0.9932 0.8026
ca(pl) k(pl)
0.1049 0.009073

mode liq bi g mu pl ru q
0 0.2426 0.09774 0.2418 0.09528 0.004865 0.3177

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 568.0 0.03294 0.1495 0.8367 0.002363 5.537e-5 0.6698
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8152 0.4046 0.06888 0.01130 0.06964 0.4890
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8797 0.7170 0.1324 0.3522 0.9927 0.8010
ca(pl) k(pl)
0.09912 0.009268

mode liq bi g mu pl ru q
0 0.2419 0.09858 0.2424 0.09462 0.004853 0.3176

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 569.7 0.03215 0.1502 0.8380 0.002332 5.778e-5 0.6708
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8152 0.4036 0.06775 0.01116 0.07020 0.4888
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8788 0.7145 0.1315 0.3521 0.9922 0.7995
ca(pl) k(pl)
0.09365 0.009450

mode liq bi g mu pl ru q
0 0.2413 0.09938 0.2430 0.09400 0.004842 0.3175

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 571.4 0.03139 0.1510 0.8393 0.002300 6.022e-5 0.6717
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8153 0.4027 0.06659 0.01102 0.07074 0.4886
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8780 0.7122 0.1307 0.3520 0.9917 0.7980
ca(pl) k(pl)
0.08844 0.009619

mode liq bi g mu pl ru q
0 0.2407 0.1002 0.2436 0.09341 0.004831 0.3174

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 573.0 0.03064 0.1516 0.8405 0.002266 6.268e-5 0.6727
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8154 0.4018 0.06541 0.01088 0.07126 0.4885
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8772 0.7099 0.1299 0.3519 0.9912 0.7965

ca(pl) k(pl)
0.08351 0.009775

mode	liq	bi	g	mu	pl	ru	q
0	0.2400	0.1009	0.2441	0.09286	0.004821	0.3173	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 574.5 0.02991 0.1522 0.8418 0.002232 6.517e-5 0.6736
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8155 0.4009 0.06422 0.01074 0.07177 0.4885
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8765 0.7077 0.1291 0.3518 0.9907 0.7950
ca(pl) k(pl)
0.07883 0.009917

mode	liq	bi	g	mu	pl	ru	q
0	0.2394	0.1016	0.2447	0.09235	0.004811	0.3171	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 576.0 0.02920 0.1528 0.8430 0.002197 6.768e-5 0.6745
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8157 0.4001 0.06300 0.01060 0.07225 0.4885
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8758 0.7055 0.1284 0.3518 0.9901 0.7936
ca(pl) k(pl)
0.07439 0.01005

mode	liq	bi	g	mu	pl	ru	q
0	0.2388	0.1023	0.2452	0.09187	0.004802	0.3170	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 577.4 0.02850 0.1533 0.8442 0.002161 7.024e-5 0.6753
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8159 0.3993 0.06178 0.01045 0.07272 0.4885
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8751 0.7035 0.1278 0.3517 0.9895 0.7921
ca(pl) k(pl)
0.07020 0.01016

mode	liq	bi	g	mu	pl	ru	q
0	0.2383	0.1029	0.2458	0.09142	0.004794	0.3169	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 578.8 0.02782 0.1538 0.8454 0.002125 7.282e-5 0.6762
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8162 0.3985 0.06056 0.01031 0.07317 0.4886
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8745 0.7015 0.1272 0.3516 0.9888 0.7907
ca(pl) k(pl)
0.06623 0.01026

mode	liq	bi	g	mu	pl	ru	q
0	0.2377	0.1035	0.2463	0.09099	0.004786	0.3167	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	580.1	0.02716	0.1542	0.8466	0.002088	7.544e-5	0.6770
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.8164	0.3977	0.05932	0.01016	0.07361	0.4886
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.8738	0.6995	0.1266	0.3515	0.9882	0.7893
		ca(pl)	k(pl)				
		0.06247	0.01034				

mode	liq	bi	g	mu	pl	ru	q
0	0.2371	0.1041	0.2468	0.09060	0.004778	0.3166	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	581.4	0.02651	0.1546	0.8478	0.002051	7.810e-5	0.6778
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.8167	0.3970	0.05809	0.01001	0.07404	0.4887
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.8732	0.6976	0.1261	0.3515	0.9875	0.7879
		ca(pl)	k(pl)				
		0.05893	0.01042				

mode	liq	bi	g	mu	pl	ru	q
0	0.2365	0.1047	0.2474	0.09023	0.004771	0.3164	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	582.6	0.02587	0.1549	0.8490	0.002014	8.081e-5	0.6786
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.8171	0.3962	0.05686	0.009866	0.07444	0.4889
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.8726	0.6957	0.1256	0.3514	0.9867	0.7866
		ca(pl)	k(pl)				
		0.05558	0.01047				

mode	liq	bi	g	mu	pl	ru	q
0	0.2360	0.1052	0.2479	0.08988	0.004764	0.3163	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	583.8	0.02525	0.1553	0.8502	0.001977	8.356e-5	0.6794
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.8174	0.3955	0.05564	0.009717	0.07484	0.4890
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)
		0.8721	0.6939	0.1252	0.3513	0.9859	0.7852
		ca(pl)	k(pl)				
		0.05241	0.01052				

mode	liq	bi	g	mu	pl	ru	q
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0 0.2354 0.1057 0.2484 0.08955 0.004758 0.3161

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 584.9 0.02464 0.1555 0.8514 0.001940 8.636e-5 0.6802
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8178 0.3948 0.05441 0.009569 0.07522 0.4892
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8715 0.6921 0.1247 0.3512 0.9851 0.7838
ca(pl) k(pl)
0.04942 0.01055

mode liq bi g mu pl ru q
0 0.2349 0.1063 0.2489 0.08924 0.004752 0.3160

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 586.0 0.02405 0.1558 0.8526 0.001903 8.922e-5 0.6810
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8182 0.3941 0.05320 0.009420 0.07559 0.4894
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8710 0.6903 0.1243 0.3511 0.9842 0.7825
ca(pl) k(pl)
0.04660 0.01057

mode liq bi g mu pl ru q
0 0.2343 0.1068 0.2494 0.08896 0.004746 0.3158

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 587.1 0.02347 0.1560 0.8539 0.001866 9.214e-5 0.6817
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8186 0.3934 0.05199 0.009272 0.07595 0.4895
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8705 0.6885 0.1239 0.3510 0.9833 0.7811
ca(pl) k(pl)
0.04394 0.01057

mode liq bi g mu pl ru q
0 0.2338 0.1072 0.2499 0.08869 0.004741 0.3157

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 588.1 0.02290 0.1562 0.8551 0.001830 9.512e-5 0.6824
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8190 0.3928 0.05080 0.009124 0.07630 0.4897
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8700 0.6868 0.1235 0.3509 0.9824 0.7797
ca(pl) k(pl)
0.04143 0.01057

mode liq bi g mu pl ru q
0 0.2332 0.1077 0.2504 0.08844 0.004737 0.3155

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 589.1 0.02235 0.1563 0.8563 0.001793 9.817e-5 0.6831
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8194 0.3921 0.04962 0.008977 0.07663 0.4899
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8695 0.6850 0.1232 0.3508 0.9813 0.7783
ca(pl) k(pl)
0.03906 0.01055

mode liq bi g mu pl ru q
0 0.2326 0.1082 0.2510 0.08820 0.004732 0.3153

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 590.1 0.02181 0.1564 0.8576 0.0017570.0001013 0.6838
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8199 0.3914 0.04844 0.008830 0.07695 0.4902
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8690 0.6833 0.1228 0.3507 0.9803 0.7769
ca(pl) k(pl)
0.03682 0.01051

mode liq bi g mu pl ru q
0 0.2321 0.1086 0.2515 0.08798 0.004728 0.3151

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 591.0 0.02128 0.1565 0.8589 0.0017220.0001045 0.6845
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8204 0.3907 0.04728 0.008683 0.07727 0.4904
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8686 0.6816 0.1225 0.3506 0.9791 0.7755
ca(pl) k(pl)
0.03471 0.01047

mode liq bi g mu pl ru q
0 0.2315 0.1090 0.2520 0.08777 0.004725 0.3150

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 591.9 0.02076 0.1566 0.8602 0.0016860.0001078 0.6852
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8208 0.3901 0.04614 0.008538 0.07757 0.4906
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8681 0.6799 0.1222 0.3505 0.9780 0.7741
ca(pl) k(pl)
0.03272 0.01042

mode liq bi g mu pl ru q
0 0.2310 0.1095 0.2525 0.08758 0.004722 0.3148

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 592.8 0.02026 0.1567 0.8615 0.0016510.0001112 0.6858

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8213 0.3894 0.04501 0.008394 0.07786 0.4908
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8677 0.6781 0.1218 0.3503 0.9767 0.7727
ca(pl) k(pl)
0.03084 0.01035

mode liq bi g mu pl ru q
0 0.2304 0.1099 0.2530 0.08740 0.004719 0.3146

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 593.6 0.01977 0.1567 0.8629 0.0016170.0001147 0.6865
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8218 0.3887 0.04389 0.008250 0.07814 0.4911
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8672 0.6764 0.1215 0.3501 0.9754 0.7712
ca(pl) k(pl)
0.02907 0.01027

mode liq bi g mu pl ru q
0 0.2298 0.1103 0.2536 0.08723 0.004717 0.3144

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 594.4 0.01928 0.1567 0.8643 0.0015820.0001183 0.6871
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8223 0.3881 0.04279 0.008108 0.07841 0.4913
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8668 0.6747 0.1212 0.3499 0.9740 0.7697
ca(pl) k(pl)
0.02740 0.01019

mode liq bi g mu pl ru q
0 0.2292 0.1107 0.2541 0.08707 0.004715 0.3142

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 595.2 0.01881 0.1567 0.8658 0.0015490.0001220 0.6876
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8228 0.3874 0.04170 0.007967 0.07867 0.4915
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8664 0.6729 0.1209 0.3497 0.9725 0.7682
ca(pl) k(pl)
0.02582 0.01009

mode liq bi g mu pl ru q
0 0.2286 0.1111 0.2547 0.08693 0.004714 0.3140

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 596.0 0.01835 0.1566 0.8673 0.0015150.0001258 0.6882
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8234 0.3867 0.04063 0.007826 0.07893 0.4918

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8659 0.6711 0.1206 0.3495 0.9710 0.7667
ca(pl) k(pl)
0.02433 0.009982

mode liq bi g mu pl ru q
0 0.2280 0.1115 0.2552 0.08679 0.004713 0.3138

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 596.8 0.01790 0.1566 0.8688 0.0014820.0001298 0.6887
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8239 0.3860 0.03958 0.007688 0.07917 0.4920
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8655 0.6693 0.1203 0.3493 0.9694 0.7651
ca(pl) k(pl)
0.02293 0.009865

mode liq bi g mu pl ru q
0 0.2273 0.1119 0.2558 0.08666 0.004713 0.3136

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 597.5 0.01746 0.1565 0.8704 0.0014500.0001340 0.6893
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8244 0.3853 0.03854 0.007550 0.07940 0.4923
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8650 0.6674 0.1200 0.3490 0.9676 0.7635
ca(pl) k(pl)
0.02160 0.009739

mode liq bi g mu pl ru q
0 0.2267 0.1123 0.2564 0.08655 0.004713 0.3133

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 598.2 0.01703 0.1564 0.8720 0.0014180.0001383 0.6897
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8250 0.3846 0.03751 0.007414 0.07962 0.4925
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8646 0.6655 0.1197 0.3487 0.9658 0.7618
ca(pl) k(pl)
0.02035 0.009603

mode liq bi g mu pl ru q
0 0.2260 0.1127 0.2570 0.08644 0.004714 0.3131

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 598.9 0.01661 0.1563 0.8737 0.0013860.0001428 0.6902
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8255 0.3838 0.03651 0.007280 0.07983 0.4927
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8642 0.6636 0.1194 0.3484 0.9639 0.7601

ca(pl) k(pl)
0.01917 0.009458

mode	liq	bi	g	mu	pl	ru	q
0	0.2253	0.1132	0.2576	0.08634	0.004715	0.3128	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 599.5 0.01620 0.1562 0.8755 0.0013550.0001474 0.6906
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8261 0.3831 0.03551 0.007147 0.08004 0.4930
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8637 0.6616 0.1191 0.3480 0.9618 0.7584
ca(pl) k(pl)
0.01806 0.009305

mode	liq	bi	g	mu	pl	ru	q
0	0.2246	0.1136	0.2583	0.08625	0.004716	0.3126	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 600.2 0.01580 0.1561 0.8773 0.0013240.0001523 0.6910
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8266 0.3823 0.03454 0.007015 0.08023 0.4932
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8632 0.6596 0.1188 0.3476 0.9597 0.7565
ca(pl) k(pl)
0.01701 0.009143

mode	liq	bi	g	mu	pl	ru	q
0	0.2239	0.1140	0.2589	0.08617	0.004719	0.3123	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 600.8 0.01540 0.1560 0.8792 0.0012940.0001574 0.6914
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8272 0.3815 0.03358 0.006886 0.08041 0.4934
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8627 0.6575 0.1185 0.3471 0.9574 0.7547
ca(pl) k(pl)
0.01602 0.008973

mode	liq	bi	g	mu	pl	ru	q
0	0.2231	0.1144	0.2596	0.08609	0.004722	0.3120	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 601.4 0.01502 0.1558 0.8812 0.0012640.0001628 0.6917
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8277 0.3806 0.03263 0.006757 0.08058 0.4936
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8622 0.6553 0.1181 0.3467 0.9549 0.7527
ca(pl) k(pl)
0.01508 0.008795

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mode   liq   bi    g    mu   pl    ru    q
      0 0.2223 0.1149 0.2603 0.08603 0.004726 0.3118
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80  601.9 0.01464 0.1556 0.8832 0.0012340.0001684 0.6920
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8283 0.3798 0.03170 0.006631 0.08074 0.4939
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.8617 0.6530 0.1178 0.3461 0.9523 0.7507
      ca(pl) k(pl)
      0.01420 0.008609

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mode   liq   bi    g    mu   pl    ru    q
      0 0.2214 0.1153 0.2611 0.08597 0.004730 0.3114
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00  602.5 0.01427 0.1555 0.8853 0.0012050.0001744 0.6923
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8289 0.3789 0.03078 0.006506 0.08088 0.4941
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.8612 0.6507 0.1174 0.3456 0.9496 0.7486
      ca(pl) k(pl)
      0.01336 0.008415

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mode   liq   bi    g    mu   pl    ru    q
      0 0.2205 0.1158 0.2619 0.08591 0.004735 0.3111
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20  603.0 0.01391 0.1553 0.8875 0.0011760.0001806 0.6925
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8295 0.3779 0.02988 0.006383 0.08102 0.4943
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.8606 0.6483 0.1171 0.3449 0.9466 0.7463
      ca(pl) k(pl)
      0.01257 0.008213

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```

mode   liq   bi    g    mu   pl    ru    q
      0 0.2196 0.1163 0.2627 0.08587 0.004741 0.3108
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40  603.5 0.01356 0.1551 0.8898 0.0011470.0001873 0.6926
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8300 0.3769 0.02899 0.006262 0.08114 0.4945
      x(g)  z(g)  f(g)  fe(mu) y(mu) na(mu)
      0.8601 0.6458 0.1167 0.3442 0.9435 0.7440
      ca(pl) k(pl)
      0.01183 0.008004

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mode   liq   bi    g    mu   pl    ru    q

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0 0.2186 0.1168 0.2636 0.08583 0.004748 0.3104

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 604.0 0.01321 0.1549 0.8922 0.0011190.0001943 0.6927
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8306 0.3759 0.02812 0.006143 0.08125 0.4947
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8594 0.6431 0.1163 0.3435 0.9402 0.7416
ca(pl) k(pl)
0.01113 0.007788

mode liq bi g mu pl ru q
0 0.2176 0.1173 0.2645 0.08580 0.004756 0.3101

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.80 604.4 0.01287 0.1546 0.8947 0.0010910.0002017 0.6928
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8312 0.3748 0.02726 0.006025 0.08134 0.4949
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8588 0.6403 0.1159 0.3426 0.9366 0.7391
ca(pl) k(pl)
0.01046 0.007564

mode liq bi g mu pl ru q
0 0.2165 0.1179 0.2654 0.08578 0.004765 0.3097

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00 604.8 0.01254 0.1544 0.8972 0.0010630.0002096 0.6927
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8318 0.3736 0.02641 0.005910 0.08142 0.4951
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8581 0.6374 0.1154 0.3417 0.9328 0.7364
ca(pl) k(pl)
0.009833 0.007334

mode liq bi g mu pl ru q
0 0.2154 0.1184 0.2664 0.08577 0.004775 0.3092

calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, g, mu, pl, ru, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 655.5 0.03881 0.1847 0.9177 0.0061660.0004853 0.6228

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7695 0.2954 0.1558 0.04599 0.09396 0.3546
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7468 0.3831 0.07385 0.2719 0.9399 0.4080
ca(pl) k(pl)
0.1741 0.006351

mode liq bi g mu pl ru q H2O
0 0.1767 0.1400 0.1627 0.2072 0.004854 0.2870 0.02148

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 651.6 0.03708 0.1836 0.9184 0.005731 0.0004589 0.6254
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7728 0.2996 0.1447 0.04070 0.09299 0.3659
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7551 0.4055 0.07643 0.2745 0.9460 0.4520
ca(pl) k(pl)
0.1578 0.006520

mode liq bi g mu pl ru q H2O
0 0.1797 0.1404 0.1719 0.1942 0.004844 0.2894 0.01959

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 647.3 0.03539 0.1823 0.9170 0.005281 0.0004255 0.6309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7764 0.3072 0.1330 0.03533 0.09188 0.3792
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7670 0.4325 0.07997 0.2805 0.9533 0.5028
ca(pl) k(pl)
0.1416 0.006832

mode liq bi g mu pl ru q H2O
0 0.1847 0.1389 0.1819 0.1798 0.004813 0.2925 0.01733

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 642.4 0.03374 0.1806 0.9133 0.004821 0.0003841 0.6388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7803 0.3176 0.1213 0.03018 0.09064 0.3939
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7814 0.4635 0.08443 0.2894 0.9605 0.5556
ca(pl) k(pl)
0.1258 0.007302

mode liq bi g mu pl ru q H2O
0 0.1914 0.1358 0.1923 0.1648 0.004769 0.2961 0.01479

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 637.0 0.03213 0.1785 0.9079 0.004366 0.0003386 0.6473
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7845 0.3291 0.1099 0.02567 0.08928 0.4085

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7962 0.4958 0.08938 0.2994 0.9664 0.6037
ca(pl) k(pl)
0.1107 0.007871

mode liq bi g mu pl ru q H2O
0 0.1984 0.1321 0.2024 0.1505 0.004726 0.2997 0.01227

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 631.3 0.03056 0.1762 0.9018 0.0039250.0002940 0.6552
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7889 0.3403 0.09929 0.02193 0.08782 0.4223
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8098 0.5269 0.09435 0.3091 0.9707 0.6436
ca(pl) k(pl)
0.09679 0.008453

mode liq bi g mu pl ru q H2O
0 0.2048 0.1283 0.2117 0.1377 0.004694 0.3028 0.009953

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 625.4 0.02902 0.1736 0.8954 0.0035030.0002524 0.6621
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7935 0.3506 0.08934 0.01882 0.08626 0.4351
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8221 0.5562 0.09924 0.3180 0.9738 0.6764
ca(pl) k(pl)
0.08398 0.008997

mode liq bi g mu pl ru q H2O
0 0.2106 0.1246 0.2200 0.1266 0.004674 0.3056 0.007865

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 618.9 0.02750 0.1707 0.8884 0.0030960.0002138 0.6682
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7985 0.3603 0.07985 0.01616 0.08456 0.4475
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8334 0.5845 0.1042 0.3262 0.9761 0.7041
ca(pl) k(pl)
0.07220 0.009484

mode liq bi g mu pl ru q H2O
0 0.2160 0.1210 0.2277 0.1167 0.004666 0.3080 0.005945

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 611.5 0.02595 0.1671 0.8805 0.0026920.0001765 0.6737
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8040 0.3699 0.07049 0.01375 0.08258 0.4599
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8444 0.6134 0.1094 0.3342 0.9780 0.7290

ca(pl) k(pl)
0.06113 0.009912

mode	liq	bi	g	mu	pl	ru	q	H2O
0	0.2211	0.1173	0.2351	0.1074	0.004669	0.3104	0.004092	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 601.9 0.02426 0.1625 0.8703 0.0022590.0001376 0.6788
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8108 0.3805 0.06048 0.01137 0.08003 0.4738
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8563 0.6464 0.1156 0.3424 0.9797 0.7537
ca(pl) k(pl)
0.05012 0.01029

mode	liq	bi	g	mu	pl	ru	q	H2O
0	0.2266	0.1130	0.2428	0.09799	0.004689	0.3128	0.002123	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, mu, pl, ru, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 659.9 0.04080 0.1855 0.9152 0.0067870.0005043 0.6185
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7659 0.2892 0.1686 0.05056 0.09535 0.3415
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7365 0.3652 0.07066 0.2673 0.9365 0.3757
ca(pl) k(pl)
0.1964 0.006189

mode	liq	bi	g	mu	pl	ru	q	H2O
0.05175	0.1727	0.1422	0.1547	0.1939	0.004868	0.2799	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 656.1 0.03896 0.1847 0.9174 0.0063140.0004815 0.6194
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7692 0.2917 0.1573 0.04533 0.09438 0.3520
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7431 0.3849 0.07279 0.2682 0.9418 0.4154
ca(pl) k(pl)
0.1783 0.006296

mode	liq	bi	g	mu	pl	ru	q	H2O
0.04750	0.1745	0.1434	0.1636	0.1837	0.004871	0.2825	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.60 652.0 0.03718 0.1836 0.9178 0.0058290.0004540 0.6233
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7727 0.2974 0.1455 0.03994 0.09330 0.3645
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7532 0.4086 0.07572 0.2723 0.9485 0.4630
ca(pl) k(pl)
0.1605 0.006514

mode liq bi g mu pl ru q H2O
0.04251 0.1785 0.1428 0.1731 0.1724 0.004851 0.2858 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 647.3 0.03544 0.1822 0.9158 0.0053350.0004185 0.6303
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7764 0.3067 0.1332 0.03448 0.09207 0.3791
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7670 0.4371 0.07972 0.2799 0.9561 0.5170
ca(pl) k(pl)
0.1431 0.006893

mode liq bi g mu pl ru q H2O
0.03675 0.1847 0.1402 0.1834 0.1603 0.004810 0.2899 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 642.1 0.03375 0.1804 0.9114 0.0048420.0003752 0.6393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7805 0.3184 0.1210 0.02938 0.09072 0.3946
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7827 0.4693 0.08460 0.2901 0.9632 0.5708
ca(pl) k(pl)
0.1264 0.007426

mode liq bi g mu pl ru q H2O
0.03066 0.1921 0.1363 0.1940 0.1479 0.004759 0.2943 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 636.6 0.03211 0.1783 0.9058 0.0043660.0003294 0.6482
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7847 0.3305 0.1095 0.02503 0.08929 0.4096
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.7979 0.5017 0.08975 0.3006 0.9686 0.6173
ca(pl) k(pl)
0.1108 0.008028

mode liq bi g mu pl ru q H2O
0.02495 0.1994 0.1321 0.2039 0.1366 0.004715 0.2984 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 630.9 0.03053 0.1760 0.8997 0.0039150.0002859 0.6561
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7892 0.3416 0.09882 0.02146 0.08779 0.4233
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8114 0.5320 0.09479 0.3104 0.9724 0.6547
ca(pl) k(pl)
0.09655 0.008613

mode liq bi g mu pl ru q H2O
0.01993 0.2058 0.1281 0.2129 0.1267 0.004684 0.3019 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 624.9 0.02899 0.1734 0.8934 0.0034890.0002460 0.6629
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7938 0.3518 0.08890 0.01850 0.08621 0.4360
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8234 0.5604 0.09967 0.3191 0.9750 0.6850
ca(pl) k(pl)
0.08364 0.009141

mode liq bi g mu pl ru q H2O
0.01552 0.2114 0.1243 0.2210 0.1182 0.004667 0.3049 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 618.4 0.02746 0.1704 0.8868 0.0030810.0002089 0.6688
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7988 0.3613 0.07947 0.01594 0.08448 0.4482
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8344 0.5879 0.1046 0.3271 0.9770 0.7105
ca(pl) k(pl)
0.07185 0.009603

mode liq bi g mu pl ru q H2O
0.01155 0.2166 0.1207 0.2284 0.1105 0.004661 0.3076 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 611.0 0.02591 0.1669 0.8792 0.0026780.0001732 0.6741
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8043 0.3707 0.07016 0.01361 0.08250 0.4605
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.8452 0.6159 0.1097 0.3348 0.9785 0.7333
ca(pl) k(pl)
0.06082 0.009998

mode liq bi g mu pl ru q H2O
0.007813 0.2216 0.1170 0.2355 0.1033 0.004667 0.3101 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 601.5 0.02423 0.1624 0.8694 0.0022480.0001359 0.6790
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8110 0.3809 0.06024 0.01129 0.07995 0.4742
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.8568 0.6479 0.1159 0.3428 0.9800 0.7560
ca(pl) k(pl)
0.04990 0.01033

mode liq bi g mu pl ru q H2O
0.003954 0.2269 0.1128 0.2430 0.09591 0.004688 0.3127 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ru, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
18.40 490.1 0.3745 0.01836 0.005124 0.07679 0.5698 0.2123
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2094 0.9019 0.6607 0.1197 0.3023 0.9785
na(mu) ca(pl) k(pl)
0.7553 0.005079 0.006095

mode bi ep g mu pl ru q
0.2248 0 0.1148 0.2573 0.08551 0.004813 0.3128

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
18.60 502.4 0.3749 0.01921 0.005199 0.07747 0.5612 0.2118
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2086 0.8976 0.6594 0.1194 0.3075 0.9753
na(mu) ca(pl) k(pl)
0.7544 0.005454 0.006317

mode bi ep g mu pl ru q
0.2243 0 0.1150 0.2579 0.08548 0.004798 0.3126

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
18.80 515.4 0.3751 0.02014 0.005284 0.07814 0.5521 0.2114
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2079 0.8930 0.6578 0.1191 0.3128 0.9716
na(mu) ca(pl) k(pl)
0.7532 0.005896 0.006538

mode bi ep g mu pl ru q
0.2236 0 0.1152 0.2586 0.08547 0.004785 0.3124

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
19.00 529.5 0.3753 0.02118 0.005382 0.07880 0.5425 0.2112
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2074 0.8878 0.6557 0.1187 0.3182 0.9672

na(mu) ca(pl) k(pl)
0.7517 0.006428 0.006757

mode	bi	ep	g	mu	pl	ru	q
	0.2228	0	0.1155	0.2594	0.08547	0.004774	0.3120

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
19.20 545.0 0.3755 0.02236 0.005500 0.07944 0.5322 0.2111
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2069 0.8820 0.6532 0.1182 0.3239 0.9619
na(mu) ca(pl) k(pl)
0.7497 0.007087 0.006974

mode	bi	ep	g	mu	pl	ru	q
	0.2218	0	0.1159	0.2604	0.08549	0.004766	0.3117

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
19.40 562.5 0.3754 0.02375 0.005644 0.08009 0.5209 0.2112
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2065 0.8754 0.6500 0.1176 0.3299 0.9553
na(mu) ca(pl) k(pl)
0.7471 0.007936 0.007189

mode	bi	ep	g	mu	pl	ru	q
	0.2205	0	0.1164	0.2617	0.08555	0.004760	0.3112

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
19.60 582.9 0.3753 0.02546 0.005828 0.08074 0.5080 0.2116
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2063 0.8674 0.6457 0.1168 0.3364 0.9468
na(mu) ca(pl) k(pl)
0.7436 0.009098 0.007404

mode	bi	ep	g	mu	pl	ru	q
	0.2187	0	0.1170	0.2634	0.08564	0.004759	0.3105

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
19.80 608.5 0.3749 0.02776 0.006086 0.08143 0.4924 0.2124
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2063 0.8572 0.6397 0.1157 0.3439 0.9352
na(mu) ca(pl) k(pl)
0.7386 0.01087 0.007631

mode	bi	ep	g	mu	pl	ru	q
	0.2163	0	0.1179	0.2657	0.08582	0.004765	0.3096

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, ep, g, mu, pl, ru, (q)

```
-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
8.80    652.7  0.07632  0.1681  0.8737  0.0073250.0005711  0.6911
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7440  0.4012  0.3212  0.1121  0.08335  0.2465
      f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
      0.4070  0.3545  0.7787  0.08186  0.01346  0.3724
      y(mu)  na(mu)  ca(pl)  k(pl)  liq  bi
      0.9866  0.4896  0.4051  0.003769  0.07131  0.2571

mode  liq  bi  ep  g  mu  pl  ru  q
      0.07131  0.2571  0  0.03898  0.04764  0.2950  0.004175  0.2858
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```

```
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
9.00    657.9  0.07543  0.1714  0.8714  0.0076060.0005927  0.6891
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7413  0.3937  0.3197  0.1138  0.08533  0.2454
      f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
      0.4085  0.3543  0.7724  0.08320  0.01417  0.3679
      y(mu)  na(mu)  ca(pl)  k(pl)  liq  bi
      0.9783  0.3933  0.4004  0.004049  0.07404  0.2512

mode  liq  bi  ep  g  mu  pl  ru  q
      0.07404  0.2512  0  0.04393  0.04692  0.2963  0.004174  0.2834
-----
```

```
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
9.20    663.5  0.07478  0.1747  0.8671  0.0079530.0006186  0.6890
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7382  0.3890  0.3191  0.1147  0.08746  0.2435
      f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
      0.4097  0.3540  0.7678  0.08551  0.01504  0.3657
      y(mu)  na(mu)  ca(pl)  k(pl)  liq  bi
      0.9717  0.3382  0.3976  0.004393  0.07614  0.2475

mode  liq  bi  ep  g  mu  pl  ru  q
      0.07614  0.2475  0  0.04721  0.04659  0.2965  0.004146  0.2819
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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
9.40    669.4  0.07426  0.1781  0.8620  0.0083350.0006478  0.6894
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7348  0.3852  0.3186  0.1154  0.08968  0.2416
      f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
      0.4108  0.3536  0.7639  0.08834  0.01604  0.3644
      y(mu)  na(mu)  ca(pl)  k(pl)  liq  bi
      0.9658  0.2981  0.3954  0.004781  0.07804  0.2444

mode  liq  bi  ep  g  mu  pl  ru  q
      0.07804  0.2444  0  0.04998  0.04651  0.2963  0.004110  0.2807
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P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
9.60	675.3	0.07382	0.1816	0.8565	0.0087450	0.0006797	0.6901		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7314	0.3817	0.3178	0.1158	0.09195	0.2398			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.4120	0.3531	0.7602	0.09159	0.01716	0.3634			
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi			
	0.9604	0.2666	0.3934	0.005209	0.07984	0.2415			
mode	liq	bi	ep	g	mu	pl	ru	q	
	0.07984	0.2415	0	0.05255	0.04663	0.2958	0.004070	0.2796	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
9.80	681.3	0.07344	0.1850	0.8506	0.0091780	0.0007139	0.6908		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7278	0.3783	0.3167	0.1161	0.09427	0.2381			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.4130	0.3526	0.7567	0.09521	0.01841	0.3625			
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi			
	0.9552	0.2409	0.3916	0.005674	0.08159	0.2388			
mode	liq	bi	ep	g	mu	pl	ru	q	
	0.08159	0.2388	0	0.05505	0.04692	0.2951	0.004030	0.2785	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
10.00	687.2	0.07311	0.1885	0.8444	0.0096310	0.0007499	0.6915		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7241	0.3751	0.3155	0.1163	0.09662	0.2366			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.4141	0.3521	0.7532	0.09920	0.01977	0.3616			
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi			
	0.9503	0.2194	0.3897	0.006178	0.08331	0.2361			
mode	liq	bi	ep	g	mu	pl	ru	q	
	0.08331	0.2361	0	0.05755	0.04738	0.2942	0.003990	0.2775	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
10.20	693.1	0.07282	0.1919	0.8381	0.010100	0.0007876	0.6921		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7205	0.3718	0.3139	0.1163	0.09899	0.2353			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.4150	0.3515	0.7499	0.1036	0.02128	0.3607			
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi			
	0.9456	0.2011	0.3878	0.006719	0.08500	0.2334			
mode	liq	bi	ep	g	mu	pl	ru	q	
	0.08500	0.2334	0	0.06011	0.04800	0.2931	0.003952	0.2765	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
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10.40 698.9 0.07254 0.1954 0.8317 0.010590.0008263 0.6925
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7168 0.3684 0.3122 0.1163 0.1014 0.2341
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.4157 0.3508 0.7465 0.1083 0.02291 0.3596
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9411 0.1854 0.3857 0.007297 0.08668 0.2306

mode liq bi ep g mu pl ru q
 0.08668 0.2306 0 0.06276 0.04878 0.2919 0.003916 0.2754

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.60 704.6 0.07228 0.1987 0.8253 0.011080.0008658 0.6928
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7132 0.3649 0.3102 0.1161 0.1038 0.2332
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.4163 0.3501 0.7431 0.1134 0.02469 0.3583
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9367 0.1718 0.3834 0.007910 0.08832 0.2276

mode liq bi ep g mu pl ru q
 0.08832 0.2276 0 0.06554 0.04973 0.2905 0.003883 0.2744

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.80 710.1 0.07201 0.2020 0.8189 0.011590.0009054 0.6929
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7097 0.3613 0.3081 0.1157 0.1061 0.2324
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.4166 0.3493 0.7396 0.1189 0.02661 0.3568
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9325 0.1601 0.3808 0.008555 0.08993 0.2246

mode liq bi ep g mu pl ru q
 0.08993 0.2246 0 0.06848 0.05086 0.2890 0.003854 0.2733

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.00 715.4 0.07172 0.2052 0.8128 0.012090.0009447 0.6927
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7063 0.3575 0.3058 0.1151 0.1085 0.2319
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.4166 0.3484 0.7361 0.1249 0.02868 0.3550
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9283 0.1498 0.3780 0.009229 0.09148 0.2214

mode liq bi ep g mu pl ru q
 0.09148 0.2214 0 0.07158 0.05220 0.2873 0.003831 0.2723

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.20 720.5 0.07139 0.2083 0.8069 0.012590.0009830 0.6922
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7030 0.3535 0.3032 0.1144 0.1108 0.2315
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.4163 0.3474 0.7326 0.1312 0.03087 0.3529
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9243 0.1409 0.3748 0.009927 0.09296 0.2180

mode liq bi ep g mu pl ru q
0.09296 0.2180 0 0.07489 0.05375 0.2854 0.003813 0.2712

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 725.3 0.07102 0.2112 0.8015 0.01309 0.001020 0.6914
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7000 0.3492 0.3005 0.1134 0.1130 0.2314
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.4155 0.3463 0.7289 0.1380 0.03319 0.3505
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9203 0.1333 0.3712 0.01064 0.09433 0.2144

mode liq bi ep g mu pl ru q
0.09433 0.2144 0 0.07841 0.05556 0.2833 0.003801 0.2702

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 729.8 0.07057 0.2140 0.7967 0.01356 0.001054 0.6903
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6972 0.3448 0.2976 0.1121 0.1152 0.2315
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.4142 0.3450 0.7252 0.1453 0.03562 0.3477
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9165 0.1267 0.3671 0.01136 0.09558 0.2107

mode liq bi ep g mu pl ru q
0.09558 0.2107 0 0.08215 0.05763 0.2810 0.003797 0.2691

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 734.0 0.07004 0.2166 0.7926 0.01400 0.001085 0.6888
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6948 0.3401 0.2945 0.1106 0.1173 0.2319
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.4123 0.3436 0.7213 0.1530 0.03812 0.3445
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9126 0.1210 0.3625 0.01209 0.09666 0.2068

mode liq bi ep g mu pl ru q
0.09666 0.2068 0 0.08613 0.05999 0.2785 0.003800 0.2681

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 737.8 0.06941 0.2190 0.7894 0.01441 0.001112 0.6870
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6927 0.3353 0.2912 0.1088 0.1193 0.2325
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.4098 0.3419 0.7174 0.1610 0.04065 0.3409
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9089 0.1163 0.3573 0.01280 0.09756 0.2027

mode liq bi ep g mu pl ru q
0.09756 0.2027 0 0.09035 0.06267 0.2758 0.003811 0.2671

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 741.2 0.06866 0.2212 0.7872 0.01477 0.001136 0.6848
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6910 0.3302 0.2877 0.1066 0.1211 0.2334
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.4067 0.3400 0.7133 0.1695 0.04317 0.3369
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9051 0.1123 0.3515 0.01348 0.09824 0.1984

mode liq bi ep g mu pl ru q
0.09824 0.1984 0 0.09481 0.06568 0.2729 0.003831 0.2662

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 744.1 0.06779 0.2232 0.7861 0.01508 0.001154 0.6823
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6897 0.3249 0.2840 0.1042 0.1228 0.2345
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.4029 0.3379 0.7092 0.1782 0.04563 0.3325
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9014 0.1091 0.3450 0.01414 0.09868 0.1940

mode liq bi ep g mu pl ru q
0.09868 0.1940 0 0.09949 0.06902 0.2697 0.003859 0.2653

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 746.7 0.06679 0.2249 0.7862 0.01532 0.001168 0.6794
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6888 0.3195 0.2800 0.1015 0.1244 0.2359
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3985 0.3355 0.7050 0.1871 0.04798 0.3278
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8977 0.1066 0.3379 0.01475 0.09889 0.1894

mode liq bi ep g mu pl ru q
0.09889 0.1894 0 0.1044 0.07269 0.2663 0.003894 0.2644

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 748.8 0.06566 0.2265 0.7875 0.01550 0.001177 0.6762
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6884 0.3140 0.2759 0.09850 0.1258 0.2375
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3935 0.3328 0.7007 0.1961 0.05017 0.3228
y(mu) na(mu) ca(pl) k(pl) liq bi

0.8940 0.1046 0.3300 0.01531 0.09884 0.1847

mode	liq	bi	ep	g	mu	pl	ru	q
	0.09884	0.1847	0	0.1094	0.07668	0.2626	0.003938	0.2637

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 750.4 0.06441 0.2278 0.7900 0.01561 0.001181 0.6727
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6884 0.3084 0.2715 0.09535 0.1271 0.2392
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3880 0.3298 0.6963 0.2052 0.05216 0.3175
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8902 0.1033 0.3215 0.01582 0.09856 0.1800

mode	liq	bi	ep	g	mu	pl	ru	q
	0.09856	0.1800	0	0.1147	0.08096	0.2588	0.003988	0.2630

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 751.7 0.06305 0.2290 0.7937 0.01565 0.001180 0.6689
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6887 0.3027 0.2669 0.09207 0.1282 0.2411
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3820 0.3266 0.6919 0.2142 0.05391 0.3120
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8865 0.1025 0.3123 0.01627 0.09804 0.1752

mode	liq	bi	ep	g	mu	pl	ru	q
	0.09804	0.1752	0	0.1200	0.08550	0.2548	0.004044	0.2624

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 752.6 0.06159 0.2300 0.7984 0.01561 0.001176 0.6649
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6894 0.2970 0.2621 0.08870 0.1291 0.2431
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3757 0.3231 0.6875 0.2230 0.05541 0.3064
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8828 0.1022 0.3024 0.01666 0.09732 0.1704

mode	liq	bi	ep	g	mu	pl	ru	q
	0.09732	0.1704	0	0.1254	0.09027	0.2506	0.004106	0.2619

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 753.1 0.06004 0.2308 0.8040 0.01550 0.001167 0.6607
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6904 0.2914 0.2570 0.08531 0.1299 0.2452
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3692 0.3194 0.6831 0.2317 0.05667 0.3006
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8791 0.1023 0.2919 0.01698 0.09641 0.1656

mode	liq	bi	ep	g	mu	pl	ru	q
	0.09641	0.1656	0	0.1309	0.09521	0.2462	0.004172	0.2614

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	753.3	0.05842	0.2315	0.8105	0.01531	0.001155	0.6564
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6916	0.2859	0.2517	0.08194	0.1305	0.2473	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3625	0.3155	0.6787	0.2400	0.05768	0.2948	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.8753	0.1029	0.2808	0.01724	0.09534	0.1609	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.09534	0.1609	0	0.1364	0.1003	0.2418	0.004241	0.2611

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	753.2	0.05673	0.2321	0.8176	0.01506	0.001140	0.6520
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6932	0.2804	0.2463	0.07864	0.1309	0.2495	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3558	0.3115	0.6743	0.2479	0.05847	0.2890	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.8716	0.1038	0.2692	0.01743	0.09413	0.1562	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.09413	0.1562	0	0.1418	0.1055	0.2373	0.004314	0.2607

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.20	752.7	0.05501	0.2326	0.8252	0.01475	0.001123	0.6476
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6949	0.2751	0.2406	0.07544	0.1312	0.2516	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3493	0.3075	0.6701	0.2555	0.05906	0.2833	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.8679	0.1052	0.2572	0.01756	0.09281	0.1516	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.09281	0.1516	0	0.1472	0.1107	0.2328	0.004388	0.2605

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.40	752.0	0.05325	0.2329	0.8331	0.01438	0.001104	0.6431
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6969	0.2700	0.2347	0.07236	0.1314	0.2538	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.3428	0.3035	0.6659	0.2626	0.05947	0.2777	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.8641	0.1069	0.2448	0.01761	0.09138	0.1472	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.09138	0.1472	0	0.1524	0.1159	0.2284	0.004463	0.2602

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
14.60	751.0	0.05148	0.2331	0.8413	0.01396	0.001084	0.6386	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6991	0.2651	0.2286	0.06944	0.1314	0.2561		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.3367	0.2995	0.6620	0.2693	0.05974	0.2722		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.8604	0.1090	0.2322	0.01759	0.08987	0.1429		
mode	liq	bi	ep	g	mu	pl	ru	q
	0.08987	0.1429	0	0.1575	0.1212	0.2240	0.004539	0.2601

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
14.80	749.7	0.04970	0.2332	0.8495	0.01349	0.001063	0.6341	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7014	0.2605	0.2224	0.06666	0.1312	0.2583		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.3308	0.2957	0.6582	0.2756	0.05990	0.2668		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.8567	0.1114	0.2195	0.01750	0.08829	0.1388		
mode	liq	bi	ep	g	mu	pl	ru	q
	0.08829	0.1388	0	0.1623	0.1263	0.2197	0.004614	0.2600

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
15.00	748.2	0.04792	0.2331	0.8577	0.01298	0.001041	0.6298	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7039	0.2560	0.2160	0.06404	0.1310	0.2606		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.3253	0.2920	0.6547	0.2814	0.05997	0.2617		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.8529	0.1142	0.2067	0.01733	0.08666	0.1349		
mode	liq	bi	ep	g	mu	pl	ru	q
	0.08666	0.1349	0	0.1670	0.1314	0.2155	0.004688	0.2599

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
15.20	746.4	0.04616	0.2329	0.8658	0.01245	0.001019	0.6255	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7065	0.2519	0.2094	0.06158	0.1305	0.2629		
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)		
	0.3201	0.2885	0.6514	0.2869	0.05997	0.2568		
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi		
	0.8492	0.1173	0.1941	0.01709	0.08498	0.1312		
mode	liq	bi	ep	g	mu	pl	ru	q
	0.08498	0.1312	0	0.1714	0.1364	0.2115	0.004761	0.2598

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
---------	-------	------	--------	-------	-------	-------	------	--

15.40 744.4 0.04442 0.2325 0.8736 0.011890.0009977 0.6214
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7093 0.2479 0.2027 0.05926 0.1300 0.2653
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3153 0.2852 0.6483 0.2919 0.05994 0.2520
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8455 0.1207 0.1816 0.01678 0.08327 0.1277

mode liq bi ep g mu pl ru q
 0.08327 0.1277 0 0.1755 0.1413 0.2076 0.004831 0.2598

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 742.2 0.04271 0.2320 0.8812 0.011320.0009763 0.6173
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7123 0.2443 0.1959 0.05708 0.1293 0.2678
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3109 0.2822 0.6456 0.2965 0.05987 0.2476
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8417 0.1245 0.1693 0.01640 0.08152 0.1244

mode liq bi ep g mu pl ru q
 0.08152 0.1244 0 0.1793 0.1461 0.2039 0.004900 0.2598

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 739.8 0.04104 0.2313 0.8884 0.010740.0009552 0.6135
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7153 0.2409 0.1890 0.05503 0.1285 0.2703
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3069 0.2795 0.6432 0.3008 0.05980 0.2433
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8380 0.1287 0.1574 0.01595 0.07976 0.1214

mode liq bi ep g mu pl ru q
 0.07976 0.1214 0 0.1829 0.1507 0.2005 0.004965 0.2598

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 737.2 0.03939 0.2304 0.8953 0.010170.0009347 0.6097
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7185 0.2378 0.1821 0.05308 0.1276 0.2730
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3033 0.2770 0.6411 0.3048 0.05973 0.2393
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.8343 0.1332 0.1460 0.01545 0.07797 0.1186

mode liq bi ep g mu pl ru q
 0.07797 0.1186 0 0.1861 0.1552 0.1972 0.005028 0.2599

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 734.3 0.03780 0.2293 0.9018 0.0095890.0009149 0.6061
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7219 0.2350 0.1751 0.05124 0.1266 0.2757
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3001 0.2747 0.6393 0.3085 0.05967 0.2355
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8306 0.1381 0.1350 0.01489 0.07616 0.1160

mode liq bi ep g mu pl ru q
0.07616 0.1160 0 0.1891 0.1596 0.1941 0.005089 0.2599

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 731.3 0.03624 0.2280 0.9079 0.0090220.0008957 0.6026
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7254 0.2324 0.1680 0.04948 0.1255 0.2785
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2972 0.2727 0.6379 0.3120 0.05962 0.2319
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8269 0.1434 0.1245 0.01428 0.07434 0.1137

mode liq bi ep g mu pl ru q
0.07434 0.1137 0 0.1918 0.1638 0.1912 0.005146 0.2600

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 728.1 0.03472 0.2266 0.9137 0.0084660.0008771 0.5993
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7289 0.2300 0.1610 0.04779 0.1242 0.2814
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2946 0.2710 0.6368 0.3153 0.05960 0.2285
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8232 0.1491 0.1145 0.01364 0.07250 0.1116

mode liq bi ep g mu pl ru q
0.07250 0.1116 0 0.1942 0.1680 0.1885 0.005200 0.2601

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 724.8 0.03325 0.2250 0.9190 0.0079250.0008593 0.5961
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7327 0.2279 0.1539 0.04615 0.1229 0.2845
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2923 0.2694 0.6360 0.3185 0.05961 0.2253
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8196 0.1553 0.1051 0.01297 0.07064 0.1096

mode liq bi ep g mu pl ru q
0.07064 0.1096 0 0.1963 0.1720 0.1859 0.005251 0.2603

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 721.2 0.03182 0.2232 0.9241 0.0074010.0008421 0.5930
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7365 0.2260 0.1469 0.04456 0.1215 0.2877
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2902 0.2681 0.6356 0.3215 0.05965 0.2223
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8160 0.1621 0.09621 0.01228 0.06875 0.1080

mode liq bi ep g mu pl ru q
0.06875 0.1080 0 0.1981 0.1760 0.1834 0.005299 0.2605

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 717.5 0.03043 0.2212 0.9288 0.0068940.0008256 0.5901
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7404 0.2244 0.1399 0.04301 0.1201 0.2910
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2884 0.2669 0.6356 0.3244 0.05972 0.2195
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8126 0.1694 0.08786 0.01157 0.06683 0.1065

mode liq bi ep g mu pl ru q
0.06683 0.1065 0 0.1997 0.1799 0.1811 0.005344 0.2607

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 713.6 0.02909 0.2190 0.9331 0.0064060.0008096 0.5873
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7445 0.2230 0.1329 0.04147 0.1185 0.2945
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2868 0.2659 0.6360 0.3274 0.05984 0.2169
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8092 0.1775 0.08003 0.01086 0.06488 0.1053

mode liq bi ep g mu pl ru q
0.06488 0.1053 0 0.2010 0.1837 0.1788 0.005386 0.2609

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 709.5 0.02777 0.2166 0.9372 0.0059360.0007942 0.5847
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7487 0.2218 0.1259 0.03993 0.1168 0.2983
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2853 0.2650 0.6368 0.3304 0.06001 0.2145
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8061 0.1864 0.07269 0.01015 0.06287 0.1044

mode liq bi ep g mu pl ru q
0.06287 0.1044 0 0.2020 0.1875 0.1766 0.005425 0.2612

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 705.1 0.02649 0.2140 0.9411 0.0054840.0007792 0.5823
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7531 0.2209 0.1189 0.03838 0.1151 0.3023
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2840 0.2643 0.6382 0.3335 0.06024 0.2124
y(mu) na(mu) ca(pl) k(pl) liq bi

0.8031 0.1964 0.06582 0.009436 0.06080 0.1037

mode liq bi ep g mu pl ru q
0.06080 0.1037 0 0.2027 0.1914 0.1744 0.005460 0.2616

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 700.5 0.02524 0.2112 0.9446 0.0050490.0007646 0.5802
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7576 0.2204 0.1120 0.03680 0.1132 0.3067
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2829 0.2637 0.6402 0.3368 0.06054 0.2105
y(mu) na(mu) ca(pl) k(pl) liq bi
0.8005 0.2077 0.05939 0.008735 0.05863 0.1034

mode liq bi ep g mu pl ru q
0.05863 0.1034 0 0.2030 0.1952 0.1721 0.005491 0.2621

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 695.6 0.02402 0.2082 0.9479 0.0046280.0007502 0.5783
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7623 0.2203 0.1050 0.03517 0.1113 0.3116
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2817 0.2631 0.6429 0.3405 0.06093 0.2089
y(mu) na(mu) ca(pl) k(pl) liq bi
0.7984 0.2208 0.05335 0.008045 0.05633 0.1035

mode liq bi ep g mu pl ru q
0.05633 0.1035 0 0.2030 0.1992 0.1698 0.005517 0.2627

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 690.2 0.02281 0.2049 0.9511 0.0042190.0007357 0.5768
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7673 0.2207 0.09788 0.03343 0.1091 0.3173
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2806 0.2625 0.6467 0.3448 0.06146 0.2077
y(mu) na(mu) ca(pl) k(pl) liq bi
0.7970 0.2363 0.04766 0.007367 0.05382 0.1042

mode liq bi ep g mu pl ru q
0.05382 0.1042 0 0.2025 0.2033 0.1672 0.005538 0.2635

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 684.3 0.02159 0.2012 0.9539 0.0038140.0007206 0.5760
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7726 0.2220 0.09054 0.03154 0.1068 0.3242
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2794 0.2619 0.6522 0.3501 0.06218 0.2072
y(mu) na(mu) ca(pl) k(pl) liq bi
0.7968 0.2555 0.04224 0.006702 0.05100 0.1057

mode	liq	bi	ep	g	mu	pl	ru	q
	0.05100	0.1057	0	0.2013	0.2076	0.1642	0.005550	0.2646

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.80	677.4	0.02035	0.1969	0.9566	0.0034030	0.0007040	0.5764
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7786	0.2247	0.08267	0.02933	0.1041	0.3332	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2777	0.2610	0.6604	0.3576	0.06327	0.2079	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.7989	0.2815	0.03697	0.006043	0.04759	0.1087	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.04759	0.1087	0	0.1990	0.2125	0.1604	0.005548	0.2662

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.00	668.4	0.01899	0.1914	0.9588	0.0029460	0.0006814	0.5802
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7860	0.2314	0.07329	0.02632	0.1006	0.3479	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2749	0.2592	0.6755	0.3706	0.06533	0.2118	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.8068	0.3239	0.03145	0.005379	0.04270	0.1154	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.04270	0.1154	0	0.1939	0.2186	0.1545	0.005513	0.2693

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.20	642.2	0.01642	0.1761	0.9461	0.0019880	0.0005199	0.6371
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8050	0.2965	0.04933	0.01482	0.09150	0.4271	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2494	0.2386	0.7723	0.4737	0.08344	0.2700	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.8871	0.5560	0.02105	0.005682	0.02063	0.1680	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.02063	0.1680	0	0.1557	0.2390	0.1213	0.005041	0.2905

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.40	631.4	0.01530	0.1697	0.9313	0.0016760	0.0004025	0.6636
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8129	0.3290	0.04110	0.01091	0.08851	0.4559	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2354	0.2265	0.8100	0.5333	0.09476	0.3012	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9128	0.6401	0.01716	0.006536	0.01190	0.1893	

mode	liq	bi	ep	g	mu	pl	ru	q
	0.01190	0.1893	0	0.1396	0.2487	0.1067	0.004868	0.2989

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-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.60    620.3  0.01421  0.1634  0.9162  0.0014040.0003042  0.6798
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.8207  0.3520  0.03451  0.008362  0.08554  0.4752
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2244  0.2169  0.8349  0.5829  0.1044  0.3227
        y(mu)  na(mu)  ca(pl)  k(pl)  liq  bi
        0.9262  0.6924  0.01391  0.007124  0.005848  0.2033

```

```

mode  liq  bi  ep  g  mu  pl  ru  q
      0.005848  0.2033  0  0.1286  0.2567  0.09632  0.004790  0.3044

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, ep, g, mu, pl, ru, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.77    604.3  0.01292  0.1547  0.8943  0.0010940.0002006  0.6928
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.8311  0.3749  0.02738  0.006042  0.08133  0.4949
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2123  0.2062  0.8589  0.6407  0.1159  0.3428
        y(mu)  na(mu)  ca(pl)  k(pl)  liq  bi
        0.9372  0.7394  0.01055  0.007597  0  0.2167

```

```

mode  liq  bi  ep  g  mu  pl  ru  q
      0  0.2167  0  0.1178  0.2653  0.08578  0.004763  0.3097

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
15.81    739.7  0.04096  0.2312  0.8887  0.010720.0009543  0.6133
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7155  0.2408  0.1887  0.05494  0.1285  0.2704
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.3068  0.2794  0.6431  0.3010  0.05980  0.2431
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.8378  0.1289  0.1569  0.01593  0.3875  4.151e-5

```

```

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.07968  0.1213  0  0.1830  0.1509  0.2003  0  0.004968  0.2598

```

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
10.00	645.6	0.06357	0.1625	0.8823	0.0080550	0.0005546	0.6654				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7637	0.3727	0.2839	0.03757	0.08551	0.3036					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2355	0.2263	0.7758	0.1550	0.008917	0.3363					
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)					
	0.9752	0.4350	0.3995	0.003491	0.7577	0.6631					
mode	liq	bi	ep	g	mu	pl	ilm	ru	q		
	0.06269	0.2357	0	0.04112	0.07662	0.2855	0.012390	0.0001689	0.2858		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
10.20	650.3	0.06271	0.1657	0.8813	0.0082770	0.0005739	0.6633				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7610	0.3658	0.2825	0.03909	0.08741	0.3016					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2400	0.2302	0.7695	0.1566	0.009570	0.3318					
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)					
	0.9659	0.3690	0.3913	0.003755	0.7252	0.6152					
mode	liq	bi	ep	g	mu	pl	ilm	ru	q		
	0.06535	0.2296	0	0.04878	0.07573	0.2858	0.010900	0.0008931	0.2830		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
10.40	655.4	0.06202	0.1690	0.8787	0.0085540	0.0005955	0.6627				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7581	0.3609	0.2816	0.04026	0.08943	0.2992					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2437	0.2333	0.7647	0.1598	0.01036	0.3292					
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)					
	0.9576	0.3225	0.3849	0.004073	0.6881	0.5570					
mode	liq	bi	ep	g	mu	pl	ilm	ru	q		
	0.06751	0.2249	0	0.05493	0.07533	0.2853	0.009607	0.001501	0.2809		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
10.60	660.4	0.06133	0.1725	0.8747	0.0087970	0.0006193	0.6651				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7551	0.3600	0.2794	0.04090	0.09136	0.2980					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					

0.2471 0.2360 0.7637 0.1656 0.01141 0.3304
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9490 0.2829 0.3768 0.004490 0.4928 0.001652

mode liq bi ep g mu pl ilm ru q
0.06961 0.2212 0 0.06319 0.07465 0.2836 0.006304 0.003109 0.2784

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 665.7 0.06082 0.1757 0.8714 0.0091400.0006431 0.6643
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7521 0.3550 0.2783 0.04163 0.09350 0.2957
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2493 0.2377 0.7590 0.1702 0.01234 0.3277
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9426 0.2574 0.3724 0.004853 0.48960.0007275

mode liq bi ep g mu pl ilm ru q
0.07113 0.2175 0 0.06705 0.07546 0.2824 0.006196 0.003122 0.2772

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 670.9 0.06034 0.1788 0.8679 0.0094960.0006678 0.6637
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7491 0.3502 0.2770 0.04234 0.09567 0.2935
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2516 0.2394 0.7544 0.1752 0.01338 0.3252
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9365 0.2361 0.3680 0.005247 0.48670.0004698

mode liq bi ep g mu pl ilm ru q
0.07256 0.2139 0 0.07085 0.07648 0.2809 0.006083 0.003136 0.2761

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 676.2 0.05989 0.1820 0.8643 0.0098600.0006932 0.6631
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7460 0.3456 0.2755 0.04304 0.09786 0.2914
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2539 0.2412 0.7499 0.1805 0.01454 0.3228
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9307 0.2180 0.3635 0.005672 0.48380.0003476

mode liq bi ep g mu pl ilm ru q
0.07393 0.2104 0 0.07467 0.07769 0.2791 0.005961 0.003151 0.2751

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 681.4 0.05946 0.1851 0.8607 0.010230.0007190 0.6624
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7428 0.3410 0.2737 0.04373 0.1001 0.2893
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2563 0.2429 0.7455 0.1861 0.01580 0.3204
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9252 0.2026 0.3588 0.006127 0.48090.0002758

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07525	0.2068	0	0.07855	0.07909	0.2772	0.005829	0.003170	0.2741

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	686.6	0.05903	0.1883	0.8572	0.010600	0.0007449	0.6616
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7397	0.3364	0.2718	0.04443	0.1022	0.2874	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2587	0.2447	0.7410	0.1919	0.01719	0.3179	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9200	0.1893	0.3538	0.006611	0.47800	0.002278	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07651	0.2033	0	0.08254	0.08068	0.2750	0.005686	0.003193	0.2732

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	691.6	0.05860	0.1914	0.8540	0.010960	0.0007705	0.6607
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7367	0.3317	0.2696	0.04512	0.1044	0.2855	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2612	0.2466	0.7364	0.1980	0.01868	0.3152	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9149	0.1778	0.3485	0.007122	0.47490	0.001936	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07771	0.1997	0	0.08665	0.08246	0.2725	0.005530	0.003222	0.2722

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	696.5	0.05815	0.1944	0.8509	0.011310	0.0007956	0.6597
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7337	0.3269	0.2673	0.04582	0.1066	0.2836	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2637	0.2484	0.7318	0.2041	0.02029	0.3125	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9101	0.1679	0.3428	0.007659	0.47170	0.001678	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07885	0.1960	0	0.09091	0.08443	0.2699	0.005360	0.003258	0.2713

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	701.2	0.05769	0.1975	0.8482	0.011650	0.0008199	0.6584
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7308	0.3221	0.2648	0.04652	0.1087	0.2819	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2662	0.2502	0.7271	0.2104	0.02201	0.3095	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9055	0.1593	0.3367	0.008221	0.46830	0.001476	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07993	0.1922	0	0.09533	0.08660	0.2671	0.005175	0.003300	0.2704

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	705.7	0.05720	0.2004	0.8459	0.011970	0.0008430	0.6570
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7280	0.3172	0.2621	0.04721	0.1107	0.2802	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2687	0.2520	0.7223	0.2167	0.02383	0.3065	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9010	0.1518	0.3301	0.008803	0.46480	0.0001314	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08093	0.1883	0	0.09990	0.08896	0.2640	0.004974	0.003350	0.2695

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.60	710.1	0.05668	0.2033	0.8441	0.012270	0.0008648	0.6554
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7253	0.3123	0.2592	0.04791	0.1128	0.2786	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2712	0.2538	0.7173	0.2230	0.02575	0.3032	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.8967	0.1454	0.3230	0.009402	0.46100	0.0001180	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08184	0.1844	0	0.1046	0.09151	0.2608	0.004756	0.003407	0.2686

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	714.2	0.05611	0.2061	0.8427	0.012530	0.0008850	0.6536
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7228	0.3073	0.2562	0.04860	0.1147	0.2771	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2737	0.2556	0.7123	0.2292	0.02776	0.2998	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.8925	0.1400	0.3154	0.01002	0.45710	0.0001068	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08267	0.1804	0	0.1095	0.09426	0.2574	0.004523	0.003472	0.2678

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	718.1	0.05550	0.2089	0.8419	0.012760	0.0009034	0.6516
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7205	0.3022	0.2530	0.04928	0.1165	0.2756	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2762	0.2573	0.7072	0.2354	0.02984	0.2962	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.8885	0.1353	0.3073	0.01064	0.4530	9.736e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08339	0.1763	0	0.1145	0.09720	0.2538	0.004273	0.003545	0.2670

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
13.20	721.7	0.05483	0.2115	0.8417	0.012950	0.0009199	0.6494			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7184	0.2971	0.2496	0.04995	0.1183	0.2743				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2787	0.2591	0.7020	0.2415	0.03199	0.2925				
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)				
	0.8846	0.1314	0.2986	0.01126	0.4488	8.924e-5				

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	
	0.08399	0.1721	0	0.1196	0.1003	0.2501	0.004007	0.003625	0.2662	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
13.40	725.0	0.05411	0.2140	0.8422	0.013100	0.0009343	0.6470			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7165	0.2921	0.2461	0.05059	0.1199	0.2730				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2811	0.2608	0.6968	0.2474	0.03419	0.2887				
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)				
	0.8808	0.1282	0.2895	0.01188	0.4444	8.224e-5				

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	
	0.08447	0.1679	0	0.1249	0.1036	0.2463	0.003728	0.003711	0.2655	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
13.60	728.1	0.05332	0.2163	0.8433	0.013190	0.0009466	0.6446			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7149	0.2870	0.2424	0.05122	0.1215	0.2718				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2835	0.2625	0.6916	0.2532	0.03643	0.2849				
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)				
	0.8771	0.1257	0.2799	0.01249	0.4398	7.614e-5				

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	
	0.08483	0.1636	0	0.1301	0.1071	0.2423	0.003436	0.003804	0.2648	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
14.00	733.2	0.05156	0.2207	0.8474	0.013210	0.0009646	0.6392			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7123	0.2772	0.2344	0.05238	0.1241	0.2699				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2882	0.2658	0.6812	0.2641	0.04096	0.2769				
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)				
	0.8698	0.1222	0.2592	0.01364	0.4305	6.612e-5				

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	
	0.08513	0.1551	0	0.1408	0.1144	0.2343	0.002820	0.004004	0.2634	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
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14.20  735.3 0.05059 0.2226 0.8504 0.013140.0009705 0.6364
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7115 0.2724 0.2301 0.05289 0.1252 0.2691
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2904 0.2674 0.6762 0.2691 0.04322 0.2729
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.8663 0.1212 0.2484 0.01417 0.4257 6.199e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08506 0.1510 0 0.1460 0.1183 0.2302 0.002501 0.004110 0.2629

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40  737.1 0.04955 0.2244 0.8540 0.013010.0009742 0.6335
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7110 0.2678 0.2256 0.05337 0.1262 0.2686
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2927 0.2690 0.6713 0.2740 0.04546 0.2689
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.8628 0.1207 0.2372 0.01465 0.4208 5.833e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08485 0.1468 0 0.1512 0.1222 0.2262 0.002178 0.004218 0.2623

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60  738.5 0.04846 0.2260 0.8580 0.012830.0009761 0.6306
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7107 0.2634 0.2209 0.05379 0.1270 0.2682
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2948 0.2705 0.6665 0.2786 0.04767 0.2650
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.8593 0.1207 0.2258 0.01507 0.4160 5.507e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08450 0.1428 0 0.1563 0.1262 0.2222 0.001854 0.004328 0.2618

```

calcs use:

calcs use:

```

composition (from script)
  H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
  6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, (q)

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60  728.1 0.05331 0.2164 0.8433 0.013190.0009468 0.6445
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7148 0.2869 0.2423 0.05123 0.1215 0.2718
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

```

0.2835 0.2625 0.6915 0.2533 0.03648 0.2848
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.8770 0.1256 0.2796 0.01250 0.4397 7.602e-5

mode liq bi ep g mu pl ilm ru ky q
0.08483 0.1635 0 0.1303 0.1071 0.2423 0.003430 0.003806 0 0.2647
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 674.2 0.06147 0.1814 0.8485 0.0097260.0007024 0.6855
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7452 0.3776 0.2753 0.04016 0.09645 0.2943
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2540 0.2413 0.7781 0.1940 0.01585 0.3525
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9229 0.1864 0.3699 0.006112 0.5060-0.006868

mode liq bi ep g mu pl ilm ru ky q
0.07819 0.2334 0 0.05325 0.05056 0.2887 0.006242 0.002779 0.01013 0.2768

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 679.3 0.06100 0.1845 0.8455 0.010100.0007288 0.6833
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7422 0.3707 0.2735 0.04103 0.09867 0.2928
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2563 0.2431 0.7722 0.1989 0.01711 0.3480
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9184 0.1763 0.3654 0.006549 0.5018 0.001391

mode liq bi ep g mu pl ilm ru ky q
0.07904 0.2283 0 0.05860 0.05430 0.2859 0.006090 0.002820 0.009214 0.2758

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 684.4 0.06052 0.1875 0.8429 0.010460.0007546 0.6810
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7392 0.3636 0.2715 0.04190 0.1009 0.2913
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2586 0.2448 0.7662 0.2038 0.01843 0.3433
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9142 0.1676 0.3605 0.007002 0.49750.0006217

mode liq bi ep g mu pl ilm ru ky q
0.07987 0.2231 0 0.06407 0.05814 0.2829 0.005927 0.002867 0.008325 0.2748

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
11.60	689.3	0.06003	0.1905	0.8406	0.010820	0.0007795	0.6785						
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)							
	0.7364	0.3566	0.2693	0.04278	0.1030	0.2897							
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)							
	0.2609	0.2465	0.7600	0.2087	0.01982	0.3384							
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)							
	0.9102	0.1600	0.3553	0.007470	0.49300	0.003961							

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.08065	0.2179	0	0.06966	0.06209	0.2798	0.005754	0.002921	0.007461	0.2738

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
11.80	694.1	0.05951	0.1934	0.8387	0.011170	0.0008034	0.6758						
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)							
	0.7336	0.3495	0.2671	0.04366	0.1052	0.2881							
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)							
	0.2632	0.2482	0.7536	0.2135	0.02128	0.3335							
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)							
	0.9063	0.1535	0.3497	0.007953	0.48830	0.002884							

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.08140	0.2126	0	0.07536	0.06612	0.2765	0.005569	0.002982	0.006626	0.2728

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
12.00	698.6	0.05897	0.1962	0.8373	0.011500	0.0008261	0.6729						
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)							
	0.7309	0.3424	0.2648	0.04454	0.1073	0.2864							
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)							
	0.2656	0.2498	0.7472	0.2184	0.02280	0.3284							
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)							
	0.9026	0.1479	0.3436	0.008448	0.48350	0.002255							

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.08209	0.2073	0	0.08116	0.07025	0.2731	0.005374	0.003049	0.005819	0.2718

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
12.20	703.1	0.05841	0.1990	0.8362	0.011820	0.0008475	0.6699						
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)							
	0.7284	0.3353	0.2624	0.04542	0.1093	0.2846							
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)							
	0.2679	0.2515	0.7405	0.2231	0.02438	0.3232							
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)							
	0.8990	0.1430	0.3372	0.008954	0.47850	0.001842							

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.08273	0.2020	0	0.08705	0.07446	0.2696	0.005167	0.003122	0.005041	0.2708

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
12.40	707.3	0.05781	0.2018	0.8356	0.012110	0.0008672	0.6667						

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7259 0.3282 0.2598 0.04629 0.1113 0.2829
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2702 0.2532 0.7338 0.2278 0.02602 0.3179
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8956 0.1388 0.3303 0.009469 0.47330.0001550

mode liq bi ep g mu pl ilm ru ky q
 0.08330 0.1966 0 0.09302 0.07877 0.2660 0.004948 0.003202 0.004287 0.2699

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.60 711.3 0.05717 0.2044 0.8356 0.012380.0008854 0.6633
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7237 0.3212 0.2572 0.04715 0.1132 0.2811
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2725 0.2548 0.7270 0.2325 0.02770 0.3125
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8922 0.1353 0.3229 0.009988 0.46810.0001334

mode liq bi ep g mu pl ilm ru ky q
 0.08380 0.1911 0 0.09907 0.08318 0.2623 0.004718 0.003288 0.003555 0.2690

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.80 715.2 0.05649 0.2070 0.8360 0.012610.0009016 0.6599
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7215 0.3142 0.2545 0.04800 0.1150 0.2792
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2748 0.2564 0.7201 0.2370 0.02942 0.3071
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8890 0.1323 0.3151 0.01051 0.46260.0001166

mode liq bi ep g mu pl ilm ru ky q
 0.08421 0.1857 0 0.1052 0.08770 0.2585 0.004478 0.003381 0.002839 0.2681

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 718.8 0.05577 0.2095 0.8370 0.012820.0009160 0.6563
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7196 0.3073 0.2516 0.04883 0.1168 0.2774
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2770 0.2580 0.7131 0.2413 0.03117 0.3016
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8859 0.1299 0.3069 0.01103 0.45710.0001034

mode liq bi ep g mu pl ilm ru ky q
 0.08453 0.1802 0 0.1114 0.09234 0.2545 0.004229 0.003479 0.002135 0.2672

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 722.1 0.05501 0.2119 0.8385 0.012980.0009283 0.6525
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7178 0.3005 0.2487 0.04965 0.1184 0.2755

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2792 0.2595 0.7060 0.2455 0.03293 0.2961
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8828 0.1280 0.2983 0.01153 0.4515 9.260e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.08475	0.1747	0	0.1176	0.09710	0.2505	0.003971	0.003582	0.001434	0.2663

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.40 725.2 0.05419 0.2142 0.8406 0.013110.0009385 0.6486
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7162 0.2937 0.2456 0.05045 0.1200 0.2737
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2814 0.2610 0.6988 0.2495 0.03469 0.2905
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8799 0.1266 0.2893 0.01202 0.4457 8.367e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.08485	0.1692	0	0.1238	0.1020	0.2465	0.003706	0.0036900.0007303	0.2655	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.60 728.1 0.05332 0.2164 0.8433 0.013190.0009467 0.6446
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7148 0.2871 0.2424 0.05122 0.1215 0.2718
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2835 0.2625 0.6916 0.2532 0.03644 0.2849
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.8770 0.1256 0.2798 0.01250 0.4399 7.617e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.08484	0.1636	0	0.1301	0.1070	0.2423	0.003435	0.003803	1.480e-5	0.2648

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.41 684.7 0.06049 0.1877 0.8427 0.010490.0007564 0.6808
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7390 0.3631 0.2713 0.04196 0.1010 0.2912
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2588 0.2449 0.7657 0.2041 0.01853 0.3430
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9139 0.1670 0.3602 0.007035 0.49720.0005974

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
------	-----	----	----	---	----	----	-----	----	----	---	-----

0.07993 0.2228 0 0.06447 0.05843 0.2827 0.005915 0.002871 0.008261 0.2747 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.42 684.6 0.06038 0.1877 0.8434 0.010460.0007556 0.6806
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7391 0.3628 0.2709 0.04198 0.1010 0.2914
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2588 0.2449 0.7656 0.2040 0.01851 0.3426
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9140 0.1678 0.3590 0.007032 0.49690.0005868

mode liq bi ep g mu pl ilm ru ky q H2O
0.07689 0.2225 0 0.06468 0.05912 0.2836 0.005912 0.002877 0.008070 0.2751 0.001161

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.43 684.4 0.06019 0.1878 0.8446 0.010400.0007542 0.6802
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7393 0.3623 0.2702 0.04202 0.1009 0.2919
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2589 0.2450 0.7652 0.2037 0.01847 0.3421
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9142 0.1691 0.3570 0.007028 0.49630.0005686

mode liq bi ep g mu pl ilm ru ky q H2O
0.07144 0.2221 0 0.06505 0.06037 0.2854 0.005908 0.002888 0.007726 0.2759 0.003252

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.44 684.1 0.06000 0.1879 0.8458 0.010340.0007528 0.6797
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7395 0.3617 0.2696 0.04206 0.1008 0.2924
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2590 0.2451 0.7649 0.2034 0.01843 0.3415
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9144 0.1705 0.3549 0.007023 0.49580.0005515

mode liq bi ep g mu pl ilm ru ky q H2O
0.06599 0.2216 0 0.06543 0.06161 0.2871 0.005903 0.002898 0.007384 0.2767 0.005345

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.45 683.9 0.05981 0.1879 0.8469 0.010290.0007514 0.6793
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7397 0.3612 0.2689 0.04210 0.1008 0.2928

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2590 0.2452 0.7645 0.2032 0.01840 0.3410
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9146 0.1719 0.3529 0.007018 0.49530.0005353

mode liq bi ep g mu pl ilm ru ky q H2O
 0.06055 0.2212 0 0.06580 0.06284 0.2889 0.005899 0.002909 0.007043 0.2775 0.007439

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.46 683.6 0.05962 0.1880 0.8480 0.010230.0007500 0.6789
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7399 0.3606 0.2682 0.04213 0.1007 0.2933
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2591 0.2452 0.7642 0.2029 0.01836 0.3404
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9148 0.1734 0.3509 0.007013 0.49470.0005201

mode liq bi ep g mu pl ilm ru ky q H2O
 0.05512 0.2207 0 0.06617 0.06407 0.2906 0.005894 0.002920 0.006703 0.2783 0.009534

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.47 683.4 0.05943 0.1880 0.8492 0.010180.0007487 0.6785
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7401 0.3601 0.2675 0.04217 0.1006 0.2937
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2592 0.2453 0.7639 0.2026 0.01833 0.3398
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9150 0.1748 0.3489 0.007007 0.49420.0005056

mode liq bi ep g mu pl ilm ru ky q H2O
 0.04968 0.2203 0 0.06654 0.06529 0.2924 0.005890 0.002930 0.006365 0.2790 0.01163

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.48 683.2 0.05925 0.1881 0.8503 0.010120.0007473 0.6781
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7403 0.3595 0.2668 0.04221 0.1006 0.2942
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2592 0.2454 0.7635 0.2024 0.01829 0.3393
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9153 0.1762 0.3469 0.007002 0.49360.0004919

mode liq bi ep g mu pl ilm ru ky q H2O
 0.04425 0.2198 0 0.06691 0.06650 0.2941 0.005885 0.002941 0.006027 0.2798 0.01373

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.49 682.9 0.05907 0.1882 0.8514 0.010070.0007460 0.6777
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7405 0.3590 0.2662 0.04224 0.1005 0.2947
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2593 0.2455 0.7632 0.2021 0.01826 0.3387

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9155 0.1776 0.3450 0.006996 0.49310.0004789

mode liq bi ep g mu pl ilm ru ky q H2O
0.03883 0.2194 0 0.06728 0.06771 0.2959 0.005881 0.002951 0.005691 0.2805 0.01583

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 682.7 0.05888 0.1882 0.8524 0.010020.0007447 0.6772
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7407 0.3584 0.2655 0.04228 0.1004 0.2951
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2594 0.2455 0.7628 0.2018 0.01822 0.3382
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9157 0.1791 0.3430 0.006991 0.49260.0004665

mode liq bi ep g mu pl ilm ru ky q H2O
0.03341 0.2190 0 0.06765 0.06891 0.2976 0.005877 0.002962 0.005355 0.2813 0.01794

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.51 682.5 0.05870 0.1883 0.8535 0.0099660.0007434 0.6768
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7409 0.3579 0.2648 0.04231 0.1004 0.2955
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2595 0.2456 0.7625 0.2016 0.01819 0.3376
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9159 0.1805 0.3411 0.006985 0.49200.0004547

mode liq bi ep g mu pl ilm ru ky q H2O
0.02798 0.2185 0 0.06802 0.07011 0.2994 0.005872 0.002972 0.005020 0.2820 0.02004

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.52 682.2 0.05852 0.1883 0.8546 0.0099150.0007421 0.6764
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7411 0.3573 0.2642 0.04235 0.1003 0.2960
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2595 0.2457 0.7622 0.2013 0.01816 0.3371
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9161 0.1820 0.3392 0.006979 0.49150.0004435

mode liq bi ep g mu pl ilm ru ky q H2O
0.02256 0.2181 0 0.06838 0.07130 0.3012 0.005868 0.002982 0.004685 0.2828 0.02215

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.53 682.0 0.05835 0.1884 0.8556 0.0098640.0007409 0.6760
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7413 0.3568 0.2635 0.04239 0.1002 0.2964
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2596 0.2458 0.7618 0.2010 0.01812 0.3365
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9164 0.1835 0.3373 0.006973 0.49090.0004328

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.01714	0.2177	0	0.06875	0.07248	0.3030	0.005864	0.002993	0.004352	0.2835	0.02426

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.54	681.8	0.05817	0.1884	0.8566	0.009813	0.0007396	0.6756
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7415	0.3563	0.2629	0.04242	0.1001	0.2969	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2597	0.2458	0.7615	0.2008	0.01809	0.3359	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9166	0.1850	0.3354	0.006967	0.49040	0.0004225	

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.01172	0.2172	0	0.06911	0.07366	0.3047	0.005859	0.003003	0.004018	0.2843	0.02638

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.55	681.6	0.05800	0.1885	0.8576	0.009763	0.0007383	0.6751
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7416	0.3557	0.2622	0.04246	0.1001	0.2973	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2598	0.2459	0.7611	0.2005	0.01806	0.3354	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9168	0.1865	0.3335	0.006960	0.48990	0.0004128	

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.006303	0.2168	0	0.06948	0.07484	0.3065	0.005855	0.003013	0.003686	0.2850	0.02850

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.56	681.3	0.05782	0.1885	0.8586	0.009713	0.0007371	0.6747
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7418	0.3552	0.2616	0.04249	0.1000	0.2977	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2598	0.2460	0.7608	0.2003	0.01803	0.3348	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9170	0.1880	0.3317	0.006954	0.48930	0.0004034	

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.0008807	0.2164	0	0.06984	0.07601	0.3083	0.005851	0.003023	0.003353	0.2857	0.03062

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, H2O, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.56	681.3	0.05779	0.1885	0.8588	0.009705	0.0007369	0.6746
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	

0.7419 0.3551 0.2615 0.04250 0.1000 0.2978
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2598 0.2460 0.7607 0.2002 0.01802 0.3348
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9171 0.1882 0.3314 0.006953 0.48930.0004019

mode liq bi ep g mu pl ilm ru ky q H2O
0 0.2163 0 0.06990 0.07620 0.3086 0.005850 0.003025 0.003299 0.2858 0.03097
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.20 643.8 0.4008 0.2715 0.03674 0.08653 0.3096 0.2446
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2346 0.8013 0.1735 0.01107 0.3638 0.9487
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2731 0.3593 0.004550 0.5128-0.0003322 0.2499

mode bi ep g mu pl ilm ru ky q H2O
0.2499 0 0.03549 0.04959 0.3218 0.006709 0.002783 0.01062 0.2922 0.03091

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.40 649.6 0.3945 0.2704 0.03754 0.08855 0.3079 0.2468
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2363 0.7960 0.1774 0.01194 0.3602 0.9431
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2529 0.3558 0.004875 0.5099-0.0004400 0.2453

mode bi ep g mu pl ilm ru ky q H2O
0.2453 0 0.04011 0.05292 0.3203 0.006605 0.002801 0.009610 0.2913 0.03098

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.60 655.2 0.3880 0.2691 0.03837 0.09056 0.3063 0.2490
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2379 0.7904 0.1814 0.01286 0.3563 0.9379
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2367 0.3521 0.005210 0.5068-0.0006621 0.2406

mode bi ep g mu pl ilm ru ky q H2O
0.2406 0 0.04492 0.05655 0.3187 0.006493 0.002825 0.008542 0.2904 0.03102

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.80 660.9 0.3813 0.2677 0.03921 0.09257 0.3046 0.2512
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2396 0.7846 0.1853 0.01383 0.3521 0.9331

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2233 0.3483 0.005555 0.5035-0.001381 0.2357

mode bi ep g mu pl ilm ru ky q H2O
0.2357 0 0.04989 0.06039 0.3169 0.006374 0.002855 0.007447 0.2895 0.03103

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.00 666.4 0.3745 0.2662 0.04006 0.09456 0.3029 0.2535
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2413 0.7786 0.1893 0.01486 0.3478 0.9286
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2119 0.3442 0.005910 0.5043 0.07503 0.2307

mode bi ep g mu pl ilm ru ky q H2O
0.2307 0 0.05489 0.06434 0.3149 0.006292 0.002869 0.006369 0.2885 0.03103

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.20 671.8 0.3676 0.2646 0.04092 0.09652 0.3012 0.2557
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2430 0.7724 0.1932 0.01594 0.3432 0.9243
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2024 0.3398 0.006273 0.4963 0.001087 0.2256

mode bi ep g mu pl ilm ru ky q H2O
0.2256 0 0.06021 0.06851 0.3128 0.006114 0.002934 0.005248 0.2876 0.03102

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.40 677.1 0.3607 0.2629 0.04179 0.09846 0.2993 0.2580
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2447 0.7660 0.1971 0.01707 0.3386 0.9203
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.1941 0.3353 0.006646 0.49250.0005625 0.2205

mode bi ep g mu pl ilm ru ky q H2O
0.2205 0 0.06553 0.07273 0.3105 0.005971 0.002982 0.004163 0.2866 0.03099

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : bi, ep, mu, pl, ilm, ru, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
5.00 513.1 0.4549 0.2144 0.03585 0.05407 0.3954 0.2608
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2551 0.3659 0.9996 0.8618 0.4446 0.001961
x(ilm) Q(ilm)
0.38570.0001715

mode bi ep mu pl ilm ru q H2O

0.2831 0 0.09860 0.2837 0.005594 0.004192 0.3069 0.01791

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
5.20 518.5 0.4547 0.2197 0.03573 0.05524 0.3891 0.2593
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2534 0.3676 0.9996 0.8649 0.4438 0.002015
x(ilm) Q(ilm)
0.39380.0002086

mode bi ep mu pl ilm ru q H2O
0.2834 0 0.09734 0.2842 0.005656 0.004115 0.3072 0.01810

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
5.40 524.0 0.4546 0.2249 0.03559 0.05640 0.3831 0.2577
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2517 0.3693 0.9996 0.8680 0.4430 0.002068
x(ilm) Q(ilm)
0.40200.0002633

mode bi ep mu pl ilm ru q H2O
0.2837 0 0.09611 0.2847 0.005721 0.004038 0.3074 0.01827

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
5.60 529.4 0.4544 0.2299 0.03543 0.05757 0.3771 0.2561
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2500 0.3710 0.9996 0.8711 0.4422 0.002120
x(ilm) Q(ilm)
0.41030.0003522

mode bi ep mu pl ilm ru q H2O
0.2841 0 0.09490 0.2853 0.005789 0.003959 0.3076 0.01845

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
5.80 534.7 0.4542 0.2349 0.03525 0.05873 0.3714 0.2545
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2483 0.3726 0.9996 0.8742 0.4414 0.002171
x(ilm) Q(ilm)
0.41850.0005219

mode bi ep mu pl ilm ru q H2O
0.2844 0 0.09372 0.2858 0.005862 0.003879 0.3078 0.01863

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.00 540.1 0.4540 0.2398 0.03505 0.05989 0.3658 0.2529
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2466 0.3743 0.9995 0.8772 0.4406 0.002221
x(ilm) Q(ilm)
0.42680.0009732

mode bi ep mu pl ilm ru q H2O

0.2847 0 0.09257 0.2863 0.005939 0.003797 0.3079 0.01880

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.20 545.5 0.4538 0.2445 0.03484 0.06105 0.3603 0.2513
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2450 0.3759 0.9995 0.8802 0.4398 0.002270
x(ilm) Q(ilm)
0.4351 0.005878

mode bi ep mu pl ilm ru q H2O
0.2850 0 0.09144 0.2868 0.006019 0.003714 0.3081 0.01897

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.40 550.8 0.4536 0.2491 0.03461 0.06220 0.3550 0.2497
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2432 0.3775 0.9995 0.8832 0.4391 0.002318
x(ilm) Q(ilm)
0.4434-0.001531

mode bi ep mu pl ilm ru q H2O
0.2852 0 0.09035 0.2872 0.006104 0.003630 0.3083 0.01913

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.60 556.1 0.4534 0.2535 0.03437 0.06335 0.3499 0.2481
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2415 0.3791 0.9995 0.8861 0.4384 0.002365
x(ilm) Q(ilm)
0.4518-0.0006908

mode bi ep mu pl ilm ru q H2O
0.2855 0 0.08929 0.2877 0.006192 0.003545 0.3085 0.01930

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.80 561.4 0.4532 0.2578 0.03412 0.06450 0.3449 0.2465
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2398 0.3807 0.9995 0.8889 0.4377 0.002411
x(ilm) Q(ilm)
0.4601-0.0004519

mode bi ep mu pl ilm ru q H2O
0.2857 0 0.08826 0.2882 0.006285 0.003457 0.3086 0.01946

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.00 566.7 0.4529 0.2620 0.03385 0.06564 0.3400 0.2448
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2381 0.3822 0.9994 0.8917 0.4370 0.002455
x(ilm) Q(ilm)
0.4685-0.0003390

mode bi ep mu pl ilm ru q H2O

0.2860 0 0.08726 0.2886 0.006382 0.003369 0.3088 0.01961

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.20 571.9 0.4527 0.2661 0.03357 0.06678 0.3354 0.2432
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2364 0.3837 0.9994 0.8944 0.4364 0.002498
x(ilm) Q(ilm)
0.4769-0.0002732

mode bi ep mu pl ilm ru q H2O
0.2862 0 0.08630 0.2890 0.006484 0.003279 0.3090 0.01977

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.40 577.2 0.4524 0.2700 0.03328 0.06792 0.3308 0.2415
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2346 0.3852 0.9994 0.8970 0.4358 0.002540
x(ilm) Q(ilm)
0.4852-0.0002303

mode bi ep mu pl ilm ru q H2O
0.2864 0 0.08537 0.2895 0.006589 0.003187 0.3091 0.01992

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.60 582.4 0.4521 0.2738 0.03299 0.06905 0.3264 0.2398
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2329 0.3867 0.9994 0.8995 0.4351 0.002581
x(ilm) Q(ilm)
0.4936-0.0002000

mode bi ep mu pl ilm ru q H2O
0.2865 0 0.08447 0.2899 0.006700 0.003093 0.3093 0.02007

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.80 587.6 0.4519 0.2775 0.03268 0.07018 0.3221 0.2381
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2311 0.3882 0.9993 0.9019 0.4345 0.002620
x(ilm) Q(ilm)
0.5019-0.0001776

mode bi ep mu pl ilm ru q H2O
0.2867 0 0.08360 0.2903 0.006814 0.002998 0.3094 0.02021

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.00 592.8 0.4516 0.2810 0.03237 0.07130 0.3180 0.2364
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2293 0.3897 0.9993 0.9043 0.4340 0.002659
x(ilm) Q(ilm)
0.5102-0.0001604

mode bi ep mu pl ilm ru q H2O

0.2869 0 0.08277 0.2907 0.006933 0.002901 0.3095 0.02035

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.20 598.0 0.4513 0.2845 0.03204 0.07242 0.3139 0.2347
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2276 0.3911 0.9993 0.9065 0.4334 0.002697
x(ilm) Q(ilm)
0.5185-0.0001468

mode bi ep mu pl ilm ru q H2O
0.2870 0 0.08196 0.2910 0.007057 0.002802 0.3097 0.02049

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.40 603.2 0.4510 0.2878 0.03172 0.07354 0.3100 0.2330
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2258 0.3925 0.9992 0.9086 0.4328 0.002733
x(ilm) Q(ilm)
0.5267-0.0001357

mode bi ep mu pl ilm ru q H2O
0.2871 0 0.08118 0.2914 0.007184 0.002702 0.3098 0.02063

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.60 608.3 0.4506 0.2910 0.03139 0.07466 0.3062 0.2313
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2240 0.3939 0.9992 0.9106 0.4323 0.002770
x(ilm) Q(ilm)
0.5349-0.0001266

mode bi ep mu pl ilm ru q H2O
0.2872 0 0.08043 0.2918 0.007317 0.002600 0.3099 0.02076

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.80 613.5 0.4503 0.2941 0.03105 0.07577 0.3025 0.2295
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2222 0.3952 0.9992 0.9125 0.4318 0.002805
x(ilm) Q(ilm)
0.5430-0.0001190

mode bi ep mu pl ilm ru q H2O
0.2873 0 0.07970 0.2921 0.007453 0.002496 0.3100 0.02089

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.00 618.6 0.4500 0.2971 0.03072 0.07688 0.2989 0.2278
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2204 0.3966 0.9991 0.9143 0.4313 0.002841
x(ilm) Q(ilm)
0.5511-0.0001126

mode bi ep mu pl ilm ru q H2O

0.2874 0 0.07900 0.2925 0.007594 0.002390 0.3101 0.02102

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.20 623.7 0.4496 0.3001 0.03038 0.07799 0.2954 0.2260
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2186 0.3979 0.9991 0.9160 0.4308 0.002876
x(ilm) Q(ilm)
0.5590-0.0001071

mode bi ep mu pl ilm ru q H2O
0.2875 0 0.07833 0.2928 0.007739 0.002282 0.3102 0.02115

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.40 628.8 0.4492 0.3029 0.03004 0.07910 0.2920 0.2243
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2168 0.3992 0.9990 0.9176 0.4303 0.002910
x(ilm) Q(ilm)
0.5669-0.0001023

mode bi ep mu pl ilm ru q H2O
0.2875 0 0.07767 0.2931 0.007888 0.002173 0.3103 0.02128

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 633.9 0.4489 0.3057 0.02970 0.08021 0.2887 0.2225
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2150 0.4005 0.9990 0.9191 0.4298 0.002945
x(ilm) Q(ilm)
0.5747-9.819e-5

mode bi ep mu pl ilm ru q H2O
0.2876 0 0.07704 0.2934 0.008041 0.002062 0.3104 0.02140

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 639.0 0.4485 0.3084 0.02935 0.08132 0.2855 0.2208
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2132 0.4017 0.9990 0.9206 0.4294 0.002980
x(ilm) Q(ilm)
0.5823-9.458e-5

mode bi ep mu pl ilm ru q H2O
0.2876 0 0.07643 0.2938 0.008198 0.001949 0.3105 0.02152

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 644.1 0.4481 0.3110 0.02901 0.08242 0.2823 0.2190
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2114 0.4030 0.9989 0.9219 0.4289 0.003015
x(ilm) Q(ilm)
0.5899-9.141e-5

mode bi ep mu pl ilm ru q H2O

0.2876 0 0.07583 0.2941 0.008359 0.001834 0.3106 0.02165

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.20 649.1 0.4477 0.3136 0.02867 0.08353 0.2792 0.2173
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2096 0.4042 0.9988 0.9231 0.4285 0.003050
x(ilm) Q(ilm)
0.5973-8.862e-5

mode bi ep mu pl ilm ru q H2O
0.2876 0 0.07526 0.2944 0.008523 0.001717 0.3107 0.02177

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.40 654.2 0.4472 0.3160 0.02833 0.08463 0.2762 0.2155
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2078 0.4054 0.9988 0.9243 0.4281 0.003086
x(ilm) Q(ilm)
0.6046-8.614e-5

mode bi ep mu pl ilm ru q H2O
0.2877 0 0.07470 0.2947 0.008691 0.001599 0.3108 0.02188

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.60 659.2 0.4468 0.3185 0.02799 0.08574 0.2732 0.2137
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2060 0.4066 0.9987 0.9253 0.4276 0.003122
x(ilm) Q(ilm)
0.6118-8.394e-5

mode bi ep mu pl ilm ru q H2O
0.2876 0 0.07415 0.2950 0.008863 0.001479 0.3109 0.02200

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.80 664.2 0.4463 0.3208 0.02766 0.08685 0.2703 0.2120
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2042 0.4077 0.9987 0.9263 0.4272 0.003159
x(ilm) Q(ilm)
0.6188-8.199e-5

mode bi ep mu pl ilm ru q H2O
0.2876 0 0.07362 0.2952 0.009038 0.001358 0.3110 0.02212

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.00 669.2 0.4459 0.3232 0.02733 0.08795 0.2675 0.2103
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2024 0.4089 0.9986 0.9272 0.4268 0.003197
x(ilm) Q(ilm)
0.6257-8.024e-5

mode bi ep mu pl ilm ru q H2O

0.2876 0 0.07311 0.2955 0.009216 0.001234 0.3111 0.02223

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.20 674.2 0.4454 0.3254 0.02700 0.08906 0.2647 0.2085
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.2007 0.4100 0.9985 0.9280 0.4264 0.003235
x(ilm) Q(ilm)
0.6324-7.868e-5

mode bi ep mu pl ilm ru q H2O
0.2876 0 0.07261 0.2958 0.009398 0.001110 0.3111 0.02234

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.40 679.2 0.4449 0.3277 0.02667 0.09017 0.2620 0.2068
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1989 0.4111 0.9985 0.9288 0.4260 0.003274
x(ilm) Q(ilm)
0.6390-7.728e-5

mode bi ep mu pl ilm ru q H2O
0.2875 0 0.07212 0.2961 0.009582 0.0009835 0.3112 0.02246

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.60 684.2 0.4445 0.3299 0.02635 0.09128 0.2593 0.2051
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1971 0.4121 0.9984 0.9295 0.4256 0.003314
x(ilm) Q(ilm)
0.6455-7.603e-5

mode bi ep mu pl ilm ru q H2O
0.2875 0 0.07164 0.2964 0.009769 0.0008559 0.3113 0.02257

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.80 689.2 0.4440 0.3320 0.02603 0.09239 0.2567 0.2034
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1954 0.4132 0.9983 0.9301 0.4252 0.003355
x(ilm) Q(ilm)
0.6517-7.491e-5

mode bi ep mu pl ilm ru q H2O
0.2875 0 0.07118 0.2966 0.009959 0.0007268 0.3114 0.02268

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.00 694.2 0.4435 0.3341 0.02572 0.09350 0.2541 0.2017
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1937 0.4142 0.9982 0.9307 0.4248 0.003396
x(ilm) Q(ilm)
0.6579-7.391e-5

mode bi ep mu pl ilm ru q H2O

0.2874 0 0.07072 0.2969 0.010150.0005965 0.3114 0.02279

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.20 699.1 0.4430 0.3362 0.02541 0.09461 0.2515 0.2000
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1920 0.4152 0.9982 0.9311 0.4244 0.003439
x(ilm) Q(ilm)
0.6639-7.302e-5

mode bi ep mu pl ilm ru q H2O
0.2873 0 0.07028 0.2972 0.010350.0004648 0.3115 0.02290

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.40 704.1 0.4424 0.3382 0.02510 0.09572 0.2490 0.1983
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1903 0.4162 0.9981 0.9316 0.4241 0.003483
x(ilm) Q(ilm)
0.6697-7.222e-5

mode bi ep mu pl ilm ru q H2O
0.2873 0 0.06984 0.2974 0.010540.0003320 0.3116 0.02301

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.60 709.0 0.4419 0.3402 0.02480 0.09683 0.2466 0.1967
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1886 0.4172 0.9980 0.9320 0.4237 0.003528
x(ilm) Q(ilm)
0.6754-7.151e-5

mode bi ep mu pl ilm ru q H2O
0.2872 0 0.06942 0.2977 0.010740.0001980 0.3116 0.02312

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.80 713.9 0.4414 0.3422 0.02451 0.09795 0.2441 0.1951
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1870 0.4182 0.9979 0.9323 0.4233 0.003574
x(ilm) Q(ilm)
0.6810-7.088e-5

mode bi ep mu pl ilm ru q H2O
0.2871 0 0.06900 0.2980 0.01094 6.284e-5 0.3117 0.02323

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : bi, ep, mu, pl, ilm, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.00 531.8 0.4350 0.2205 0.02303 0.07567 0.3867 0.1972
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1940 0.3563 0.9991 0.7996 0.4395 0.002245
x(ilm) Q(ilm)
0.7340-3.592e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2736	0	0.1003	0.2870	0.01330	0.3064	0.01945

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.20 537.4 0.4352 0.2262 0.02315 0.07666 0.3801 0.1968
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1935 0.3584 0.9991 0.8035 0.4388 0.002314
x(ilm) Q(ilm)
0.7324-3.647e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2742	0	0.09889	0.2875	0.01321	0.3067	0.01961

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.40 542.9 0.4355 0.2318 0.02326 0.07763 0.3735 0.1965
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1931 0.3605 0.9990 0.8076 0.4380 0.002384
x(ilm) Q(ilm)
0.7308-3.704e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2747	0	0.09752	0.2880	0.01311	0.3069	0.01978

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.60 548.4 0.4357 0.2374 0.02336 0.07859 0.3671 0.1962
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1927 0.3625 0.9990 0.8118 0.4373 0.002454
x(ilm) Q(ilm)
0.7292-3.763e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2753	0	0.09616	0.2884	0.01302	0.3071	0.01994

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
6.80 553.9 0.4360 0.2428 0.02346 0.07953 0.3609 0.1960
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1924 0.3646 0.9990 0.8160 0.4366 0.002523
x(ilm) Q(ilm)
0.7276-3.823e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2759	0	0.09482	0.2889	0.01293	0.3073	0.02010

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.00 559.4 0.4362 0.2482 0.02355 0.08046 0.3548 0.1957
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1920 0.3666 0.9990 0.8203 0.4358 0.002593
x(ilm) Q(ilm)
0.7260-3.886e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2764	0	0.09350	0.2894	0.01283	0.3076	0.02026

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.20 564.9 0.4365 0.2534 0.02364 0.08138 0.3489 0.1955
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1917 0.3686 0.9989 0.8246 0.4351 0.002662
x(ilm) Q(ilm)
0.7243-3.950e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2770	0	0.09220	0.2899	0.01274	0.3078	0.02042

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.40 570.4 0.4367 0.2585 0.02372 0.08228 0.3431 0.1954
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1914 0.3706 0.9989 0.8291 0.4345 0.002731
x(ilm) Q(ilm)
0.7226-4.017e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2775	0	0.09092	0.2903	0.01265	0.3080	0.02058

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.60 575.8 0.4369 0.2635 0.02379 0.08316 0.3375 0.1952
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1911 0.3725 0.9989 0.8335 0.4338 0.002799
x(ilm) Q(ilm)
0.7210-4.085e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2781	0	0.08966	0.2908	0.01257	0.3082	0.02073

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.80 581.2 0.4372 0.2684 0.02387 0.08402 0.3320 0.1951
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1909 0.3745 0.9989 0.8380 0.4331 0.002865
x(ilm) Q(ilm)
0.7193-4.156e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2786	0	0.08843	0.2912	0.01248	0.3084	0.02088

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 8.00 586.7 0.4374 0.2731 0.02393 0.08486 0.3267 0.1949
 Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
 0.1906 0.3764 0.9988 0.8426 0.4325 0.002931
 x(ilm) Q(ilm)
 0.7176-4.230e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2791	0	0.08723	0.2916	0.01240	0.3086	0.02102

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 8.20 592.1 0.4376 0.2777 0.02399 0.08568 0.3216 0.1948
 Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
 0.1904 0.3783 0.9988 0.8471 0.4319 0.002994
 x(ilm) Q(ilm)
 0.7159-4.306e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2796	0	0.08606	0.2921	0.01231	0.3088	0.02116

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 8.40 597.5 0.4378 0.2822 0.02405 0.08649 0.3166 0.1947
 Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
 0.1902 0.3802 0.9988 0.8517 0.4313 0.003056
 x(ilm) Q(ilm)
 0.7142-4.384e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2801	0	0.08492	0.2925	0.01223	0.3090	0.02130

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 8.60 602.9 0.4380 0.2865 0.02411 0.08727 0.3118 0.1947
 Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
 0.1900 0.3821 0.9988 0.8562 0.4307 0.003116
 x(ilm) Q(ilm)
 0.7125-4.465e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2805	0	0.08381	0.2929	0.01215	0.3092	0.02144

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 8.80 608.3 0.4382 0.2907 0.02416 0.08802 0.3071 0.1946
 Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
 0.1897 0.3839 0.9988 0.8608 0.4301 0.003172
 x(ilm) Q(ilm)
 0.7109-4.549e-5

mode	bi	ep	mu	pl	ilm	q	H2O
	0.2810	0	0.08273	0.2932	0.01208	0.3094	0.02157


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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.00    613.7  0.4384  0.2947  0.02420  0.08875  0.3026  0.1945
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.1895  0.3858  0.9987  0.8653  0.4296  0.003227
      x(ilm)  Q(ilm)
      0.7092-4.635e-5

```

```

mode    bi    ep    mu    pl    ilm    q    H2O
0.2814    0  0.08169  0.2936  0.01200  0.3096  0.02169

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```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.20    619.0  0.4386  0.2985  0.02424  0.08946  0.2983  0.1945
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.1894  0.3876  0.9987  0.8697  0.4291  0.003278
      x(ilm)  Q(ilm)
      0.7076-4.725e-5

```

```

mode    bi    ep    mu    pl    ilm    q    H2O
0.2819    0  0.08069  0.2940  0.01193  0.3097  0.02182

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.40    624.4  0.4388  0.3022  0.02428  0.09015  0.2941  0.1944
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.1892  0.3894  0.9987  0.8741  0.4286  0.003325
      x(ilm)  Q(ilm)
      0.7060-4.817e-5

```

```

mode    bi    ep    mu    pl    ilm    q    H2O
0.2823    0  0.07973  0.2943  0.01186  0.3099  0.02193

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.60    629.7  0.4390  0.3057  0.02431  0.09081  0.2901  0.1944
      Q(ep)  fe(mu)  y(mu)  na(mu)  ca(pl)  k(pl)
      0.1890  0.3912  0.9987  0.8784  0.4281  0.003369
      x(ilm)  Q(ilm)
      0.7044-4.913e-5

```

```

mode    bi    ep    mu    pl    ilm    q    H2O
0.2827    0  0.07880  0.2946  0.01180  0.3100  0.02205

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : bi, ep, mu, pl, ilm, ky, H2O, (q)

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
9.23    619.7  0.4387  0.2990  0.02425  0.08955  0.2978  0.1945

```

Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1893 0.3878 0.9987 0.8703 0.4290 0.003284
x(ilm) Q(ilm)
0.7074-4.737e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2819	0	0.08057	0.2940	0.01192		0	0.3097 0.02183

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, ep, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.40 623.4 0.4389 0.2986 0.02444 0.09063 0.2964 0.1960
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1907 0.3896 0.9985 0.8552 0.4192 0.003523
x(ilm) Q(ilm)
0.7055-4.811e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2821	0	0.07004	0.3009	0.01183	0.003517	0.3080	0.02360

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 627.5 0.4392 0.2974 0.02463 0.09173 0.2953 0.1976
Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)
0.1921 0.3917 0.9980 0.8284 0.4079 0.003788
x(ilm) Q(ilm)
0.7036-4.894e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2823	0	0.05748	0.3092	0.01173	0.007774	0.3058	0.02572

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.42 625.4 0.4358 0.2864 0.03403 0.07710 0.3053 0.2394
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2307 0.8253 0.1618 0.008728 0.3875 0.9934
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6571 0.3882 0.003682 0.7559 0.6686 0.2797

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
------	----	----	---	----	----	-----	----	---	-----

0.2797 0 0 0.03677 0.3249 0.01239 0.01548 0.3017 0.02906
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.40 622.6 0.4238 0.2764 0.03446 0.07662 0.3148 0.2386
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2301 0.8192 0.1584 0.008369 0.3761 0.9810
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.4697 0.3796 0.003441 0.7602 0.6755 0.2704

mode bi ep g mu pl ilm ky q H2O
0.2704 0 0.007609 0.03836 0.3269 0.01263 0.01547 0.2987 0.02995

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 627.6 0.4180 0.2750 0.03486 0.07874 0.3141 0.2394
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2306 0.8150 0.1621 0.008930 0.3730 0.9675
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3624 0.3737 0.003692 0.7593 0.6723 0.2662

mode bi ep g mu pl ilm ky q H2O
0.2662 0 0.01160 0.03693 0.3289 0.01256 0.01599 0.2970 0.03078

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 633.2 0.4127 0.2745 0.03527 0.08109 0.3123 0.2402
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2311 0.8107 0.1664 0.009596 0.3703 0.9593
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3164 0.3705 0.003973 0.7581 0.6685 0.2624

mode bi ep g mu pl ilm ky q H2O
0.2624 0 0.01541 0.03862 0.3286 0.01246 0.01539 0.2961 0.03104

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 638.9 0.4069 0.2737 0.03568 0.08351 0.3107 0.2410
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2316 0.8060 0.1708 0.01031 0.3672 0.9526
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.2861 0.3676 0.004263 0.7571 0.6650 0.2583

mode bi ep g mu pl ilm ky q H2O
0.2583 0 0.01956 0.04135 0.3276 0.01237 0.01447 0.2952 0.03117

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.20    644.5  0.4007  0.2728  0.03610  0.08597  0.3091  0.2417
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2320  0.8010  0.1752  0.01105  0.3636  0.9469
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.2636  0.3646  0.004559  0.7564  0.6617  0.2539

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2539   0    0.02396  0.04461  0.3263  0.01228  0.01342  0.2943  0.03124

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.40    650.1  0.3942  0.2716  0.03652  0.08847  0.3075  0.2425
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2324  0.7958  0.1796  0.01184  0.3598  0.9416
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.2459  0.3614  0.004861  0.7559  0.6587  0.2493

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2493   0    0.02855  0.04819  0.3248  0.01220  0.01231  0.2934  0.03128

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.60    655.5  0.3875  0.2703  0.03692  0.09099  0.3059  0.2431
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2327  0.7903  0.1841  0.01266  0.3556  0.9368
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.2315  0.3581  0.005170  0.7557  0.6562  0.2446

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2446   0    0.03329  0.05196  0.3230  0.01213  0.01119  0.2925  0.03130

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.80    660.9  0.3807  0.2689  0.03731  0.09353  0.3043  0.2438
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2330  0.7846  0.1886  0.01351  0.3513  0.9323
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.2195  0.3545  0.005486  0.7558  0.6539  0.2398

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2398   0    0.03813  0.05587  0.3212  0.01206  0.01007  0.2916  0.03131

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```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.00    666.1  0.3738  0.2674  0.03768  0.09610  0.3027  0.2443
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2333  0.7788  0.1931  0.01439  0.3469  0.9281
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.2093  0.3507  0.005807  0.7561  0.6522  0.2349

mode     bi    ep    g    mu    pl    ilm    ky    q    H2O
0.2349   0    0.04306  0.05987  0.3192  0.01199  0.008968  0.2907  0.03131

```

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ky, H2O, (q)

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.42	625.5	0.4358	0.2864	0.03402	0.07713	0.3052	0.2393
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2307	0.8253	0.1619	0.008736	0.3875	0.9934	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.6582	0.3882	0.003687	0.7561	0.6689	0.2797	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2797	7.407e-5	0	0.03686	0.3247	0.01238	0.01546	0.3018	0.02904

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.43	625.7	0.4358	0.2866	0.03399	0.07724	0.3051	0.2392
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2306	0.8253	0.1621	0.008761	0.3876	0.9936	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.6620	0.3880	0.003704	0.7570	0.6700	0.2797	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.27970	0.0003197	0	0.03717	0.3242	0.01235	0.01539	0.3018	0.02897

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.44	626.0	0.4358	0.2867	0.03397	0.07735	0.3049	0.2391
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2305	0.8252	0.1624	0.008787	0.3877	0.9937	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.6657	0.3877	0.003721	0.7578	0.6710	0.2797	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.27970	0.0005671	0	0.03748	0.3238	0.01232	0.01532	0.3019	0.02890

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.45	626.2	0.4359	0.2868	0.03394	0.07746	0.3047	0.2390
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2304	0.8252	0.1627	0.008812	0.3878	0.9938	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.6694	0.3875	0.003738	0.7586	0.6720	0.2798	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.27980	0.0008164	0	0.03779	0.3233	0.01229	0.01525	0.3020	0.02883

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.46	626.4	0.4359	0.2869	0.03391	0.07757	0.3045	0.2389

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2303 0.8252 0.1630 0.008837 0.3879 0.9940
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6731 0.3873 0.003755 0.7595 0.6731 0.2798

mode bi ep g mu pl ilm ky q H2O
0.2798 0.001068 0 0.03811 0.3228 0.01225 0.01519 0.3021 0.02876

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.47 626.7 0.4359 0.2871 0.03388 0.07768 0.3043 0.2388
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2302 0.8252 0.1632 0.008862 0.3881 0.9941
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6767 0.3870 0.003772 0.7604 0.6742 0.2798

mode bi ep g mu pl ilm ky q H2O
0.2798 0.001321 0 0.03843 0.3223 0.01222 0.01512 0.3021 0.02869

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.48 626.9 0.4359 0.2872 0.03385 0.07779 0.3041 0.2387
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2301 0.8252 0.1635 0.008887 0.3882 0.9942
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6803 0.3868 0.003789 0.7612 0.6752 0.2799

mode bi ep g mu pl ilm ky q H2O
0.2799 0.001576 0 0.03876 0.3217 0.01219 0.01505 0.3022 0.02862

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.49 627.2 0.4360 0.2873 0.03382 0.07790 0.3040 0.2386
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2300 0.8252 0.1638 0.008912 0.3883 0.9943
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6838 0.3866 0.003806 0.7621 0.6763 0.2799

mode bi ep g mu pl ilm ky q H2O
0.2799 0.001834 0 0.03909 0.3212 0.01216 0.01498 0.3023 0.02854

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.50 627.4 0.4360 0.2874 0.03379 0.07801 0.3038 0.2385
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2298 0.8252 0.1641 0.008936 0.3884 0.9944
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6874 0.3863 0.003823 0.7630 0.6774 0.2799

mode bi ep g mu pl ilm ky q H2O
0.2799 0.002093 0 0.03942 0.3207 0.01213 0.01491 0.3024 0.02847

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.51 627.6 0.4360 0.2875 0.03375 0.07812 0.3036 0.2384

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2297 0.8252 0.1644 0.008960 0.3885 0.9946
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6909 0.3861 0.003840 0.7639 0.6786 0.2799

mode bi ep g mu pl ilm ky q H2O
0.2799 0.002356 0 0.03976 0.3202 0.01209 0.01483 0.3024 0.02840

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.52 627.9 0.4360 0.2877 0.03372 0.07823 0.3034 0.2383
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2296 0.8251 0.1646 0.008985 0.3886 0.9947
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6944 0.3858 0.003857 0.7648 0.6797 0.2800

mode bi ep g mu pl ilm ky q H2O
0.2800 0.002621 0 0.04011 0.3197 0.01206 0.01476 0.3025 0.02832

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.53 628.1 0.4361 0.2878 0.03368 0.07835 0.3032 0.2382
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2295 0.8251 0.1649 0.009009 0.3887 0.9948
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.6978 0.3856 0.003874 0.7658 0.6809 0.2800

mode bi ep g mu pl ilm ky q H2O
0.2800 0.002888 0 0.04046 0.3191 0.01203 0.01468 0.3026 0.02824

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.54 628.3 0.4361 0.2879 0.03365 0.07846 0.3031 0.2380
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2294 0.8251 0.1652 0.009032 0.3888 0.9949
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7013 0.3853 0.003892 0.7667 0.6820 0.2800

mode bi ep g mu pl ilm ky q H2O
0.2800 0.003158 0 0.04082 0.3186 0.01200 0.01461 0.3027 0.02817

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.55 628.5 0.4361 0.2880 0.03361 0.07857 0.3029 0.2379
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2292 0.8251 0.1655 0.009056 0.3889 0.9950
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7047 0.3851 0.003909 0.7677 0.6832 0.2800

mode bi ep g mu pl ilm ky q H2O
0.2800 0.003432 0 0.04119 0.3180 0.01196 0.01453 0.3028 0.02809

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.56 628.8 0.4361 0.2881 0.03357 0.07868 0.3027 0.2378

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2291 0.8251 0.1658 0.009079 0.3890 0.9951
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7082 0.3848 0.003926 0.7686 0.6844 0.2801

mode bi ep g mu pl ilm ky q H2O
 0.2801 0.003708 0 0.04156 0.3174 0.01193 0.01444 0.3028 0.02800

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.57 629.0 0.4362 0.2882 0.03353 0.07879 0.3025 0.2376
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2290 0.8251 0.1660 0.009102 0.3891 0.9952
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7116 0.3846 0.003943 0.7696 0.6857 0.2801

mode bi ep g mu pl ilm ky q H2O
 0.2801 0.003988 0 0.04195 0.3169 0.01190 0.01436 0.3029 0.02792

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.58 629.2 0.4362 0.2883 0.03349 0.07890 0.3024 0.2375
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2288 0.8251 0.1663 0.009125 0.3893 0.9953
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7151 0.3843 0.003961 0.7706 0.6869 0.2801

mode bi ep g mu pl ilm ky q H2O
 0.2801 0.004272 0 0.04235 0.3163 0.01186 0.01427 0.3030 0.02784

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.59 629.4 0.4362 0.2885 0.03345 0.07901 0.3022 0.2373
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2287 0.8251 0.1666 0.009148 0.3894 0.9954
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7185 0.3841 0.003978 0.7717 0.6882 0.2801

mode bi ep g mu pl ilm ky q H2O
 0.2801 0.004560 0 0.04276 0.3157 0.01183 0.01418 0.3031 0.02775

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.60 629.7 0.4362 0.2886 0.03341 0.07913 0.3020 0.2372
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2285 0.8251 0.1669 0.009171 0.3895 0.9955
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.7220 0.3839 0.003995 0.7727 0.6895 0.2802

mode bi ep g mu pl ilm ky q H2O
 0.2802 0.004852 0 0.04318 0.3151 0.01179 0.01409 0.3032 0.02766

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, ky, H2O, (q)

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
9.59	628.8	0.4365	0.2908	0.02992	0.08050	0.3018	0.2217
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2144	0.8263	0.1724	0.008597	0.3890	0.9985	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.8705	0.3946	0.003875	0.8319	0.7660	0.2802	

mode	bi	ep	g	mu	pl	ilm	ky	q	H2O
	0.2802	0.02031	0	0.09418	0.2643	0.01053	0	0.3123	0.01814

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.00	784.9	0.1747	0.2813	0.6577	0.01193	0.01002	0.7457
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5090	0.4502	0.2748	0.03087	0.1224	0.2515	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3293	0.5709	0.7384	0.02586	0.003894	0.4289	
	k(pl)	x(ilm)	Q(ilm)				
	0.01676	0.6842-9.434e-5					

mode	liq	bi	cd	g	pl	ilm	q
	0.1851	0.2330	0.06928	0	0.2858	0.01098	0.2158

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.20	779.2	0.1686	0.2754	0.6680	0.01159	0.008442	0.7450
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5227	0.4518	0.2911	0.03073	0.1210	0.2444	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.3280	0.5940	0.7409	0.02594	0.003657	0.4257	
	k(pl)	x(ilm)	Q(ilm)				
	0.01618	0.6828-9.271e-5					

mode	liq	bi	cd	g	pl	ilm	q
	0.1742	0.2377	0.06626	0	0.2886	0.01088	0.2224

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

5.40 773.3 0.1625 0.2693 0.6789 0.01125 0.007095 0.7439
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5365 0.4530 0.3075 0.03051 0.1196 0.2374
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3262 0.6168 0.7431 0.02608 0.003432 0.4227
k(pl) x(ilm) Q(ilm)
0.01551 0.6815-9.092e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1642	0.2421	0.06318		0	0.2911	0.01080 0.2287

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 767.0 0.1564 0.2628 0.6906 0.01091 0.005935 0.7425
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5504 0.4539 0.3241 0.03021 0.1181 0.2306
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3239 0.6392 0.7451 0.02627 0.003215 0.4201
k(pl) x(ilm) Q(ilm)
0.01476 0.6804-8.891e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1548	0.2463	0.06003		0	0.2934	0.01073 0.2348

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 760.2 0.1504 0.2559 0.7032 0.01055 0.004931 0.7407
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5648 0.4544 0.3407 0.02982 0.1165 0.2239
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3212 0.6613 0.7470 0.02652 0.003005 0.4176
k(pl) x(ilm) Q(ilm)
0.01393 0.6796-8.664e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1460	0.2503	0.05682		0	0.2956	0.01069 0.2406

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 752.7 0.1442 0.2485 0.7168 0.01018 0.004059 0.7384
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5796 0.4547 0.3575 0.02934 0.1148 0.2173
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3181 0.6834 0.7489 0.02684 0.002797 0.4153
k(pl) x(ilm) Q(ilm)
0.01302 0.6790-8.406e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1376	0.2542	0.05352		0	0.2978	0.01067 0.2463

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.20 744.3 0.1380 0.2406 0.7317 0.009773 0.003300 0.7357
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5951 0.4547 0.3746 0.02876 0.1128 0.2110
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3144 0.7053 0.7509 0.02725 0.002589 0.4130
 k(pl) x(ilm) Q(ilm)
 0.01201 0.6789-8.112e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1295	0.2580	0.05014		0	0.2998	0.01068 0.2518

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.40 734.7 0.1317 0.2319 0.7480 0.009328 0.002636 0.7323
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6116 0.4545 0.3920 0.02806 0.1106 0.2049
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3101 0.7273 0.7532 0.02776 0.002377 0.4108
 k(pl) x(ilm) Q(ilm)
 0.01091 0.6792-7.775e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1217	0.2617	0.04667		0	0.3019	0.01072 0.2573

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.60 723.6 0.1250 0.2222 0.7662 0.008829 0.002056 0.7281
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6295 0.4540 0.4101 0.02721 0.1080 0.1989
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3051 0.7496 0.7558 0.02842 0.002158 0.4086
 k(pl) x(ilm) Q(ilm)
 0.009690 0.6803-7.388e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1138	0.2654	0.04302		0	0.3040	0.01080 0.2629

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.80 710.1 0.1173 0.2113 0.7878 0.008248 0.001546 0.7226
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6498 0.4532 0.4295 0.02615 0.1047 0.1930
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2990 0.7727 0.7589 0.02928 0.001922 0.4064
 k(pl) x(ilm) Q(ilm)
 0.008315 0.6824-6.937e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1057	0.2693	0.03906		0	0.3062	0.01094 0.2688

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 7.00 692.2 0.1086 0.1979 0.8138 0.007527 0.001088 0.7149
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6741 0.4520 0.4512 0.02478 0.1003 0.1872
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2910 0.7976 0.7632 0.03050 0.001657 0.4038
k(pl) x(ilm) Q(ilm)
0.006731 0.6861-6.389e-5

mode liq bi cd g pl ilm q
0.09693 0.2733 0.03464 0 0.3087 0.01118 0.2753

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 663.9 0.09727 0.1785 0.8494 0.0064830.0006473 0.7014
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7079 0.4499 0.4787 0.02269 0.09341 0.1815
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2786 0.8274 0.7705 0.03262 0.001313 0.4003
k(pl) x(ilm) Q(ilm)
0.004730 0.6937-5.640e-5

mode liq bi cd g pl ilm q
0.08615 0.2779 0.02907 0 0.3121 0.01164 0.2831

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : liq, bi, g, pl, ilm, ru, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.61 931.1 0.2460 0.3481 0.5005 0.03746 0.03749 0.5369
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3140 0.1660 0.1408 0.02935 0.2471 0.1767
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3635 0.02366 0.01153 0.5778 0.02184 0.7766
Q(ilm)
-0.0001

mode liq bi g pl ilm ru q
0.6853 0 0.1452 0.1512 0.017240.00097510.0001308

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.62 931.2 0.2458 0.3482 0.5005 0.03748 0.03747 0.5370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3141 0.1661 0.1408 0.02937 0.2471 0.1767
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3636 0.02370 0.01155 0.5776 0.02188 0.7764
Q(ilm)
-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6850	0	0.1453	0.1512	0.017220	0.00098300	0.0003367

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

5.63 931.2 0.2457 0.3483 0.5004 0.03750 0.03745 0.5371

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3142 0.1661 0.1408 0.02939 0.2471 0.1767

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3637 0.02375 0.01156 0.5773 0.02192 0.7762

Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6846	0	0.1454	0.1512	0.017210	0.00099090	0.0005423

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

5.64 931.3 0.2455 0.3483 0.5004 0.03752 0.03742 0.5372

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3143 0.1662 0.1408 0.02941 0.2471 0.1767

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3638 0.02380 0.01157 0.5771 0.02196 0.7760

Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6843	0	0.1455	0.1513	0.017190	0.00099870	0.0007476

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

5.65 931.4 0.2453 0.3484 0.5003 0.03753 0.03740 0.5373

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3145 0.1662 0.1409 0.02943 0.2471 0.1767

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3640 0.02384 0.01158 0.5768 0.02199 0.7758

Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6840	0	0.1456	0.1513	0.01717	0.0010070	0.0009525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

5.66 931.4 0.2452 0.3485 0.5002 0.03755 0.03738 0.5375

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3146 0.1663 0.1409 0.02945 0.2471 0.1767

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3641 0.02389 0.01160 0.5766 0.02203 0.7757

Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6836	0	0.1457	0.1513	0.01715	0.001014	0.001157

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.67 931.5 0.2450 0.3485 0.5002 0.03757 0.03735 0.5376
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3147 0.1663 0.1409 0.02947 0.2471 0.1767
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3642 0.02394 0.01161 0.5764 0.02207 0.7755
Q(ilm)
-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6833	0	0.1458	0.1513	0.01714	0.001022	0.001362

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.68 931.6 0.2449 0.3486 0.5001 0.03759 0.03733 0.5377
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3148 0.1663 0.1409 0.02949 0.2472 0.1768
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3643 0.02399 0.01162 0.5761 0.02210 0.7753
Q(ilm)
-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6830	0	0.1459	0.1514	0.01712	0.001030	0.001566

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.69 931.6 0.2447 0.3487 0.5001 0.03760 0.03731 0.5378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3149 0.1664 0.1410 0.02951 0.2472 0.1768
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3644 0.02403 0.01163 0.5759 0.02214 0.7751
Q(ilm)
-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6826	0	0.1460	0.1514	0.01710	0.001038	0.001769

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.70 931.7 0.2446 0.3488 0.5000 0.03762 0.03728 0.5380
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3150 0.1664 0.1410 0.02953 0.2472 0.1768
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3645 0.02408 0.01165 0.5756 0.02218 0.7749
Q(ilm)
-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6823	0	0.1461	0.1514	0.01709	0.001046	0.001973

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

5.71 931.8 0.2444 0.3488 0.4999 0.03764 0.03726 0.5381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3151 0.1665 0.1410 0.02955 0.2472 0.1768
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3646 0.02413 0.01166 0.5754 0.02222 0.7747
Q(ilm)
-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6820	0	0.1462	0.1515	0.01707	0.001054	0.002176

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.72 931.8 0.2443 0.3489 0.4999 0.03766 0.03723 0.5382
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3153 0.1665 0.1410 0.02957 0.2472 0.1768
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3647 0.02418 0.01167 0.5751 0.02225 0.7745
Q(ilm)
-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6817	0	0.1464	0.1515	0.01705	0.001061	0.002379

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.73 931.9 0.2441 0.3490 0.4998 0.03767 0.03721 0.5383
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3154 0.1666 0.1410 0.02959 0.2472 0.1768
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3648 0.02422 0.01169 0.5749 0.02229 0.7744
Q(ilm)
-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6813	0	0.1465	0.1515	0.01704	0.001069	0.002581

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.74 932.0 0.2439 0.3490 0.4998 0.03769 0.03719 0.5384
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3155 0.1666 0.1411 0.02961 0.2472 0.1768
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3649 0.02427 0.01170 0.5747 0.02233 0.7742
Q(ilm)
-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6810	0	0.1466	0.1516	0.01702	0.001077	0.002784

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.75 932.0 0.2438 0.3491 0.4997 0.03771 0.03716 0.5386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3156 0.1667 0.1411 0.02963 0.2472 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3650 0.02432 0.01171 0.5744 0.02237 0.7740
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6807	0	0.1467	0.1516	0.01700	0.001085	0.002985

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.76 932.1 0.2436 0.3492 0.4996 0.03773 0.03714 0.5387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3157 0.1667 0.1411 0.02965 0.2472 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3651 0.02437 0.01172 0.5742 0.02240 0.7738
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6804	0	0.1468	0.1516	0.01699	0.001093	0.003187

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.77 932.1 0.2435 0.3492 0.4996 0.03774 0.03712 0.5388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3158 0.1668 0.1411 0.02967 0.2472 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3653 0.02441 0.01174 0.5739 0.02244 0.7736
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6800	0	0.1469	0.1516	0.01697	0.001100	0.003388

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.78 932.2 0.2433 0.3493 0.4995 0.03776 0.03709 0.5389
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3159 0.1668 0.1412 0.02969 0.2472 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3654 0.02446 0.01175 0.5737 0.02248 0.7734
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6797	0	0.1470	0.1517	0.01695	0.001108	0.003589

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.79 932.3 0.2432 0.3494 0.4995 0.03778 0.03707 0.5390
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3160 0.1669 0.1412 0.02970 0.2472 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3655 0.02451 0.01176 0.5734 0.02252 0.7732

Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6794	0	0.1471	0.1517	0.01693	0.001116	0.003790

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.80	932.3	0.2430	0.3495	0.4994	0.03780	0.03705	0.5392
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3162	0.1669	0.1412	0.02972	0.2473	0.1769
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3656	0.02456	0.01178	0.5732	0.02255	0.7731
		Q(ilm)					

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.6791	0	0.1472	0.1517	0.01692	0.001124	0.003991

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.62	922.8	0.2408	0.3484	0.5060	0.03503	0.03379	0.5522
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3238	0.1782	0.1537	0.02880	0.2410	0.1842
		x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)
		0.1370	0.3537	0.3861	0.02256	0.009943	0.5632
		k(pl)	x(ilm)	Q(ilm)			
		0.02255	0.7869	9.213e-5			

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.6389	0.01839	0	0.1409	0.1627	0.01804	0	0.02101

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.52	930.4	0.2472	0.3473	0.5030	0.03725	0.03676	0.5348
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3137	0.1648	0.1436	0.02734	0.2500	0.1750

x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1272 0.3348 0.3614 0.02259 0.01047 0.5792
 k(pl) x(ilm) Q(ilm)
 0.02145 0.7971-8.989e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6823	0.003316	0	0.1421	0.1520	0.01903	0.001224

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.53 929.6 0.2465 0.3475 0.5034 0.03700 0.03645 0.5367
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3148 0.1662 0.1447 0.02750 0.2490 0.1760
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1282 0.3368 0.3640 0.02259 0.01041 0.5775
 k(pl) x(ilm) Q(ilm)
 0.02156 0.7960-9.012e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6776	0.004938	0	0.1420	0.1532	0.01892	0.003383

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.54 928.8 0.2458 0.3476 0.5037 0.03676 0.03614 0.5386
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3158 0.1676 0.1457 0.02766 0.2480 0.1770
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1293 0.3387 0.3667 0.02259 0.01036 0.5757
 k(pl) x(ilm) Q(ilm)
 0.02168 0.7949-9.035e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6729	0.006546	0	0.1419	0.1543	0.01881	0.005517

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.55 928.0 0.2452 0.3477 0.5040 0.03653 0.03583 0.5404
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3169 0.1690 0.1467 0.02781 0.2471 0.1780
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1303 0.3407 0.3693 0.02259 0.01030 0.5740
 k(pl) x(ilm) Q(ilm)
 0.02180 0.7939-9.058e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6683	0.008140	0	0.1418	0.1554	0.01871	0.007624

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.56 927.2 0.2445 0.3479 0.5043 0.03629 0.03552 0.5423
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3179 0.1704 0.1478 0.02796 0.2461 0.1790
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1313 0.3427 0.3719 0.02258 0.01025 0.5724

k(pl) x(ilm) Q(ilm)
0.02191 0.7928-9.081e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6638	0.009720		0	0.1416	0.1566	0.01860 0.009705

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.57 926.4 0.2438 0.3480 0.5046 0.03606 0.03521 0.5441
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3190 0.1718 0.1488 0.02812 0.2452 0.1800
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1323 0.3446 0.3744 0.02258 0.01019 0.5707
k(pl) x(ilm) Q(ilm)
0.02203 0.7918-9.105e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6593	0.01128		0	0.1415	0.1577	0.01850 0.01176

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.58 925.6 0.2432 0.3481 0.5049 0.03584 0.03490 0.5459
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3200 0.1732 0.1499 0.02826 0.2443 0.1809
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1333 0.3466 0.3770 0.02258 0.01014 0.5691
k(pl) x(ilm) Q(ilm)
0.02214 0.7907-9.128e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6548	0.01283		0	0.1414	0.1588	0.01840 0.01379

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.59 924.9 0.2425 0.3482 0.5052 0.03561 0.03460 0.5476
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3211 0.1746 0.1509 0.02841 0.2434 0.1819
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1343 0.3486 0.3795 0.02257 0.01008 0.5674
k(pl) x(ilm) Q(ilm)
0.02226 0.7897-9.151e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6504	0.01437		0	0.1413	0.1599	0.01830 0.01579

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 924.1 0.2419 0.3483 0.5055 0.03539 0.03429 0.5494
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3221 0.1759 0.1519 0.02856 0.2425 0.1828
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1353 0.3505 0.3820 0.02257 0.01003 0.5658
k(pl) x(ilm) Q(ilm)
0.02237 0.7886-9.174e-5

```

mode   liq   bi   cd   g   pl   ilm   q
      0.6461 0.01589   0 0.1411 0.1609 0.01820 0.01777
calcs use:

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
<=====>
phases : liq, bi, g, pl, ilm, ru, (q)

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 923.3 0.2493 0.3455 0.5066 0.03527 0.03617 0.5412
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3151 0.1714 0.1474 0.02813 0.2430 0.1809
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.3727 0.02119 0.01006 0.5784 0.02079 0.7911
      Q(ilm)
-9.03E-05

```

```

mode   liq   bi   g   pl   ilm   ru   q
      0.6701 0.01143 0.1383 0.1569 0.01852   0 0.004674
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 923.2 0.2452 0.3470 0.5063 0.03517 0.03505 0.5465
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3192 0.1746 0.1503 0.02844 0.2421 0.1825
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.3790 0.02185 0.01001 0.5712 0.02161 0.7892
      Q(ilm)
-9.12E-05

```

```

mode   liq   bi   g   pl   ilm   ru   q
      0.6552 0.01469 0.1396 0.1596 0.01829   0 0.01255
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 922.9 0.2411 0.3483 0.5060 0.03505 0.03389 0.5518
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3235 0.1779 0.1534 0.02877 0.2411 0.1841
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.3855 0.02251 0.009948 0.5638 0.02248 0.7871
      Q(ilm)
-9.21E-05

```

```

mode   liq   bi   g   pl   ilm   ru   q
      0.6402 0.01810 0.1408 0.1625 0.01806   0 0.02036
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 922.4 0.2371 0.3495 0.5057 0.03490 0.03269 0.5571

```

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3279 0.1813 0.1568 0.02911 0.2400 0.1857
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3923 0.02317 0.009882 0.5562 0.02338 0.7849
Q(ilm)

```

-9.30E-05

```

mode liq bi g pl ilm ru q
0.6250 0.02166 0.1419 0.1655 0.01781 0 0.02812

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 921.8 0.2330 0.3506 0.5053 0.03473 0.03144 0.5626
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3325 0.1849 0.1603 0.02948 0.2388 0.1873
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3993 0.02384 0.009807 0.5485 0.02433 0.7826
Q(ilm)

```

-9.40E-05

```

mode liq bi g pl ilm ru q
0.6096 0.02540 0.1429 0.1687 0.01756 0 0.03586

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.33 738.3 0.1339 0.2350 0.7421 0.009490 0.002860 0.7336
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6056 0.4546 0.3858 0.02832 0.1114 0.2070
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.3117 0.7195 0.7524 0.02757 0.002452 0.4116
k(pl) x(ilm) Q(ilm)
0.01131 0.6790-7.899e-5

```

```

mode liq bi cd g pl ilm sill q
0.1244 0.2604 0.04791 0 0.3012 0.01070 0 0.2554

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, (q)

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

```

6.29 701.6 0.1213 0.2051 0.8143 0.007540 0.001868 0.7178
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6549 0.4464 0.3727 0.02676 0.09982 0.2277
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2966 0.7593 0.7604 0.03021 0.001976 0.4082
 k(pl) x(ilm) Q(ilm)
 0.006709 0.6934-6.398e-5

mode	liq	bi	cd	g	pl	ilm	sill	q
	0.1068	0.2748	0.02188		0	0.3051	0.01115	0.01113 0.2691

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.30 706.4 0.1228 0.2087 0.8061 0.007774 0.001977 0.7200
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6489 0.4474 0.3745 0.02698 0.1013 0.2249
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.2986 0.7548 0.7593 0.02985 0.002036 0.4087
 k(pl) x(ilm) Q(ilm)
 0.007186 0.6913-6.566e-5

mode	liq	bi	cd	g	pl	ilm	sill	q
	0.1087	0.2733	0.02473		0	0.3046	0.01108	0.009867 0.2677

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.31 712.1 0.1246 0.2131 0.7960 0.008056 0.002112 0.7224
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6418 0.4486 0.3766 0.02724 0.1030 0.2216
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3008 0.7493 0.7579 0.02944 0.002107 0.4092
 k(pl) x(ilm) Q(ilm)
 0.007787 0.6890-6.774e-5

mode	liq	bi	cd	g	pl	ilm	sill	q
	0.1111	0.2715	0.02826		0	0.3040	0.01099	0.008330 0.2659

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.32 719.4 0.1271 0.2189 0.7823 0.008431 0.002299 0.7256
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6323 0.4502 0.3792 0.02756 0.1053 0.2175
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.3038 0.7417 0.7563 0.02891 0.002200 0.4099
 k(pl) x(ilm) Q(ilm)
 0.008633 0.6861-7.059e-5

mode	liq	bi	cd	g	pl	ilm	sill	q
	0.1144	0.2688	0.03311		0	0.3032	0.01089	0.006239 0.2633

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 705.4 0.1225 0.2080 0.8078 0.007726 0.001954 0.7195
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6502 0.4472 0.3742 0.02694 0.1010 0.2255
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2982 0.7557 0.7595 0.02993 0.002023 0.4086
k(pl) x(ilm) Q(ilm)
0.007086 0.6918-6.531e-5

mode liq bi cd g pl ilm sill q H2O
0.1083 0.2737 0.02414 0 0.3047 0.01109 0.01013 0.2680 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 704.7 0.1218 0.2085 0.8110 0.007568 0.001937 0.7188
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6506 0.4463 0.3733 0.02701 0.1008 0.2263
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2973 0.7562 0.7590 0.02949 0.002007 0.4016
k(pl) x(ilm) Q(ilm)
0.007135 0.6908-6.540e-5

mode liq bi cd g pl ilm sill q H2O
0.09034 0.2764 0.02006 0 0.3108 0.01101 0.01187 0.2739 0.005652
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 700.8 0.1345 0.2148 0.7416 0.007133 0.001136 0.7186
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6316 0.4548 0.4056 0.02719 0.1052 0.2064
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3016 0.7208 0.4061 0.009625 0.6878-6.540e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.1134	0.2643	0.04433	0.3068	0.011040	0.0001612	0.2601	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.80	702.3	0.1310	0.2126	0.7618	0.007306	0.001330	0.7189
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6373	0.4526	0.3966	0.02716	0.1040	0.2118
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3006	0.7312	0.4069	0.008831	0.6887	-6.547e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.1117	0.2672	0.03828	0.3062	0.01104	0.003092	0.2625	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	703.7	0.1275	0.2107	0.7810	0.007476	0.001555	0.7192
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6426	0.4504	0.3876	0.02710	0.1028	0.2172
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2996	0.7412	0.4076	0.008092	0.6899	-6.546e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.1102	0.2699	0.03245	0.3056	0.01105	0.005958	0.2648	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	704.9	0.1241	0.2088	0.7992	0.007644	0.001814	0.7194
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6477	0.4483	0.3786	0.02700	0.1016	0.2227
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2987	0.7510	0.4082	0.007405	0.6911	-6.538e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.1089	0.2725	0.02683	0.3050	0.01108	0.008768	0.2670	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.40	706.0	0.1208	0.2071	0.8164	0.007810	0.002111	0.7196
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6526	0.4462	0.3695	0.02687	0.1004	0.2283
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2976	0.7605	0.4089	0.006767	0.6925	-6.523e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.1077	0.2748	0.02139	0.3044	0.01111	0.01153	0.2690	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.60	706.9	0.1176	0.2055	0.8325	0.007973	0.002452	0.7197
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6573	0.4441	0.3605	0.02671	0.09909	0.2340
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2966	0.7697	0.4095	0.006175	0.6939	-6.502e-5


```
mode  liq  bi  cd  pl  ilm  sill  q  H2O
0.1067 0.2770 0.01611 0.3039 0.01115 0.01425 0.2708 0
```

```
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 707.7 0.1144 0.2040 0.8475 0.008135 0.002842 0.7198
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6617 0.4421 0.3514 0.02652 0.09780 0.2397
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2955 0.7786 0.4100 0.005626 0.6955-6.475e-5
```

```
mode  liq  bi  cd  pl  ilm  sill  q  H2O
0.1058 0.2791 0.01098 0.3034 0.01121 0.01693 0.2726 0
```

```
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 708.3 0.1113 0.2026 0.8615 0.008293 0.003287 0.7199
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6660 0.4401 0.3423 0.02631 0.09648 0.2455
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2944 0.7873 0.4106 0.005118 0.6971-6.444e-5
```

```
mode  liq  bi  cd  pl  ilm  sill  q  H2O
0.1050 0.2810 0.005964 0.3030 0.01127 0.01958 0.2742 0
```

calcs use:

composition (from script)

```
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
```

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

```
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.59 700.8 0.1347 0.2149 0.7405 0.007124 0.001126 0.7186
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6313 0.4549 0.4061 0.02719 0.1053 0.2061
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3016 0.7202 0.4061 0.009670 0.6877-6.539e-5
```

```
mode  liq  bi  cd  pl  ilm  sill  q  H2O
0.1135 0.2641 0.04467 0.3068 0.01104 0 0.2599 0
```

calcs use:

composition (from script)

```
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197
```

<=====>

phases : liq, bi, cd, pl, ilm, H2O, (q)

```
-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 702.4 0.1460 0.2218 0.7110 0.006923 0.001143 0.7195
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
```

0.6135 0.4560 0.3848 0.02801 0.1066 0.2161
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3056 0.6838 0.4072 0.01083 0.6901-6.511e-5

mode liq bi cd pl ilm q H2O
0.1215 0.2596 0.04933 0.3059 0.01108 0.2526 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 701.8 0.1421 0.2193 0.7210 0.006982 0.001130 0.7192
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6198 0.4557 0.3925 0.02773 0.1062 0.2125
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3042 0.6967 0.4068 0.01043 0.6892-6.520e-5

mode liq bi cd pl ilm q H2O
0.1185 0.2612 0.04767 0.3063 0.01106 0.2552 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 701.2 0.1383 0.2169 0.7310 0.007050 0.001125 0.7188
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6258 0.4553 0.3997 0.02745 0.1057 0.2091
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3028 0.7090 0.4064 0.01003 0.6884-6.529e-5

mode liq bi cd pl ilm q H2O
0.1158 0.2628 0.04609 0.3066 0.01105 0.2577 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 700.7 0.1345 0.2148 0.7410 0.007128 0.001126 0.7186
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6316 0.4549 0.4065 0.02718 0.1052 0.2059
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3016 0.7208 0.4061 0.009649 0.6877-6.540e-5

mode liq bi cd pl ilm q H2O
0.1133 0.2642 0.04459 0.3068 0.01104 0.2600 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 681.1 0.1354 0.2041 0.7398 0.0061130 0.0006804 0.7095
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6439 0.4546 0.4174 0.02658 0.1021 0.2054
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2957 0.7191 0.4035 0.008849 0.6922-5.998e-5

mode	liq	bi	cd	pl	ilm	sill	q
	0.1086	0.2659	0.04274	0.3094	0.01123	0	0.2622

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.40	691.2	0.1350	0.2097	0.7401	0.0066150	0.0008826	0.7143
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6375	0.4548	0.4116	0.02690	0.1037	0.2058
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2988	0.7198	0.4048	0.009269	0.6899	-6.265e-5

mode	liq	bi	cd	pl	ilm	sill	q
	0.1110	0.2650	0.04375	0.3081	0.01113	0	0.2610

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.60	701.3	0.1347	0.2152	0.7405	0.007154	0.001142	0.7188
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6310	0.4549	0.4058	0.02721	0.1053	0.2061
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3018	0.7202	0.4062	0.009693	0.6876	-6.555e-5

mode	liq	bi	cd	pl	ilm	sill	q
	0.1136	0.2641	0.04472	0.3067	0.01104	0	0.2599

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.80	711.4	0.1344	0.2206	0.7410	0.007733	0.001473	0.7232
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6243	0.4550	0.4002	0.02752	0.1070	0.2064
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3047	0.7204	0.4076	0.01012	0.6853	-6.874e-5

mode	liq	bi	cd	pl	ilm	sill	q
	0.1163	0.2631	0.04565	0.3053	0.01094	0	0.2587

phases : liq, bi, cd, pl, ilm, sill, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	721.5	0.1342	0.2261	0.7415	0.008356	0.001896	0.7273
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6175	0.4549	0.3947	0.02782	0.1086	0.2067
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3074	0.7204	0.4091	0.01056	0.6830	-7.227e-5

mode	liq	bi	cd	pl	ilm	sill	q
	0.1192	0.2621	0.04653	0.3038	0.01085	0	0.2575

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	731.7	0.1340	0.2315	0.7419	0.009028	0.002436	0.7312
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6104	0.4548	0.3893	0.02812	0.1103	0.2069

x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3101 0.7200 0.4106 0.01101 0.6806-7.620e-5

mode liq bi cd pl ilm sill q
0.1223 0.2611 0.04738 0.3022 0.01076 0 0.2562

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 741.9 0.1339 0.2370 0.7421 0.009753 0.003122 0.7348
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6030 0.4544 0.3839 0.02843 0.1120 0.2071
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.3126 0.7192 0.4122 0.01148 0.6782-8.062e-5

mode liq bi cd pl ilm sill q
0.1256 0.2600 0.04819 0.3006 0.01067 0 0.2549

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 693.6 0.1439 0.2236 0.6855 0.0062330.0006623 0.7136
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6142 0.4556 0.4298 0.02786 0.1082 0.1934
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2993 0.6888 0.3834 0.01286 0.6777-6.669e-5

mode liq bi cd pl ilm sill q H2O
0.05615 0.2696 0.04079 0.3273 0.01057 0 0.2777 0.01781

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.01 693.7 0.1437 0.2234 0.6865 0.0062460.0006684 0.7136
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6145 0.4556 0.4294 0.02785 0.1082 0.1936
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2994 0.6893 0.3837 0.01280 0.6779-6.667e-5

mode liq bi cd pl ilm sill q H2O
0.05699 0.2695 0.04087 0.3270 0.01058 0 0.2774 0.01756

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.02 693.8 0.1436 0.2233 0.6875 0.0062590.0006746 0.7137
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6148 0.4556 0.4290 0.02784 0.1081 0.1938
x(cd) h(cd) ca(pl) k(pl) x(ilm) Q(ilm)
0.2994 0.6899 0.3840 0.01274 0.6781-6.664e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.05784	0.2694	0.04094	0.3267	0.01059		0	0.2772 0.01731

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.03	693.9	0.1434	0.2231	0.6886	0.0062720	0.0006808	0.7138
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6151	0.4556	0.4286	0.02783	0.1081	0.1941	
	x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2995	0.6904	0.3843	0.01268	0.6783	-6.661e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.05869	0.2693	0.04101	0.3264	0.01060		0	0.2769 0.01705

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.04	694.0	0.1432	0.2230	0.6896	0.0062860	0.0006871	0.7139
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6155	0.4555	0.4282	0.02782	0.1080	0.1943	
	x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2995	0.6910	0.3846	0.01262	0.6784	-6.659e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.05955	0.2692	0.04108	0.3261	0.01061		0	0.2766 0.01680

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.05	694.2	0.1431	0.2228	0.6906	0.0062990	0.0006934	0.7140
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6158	0.4555	0.4278	0.02781	0.1080	0.1945	
	x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2996	0.6916	0.3849	0.01256	0.6786	-6.656e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06041	0.2691	0.04115	0.3258	0.01061		0	0.2763 0.01654

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.06	694.3	0.1429	0.2227	0.6916	0.0063120	0.0006998	0.7141
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6161	0.4555	0.4274	0.02780	0.1079	0.1947	
	x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2996	0.6921	0.3853	0.01250	0.6788	-6.653e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06127	0.2691	0.04123	0.3255	0.01062		0	0.2760 0.01628

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.07	694.4	0.1427	0.2225	0.6926	0.0063260	0.0007062	0.7142
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6164	0.4555	0.4270	0.02778	0.1079	0.1949	
	x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.2996	0.6927	0.3856	0.01244	0.6790	-6.651e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06214	0.2690	0.04130	0.3252	0.01063		0	0.2758 0.01601

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.08	694.5	0.1426	0.2223	0.6936	0.0063390	0.0007127	0.7143
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6167	0.4555	0.4266	0.02777	0.1078	0.1951
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2997	0.6932	0.3859	0.01238	0.6792-6.648e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06301	0.2689	0.04137	0.3249	0.01064		0	0.2755 0.01575

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.09	694.7	0.1424	0.2222	0.6947	0.0063530	0.0007192	0.7144
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6170	0.4555	0.4262	0.02776	0.1078	0.1954
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2997	0.6938	0.3863	0.01232	0.6793-6.645e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06389	0.2688	0.04144	0.3246	0.01065		0	0.2752 0.01549

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.10	694.8	0.1422	0.2220	0.6957	0.0063670	0.0007258	0.7145
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6173	0.4555	0.4258	0.02775	0.1077	0.1956
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2998	0.6943	0.3866	0.01226	0.6795-6.643e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06477	0.2687	0.04151	0.3243	0.01066		0	0.2749 0.01522

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.11	694.9	0.1421	0.2219	0.6967	0.0063800	0.0007325	0.7146
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6176	0.4555	0.4254	0.02774	0.1077	0.1958
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2998	0.6949	0.3869	0.01221	0.6797-6.640e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06565	0.2686	0.04158	0.3240	0.01066		0	0.2746 0.01495

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.12	695.0	0.1419	0.2217	0.6977	0.0063940	0.0007392	0.7146
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6179	0.4555	0.4250	0.02773	0.1076	0.1960
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2999	0.6954	0.3873	0.01215	0.6799-6.638e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06654	0.2685	0.04165	0.3237	0.01067		0	0.2743 0.01468

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.13	695.2	0.1417	0.2216	0.6987	0.0064080	0.0007460	0.7147
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6182	0.4555	0.4246	0.02771	0.1076	0.1962
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2999	0.6960	0.3876	0.01209	0.6801	-6.635e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06744	0.2684	0.04172	0.3233	0.01068		0	0.2740 0.01441

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.14	695.3	0.1416	0.2214	0.6996	0.0064220	0.0007528	0.7148
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6185	0.4555	0.4241	0.02770	0.1075	0.1964
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2999	0.6965	0.3879	0.01203	0.6802	-6.633e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06834	0.2683	0.04179	0.3230	0.01069		0	0.2737 0.01413

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.15	695.4	0.1414	0.2213	0.7006	0.0064360	0.0007597	0.7149
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6189	0.4555	0.4237	0.02769	0.1075	0.1966
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3000	0.6971	0.3883	0.01197	0.6804	-6.630e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.06924	0.2682	0.04186	0.3227	0.01070		0	0.2735 0.01386

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.16	695.5	0.1412	0.2211	0.7016	0.0064500	0.0007666	0.7150
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6192	0.4555	0.4233	0.02768	0.1074	0.1969
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3000	0.6976	0.3886	0.01192	0.6806	-6.628e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07015	0.2681	0.04193	0.3224	0.01070		0	0.2732 0.01358

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.17	695.6	0.1411	0.2210	0.7026	0.0064640	0.0007736	0.7151
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6195	0.4555	0.4229	0.02767	0.1074	0.1971
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3001	0.6982	0.3890	0.01186	0.6808	-6.625e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07106	0.2680	0.04200	0.3221	0.01071		0	0.2729 0.01330

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.18	695.8	0.1409	0.2208	0.7036	0.0064780	0.0007806	0.7152
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6198	0.4554	0.4225	0.02766	0.1073	0.1973
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3001	0.6987	0.3893	0.01180	0.6810	-6.623e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07197	0.2679	0.04206	0.3217	0.01072		0	0.2726 0.01302

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.19	695.9	0.1408	0.2207	0.7045	0.0064920	0.0007878	0.7153
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6201	0.4554	0.4221	0.02765	0.1073	0.1975
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3001	0.6993	0.3897	0.01175	0.6811	-6.621e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07289	0.2678	0.04213	0.3214	0.01073		0	0.2723 0.01274

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.20	696.0	0.1406	0.2205	0.7055	0.0065070	0.0007949	0.7154
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6204	0.4554	0.4217	0.02763	0.1072	0.1977
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3002	0.6998	0.3900	0.01169	0.6813	-6.618e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07382	0.2677	0.04220	0.3211	0.01074		0	0.2720 0.01246

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.21	696.1	0.1404	0.2204	0.7065	0.0065210	0.0008022	0.7154
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6207	0.4554	0.4213	0.02762	0.1072	0.1979
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3002	0.7004	0.3904	0.01163	0.6815	-6.616e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07475	0.2676	0.04227	0.3207	0.01074		0	0.2717 0.01217

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.22	696.3	0.1403	0.2202	0.7075	0.0065350	0.0008095	0.7155
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6210	0.4554	0.4209	0.02761	0.1071	0.1982
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3003	0.7009	0.3908	0.01158	0.6817	-6.613e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07568	0.2675	0.04234	0.3204	0.01075		0	0.2714 0.01188

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.23	696.4	0.1401	0.2201	0.7084	0.0065500	0.0008168	0.7156
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6213	0.4554	0.4205	0.02760	0.1071	0.1984
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3003	0.7014	0.3911	0.01152	0.6818	-6.611e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07662	0.2674	0.04240	0.3201	0.01076		0	0.2711 0.01159

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.24	696.5	0.1400	0.2199	0.7094	0.0065650	0.0008242	0.7157
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6215	0.4554	0.4201	0.02759	0.1070	0.1986
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3003	0.7020	0.3915	0.01147	0.6820	-6.609e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07756	0.2674	0.04247	0.3197	0.01077		0	0.2708 0.01130

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.25	696.6	0.1398	0.2198	0.7103	0.0065790	0.0008317	0.7158
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6218	0.4554	0.4197	0.02758	0.1069	0.1988
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3004	0.7025	0.3919	0.01141	0.6822	-6.606e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07851	0.2673	0.04254	0.3194	0.01078		0	0.2705 0.01101

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.26	696.7	0.1396	0.2196	0.7113	0.0065940	0.0008393	0.7159
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6221	0.4554	0.4193	0.02756	0.1069	0.1990
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3004	0.7031	0.3922	0.01136	0.6823	-6.604e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.07946	0.2672	0.04261	0.3191	0.01078		0	0.2702 0.01072

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.27	696.9	0.1395	0.2195	0.7122	0.0066090	0.0008469	0.7160
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6224	0.4554	0.4189	0.02755	0.1068	0.1992
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3005	0.7036	0.3926	0.01130	0.6825	-6.602e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08042	0.2671	0.04267	0.3187	0.01079			0	0.2699 0.01042

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.28	697.0	0.1393	0.2193	0.7132	0.0066240	0.0008545	0.7160
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6227	0.4554	0.4185	0.02754	0.1068	0.1995
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3005	0.7041	0.3930	0.01125	0.6827	-6.600e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08138	0.2670	0.04274	0.3184	0.01080			0	0.2696 0.01012

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.29	697.1	0.1392	0.2192	0.7141	0.0066390	0.0008623	0.7161
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6230	0.4553	0.4181	0.02753	0.1067	0.1997
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3005	0.7047	0.3934	0.01119	0.6829	-6.597e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08235	0.2669	0.04280	0.3180	0.01081			0	0.2693 0.009822

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.30	697.2	0.1390	0.2190	0.7150	0.0066540	0.0008701	0.7162
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6233	0.4553	0.4177	0.02752	0.1067	0.1999
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3006	0.7052	0.3938	0.01114	0.6830	-6.595e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08332	0.2668	0.04287	0.3177	0.01082			0	0.2690 0.009520

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.31	697.4	0.1389	0.2189	0.7160	0.0066690	0.0008779	0.7163
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6236	0.4553	0.4173	0.02751	0.1066	0.2001
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3006	0.7057	0.3941	0.01108	0.6832	-6.593e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08430	0.2667	0.04294	0.3173	0.01082			0	0.2687 0.009217

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.32	697.5	0.1387	0.2187	0.7169	0.0066840	0.0008859	0.7164
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6239	0.4553	0.4169	0.02750	0.1066	0.2003
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3007	0.7063	0.3945	0.01103	0.6834	-6.591e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08528	0.2666	0.04300	0.3170	0.01083			0	0.2684 0.008912

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.33	697.6	0.1385	0.2186	0.7178	0.0066990	0.0008939	0.7165
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6242	0.4553	0.4165	0.02748	0.1065	0.2005
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3007	0.7068	0.3949	0.01098	0.6835-6.589e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08626	0.2665	0.04307	0.3166	0.01084			0	0.2681 0.008605

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.34	697.7	0.1384	0.2185	0.7187	0.0067140	0.0009019	0.7166
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6245	0.4553	0.4161	0.02747	0.1065	0.2008
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3007	0.7073	0.3953	0.01092	0.6837-6.587e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08725	0.2664	0.04313	0.3163	0.01085			0	0.2678 0.008296

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.35	697.8	0.1382	0.2183	0.7197	0.0067300	0.0009100	0.7166
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6247	0.4553	0.4157	0.02746	0.1064	0.2010
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3008	0.7079	0.3957	0.01087	0.6839-6.584e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08824	0.2663	0.04320	0.3159	0.01086			0	0.2675 0.007985

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.36	698.0	0.1381	0.2182	0.7206	0.0067450	0.0009182	0.7167
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6250	0.4553	0.4153	0.02745	0.1064	0.2012
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3008	0.7084	0.3961	0.01082	0.6840-6.582e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.08924	0.2662	0.04326	0.3156	0.01086			0	0.2672 0.007673

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.37	698.1	0.1379	0.2180	0.7215	0.0067610	0.0009265	0.7168
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6253	0.4553	0.4149	0.02744	0.1063	0.2014
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3008	0.7089	0.3965	0.01077	0.6842-6.580e-5	

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.09025	0.2661	0.04332	0.3152	0.01087		0	0.2669 0.007358

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.38	698.2	0.1378	0.2179	0.7224	0.0067770	0.0009348	0.7169
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6256	0.4552	0.4145	0.02743	0.1063	0.2016
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3009	0.7094	0.3969	0.01071	0.6844	-6.578e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.09125	0.2660	0.04339	0.3148	0.01088		0	0.2666 0.007042

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.39	698.3	0.1376	0.2177	0.7233	0.0067920	0.0009432	0.7170
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6259	0.4552	0.4141	0.02742	0.1062	0.2018
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3009	0.7100	0.3973	0.01066	0.6845	-6.576e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.09227	0.2660	0.04345	0.3145	0.01089		0	0.2663 0.006724

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.40	698.4	0.1375	0.2176	0.7242	0.0068080	0.0009517	0.7171
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6262	0.4552	0.4137	0.02740	0.1062	0.2020
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3010	0.7105	0.3977	0.01061	0.6847	-6.574e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.09329	0.2659	0.04352	0.3141	0.01090		0	0.2659 0.006404

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.41	698.6	0.1373	0.2174	0.7251	0.0068240	0.0009602	0.7172
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6264	0.4552	0.4133	0.02739	0.1061	0.2023
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3010	0.7110	0.3982	0.01056	0.6849	-6.572e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.09431	0.2658	0.04358	0.3137	0.01090		0	0.2656 0.006083

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.42	698.7	0.1372	0.2173	0.7260	0.0068400	0.0009689	0.7172
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6267	0.4552	0.4129	0.02738	0.1061	0.2025
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3010	0.7115	0.3986	0.01051	0.6850	-6.570e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.09534	0.2657	0.04364	0.3134	0.01091	0	0.2653	0.005759	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.43	698.8	0.1370	0.2171	0.7269	0.0068560	0.009775	0.7173
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6270	0.4552	0.4125	0.02737	0.1060	0.2027
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3011	0.7120	0.3990	0.01045	0.6852	-6.568e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.09637	0.2656	0.04370	0.3130	0.01092	0	0.2650	0.005434	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.44	698.9	0.1369	0.2170	0.7277	0.0068720	0.009863	0.7174
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6273	0.4552	0.4121	0.02736	0.1060	0.2029
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3011	0.7126	0.3994	0.01040	0.6854	-6.566e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.09741	0.2655	0.04377	0.3126	0.01093	0	0.2647	0.005106	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.45	699.1	0.1367	0.2169	0.7286	0.0068880	0.009951	0.7175
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6276	0.4552	0.4117	0.02735	0.1059	0.2031
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3011	0.7131	0.3998	0.01035	0.6855	-6.564e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.09845	0.2654	0.04383	0.3122	0.01094	0	0.2644	0.004777	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.46	699.2	0.1366	0.2167	0.7295	0.006905	0.001004	0.7176
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6278	0.4551	0.4113	0.02734	0.1059	0.2033
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3012	0.7136	0.4003	0.01030	0.6857	-6.562e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
0.09949	0.2653	0.04389	0.3119	0.01094	0	0.2641	0.004446	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.47	699.3	0.1364	0.2166	0.7304	0.006921	0.001013	0.7176
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6281	0.4551	0.4109	0.02733	0.1058	0.2036
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3012	0.7141	0.4007	0.01025	0.6858	-6.560e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.1005	0.2652	0.04395	0.3115	0.01095		0	0.2637 0.004113

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.48	699.4	0.1363	0.2164	0.7312	0.006938	0.001022	0.7177
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6284	0.4551	0.4105	0.02731	0.1058	0.2038
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3012	0.7146	0.4011	0.01020	0.6860	-6.558e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.1016	0.2651	0.04402	0.3111	0.01096		0	0.2634 0.003778

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.49	699.5	0.1361	0.2163	0.7321	0.006954	0.001031	0.7178
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6287	0.4551	0.4101	0.02730	0.1057	0.2040
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3013	0.7152	0.4016	0.01015	0.6862	-6.557e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.1027	0.2650	0.04408	0.3107	0.01097		0	0.2631 0.003441

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.50	699.7	0.1360	0.2161	0.7330	0.006971	0.001040	0.7179
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6289	0.4551	0.4097	0.02729	0.1057	0.2042
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3013	0.7157	0.4020	0.01010	0.6863	-6.555e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.1037	0.2649	0.04414	0.3103	0.01097		0	0.2628 0.003103

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.51	699.8	0.1359	0.2160	0.7338	0.006988	0.001050	0.7180
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6292	0.4551	0.4093	0.02728	0.1056	0.2044
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3014	0.7162	0.4025	0.01005	0.6865	-6.553e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.1048	0.2648	0.04420	0.3099	0.01098		0	0.2625 0.002762

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.52	699.9	0.1357	0.2159	0.7347	0.007005	0.001059	0.7181
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6295	0.4550	0.4089	0.02727	0.1056	0.2046
		x(cd)	h(cd)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.3014	0.7167	0.4029	0.01000	0.6866	-6.551e-5

mode	liq	bi	cd	pl	ilm	sill	q	H2O
	0.1059	0.2647	0.04426	0.3096	0.01099		0	0.2622 0.002420

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, g, pl, ilm, ru, (q)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.00	913.6	0.2496	0.3473	0.4932	0.03287	0.03618	0.5300
	h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.3181	0.3646	0.02127	0.01019	0.5738	0.02157	
	x(ilm)	Q(ilm)					
	0.7917-8.673e-5						

mode	liq	g	pl	ilm	ru	q
	0.6732	0.1470	0.1608	0.018630	0.0003156	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.20	919.5	0.2484	0.3476	0.4957	0.03436	0.03665	0.5324
	h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.3167	0.3642	0.02202	0.01062	0.5753	0.02165	
	x(ilm)	Q(ilm)					
	0.7868-9.100e-5						

mode	liq	g	pl	ilm	ru	q
	0.6773	0.1463	0.1577	0.018160	0.0005408	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.40	925.3	0.2472	0.3478	0.4982	0.03588	0.03709	0.5346
	h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.3153	0.3639	0.02281	0.01106	0.5767	0.02173	
	x(ilm)	Q(ilm)					
	0.7818-9.573e-5						

mode	liq	g	pl	ilm	ru	q
	0.6814	0.1457	0.1544	0.017700	0.0007577	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.60	931.0	0.2461	0.3481	0.5005	0.03742	0.03750	0.5367
	h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.3139	0.3635	0.02361	0.01152	0.5779	0.02182	
	x(ilm)	Q(ilm)					
	0.7768-0.0001010						

mode	liq	g	pl	ilm	ru	q
	0.6854	0.1452	0.1512	0.017260	0.0009663	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.80 936.5 0.2450 0.3483 0.5029 0.03901 0.03789 0.5388
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3126 0.3630 0.02445 0.01198 0.5791 0.02191
x(ilm) Q(ilm)
0.7717-0.0001069

mode liq g pl ilm ru q
0.6895 0.1446 0.1479 0.01683 0.001167 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 942.0 0.2438 0.3485 0.5052 0.04062 0.03825 0.5408
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3112 0.3626 0.02530 0.01246 0.5801 0.02202
x(ilm) Q(ilm)
0.7667-0.0001135

mode liq g pl ilm ru q
0.6935 0.1441 0.1446 0.01642 0.001360 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 947.4 0.2427 0.3487 0.5074 0.04226 0.03859 0.5427
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3099 0.3622 0.02619 0.01295 0.5810 0.02212
x(ilm) Q(ilm)
0.7616-0.0001211

mode liq g pl ilm ru q
0.6975 0.1436 0.1413 0.01602 0.001546 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 952.7 0.2416 0.3489 0.5096 0.04393 0.03890 0.5445
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3085 0.3617 0.02711 0.01346 0.5817 0.02223
x(ilm) Q(ilm)
0.7565-0.0001298

mode liq g pl ilm ru q
0.7016 0.1432 0.1379 0.01563 0.001724 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 958.0 0.2405 0.3491 0.5118 0.04563 0.03918 0.5462
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3072 0.3613 0.02806 0.01397 0.5824 0.02235
x(ilm) Q(ilm)
0.7514-0.0001398

mode liq g pl ilm ru q
0.7056 0.1428 0.1345 0.01526 0.001896 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 963.1 0.2395 0.3493 0.5140 0.04735 0.03944 0.5479
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3058 0.3608 0.02904 0.01450 0.5829 0.02247
x(ilm) Q(ilm)
0.7464-0.0001516

mode liq g pl ilm ru q
0.7097 0.1424 0.1310 0.01490 0.002061 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 968.2 0.2384 0.3494 0.5161 0.04911 0.03968 0.5495
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3045 0.3604 0.03005 0.01504 0.5833 0.02260
x(ilm) Q(ilm)
0.7413-0.0001655

mode liq g pl ilm ru q
0.7137 0.1421 0.1275 0.01455 0.002220 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 973.1 0.2373 0.3496 0.5182 0.05089 0.03989 0.5511
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3032 0.3600 0.03110 0.01559 0.5836 0.02274
x(ilm) Q(ilm)
0.7362-0.0001823

mode liq g pl ilm ru q
0.7178 0.1418 0.1239 0.01422 0.002373 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 978.0 0.2362 0.3498 0.5203 0.05270 0.04007 0.5526
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3019 0.3595 0.03218 0.01616 0.5838 0.02288
x(ilm) Q(ilm)
0.7312-0.0002030

mode liq g pl ilm ru q
0.7219 0.1415 0.1202 0.01389 0.002521 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 982.9 0.2352 0.3499 0.5224 0.05453 0.04024 0.5541
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3006 0.3591 0.03330 0.01674 0.5839 0.02302
x(ilm) Q(ilm)
0.7261-0.0002290

mode liq g pl ilm ru q
0.7259 0.1413 0.1165 0.01357 0.002663 0

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
7.80    987.6  0.2341  0.3501  0.5245  0.05639  0.04038  0.5556
        h2o(L)  x(g)  z(g)  f(g)  ca(pl)  k(pl)
        0.2993  0.3587  0.03446  0.01734  0.5838  0.02318
        x(ilm)  Q(ilm)
        0.7211-0.0002627

```

```

mode  liq  g  pl  ilm  ru  q
0.7300  0.1411  0.1128  0.01326  0.002800  0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
8.00    992.3  0.2331  0.3503  0.5266  0.05827  0.04049  0.5570
        h2o(L)  x(g)  z(g)  f(g)  ca(pl)  k(pl)
        0.2979  0.3584  0.03565  0.01795  0.5837  0.02333
        x(ilm)  Q(ilm)
        0.7161-0.0003082

```

```

mode  liq  g  pl  ilm  ru  q
0.7342  0.1410  0.1090  0.01296  0.002932  0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
8.20    996.9  0.2320  0.3504  0.5287  0.06017  0.04058  0.5584
        h2o(L)  x(g)  z(g)  f(g)  ca(pl)  k(pl)
        0.2966  0.3580  0.03689  0.01857  0.5834  0.02350
        x(ilm)  Q(ilm)
        0.7112-0.0003728

```

```

mode  liq  g  pl  ilm  ru  q
0.7383  0.1409  0.1051  0.01267  0.003059  0

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, pl, ilm, ru, (q)

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.60    931.1  0.2461  0.3481  0.5006  0.03745  0.03751  0.5368
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.3139  0.1660  0.1408  0.02934  0.2471  0.1767
        x(g)  z(g)  f(g)  ca(pl)  k(pl)  x(ilm)
        0.3634  0.02363  0.01153  0.5780  0.02182  0.7767
        Q(ilm)
        -0.0001

```

```

mode  liq  bi  g  pl  ilm  ru  q
0.6855  0  0.1451  0.1511  0.017250.0009701  0

```

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 928.1 0.2483 0.3467 0.5029 0.03661 0.03725 0.5373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3135 0.1674 0.1427 0.02881 0.2457 0.1779
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3657 0.02248 0.01094 0.5799 0.02122 0.7827
Q(ilm)

-9.63E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.6829	0.003713	0.1422	0.1528	0.017780	0.0006000	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.41 928.2 0.2482 0.3468 0.5028 0.03665 0.03726 0.5373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3135 0.1673 0.1426 0.02883 0.2458 0.1779
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3655 0.02254 0.01097 0.5798 0.02125 0.7824
Q(ilm)

-9.66E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.6830	0.003530	0.1423	0.1527	0.017750	0.0006184	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.42 928.4 0.2480 0.3469 0.5027 0.03669 0.03728 0.5373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3135 0.1672 0.1425 0.02886 0.2459 0.1778
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3654 0.02259 0.01100 0.5797 0.02128 0.7821
Q(ilm)

-9.68E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.6832	0.003347	0.1425	0.1527	0.017730	0.0006368	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.43 928.5 0.2479 0.3469 0.5026 0.03673 0.03729 0.5373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3135 0.1672 0.1424 0.02888 0.2459 0.1777
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3653 0.02265 0.01103 0.5796 0.02131 0.7818
Q(ilm)

-9.70E-05

```

mode   liq   bi    g    pl   ilm   ru    q
0.6833 0.003164 0.1426 0.1526 0.017700.0006552    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.44  928.7 0.2478 0.3470 0.5025 0.03678 0.03730 0.5372
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3136 0.1671 0.1423 0.02891 0.2460 0.1777
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.3652 0.02270 0.01105 0.5795 0.02134 0.7815
      Q(ilm)
-9.72E-05

```

```

mode   liq   bi    g    pl   ilm   ru    q
0.6834 0.002981 0.1428 0.1525 0.017670.0006736    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.45  928.8 0.2477 0.3471 0.5023 0.03682 0.03732 0.5372
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3136 0.1670 0.1422 0.02894 0.2461 0.1776
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.3651 0.02276 0.01108 0.5794 0.02137 0.7812
      Q(ilm)
-9.75E-05

```

```

mode   liq   bi    g    pl   ilm   ru    q
0.6835 0.002798 0.1429 0.1524 0.017650.0006919    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.46  929.0 0.2476 0.3471 0.5022 0.03686 0.03733 0.5372
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3136 0.1670 0.1421 0.02896 0.2461 0.1776
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.3650 0.02281 0.01111 0.5793 0.02140 0.7810
      Q(ilm)
-9.77E-05

```

```

mode   liq   bi    g    pl   ilm   ru    q
0.6837 0.002616 0.1430 0.1523 0.017620.0007102    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.47  929.1 0.2475 0.3472 0.5021 0.03690 0.03734 0.5371
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3136 0.1669 0.1421 0.02899 0.2462 0.1775
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.3649 0.02287 0.01114 0.5792 0.02142 0.7807
      Q(ilm)
-9.79E-05

```

```

mode   liq   bi    g    pl   ilm   ru    q

```

0.6838 0.002433 0.1432 0.1522 0.017600.0007284 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.48 929.2 0.2474 0.3473 0.5020 0.03694 0.03735 0.5371
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3136 0.1668 0.1420 0.02902 0.2463 0.1774
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3648 0.02292 0.01117 0.5791 0.02145 0.7804
Q(ilm)
-9.81E-05

mode liq bi g pl ilm ru q
0.6839 0.002251 0.1433 0.1522 0.017570.0007467 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.49 929.4 0.2473 0.3473 0.5019 0.03698 0.03737 0.5371
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3137 0.1668 0.1419 0.02904 0.2463 0.1774
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3647 0.02298 0.01120 0.5790 0.02148 0.7801
Q(ilm)
-9.84E-05

mode liq bi g pl ilm ru q
0.6841 0.002068 0.1435 0.1521 0.017540.0007649 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.50 929.5 0.2472 0.3474 0.5018 0.03702 0.03738 0.5371
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3137 0.1667 0.1418 0.02907 0.2464 0.1773
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3646 0.02304 0.01122 0.5789 0.02151 0.7798
Q(ilm)
-9.86E-05

mode liq bi g pl ilm ru q
0.6842 0.001886 0.1436 0.1520 0.017520.0007831 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.51 929.7 0.2471 0.3475 0.5017 0.03706 0.03739 0.5370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3137 0.1666 0.1417 0.02909 0.2465 0.1772
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3645 0.02309 0.01125 0.5789 0.02154 0.7795
Q(ilm)
-9.88E-05

mode liq bi g pl ilm ru q
0.6843 0.001704 0.1438 0.1519 0.017490.0008012 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.52 929.8 0.2470 0.3475 0.5015 0.03711 0.03740 0.5370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3137 0.1666 0.1416 0.02912 0.2465 0.1772
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3644 0.02315 0.01128 0.5788 0.02157 0.7792
Q(ilm)

-9.91E-05

mode liq bi g pl ilm ru q
0.6844 0.001521 0.1439 0.1518 0.017470.0008194 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.53 930.0 0.2469 0.3476 0.5014 0.03715 0.03742 0.5370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3138 0.1665 0.1415 0.02915 0.2466 0.1771
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3642 0.02321 0.01131 0.5787 0.02160 0.7789
Q(ilm)

-9.93E-05

mode liq bi g pl ilm ru q
0.6846 0.001339 0.1441 0.1518 0.017440.0008375 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.54 930.1 0.2467 0.3477 0.5013 0.03719 0.03743 0.5370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3138 0.1664 0.1414 0.02917 0.2467 0.1771
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3641 0.02326 0.01134 0.5786 0.02163 0.7786
Q(ilm)

-9.96E-05

mode liq bi g pl ilm ru q
0.6847 0.001157 0.1442 0.1517 0.017410.0008556 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.55 930.3 0.2466 0.3477 0.5012 0.03723 0.03744 0.5369
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3138 0.1664 0.1413 0.02920 0.2467 0.1770
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3640 0.02332 0.01137 0.5785 0.02166 0.7783
Q(ilm)

-9.98E-05

mode liq bi g pl ilm ru q
0.68480.0009751 0.1444 0.1516 0.017390.0008736 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.56 930.4 0.2465 0.3478 0.5011 0.03727 0.03745 0.5369

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3138 0.1663 0.1412 0.02922 0.2468 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3639 0.02338 0.01140 0.5784 0.02169 0.7780
Q(ilm)

-0.0001

mode liq bi g pl ilm ru q
0.68490.0007932 0.1445 0.1515 0.017360.0008917 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.57 930.6 0.2464 0.3479 0.5010 0.03731 0.03747 0.5369
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3138 0.1662 0.1411 0.02925 0.2469 0.1769
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3638 0.02343 0.01143 0.5783 0.02172 0.7777
Q(ilm)

-0.0001

mode liq bi g pl ilm ru q
0.68510.0006114 0.1447 0.1514 0.017340.0009097 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.58 930.7 0.2463 0.3479 0.5008 0.03736 0.03748 0.5368
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3139 0.1662 0.1410 0.02928 0.2469 0.1768
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3637 0.02349 0.01146 0.5782 0.02175 0.7774
Q(ilm)

-0.0001

mode liq bi g pl ilm ru q
0.68520.0004296 0.1448 0.1513 0.017310.0009277 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.59 930.9 0.2462 0.3480 0.5007 0.03740 0.03749 0.5368
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3139 0.1661 0.1409 0.02930 0.2470 0.1767
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3636 0.02355 0.01149 0.5781 0.02178 0.7771
Q(ilm)

-0.0001

mode liq bi g pl ilm ru q
0.68530.0002479 0.1449 0.1513 0.017290.0009456 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 931.0 0.2461 0.3481 0.5006 0.03744 0.03750 0.5368
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3139 0.1660 0.1408 0.02933 0.2471 0.1767

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3635 0.02361 0.01152 0.5780 0.02181 0.7768
Q(ilm)

-0.0001

mode liq bi g pl ilm ru q
0.6854 6.641e-5 0.1451 0.1512 0.017260.0009635 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.47 929.1 0.2475 0.3472 0.5021 0.03690 0.03734 0.5372
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3136 0.1669 0.1421 0.02899 0.2462 0.1775
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1286 0.3333 0.3649 0.02287 0.01114 0.5792
k(pl) x(ilm) Q(ilm)
0.02142 0.7807-9.790e-5

mode liq bi cd g pl ilm ru q
0.6838 0.002442 0 0.1432 0.1523 0.017600.0007276 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.34 928.9 0.2492 0.3459 0.5064 0.03674 0.04004 0.5385
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3113 0.1683 0.1373 0.02737 0.2464 0.1801
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1297 0.3252 0.3670 0.02302 0.01082 0.5815
k(pl) x(ilm) Q(ilm)
0.02086 0.7930-9.134e-5

mode liq bi cd g pl ilm ru q
0.6828 0.007705 0.01059 0.1269 0.1532 0.01878 0 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.36 928.9 0.2489 0.3461 0.5058 0.03676 0.03966 0.5383
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3116 0.1681 0.1380 0.02759 0.2464 0.1797
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1296 0.3263 0.3667 0.02300 0.01086 0.5812
k(pl) x(ilm) Q(ilm)
0.02094 0.7913-9.217e-5

mode liq bi cd g pl ilm ru q
0.6829 0.006973 0.009103 0.1292 0.1531 0.018610.0001045 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 929.0 0.2484 0.3465 0.5045 0.03681 0.03880 0.5379
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3124 0.1677 0.1395 0.02810 0.2463 0.1789
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1292 0.3288 0.3661 0.02295 0.01096 0.5805
k(pl) x(ilm) Q(ilm)
0.02112 0.7874-9.416e-5

mode liq bi cd g pl ilm ru q
0.6832 0.005311 0.005737 0.1344 0.1528 0.018230.0003379 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.44 929.0 0.2479 0.3469 0.5031 0.03686 0.03795 0.5375
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3131 0.1672 0.1410 0.02861 0.2462 0.1781
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1289 0.3314 0.3654 0.02290 0.01106 0.5798
k(pl) x(ilm) Q(ilm)
0.02129 0.7835-9.627e-5

mode liq bi cd g pl ilm ru q
0.6835 0.003657 0.002419 0.1395 0.1525 0.017860.0005644 0

calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 924.7 0.2521 0.3429 0.5134 0.03541 0.04688 0.5485
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3075 0.1774 0.1265 0.02756 0.2381 0.1919

x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1363 0.3084 0.3820 0.02390 0.01146 0.5840
 k(pl) x(ilm) Q(ilm)
 0.01988 0.7829-9.492e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6790	0.01820	0.03237	0.09503	0.1572	0.01821	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.20 927.2 0.2504 0.3447 0.5094 0.03619 0.04278 0.5426
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3097 0.1720 0.1327 0.02745 0.2430 0.1849
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1324 0.3182 0.3731 0.02338 0.01108 0.5826
 k(pl) x(ilm) Q(ilm)
 0.02045 0.7889-9.275e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6811	0.01208	0.01954	0.1139	0.1549	0.01853	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.40 929.6 0.2486 0.3464 0.5052 0.03696 0.03898 0.5369
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3119 0.1668 0.1392 0.02733 0.2478 0.1782
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1286 0.3280 0.3646 0.02287 0.01071 0.5811
 k(pl) x(ilm) Q(ilm)
 0.02104 0.7946-9.079e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.6835	0.005931	0.007024	0.1321	0.1526	0.01888	0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.48 928.7 0.2470 0.3473 0.5024 0.03676 0.03708 0.5383
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3143 0.1677 0.1429 0.02897 0.2458 0.1780
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1292 0.3347 0.3664 0.02284 0.01105 0.5781
 k(pl) x(ilm) Q(ilm)
 0.02150 0.7812-9.742e-5

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.6805	0.003615	0	0.1430	0.1530	0.017630	0.0006711	0.001559

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.52  927.0  0.2452  0.3477  0.5035  0.03624  0.03611  0.5424
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3171 0.1708 0.1460 0.02891 0.2444 0.1799
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.1315 0.3402 0.3722 0.02275 0.01070 0.5736
      k(pl) x(ilm) Q(ilm)
      0.02181 0.7831-9.569e-5

mode  liq  bi  cd  g  pl  ilm  ru  q
      0.6680 0.008046  0 0.1424 0.1559 0.017770.0004617 0.007426

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.56  925.2  0.2434  0.3480  0.5046  0.03574  0.03514  0.5465
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3199 0.1738 0.1491 0.02885 0.2430 0.1818
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.1338 0.3458 0.3780 0.02267 0.01038 0.5693
      k(pl) x(ilm) Q(ilm)
      0.02212 0.7848-9.411e-5

mode  liq  bi  cd  g  pl  ilm  ru  q
      0.6558 0.01239  0 0.1418 0.1587 0.017890.0002631 0.01315

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60  923.5  0.2415  0.3483  0.5056  0.03524  0.03418  0.5506
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3227 0.1769 0.1523 0.02881 0.2416 0.1835
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.1360 0.3514 0.3837 0.02259 0.01007 0.5649
      k(pl) x(ilm) Q(ilm)
      0.02243 0.7864-9.269e-5

mode  liq  bi  cd  g  pl  ilm  ru  q
      0.6438 0.01664  0 0.1412 0.1616 0.01800 7.514e-5 0.01872

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, pl, ilm, ru

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-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00  932.3  0.2435  0.3489  0.5074  0.03770  0.04067  0.5283
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3095 0.1615 0.1438 0.02848 0.2483 0.1721
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.3527 0.02087 0.01087 0.5990 0.01968 0.7886

```

Q(ilm)

-9.48E-05

mode	liq	bi	g	pl	ilm	ru
	0.6992	0	0.1355	0.1464	0.018420	0.0004267

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.01	932.3	0.2436	0.3489	0.5073	0.03769	0.04062	0.5284
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3096	0.1615	0.1438	0.02850	0.2482	0.1722
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3529	0.02091	0.01088	0.5987	0.01971	0.7884

Q(ilm)

-9.49E-05

mode	liq	bi	g	pl	ilm	ru
	0.6990	0	0.1357	0.1465	0.018400	0.0004357

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.02	932.3	0.2436	0.3488	0.5072	0.03769	0.04056	0.5286
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3096	0.1616	0.1437	0.02851	0.2482	0.1723
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3531	0.02095	0.01089	0.5983	0.01974	0.7882

Q(ilm)

-9.50E-05

mode	liq	bi	g	pl	ilm	ru
	0.6988	0	0.1359	0.1465	0.018380	0.0004447

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.03	932.2	0.2437	0.3488	0.5071	0.03768	0.04051	0.5287
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3097	0.1617	0.1437	0.02852	0.2482	0.1723
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3533	0.02099	0.01090	0.5980	0.01978	0.7880

Q(ilm)

-9.51E-05

mode	liq	bi	g	pl	ilm	ru
	0.6985	0	0.1360	0.1466	0.018360	0.0004538

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.04	932.2	0.2437	0.3488	0.5070	0.03768	0.04045	0.5289
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3098	0.1618	0.1437	0.02854	0.2482	0.1724
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3535	0.02104	0.01091	0.5976	0.01981	0.7879

Q(ilm)

-9.52E-05

```

mode   liq   bi    g    pl   ilm    ru
      0.6983   0 0.1362 0.1467 0.018350.0004628
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.05  932.2 0.2437 0.3488 0.5069 0.03768 0.04040 0.5290
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3098 0.1618 0.1436 0.02855 0.2482 0.1725
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.3537 0.02108 0.01092 0.5973 0.01985 0.7877
      Q(ilm)
-9.53E-05

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mode   liq   bi    g    pl   ilm    ru
      0.6981   0 0.1364 0.1468 0.018330.0004718
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.06  932.2 0.2438 0.3488 0.5068 0.03767 0.04034 0.5292
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3099 0.1619 0.1436 0.02856 0.2481 0.1726
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.3538 0.02112 0.01093 0.5969 0.01988 0.7875
      Q(ilm)
-9.54E-05

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```

mode   liq   bi    g    pl   ilm    ru
      0.6978   0 0.1365 0.1469 0.018310.0004809
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.07  932.2 0.2438 0.3488 0.5066 0.03767 0.04029 0.5293
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3100 0.1620 0.1435 0.02858 0.2481 0.1727
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.3540 0.02116 0.01094 0.5966 0.01991 0.7873
      Q(ilm)
-9.54E-05

```

```

mode   liq   bi    g    pl   ilm    ru
      0.6976   0 0.1367 0.1469 0.018290.0004899
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.08  932.1 0.2439 0.3488 0.5065 0.03766 0.04023 0.5294
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3101 0.1621 0.1435 0.02859 0.2481 0.1727
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.3542 0.02121 0.01095 0.5962 0.01995 0.7871
      Q(ilm)
-9.55E-05

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mode   liq   bi    g    pl   ilm    ru

```

0.6974 0 0.1368 0.1470 0.018270.0004989

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.09 932.1 0.2439 0.3488 0.5064 0.03766 0.04018 0.5296
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3101 0.1622 0.1434 0.02861 0.2481 0.1728
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3544 0.02125 0.01096 0.5959 0.01998 0.7869
Q(ilm)

-9.56E-05

mode liq bi g pl ilm ru
0.6971 0 0.1370 0.1471 0.018250.0005079

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.10 932.1 0.2440 0.3488 0.5063 0.03765 0.04013 0.5297
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3102 0.1622 0.1434 0.02862 0.2481 0.1729
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3546 0.02129 0.01097 0.5956 0.02002 0.7867
Q(ilm)

-9.57E-05

mode liq bi g pl ilm ru
0.6969 0 0.1372 0.1472 0.018230.0005170

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.11 932.1 0.2440 0.3488 0.5062 0.03765 0.04007 0.5299
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3103 0.1623 0.1433 0.02863 0.2480 0.1730
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3548 0.02134 0.01098 0.5952 0.02005 0.7865
Q(ilm)

-9.58E-05

mode liq bi g pl ilm ru
0.6967 0 0.1373 0.1473 0.018210.0005260

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.12 932.0 0.2440 0.3487 0.5061 0.03764 0.04002 0.5300
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3104 0.1624 0.1433 0.02865 0.2480 0.1730
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3549 0.02138 0.01099 0.5949 0.02009 0.7863
Q(ilm)

-9.59E-05

mode liq bi g pl ilm ru
0.6964 0 0.1375 0.1473 0.018190.0005350

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.13 932.0 0.2441 0.3487 0.5060 0.03764 0.03996 0.5302
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3104 0.1625 0.1432 0.02866 0.2480 0.1731
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3551 0.02143 0.01100 0.5945 0.02012 0.7861
Q(ilm)
-9.60E-05

mode	liq	bi	g	pl	ilm	ru
	0.6962	0	0.1377	0.1474	0.018170	0.0005441

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.14 932.0 0.2441 0.3487 0.5059 0.03764 0.03991 0.5303
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3105 0.1626 0.1432 0.02868 0.2480 0.1732
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3553 0.02147 0.01101 0.5942 0.02016 0.7860
Q(ilm)
-9.61E-05

mode	liq	bi	g	pl	ilm	ru
	0.6960	0	0.1378	0.1475	0.018150	0.0005531

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.15 932.0 0.2442 0.3487 0.5058 0.03763 0.03986 0.5305
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3106 0.1626 0.1431 0.02869 0.2480 0.1733
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3555 0.02151 0.01102 0.5938 0.02019 0.7858
Q(ilm)
-9.62E-05

mode	liq	bi	g	pl	ilm	ru
	0.6957	0	0.1380	0.1476	0.018130	0.0005621

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.16 932.0 0.2442 0.3487 0.5056 0.03763 0.03980 0.5306
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3107 0.1627 0.1431 0.02870 0.2479 0.1734
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3557 0.02156 0.01103 0.5935 0.02023 0.7856
Q(ilm)
-9.63E-05

mode	liq	bi	g	pl	ilm	ru
	0.6955	0	0.1382	0.1476	0.018110	0.0005711

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.17 931.9 0.2442 0.3487 0.5055 0.03762 0.03975 0.5308

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3107 0.1628 0.1430 0.02872 0.2479 0.1734
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3558 0.02160 0.01104 0.5931 0.02026 0.7854
Q(ilm)

-9.64E-05

mode	liq	bi	g	pl	ilm	ru
	0.6953	0	0.1383	0.1477	0.018090	0.0005802

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.18 931.9 0.2443 0.3487 0.5054 0.03762 0.03970 0.5309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3108 0.1629 0.1430 0.02873 0.2479 0.1735
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3560 0.02165 0.01105 0.5928 0.02030 0.7852
Q(ilm)

-9.65E-05

mode	liq	bi	g	pl	ilm	ru
	0.6951	0	0.1385	0.1478	0.018070	0.0005892

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.19 931.9 0.2443 0.3487 0.5053 0.03761 0.03964 0.5311
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3109 0.1629 0.1429 0.02875 0.2479 0.1736
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3562 0.02169 0.01106 0.5924 0.02033 0.7850
Q(ilm)

-9.66E-05

mode	liq	bi	g	pl	ilm	ru
	0.6948	0	0.1386	0.1479	0.018050	0.0005982

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 931.9 0.2444 0.3487 0.5052 0.03761 0.03959 0.5312
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3110 0.1630 0.1429 0.02876 0.2479 0.1737
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3564 0.02173 0.01107 0.5921 0.02037 0.7848
Q(ilm)

-9.67E-05

mode	liq	bi	g	pl	ilm	ru
	0.6946	0	0.1388	0.1480	0.018030	0.0006072

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.21 931.9 0.2444 0.3487 0.5051 0.03761 0.03954 0.5313
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3110 0.1631 0.1428 0.02877 0.2478 0.1737

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3566 0.02178 0.01108 0.5917 0.02040 0.7846
Q(ilm)

-9.68E-05

mode	liq	bi	g	pl	ilm	ru
	0.6944	0	0.1390	0.1480	0.018020	0.0006163

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.22 931.8 0.2445 0.3486 0.5050 0.03760 0.03948 0.5315
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3111 0.1632 0.1428 0.02879 0.2478 0.1738
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3567 0.02182 0.01109 0.5914 0.02044 0.7844
Q(ilm)

-9.69E-05

mode	liq	bi	g	pl	ilm	ru
	0.6941	0	0.1391	0.1481	0.018000	0.0006253

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.23 931.8 0.2445 0.3486 0.5049 0.03760 0.03943 0.5316
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3112 0.1633 0.1427 0.02880 0.2478 0.1739
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3569 0.02187 0.01110 0.5910 0.02047 0.7842
Q(ilm)

-9.70E-05

mode	liq	bi	g	pl	ilm	ru
	0.6939	0	0.1393	0.1482	0.017980	0.0006343

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.24 931.8 0.2445 0.3486 0.5047 0.03759 0.03938 0.5318
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3113 0.1633 0.1427 0.02882 0.2478 0.1740
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3571 0.02191 0.01111 0.5907 0.02051 0.7840
Q(ilm)

-9.71E-05

mode	liq	bi	g	pl	ilm	ru
	0.6937	0	0.1394	0.1483	0.017960	0.0006433

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.25 931.8 0.2446 0.3486 0.5046 0.03759 0.03933 0.5319
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3113 0.1634 0.1426 0.02883 0.2478 0.1740
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3573 0.02196 0.01112 0.5903 0.02054 0.7838

Q(ilm)

-9.72E-05

mode	liq	bi	g	pl	ilm	ru
	0.6934	0	0.1396	0.1484	0.017940	0.0006523

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.26	931.8	0.2446	0.3486	0.5045	0.03759	0.03927	0.5321
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3114	0.1635	0.1426	0.02885	0.2477	0.1741
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3575	0.02200	0.01113	0.5900	0.02058	0.7836
		Q(ilm)					

-9.73E-05

mode	liq	bi	g	pl	ilm	ru
	0.6932	0	0.1398	0.1484	0.017920	0.0006613

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.27	931.7	0.2447	0.3486	0.5044	0.03758	0.03922	0.5322
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3115	0.1636	0.1425	0.02886	0.2477	0.1742
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3576	0.02205	0.01115	0.5896	0.02061	0.7834
		Q(ilm)					

-9.74E-05

mode	liq	bi	g	pl	ilm	ru
	0.6930	0	0.1399	0.1485	0.017900	0.0006704

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.28	931.7	0.2447	0.3486	0.5043	0.03758	0.03917	0.5323
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3116	0.1636	0.1425	0.02887	0.2477	0.1743
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3578	0.02209	0.01116	0.5893	0.02065	0.7832
		Q(ilm)					

-9.75E-05

mode	liq	bi	g	pl	ilm	ru
	0.6928	0	0.1401	0.1486	0.017880	0.0006794

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.29	931.7	0.2448	0.3486	0.5042	0.03757	0.03912	0.5325
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3116	0.1637	0.1424	0.02889	0.2477	0.1743
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3580	0.02214	0.01117	0.5889	0.02068	0.7830
		Q(ilm)					

-9.76E-05

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mode   liq   bi    g    pl   ilm    ru
      0.6925   0 0.1402 0.1487 0.017860.0006884
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.30  931.7 0.2448 0.3485 0.5041 0.03757 0.03906 0.5326
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3117 0.1638 0.1424 0.02890 0.2477 0.1744
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.3582 0.02219 0.01118 0.5886 0.02072 0.7828
      Q(ilm)
-9.77E-05

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mode   liq   bi    g    pl   ilm    ru
      0.6923   0 0.1404 0.1488 0.017840.0006974
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.31  931.7 0.2448 0.3485 0.5040 0.03757 0.03901 0.5328
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3118 0.1639 0.1423 0.02892 0.2477 0.1745
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.3584 0.02223 0.01119 0.5882 0.02075 0.7826
      Q(ilm)
-9.78E-05

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mode   liq   bi    g    pl   ilm    ru
      0.6921   0 0.1406 0.1488 0.017820.0007064
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.32  931.6 0.2449 0.3485 0.5038 0.03756 0.03896 0.5329
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3118 0.1639 0.1423 0.02893 0.2476 0.1746
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.3585 0.02228 0.01120 0.5879 0.02079 0.7824
      Q(ilm)
-9.79E-05

```

```

mode   liq   bi    g    pl   ilm    ru
      0.6919   0 0.1407 0.1489 0.017800.0007154
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.33  931.6 0.2449 0.3485 0.5037 0.03756 0.03891 0.5330
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3119 0.1640 0.1422 0.02894 0.2476 0.1746
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.3587 0.02232 0.01121 0.5875 0.02082 0.7822
      Q(ilm)
-9.80E-05

```

```

mode   liq   bi    g    pl   ilm    ru

```

0.6916 0 0.1409 0.1490 0.017780.0007244

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.34 931.6 0.2450 0.3485 0.5036 0.03755 0.03885 0.5332
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3120 0.1641 0.1422 0.02896 0.2476 0.1747
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3589 0.02237 0.01122 0.5872 0.02086 0.7820
Q(ilm)

-9.81E-05

mode liq bi g pl ilm ru
0.6914 0 0.1410 0.1491 0.017760.0007334

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.35 931.6 0.2450 0.3485 0.5035 0.03755 0.03880 0.5333
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3121 0.1642 0.1421 0.02897 0.2476 0.1748
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3591 0.02242 0.01123 0.5868 0.02090 0.7818
Q(ilm)

-9.82E-05

mode liq bi g pl ilm ru
0.6912 0 0.1412 0.1491 0.017740.0007424

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.36 931.6 0.2450 0.3485 0.5034 0.03755 0.03875 0.5335
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3121 0.1642 0.1421 0.02899 0.2476 0.1749
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3592 0.02246 0.01124 0.5865 0.02093 0.7817
Q(ilm)

-9.84E-05

mode liq bi g pl ilm ru
0.6909 0 0.1414 0.1492 0.017720.0007514

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.37 931.5 0.2451 0.3484 0.5033 0.03754 0.03870 0.5336
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3122 0.1643 0.1420 0.02900 0.2475 0.1749
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3594 0.02251 0.01125 0.5861 0.02097 0.7815
Q(ilm)

-9.85E-05

mode liq bi g pl ilm ru
0.6907 0 0.1415 0.1493 0.017700.0007604

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.38  931.5  0.2451  0.3484  0.5032  0.03754  0.03865  0.5337
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.3123  0.1644  0.1420  0.02902  0.2475  0.1750
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.3596  0.02256  0.01127  0.5858  0.02100  0.7813
      Q(ilm)
-9.86E-05

```

```

mode  liq  bi  g  pl  ilm  ru
0.6905  0  0.1417  0.1494  0.017680.0007694

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.39  931.5  0.2452  0.3484  0.5030  0.03753  0.03859  0.5339
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.3124  0.1645  0.1419  0.02903  0.2475  0.1751
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.3598  0.02260  0.01128  0.5854  0.02104  0.7811
      Q(ilm)
-9.87E-05

```

```

mode  liq  bi  g  pl  ilm  ru
0.6903  0  0.1418  0.1495  0.017670.0007784

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.40  931.5  0.2452  0.3484  0.5029  0.03753  0.03854  0.5340
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.3124  0.1645  0.1419  0.02904  0.2475  0.1752
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.3599  0.02265  0.01129  0.5851  0.02108  0.7808
      Q(ilm)
-9.88E-05

```

```

mode  liq  bi  g  pl  ilm  ru
0.6900  0  0.1420  0.1495  0.017650.0007874

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.41  931.5  0.2453  0.3484  0.5028  0.03753  0.03849  0.5342
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.3125  0.1646  0.1418  0.02906  0.2475  0.1752
      x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
      0.3601  0.02270  0.01130  0.5847  0.02111  0.7806
      Q(ilm)
-9.89E-05

```

```

mode  liq  bi  g  pl  ilm  ru
0.6898  0  0.1421  0.1496  0.017630.0007964

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
5.42  931.4  0.2453  0.3484  0.5027  0.03752  0.03844  0.5343

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3126 0.1647 0.1418 0.02907 0.2474 0.1753
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3603 0.02274 0.01131 0.5844 0.02115 0.7804
Q(ilm)

-9.90E-05

mode	liq	bi	g	pl	ilm	ru
	0.6896	0	0.1423	0.1497	0.017610	0.0008054

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.43 931.4 0.2453 0.3484 0.5026 0.03752 0.03839 0.5344
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3127 0.1647 0.1417 0.02909 0.2474 0.1754
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3605 0.02279 0.01132 0.5840 0.02118 0.7802
Q(ilm)

-9.91E-05

mode	liq	bi	g	pl	ilm	ru
	0.6894	0	0.1425	0.1498	0.017590	0.0008144

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.44 931.4 0.2454 0.3483 0.5025 0.03751 0.03834 0.5346
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3127 0.1648 0.1417 0.02910 0.2474 0.1755
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3606 0.02284 0.01133 0.5837 0.02122 0.7800
Q(ilm)

-9.92E-05

mode	liq	bi	g	pl	ilm	ru
	0.6891	0	0.1426	0.1499	0.017570	0.0008234

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.45 931.4 0.2454 0.3483 0.5024 0.03751 0.03829 0.5347
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3128 0.1649 0.1416 0.02912 0.2474 0.1755
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3608 0.02288 0.01135 0.5833 0.02126 0.7798
Q(ilm)

-9.93E-05

mode	liq	bi	g	pl	ilm	ru
	0.6889	0	0.1428	0.1499	0.017550	0.0008324

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.46 931.3 0.2455 0.3483 0.5022 0.03751 0.03823 0.5348
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3129 0.1650 0.1415 0.02913 0.2474 0.1756

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3610 0.02293 0.01136 0.5830 0.02129 0.7796
Q(ilm)

-9.94E-05

mode	liq	bi	g	pl	ilm	ru
	0.6887	0	0.1429	0.1500	0.017530	0.0008413

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.47 931.3 0.2455 0.3483 0.5021 0.03750 0.03818 0.5350
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3129 0.1650 0.1415 0.02914 0.2473 0.1757
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3612 0.02298 0.01137 0.5826 0.02133 0.7794
Q(ilm)

-9.96E-05

mode	liq	bi	g	pl	ilm	ru
	0.6885	0	0.1431	0.1501	0.017510	0.0008503

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.48 931.3 0.2455 0.3483 0.5020 0.03750 0.03813 0.5351
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3130 0.1651 0.1414 0.02916 0.2473 0.1757
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3613 0.02303 0.01138 0.5823 0.02137 0.7792
Q(ilm)

-9.97E-05

mode	liq	bi	g	pl	ilm	ru
	0.6882	0	0.1432	0.1502	0.017490	0.0008593

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.49 931.3 0.2456 0.3483 0.5019 0.03750 0.03808 0.5353
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3131 0.1652 0.1414 0.02917 0.2473 0.1758
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3615 0.02308 0.01139 0.5819 0.02140 0.7790
Q(ilm)

-9.98E-05

mode	liq	bi	g	pl	ilm	ru
	0.6880	0	0.1434	0.1502	0.017470	0.0008683

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.50 931.3 0.2456 0.3483 0.5018 0.03749 0.03803 0.5354
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3132 0.1653 0.1413 0.02919 0.2473 0.1759
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3617 0.02312 0.01140 0.5816 0.02144 0.7788

Q(ilm)

-9.99E-05

mode	liq	bi	g	pl	ilm	ru
	0.6878	0	0.1435	0.1503	0.017450	0.0008772

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.51	931.2	0.2457	0.3482	0.5017	0.03749	0.03798	0.5355
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3132	0.1653	0.1413	0.02920	0.2473	0.1760	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3618	0.02317	0.01141	0.5812	0.02148	0.7786	
	Q(ilm)						

-0.0001

mode	liq	bi	g	pl	ilm	ru
	0.6876	0	0.1437	0.1504	0.017430	0.0008862

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.52	931.2	0.2457	0.3482	0.5016	0.03748	0.03793	0.5357
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3133	0.1654	0.1412	0.02922	0.2472	0.1760	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3620	0.02322	0.01143	0.5809	0.02151	0.7784	
	Q(ilm)						

-0.0001

mode	liq	bi	g	pl	ilm	ru
	0.6874	0	0.1439	0.1505	0.017410	0.0008952

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.53	931.2	0.2458	0.3482	0.5014	0.03748	0.03788	0.5358
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3134	0.1655	0.1412	0.02923	0.2472	0.1761	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3622	0.02327	0.01144	0.5805	0.02155	0.7782	
	Q(ilm)						

-0.0001

mode	liq	bi	g	pl	ilm	ru
	0.6871	0	0.1440	0.1506	0.017390	0.0009041

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.54	931.2	0.2458	0.3482	0.5013	0.03748	0.03783	0.5359
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3135	0.1655	0.1411	0.02924	0.2472	0.1762	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.3624	0.02332	0.01145	0.5802	0.02159	0.7780	
	Q(ilm)						

-0.0001

mode liq bi g pl ilm ru
0.6869 0 0.1442 0.1506 0.017370.0009131

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.55 931.2 0.2458 0.3482 0.5012 0.03747 0.03778 0.5361
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3135 0.1656 0.1411 0.02926 0.2472 0.1763
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3625 0.02336 0.01146 0.5798 0.02162 0.7778
Q(ilm)
-0.0001

mode liq bi g pl ilm ru
0.6867 0 0.1443 0.1507 0.017350.0009221

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.56 931.1 0.2459 0.3482 0.5011 0.03747 0.03773 0.5362
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3136 0.1657 0.1410 0.02927 0.2472 0.1763
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3627 0.02341 0.01147 0.5795 0.02166 0.7776
Q(ilm)
-0.0001

mode liq bi g pl ilm ru
0.6865 0 0.1445 0.1508 0.017340.0009310

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.57 931.1 0.2459 0.3481 0.5010 0.03747 0.03768 0.5363
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3137 0.1658 0.1410 0.02929 0.2471 0.1764
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3629 0.02346 0.01149 0.5791 0.02170 0.7774
Q(ilm)
-0.0001

mode liq bi g pl ilm ru
0.6862 0 0.1446 0.1509 0.017320.0009400

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.58 931.1 0.2460 0.3481 0.5009 0.03746 0.03763 0.5365
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3138 0.1658 0.1409 0.02930 0.2471 0.1765
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3630 0.02351 0.01150 0.5788 0.02173 0.7772
Q(ilm)
-0.0001

mode liq bi g pl ilm ru

0.6860 0 0.1448 0.1510 0.017300.0009489

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.59 931.1 0.2460 0.3481 0.5007 0.03746 0.03758 0.5366
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3138 0.1659 0.1408 0.02932 0.2471 0.1766
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3632 0.02356 0.01151 0.5784 0.02177 0.7770
Q(ilm)
-0.0001

mode liq bi g pl ilm ru
0.6858 0 0.1449 0.1510 0.017280.0009579

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 931.1 0.2460 0.3481 0.5006 0.03745 0.03753 0.5367
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3139 0.1660 0.1408 0.02933 0.2471 0.1766
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3634 0.02361 0.01152 0.5781 0.02181 0.7768
Q(ilm)
-0.0001

mode liq bi g pl ilm ru
0.6856 0 0.1451 0.1511 0.017260.0009668

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.45 931.4 0.2454 0.3483 0.5023 0.03751 0.03827 0.5347
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3128 0.1649 0.1416 0.02912 0.2474 0.1755
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1273 0.3301 0.3609 0.02290 0.01135 0.5833
k(pl) x(ilm) Q(ilm)
0.02127 0.7798-9.935e-5

mode liq bi cd g pl ilm ru
0.6889 0 0 0.1428 0.1500 0.017540.0008344

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.46 930.4 0.2464 0.3478 0.5022 0.03723 0.03786 0.5358
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3132 0.1658 0.1418 0.02906 0.2468 0.1764
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1279 0.3315 0.3627 0.02288 0.01125 0.5815
k(pl) x(ilm) Q(ilm)
0.02134 0.7802-9.869e-5

mode liq bi cd g pl ilm ru
0.6866 0.001095 0 0.1430 0.1510 0.017570.0007860

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.47 929.0 0.2476 0.3472 0.5021 0.03688 0.03732 0.5372
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3136 0.1670 0.1421 0.02898 0.2462 0.1775
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1287 0.3334 0.3650 0.02286 0.01113 0.5791
k(pl) x(ilm) Q(ilm)
0.02143 0.7807-9.786e-5

mode liq bi cd g pl ilm ru
0.6837 0.002506 0 0.1432 0.1523 0.017600.0007248

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.48 927.7 0.2488 0.3465 0.5020 0.03653 0.03678 0.5386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3141 0.1681 0.1423 0.02891 0.2455 0.1787
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1295 0.3352 0.3673 0.02285 0.01101 0.5768
k(pl) x(ilm) Q(ilm)
0.02152 0.7811-9.707e-5

mode liq bi cd g pl ilm ru
0.6808 0.003903 0 0.1434 0.1536 0.017630.0006656

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.49 926.4 0.2500 0.3458 0.5018 0.03619 0.03625 0.5399
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3146 0.1693 0.1426 0.02885 0.2448 0.1798
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1302 0.3371 0.3696 0.02283 0.01090 0.5745
k(pl) x(ilm) Q(ilm)
0.02161 0.7816-9.631e-5

mode liq bi cd g pl ilm ru
0.6779 0.005284 0 0.1436 0.1550 0.017650.0006083

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.50	925.1	0.2512	0.3451	0.5016	0.03585	0.03572	0.5413
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3150	0.1704	0.1429	0.02879	0.2441	0.1809	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1310	0.3389	0.3719	0.02282	0.01079	0.5722	
	k(pl)	x(ilm)	Q(ilm)				
	0.02170	0.7820	9.559e-5				

mode	liq	bi	cd	g	pl	ilm	ru
	0.6750	0.006651	0	0.1438	0.1563	0.017670	0.0005531

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.51	923.8	0.2523	0.3444	0.5014	0.03552	0.03520	0.5426
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3155	0.1715	0.1432	0.02873	0.2434	0.1820	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1317	0.3408	0.3742	0.02280	0.01068	0.5700	
	k(pl)	x(ilm)	Q(ilm)				
	0.02179	0.7823	9.490e-5				

mode	liq	bi	cd	g	pl	ilm	ru
	0.6722	0.008001	0	0.1440	0.1576	0.017690	0.0004998

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.52	922.5	0.2535	0.3438	0.5012	0.03519	0.03469	0.5439
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3160	0.1726	0.1435	0.02867	0.2427	0.1830	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1325	0.3426	0.3765	0.02279	0.01057	0.5677	
	k(pl)	x(ilm)	Q(ilm)				
	0.02188	0.7826	9.424e-5				

mode	liq	bi	cd	g	pl	ilm	ru
	0.6694	0.009336	0	0.1442	0.1589	0.017710	0.0004486

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.53	921.3	0.2547	0.3431	0.5010	0.03487	0.03418	0.5451
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3164	0.1737	0.1438	0.02862	0.2421	0.1841	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1332	0.3445	0.3787	0.02277	0.01047	0.5655	
	k(pl)	x(ilm)	Q(ilm)				
	0.02197	0.7829	9.361e-5				

mode	liq	bi	cd	g	pl	ilm	ru
	0.6666	0.01065	0	0.1444	0.1602	0.017720	0.0003993

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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5.54 920.0 0.2559 0.3423 0.5008 0.03455 0.03367 0.5464
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3169 0.1749 0.1440 0.02858 0.2414 0.1852
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1340 0.3463 0.3809 0.02276 0.01037 0.5633
k(pl) x(ilm) Q(ilm)
0.02205 0.7831-9.301e-5

mode liq bi cd g pl ilm ru
0.6639 0.01196 0 0.1446 0.1614 0.017740.0003521

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.55 918.7 0.2571 0.3416 0.5005 0.03424 0.03318 0.5476
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3173 0.1759 0.1443 0.02853 0.2407 0.1862
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1347 0.3482 0.3831 0.02274 0.01027 0.5612
k(pl) x(ilm) Q(ilm)
0.02214 0.7834-9.243e-5

mode liq bi cd g pl ilm ru
0.6612 0.01324 0 0.1448 0.1627 0.017740.0003069

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.56 917.5 0.2582 0.3409 0.5003 0.03393 0.03268 0.5488
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3178 0.1770 0.1446 0.02849 0.2401 0.1873
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1354 0.3500 0.3853 0.02273 0.01017 0.5590
k(pl) x(ilm) Q(ilm)
0.02223 0.7835-9.188e-5

mode liq bi cd g pl ilm ru
0.6585 0.01451 0 0.1450 0.1640 0.017750.0002636

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.57 916.2 0.2594 0.3402 0.5000 0.03363 0.03220 0.5500
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3182 0.1781 0.1449 0.02846 0.2394 0.1883
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1361 0.3519 0.3875 0.02272 0.01008 0.5569
k(pl) x(ilm) Q(ilm)
0.02231 0.7837-9.136e-5

mode liq bi cd g pl ilm ru
0.6559 0.01577 0 0.1451 0.1652 0.017760.0002223

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.58 915.0 0.2605 0.3395 0.4997 0.03333 0.03172 0.5512
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3187 0.1792 0.1452 0.02842 0.2388 0.1893
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1368 0.3537 0.3896 0.02270 0.009986 0.5548
k(pl) x(ilm) Q(ilm)
0.02239 0.7838-9.086e-5

mode liq bi cd g pl ilm ru
0.6533 0.01700 0 0.1453 0.1665 0.017760.0001829

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.59 913.8 0.2617 0.3388 0.4994 0.03304 0.03124 0.5524
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3191 0.1802 0.1455 0.02839 0.2381 0.1903
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1375 0.3556 0.3917 0.02269 0.009897 0.5527
k(pl) x(ilm) Q(ilm)
0.02248 0.7839-9.038e-5

mode liq bi cd g pl ilm ru
0.6507 0.01822 0 0.1455 0.1677 0.017760.0001455

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 912.5 0.2628 0.3380 0.4991 0.03275 0.03077 0.5535
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3196 0.1813 0.1458 0.02837 0.2375 0.1913
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1382 0.3574 0.3938 0.02268 0.009810 0.5507
k(pl) x(ilm) Q(ilm)
0.02256 0.7839-8.993e-5

mode liq bi cd g pl ilm ru
0.6482 0.01943 0 0.1456 0.1689 0.017750.0001100

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : liq, cd, g, pl, ilm, ru

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.28 901.8 0.2543 0.3447 0.4801 0.03020 0.03261 0.5333
h2o(L) x(cd) h(cd) x(g) z(g) f(g)
0.3253 0.1275 0.3555 0.3752 0.02299 0.01022
ca(pl) k(pl) x(ilm) Q(ilm) liq cd
0.5494 0.02388 0.7865-8.520e-5 0.6529 0

mode liq cd g pl ilm ru
0.6529 0 0.1568 0.1717 0.018070.0005768

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.32 908.0 0.2525 0.3457 0.4850 0.03162 0.03369 0.5340
h2o(L) x(cd) h(cd) x(g) z(g) f(g)
0.3228 0.1276 0.3504 0.3725 0.02296 0.01044
ca(pl) k(pl) x(ilm) Q(ilm) liq cd
0.5563 0.02333 0.7853-8.777e-5 0.6600 0

mode liq cd g pl ilm ru
0.6600 0 0.1541 0.1673 0.017960.0006274

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.36 914.6 0.2505 0.3466 0.4900 0.03318 0.03490 0.5345
h2o(L) x(cd) h(cd) x(g) z(g) f(g)
0.3200 0.1277 0.3448 0.3695 0.02293 0.01067
ca(pl) k(pl) x(ilm) Q(ilm) liq cd
0.5636 0.02275 0.7839-9.069e-5 0.6678 0

mode liq cd g pl ilm ru
0.6678 0 0.1512 0.1625 0.017850.0006824

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 921.5 0.2484 0.3474 0.4952 0.03491 0.03624 0.5348
h2o(L) x(cd) h(cd) x(g) z(g) f(g)
0.3171 0.1276 0.3388 0.3661 0.02291 0.01094
ca(pl) k(pl) x(ilm) Q(ilm) liq cd
0.5716 0.02213 0.7823-9.404e-5 0.6763 0

mode liq cd g pl ilm ru
0.6763 0 0.1479 0.1574 0.017730.0007431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.44 929.0 0.2462 0.3481 0.5006 0.03686 0.03776 0.5348
h2o(L) x(cd) h(cd) x(g) z(g) f(g)
0.3139 0.1274 0.3322 0.3622 0.02290 0.01124
ca(pl) k(pl) x(ilm) Q(ilm) liq cd
0.5804 0.02148 0.7804-9.798e-5 0.6857 0

mode liq cd g pl ilm ru
0.6857 0 0.1441 0.1518 0.017590.0008114

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.48 937.0 0.2437 0.3487 0.5063 0.03908 0.03951 0.5344
h2o(L) x(cd) h(cd) x(g) z(g) f(g)
0.3103 0.1270 0.3250 0.3576 0.02289 0.01160
ca(pl) k(pl) x(ilm) Q(ilm) liq cd
0.5901 0.02077 0.7782-0.0001028 0.6964 0

mode liq cd g pl ilm ru
0.6964 0 0.1397 0.1456 0.017430.0008902

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.52 945.8 0.2409 0.3491 0.5123 0.04165 0.04154 0.5335
 h2o(L) x(cd) h(cd) x(g) z(g) f(g)
 0.3064 0.1262 0.3169 0.3521 0.02290 0.01203
 ca(pl) k(pl) x(ilm) Q(ilm) liq cd
 0.6009 0.02001 0.7755-0.0001088 0.7086 0

mode liq cd g pl ilm ru
 0.7086 0 0.1344 0.1387 0.017250.0009836

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.56 955.8 0.2378 0.3492 0.5188 0.04474 0.04399 0.5318
 h2o(L) x(cd) h(cd) x(g) z(g) f(g)
 0.3019 0.1251 0.3075 0.3453 0.02291 0.01257
 ca(pl) k(pl) x(ilm) Q(ilm) liq cd
 0.6134 0.01915 0.7720-0.0001169 0.7230 0

mode liq cd g pl ilm ru
 0.7230 0 0.1280 0.1308 0.01702 0.001099

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.60 967.5 0.2340 0.3489 0.5260 0.04863 0.04707 0.5288
 h2o(L) x(cd) h(cd) x(g) z(g) f(g)
 0.2965 0.1233 0.2963 0.3364 0.02295 0.01330
 ca(pl) k(pl) x(ilm) Q(ilm) liq cd
 0.6284 0.01817 0.7672-0.0001289 0.7410 0

mode liq cd g pl ilm ru
 0.7410 0 0.1198 0.1212 0.01673 0.001250

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.64 982.8 0.2291 0.3476 0.5348 0.05414 0.05141 0.5232
 h2o(L) x(cd) h(cd) x(g) z(g) f(g)
 0.2893 0.1202 0.2813 0.3234 0.02302 0.01441
 ca(pl) k(pl) x(ilm) Q(ilm) liq cd
 0.6482 0.01693 0.7595-0.0001509 0.7660 0

mode liq cd g pl ilm ru
 0.7660 0 0.1078 0.1084 0.01630 0.001472

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : liq, bi, cd, g, pl, ilm, ru

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.15 940.5 0.2398 0.3500 0.5108 0.03987 0.04791 0.5260

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3051 0.1584 0.1311 0.02692 0.2529 0.1714
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1230 0.3026 0.3465 0.02330 0.01175 0.6044
 k(pl) x(ilm) Q(ilm)
 0.01962 0.7963-9.391e-5

mode	liq	bi	cd	g	pl	ilm	ru
	0.7087	0	0.02145	0.1079	0.1425	0.01936	0

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

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phases : liq, bi, cd, g, pl, ilm, ru

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.24 935.3 0.2439 0.3483 0.5088 0.03843 0.04419 0.5318
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3080 0.1629 0.1340 0.02711 0.2500 0.1754
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1261 0.3128 0.3558 0.02317 0.01131 0.5940
 k(pl) x(ilm) Q(ilm)
 0.02019 0.7950-9.263e-5

mode	liq	bi	cd	g	pl	ilm	ru
	0.6969	0.003315	0.01605	0.1173	0.1473	0.01910	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.28 932.8 0.2459 0.3475 0.5079 0.03777 0.04255 0.5344
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3093 0.1650 0.1353 0.02721 0.2486 0.1772
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1275 0.3176 0.3601 0.02311 0.01111 0.5892
 k(pl) x(ilm) Q(ilm)
 0.02045 0.7943-9.210e-5

mode	liq	bi	cd	g	pl	ilm	ru
	0.6914	0.004960	0.01382	0.1213	0.1495	0.01898	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.32 930.3 0.2480 0.3465 0.5070 0.03711 0.04094 0.5371
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3106 0.1671 0.1366 0.02731 0.2472 0.1790
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1289 0.3224 0.3645 0.02305 0.01092 0.5843
 k(pl) x(ilm) Q(ilm)

0.02071 0.7935-9.160e-5

mode	liq	bi	cd	g	pl	ilm	ru	
	0.6859	0.006693	0.01171	0.1250	0.1519	0.01885	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

5.36 927.8 0.2501 0.3454 0.5060 0.03645 0.03935 0.5397

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3119 0.1692 0.1379 0.02742 0.2458 0.1809

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1303 0.3273 0.3689 0.02299 0.01074 0.5794

k(pl) x(ilm) Q(ilm)

0.02098 0.7926-9.113e-5

mode	liq	bi	cd	g	pl	ilm	ru	
	0.6803	0.008514	0.009749	0.1284	0.1543	0.01872	0	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

5.40 925.1 0.2523 0.3443 0.5050 0.03578 0.03779 0.5422

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3132 0.1714 0.1392 0.02753 0.2444 0.1828

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1318 0.3324 0.3734 0.02294 0.01055 0.5743

k(pl) x(ilm) Q(ilm)

0.02125 0.7916-9.069e-5

mode	liq	bi	cd	g	pl	ilm	ru	
	0.6746	0.01043	0.007920	0.1317	0.1568	0.01859	0	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

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phases : bi, ep, mu, pl, ilm, ky, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

9.40 622.8 0.4390 0.2966 0.02341 0.09095 0.2980 0.1909

Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)

0.1859 0.3896 0.9987 0.8756 0.4209 0.003401

x(ilm) Q(ilm)

0.7222-4.582e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
	0.2819	0.005465	0.08428	0.2856	0.01144	0	0.3104	0.02090

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

9.60 626.3 0.4393 0.2938 0.02249 0.09250 0.2984 0.1868

Q(ep) fe(mu) y(mu) na(mu) ca(pl) k(pl)

0.1820 0.3916 0.9987 0.8808 0.4116 0.003537

x(ilm) Q(ilm)
0.7379-4.437e-5

mode	bi	ep	mu	pl	ilm	ky	q	H2O
0.2819	0.01128	0.08826	0.2767	0.01095	0	0.3110	0.01991	

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, (q)

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.36	928.5	0.2486	0.3461	0.5064	0.03663	0.03962	0.5394
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3121	0.1689	0.1383	0.02746	0.2461	0.1804	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1302	0.3270	0.3682	0.02299	0.01076	0.5804	
	k(pl)	x(ilm)	Q(ilm)				
	0.02097	0.7926-9.137e-5					

mode	liq	bi	cd	g	pl	ilm	ru	q
0.6799	0.008348	0.009824	0.1280	0.1538	0.01873	0	0.001360	

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.40	927.7	0.2474	0.3465	0.5063	0.03638	0.03866	0.5414
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3139	0.1703	0.1407	0.02766	0.2453	0.1810	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1312	0.3311	0.3710	0.02292	0.01062	0.5777	
	k(pl)	x(ilm)	Q(ilm)				
	0.02121	0.7919-9.144e-5					

mode	liq	bi	cd	g	pl	ilm	ru	q
0.6735	0.009837	0.008116	0.1303	0.1552	0.01863	0	0.004455	

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.44	926.8	0.2462	0.3469	0.5062	0.03613	0.03772	0.5435
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3157	0.1718	0.1430	0.02787	0.2445	0.1817	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1323	0.3352	0.3738	0.02285	0.01049	0.5750	
	k(pl)	x(ilm)	Q(ilm)				
	0.02146	0.7910-9.154e-5					

mode	liq	bi	cd	g	pl	ilm	ru	q
0.6670	0.01136	0.006475	0.1325	0.1565	0.01852	0	0.007537	

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.48	925.9	0.2450	0.3473	0.5062	0.03588	0.03680	0.5455

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3175 0.1732 0.1454 0.02808 0.2437 0.1823
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1333 0.3394 0.3766 0.02278 0.01036 0.5723
 k(pl) x(ilm) Q(ilm)
 0.02170 0.7902-9.165e-5

mode liq bi cd g pl ilm ru q
 0.6606 0.01290 0.004900 0.1346 0.1579 0.01841 0 0.01061

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.52 925.0 0.2438 0.3477 0.5061 0.03563 0.03590 0.5475
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3194 0.1747 0.1478 0.02829 0.2429 0.1829
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1344 0.3435 0.3793 0.02272 0.01024 0.5696
 k(pl) x(ilm) Q(ilm)
 0.02195 0.7893-9.177e-5

mode liq bi cd g pl ilm ru q
 0.6543 0.01447 0.003391 0.1366 0.1593 0.01830 0 0.01367

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.56 924.1 0.2425 0.3480 0.5061 0.03538 0.03501 0.5494
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3212 0.1761 0.1502 0.02850 0.2421 0.1835
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1355 0.3477 0.3821 0.02265 0.01011 0.5670
 k(pl) x(ilm) Q(ilm)
 0.02220 0.7883-9.191e-5

mode liq bi cd g pl ilm ru q
 0.6479 0.01608 0.001944 0.1385 0.1607 0.01819 0 0.01671

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.60 923.2 0.2413 0.3483 0.5060 0.03514 0.03414 0.5514
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3231 0.1776 0.1527 0.02871 0.2413 0.1840
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1365 0.3520 0.3849 0.02259 0.009993 0.5643
 k(pl) x(ilm) Q(ilm)
 0.02245 0.7874-9.206e-5

mode liq bi cd g pl ilm ru q
 0.6416 0.017700 0.005591 0.1402 0.1621 0.01808 0 0.01975

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, sill, H2O, (q)

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.32 705.5 0.1221 0.2078 0.8091 0.007746 0.001954 0.7179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6507 0.4443 0.3726 0.02709 0.1012 0.2266
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2960 0.7568 0.7576 0.02999 0.002033 0.4088
k(pl) x(ilm) Q(ilm)
0.007033 0.6917-6.536e-5

mode liq bi cd g pl ilm sill q H2O
0.1089 0.2738 0.02095 0.001441 0.3044 0.01106 0.01116 0.2684 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.36 705.7 0.1215 0.2075 0.8116 0.007783 0.001954 0.7151
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6516 0.4389 0.3699 0.02735 0.1016 0.2288
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2921 0.7587 0.7541 0.03010 0.002050 0.4091
k(pl) x(ilm) Q(ilm)
0.006937 0.6915-6.546e-5

mode liq bi cd g pl ilm sill q H2O
0.1100 0.2740 0.01517 0.004050 0.3037 0.01101 0.01302 0.2691 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 705.9 0.1209 0.2072 0.8141 0.007820 0.001954 0.7122
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6526 0.4336 0.3672 0.02762 0.1020 0.2308
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2883 0.7606 0.7505 0.03021 0.002067 0.4095
k(pl) x(ilm) Q(ilm)
0.006843 0.6913-6.556e-5

mode liq bi cd g pl ilm sill q H2O
0.1111 0.2742 0.009443 0.006637 0.3030 0.01096 0.01487 0.2698 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.44 706.0 0.1203 0.2069 0.8165 0.007857 0.001953 0.7093
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6535 0.4283 0.3645 0.02788 0.1024 0.2328
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.2844 0.7624 0.7469 0.03031 0.002084 0.4098
k(pl) x(ilm) Q(ilm)
0.006749 0.6910-6.566e-5

mode liq bi cd g pl ilm sill q H2O
0.1121 0.2744 0.003756 0.009202 0.3024 0.01091 0.01670 0.2705 0

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

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phases : liq, bi, g, mu, pl, ilm, ky, H2O, (q)

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.68	688.3	0.06866	0.1890	0.8059	0.010720	0.0008521	0.7202			
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
		0.7287	0.4271	0.3188	0.02853	0.1090	0.2600			
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
		0.7983	0.1589	0.008817	0.4002	0.9171	0.1402			
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
		0.3950	0.007719	0.6784-6.520e-5	0.09036	0.2752				
mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.09036	0.2752	0.01068	0.001807	0.3066	0.01039	0.02321	0.2817		0

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.72	688.2	0.06825	0.1889	0.8075	0.010740	0.0008476	0.7186			
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
		0.7292	0.4240	0.3168	0.02858	0.1094	0.2615			
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
		0.7970	0.1610	0.008990	0.3976	0.9169	0.1411			
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
		0.3940	0.007679	0.6799-6.476e-5	0.08993	0.2727				
mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.08993	0.2727	0.01278	0.004397	0.3058	0.01044	0.02252	0.2814		0

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.76	688.1	0.06783	0.1888	0.8092	0.010750	0.0008430	0.7169			
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
		0.7298	0.4210	0.3147	0.02863	0.1098	0.2629			
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
		0.7957	0.1632	0.009167	0.3951	0.9166	0.1420			
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
		0.3930	0.007639	0.6813-6.432e-5	0.08951	0.2703				
mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.08951	0.2703	0.01486	0.006956	0.3050	0.01048	0.02185	0.2811		0

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
10.84	688.0	0.06701	0.1885	0.8125	0.010790	0.0008337	0.7136			
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
		0.7309	0.4149	0.3107	0.02873	0.1106	0.2658			
		x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)			
		0.7931	0.1675	0.009535	0.3899	0.9162	0.1439			
		ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi			
		0.3909	0.007560	0.6842-6.348e-5	0.08867	0.2655				

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.08867	0.2655	0.01898	0.01199	0.3033	0.01057	0.02054	0.2805		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
10.88	687.9	0.06661	0.1884	0.8141	0.010800	0.0008289	0.7119	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7314	0.4119	0.3086	0.02878	0.1110	0.2672		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7917	0.1698	0.009726	0.3873	0.9159	0.1448		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.3899	0.007521	0.6856-6.308e-5	0.08825	0.2631			

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.08825	0.2631	0.02101	0.01446	0.3025	0.01062	0.01990	0.2802		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
10.92	687.8	0.06620	0.1883	0.8158	0.010820	0.0008240	0.7103	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7319	0.4089	0.3067	0.02882	0.1114	0.2686		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7904	0.1720	0.009922	0.3848	0.9157	0.1458		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.3888	0.007482	0.6870-6.268e-5	0.08784	0.2608			

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.08784	0.2608	0.02303	0.01691	0.3016	0.01066	0.01928	0.2799		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
10.96	687.7	0.06579	0.1882	0.8175	0.010830	0.0008191	0.7086	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7325	0.4060	0.3047	0.02886	0.1118	0.2699		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7890	0.1743	0.01012	0.3822	0.9155	0.1468		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.3876	0.007443	0.6884-6.229e-5	0.08743	0.2585			

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
	0.08743	0.2585	0.02503	0.01933	0.3007	0.01070	0.01867	0.2796		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
11.00	687.6	0.06538	0.1881	0.8192	0.010850	0.0008140	0.7069	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7330	0.4030	0.3027	0.02890	0.1122	0.2712		
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)		
	0.7877	0.1766	0.01033	0.3796	0.9153	0.1479		
	ca(pl)	k(pl)	x(ilm)	Q(ilm)	liq	bi		
	0.3865	0.007404	0.6897-6.191e-5	0.08702	0.2562			

mode	liq	bi	g	mu	pl	ilm	ky	q	H2O	
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0.08702 0.2562 0.02702 0.02173 0.2999 0.01074 0.01807 0.2793 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

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phases : liq, bi, cd, g, pl, ilm

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 944.0 0.2369 0.3504 0.5141 0.04079 0.05310 0.5227
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3017 0.1562 0.1261 0.02687 0.2536 0.1703
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1215 0.2904 0.3413 0.02362 0.01236 0.6137
k(pl) x(ilm) Q(ilm)
0.01893 0.7943-9.624e-5

mode liq bi cd g pl ilm
0.7181 0 0.03239 0.09044 0.1397 0.01943

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.04 943.0 0.2377 0.3503 0.5132 0.04054 0.05168 0.5236
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3026 0.1568 0.1274 0.02688 0.2534 0.1706
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1219 0.2936 0.3428 0.02354 0.01219 0.6112
k(pl) x(ilm) Q(ilm)
0.01911 0.7949-9.558e-5

mode liq bi cd g pl ilm
0.7155 0 0.02940 0.09524 0.1404 0.01941

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.08 942.1 0.2385 0.3502 0.5123 0.04029 0.05030 0.5245
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3035 0.1574 0.1287 0.02689 0.2532 0.1709
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1223 0.2968 0.3442 0.02345 0.01203 0.6088
k(pl) x(ilm) Q(ilm)
0.01929 0.7954-9.495e-5

mode liq bi cd g pl ilm
0.7130 0 0.02649 0.09990 0.1412 0.01939

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.12 941.2 0.2392 0.3501 0.5115 0.04006 0.04895 0.5253
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3044 0.1580 0.1300 0.02690 0.2530 0.1712

x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1227 0.3001 0.3455 0.02337 0.01187 0.6063
 k(pl) x(ilm) Q(ilm)
 0.01947 0.7959-9.436e-5

mode	liq	bi	cd	g	pl	ilm
	0.7106	0	0.02366	0.1044	0.1419	0.01938

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.16 940.3 0.2399 0.3500 0.5106 0.03983 0.04765 0.5261
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3053 0.1585 0.1313 0.02692 0.2529 0.1714
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1230 0.3033 0.3467 0.02328 0.01172 0.6039
 k(pl) x(ilm) Q(ilm)
 0.01966 0.7963-9.380e-5

mode	liq	bi	cd	g	pl	ilm
	0.7082	0	0.02090	0.1088	0.1427	0.01936

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.20 939.5 0.2406 0.3498 0.5097 0.03960 0.04637 0.5268
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3061 0.1590 0.1327 0.02694 0.2528 0.1716
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1234 0.3065 0.3479 0.02320 0.01157 0.6015
 k(pl) x(ilm) Q(ilm)
 0.01984 0.7968-9.326e-5

mode	liq	bi	cd	g	pl	ilm
	0.7059	0	0.01821	0.1131	0.1434	0.01935

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.24 938.6 0.2413 0.3497 0.5089 0.03938 0.04514 0.5275
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3070 0.1594 0.1340 0.02696 0.2527 0.1717
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1236 0.3097 0.3491 0.02312 0.01143 0.5992
 k(pl) x(ilm) Q(ilm)
 0.02002 0.7972-9.275e-5

mode	liq	bi	cd	g	pl	ilm
	0.7037	0	0.01560	0.1172	0.1441	0.01933

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.28 937.8 0.2420 0.3495 0.5080 0.03917 0.04393 0.5281
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.3078 0.1598 0.1353 0.02698 0.2526 0.1719
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1239 0.3129 0.3501 0.02303 0.01130 0.5968

k(pl) x(ilm) Q(ilm)
0.02020 0.7976-9.226e-5

mode	liq	bi	cd	g	pl	ilm
	0.7015	0	0.01305	0.1212	0.1449	0.01932

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.32 937.0 0.2427 0.3493 0.5072 0.03896 0.04276 0.5287
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3086 0.1602 0.1366 0.02700 0.2525 0.1720
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1241 0.3161 0.3511 0.02295 0.01116 0.5945
k(pl) x(ilm) Q(ilm)
0.02038 0.7979-9.180e-5

mode	liq	bi	cd	g	pl	ilm
	0.6994	0	0.01057	0.1251	0.1456	0.01931

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.36 936.2 0.2433 0.3491 0.5063 0.03876 0.04162 0.5292
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3094 0.1606 0.1379 0.02703 0.2525 0.1720
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1244 0.3192 0.3521 0.02287 0.01104 0.5923
k(pl) x(ilm) Q(ilm)
0.02056 0.7983-9.135e-5

mode	liq	bi	cd	g	pl	ilm
	0.6973	0	0.008151	0.1289	0.1463	0.01930

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 935.4 0.2440 0.3489 0.5054 0.03857 0.04051 0.5297
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3102 0.1609 0.1393 0.02706 0.2525 0.1721
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1246 0.3224 0.3530 0.02279 0.01091 0.5900
k(pl) x(ilm) Q(ilm)
0.02075 0.7986-9.092e-5

mode	liq	bi	cd	g	pl	ilm
	0.6953	0	0.005795	0.1326	0.1471	0.01929

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.898	63.816	10.268	3.153	5.380	4.966	1.951	2.670	0.700	0.197

<=====>

phases : liq, bi, cd, g, pl, ilm, ru

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.28 936.5 0.2423 0.3494 0.5072 0.03881 0.04354 0.5302
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3085 0.1615 0.1356 0.02780 0.2505 0.1735
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1250 0.3144 0.3532 0.02313 0.01154 0.5952
k(pl) x(ilm) Q(ilm)
0.02032 0.7899-9.573e-5

mode	liq	bi	cd	g	pl	ilm	ru
	0.6998	0	0.01176	0.1237	0.1457	0.018590	0.0003529

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.32 935.3 0.2431 0.3492 0.5061 0.03849 0.04226 0.5313
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3095 0.1623 0.1370 0.02809 0.2497 0.1740
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1256 0.3180 0.3551 0.02307 0.01149 0.5923
k(pl) x(ilm) Q(ilm)
0.02054 0.7877-9.645e-5

mode	liq	bi	cd	g	pl	ilm	ru
	0.6972	0	0.008908	0.1284	0.1467	0.018350	0.0004646

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.36 934.1 0.2438 0.3489 0.5049 0.03819 0.04101 0.5324
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3105 0.1632 0.1384 0.02839 0.2490 0.1745
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1262 0.3217 0.3569 0.02302 0.01144 0.5896
k(pl) x(ilm) Q(ilm)
0.02076 0.7854-9.724e-5

mode	liq	bi	cd	g	pl	ilm	ru
	0.6946	0	0.006128	0.1329	0.1477	0.018100	0.0005766

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 932.9 0.2445 0.3487 0.5038 0.03789 0.03980 0.5335
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3115 0.1639 0.1398 0.02870 0.2483 0.1750
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1267 0.3253 0.3587 0.02297 0.01140 0.5868
k(pl) x(ilm) Q(ilm)
0.02098 0.7830-9.811e-5

mode	liq	bi	cd	g	pl	ilm	ru
	0.6921	0	0.003425	0.1373	0.1487	0.017860	0.0006886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.44 931.7 0.2452 0.3484 0.5027 0.03760 0.03863 0.5345

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3125 0.1647 0.1412 0.02902 0.2476 0.1754
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1272 0.3290 0.3603 0.02291 0.01136 0.5841
k(pl) x(ilm) Q(ilm)
0.02120 0.7806-9.905e-5

```

```

mode liq bi cd g pl ilm ru
0.6896 00.0007950 0.1415 0.1497 0.017620.0008002

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, cd, g, pl, ilm, ru

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.15 940.5 0.2398 0.3500 0.5108 0.03987 0.04791 0.5260
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3051 0.1584 0.1311 0.02692 0.2529 0.1714
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1230 0.3026 0.3465 0.02330 0.01175 0.6044
k(pl) x(ilm) Q(ilm)
0.01962 0.7963-9.391e-5

```

```

mode liq bi cd g pl ilm ru
0.7087 0 0.02145 0.1079 0.1425 0.01936 0

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

```

<=====>

phases : liq, bi, g, pl, ilm

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 933.4 0.2451 0.3485 0.5042 0.03806 0.03835 0.5298
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3116 0.1612 0.1431 0.02721 0.2520 0.1717
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3540 0.02217 0.01058 0.5876 0.02087 0.7990
Q(ilm)

```

-9.00E-05

```

mode liq bi g pl ilm
0.6923 0 0.1402 0.1483 0.01927

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.44 933.4 0.2453 0.3484 0.5038 0.03807 0.03813 0.5302

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3119 0.1614 0.1429 0.02718 0.2522 0.1718
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3544 0.02233 0.01059 0.5863 0.02100 0.7991
Q(ilm)

-9.00E-05

mode	liq	bi	g	pl	ilm
	0.6915	0	0.1407	0.1485	0.01927

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.48 933.4 0.2455 0.3484 0.5034 0.03807 0.03792 0.5306
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3121 0.1615 0.1428 0.02714 0.2523 0.1719
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3549 0.02249 0.01060 0.5851 0.02113 0.7992
Q(ilm)

-8.99E-05

mode	liq	bi	g	pl	ilm
	0.6907	0	0.1413	0.1488	0.01927

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.52 933.4 0.2456 0.3483 0.5030 0.03808 0.03771 0.5309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3124 0.1617 0.1426 0.02711 0.2525 0.1721
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3553 0.02265 0.01061 0.5838 0.02127 0.7993
Q(ilm)

-8.99E-05

mode	liq	bi	g	pl	ilm
	0.6899	0	0.1418	0.1490	0.01926

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.56 933.4 0.2458 0.3483 0.5026 0.03809 0.03749 0.5313
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3126 0.1618 0.1425 0.02708 0.2526 0.1722
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3558 0.02282 0.01062 0.5825 0.02141 0.7994
Q(ilm)

-8.98E-05

mode	liq	bi	g	pl	ilm
	0.6891	0	0.1424	0.1493	0.01926

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 933.4 0.2460 0.3482 0.5022 0.03810 0.03728 0.5317
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3129 0.1620 0.1423 0.02705 0.2527 0.1723

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3562 0.02298 0.01063 0.5812 0.02154 0.7995
Q(ilm)

-8.98E-05

mode liq bi g pl ilm
0.6883 0 0.1429 0.1496 0.01926

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.898 63.816 10.268 3.153 5.380 4.966 1.951 2.670 0.700 0.197

<=====>

phases : bi, ep, g, mu, pl, ilm, H2O, (q)

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.40 624.4 0.4386 0.3022 0.02430 0.09023 0.2942 0.1945
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1892 0.8296 0.1757 0.007063 0.3892 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8725 0.4283 0.003337 0.7060-4.817e-5 0.2821

mode bi ep g mu pl ilm q H2O
0.2821 00.0001706 0.07971 0.2943 0.01186 0.3098 0.02196

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.60 629.2 0.4333 0.3039 0.02474 0.09236 0.2918 0.1953
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1899 0.8255 0.1780 0.007418 0.3862 0.9981
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.8380 0.4225 0.003592 0.7048-4.901e-5 0.2786

mode bi ep g mu pl ilm q H2O
0.2786 0 0.004010 0.07868 0.2957 0.01177 0.3087 0.02262

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.80 632.1 0.4166 0.2928 0.02527 0.09459 0.2996 0.1951
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1895 0.8159 0.1797 0.007679 0.3731 0.9952
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.7166 0.4077 0.003658 0.7092-4.876e-5 0.2662

mode bi ep g mu pl ilm q H2O
0.2662 0 0.01509 0.08009 0.2980 0.01192 0.3047 0.02398

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 632.8 0.3900 0.2753 0.02579 0.09681 0.3124 0.1930
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.1876 0.7996 0.1783 0.007602 0.3500 0.9852
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.5371 0.3861 0.003500 0.7176-4.765e-5 0.2472

mode	bi	ep	g	mu	pl	ilm	q	H2O
	0.2472	0	0.03172	0.08257	0.3017	0.01228	0.2986	0.02598

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.20	636.2	0.3778	0.2710	0.02621	0.09908	0.3136	0.1928
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.1873	0.7906	0.1792	0.007818	0.3402	0.9773
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.4596	0.3759	0.003598	0.7198	-4.780e-5	0.2388

mode	bi	ep	g	mu	pl	ilm	q	H2O
	0.2388	0	0.03944	0.08311	0.3034	0.01234	0.2960	0.02699

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.40	640.4	0.3691	0.2689	0.02660	0.1014	0.3127	0.1932
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.1876	0.7835	0.1814	0.008173	0.3338	0.9700
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.4064	0.3684	0.003767	0.7207	-4.822e-5	0.2328

mode	bi	ep	g	mu	pl	ilm	q	H2O
	0.2328	0	0.04512	0.08358	0.3044	0.01234	0.2941	0.02770

calcs use:

SIMILAR 03

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.00	521.4	0.1986	0.05032	0.02342	0.04728	0.3850	0.2625
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2563	0.5779	0.06880	0.003128	0.1255	0.9995
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.9987	0.3116	9.270e-5	0.4780	0.0001302	0.2297

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2297	0	0.1152	0.03825	0.2771	0.007535	0.003638	0.2944	0.03424

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.20	526.8	0.1985	0.05361	0.02449	0.04880	0.3813	0.2627
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2562	0.5769	0.07013	0.003290	0.1274	0.9995
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.9985	0.31010	0.0001076	0.4734	0.0001495	0.2295

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2295	0	0.1159	0.03751	0.2773	0.007395	0.003636	0.2944	0.03441

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.40	532.1	0.1985	0.05701	0.02557	0.05034	0.3774	0.2629
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2562	0.5759	0.07148	0.003458	0.1293	0.9994
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.9983	0.30870	0.0001246	0.4690	0.0001754	0.2293

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2293	0	0.1167	0.03676	0.2774	0.007257	0.003632	0.2944	0.03458

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.60	537.3	0.1984	0.06053	0.02665	0.05190	0.3736	0.2631
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2561	0.5749	0.07287	0.003633	0.1312	0.9994
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.9981	0.30720	0.0001438	0.4647	0.0002120	0.2292

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2292	0	0.1174	0.03599	0.2776	0.007120	0.003627	0.2944	0.03476

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.80	542.6	0.1983	0.06417	0.02774	0.05347	0.3696	0.2633

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2561 0.5739 0.07428 0.003815 0.1331 0.9994
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9978 0.30560.0001654 0.4605-0.0002677 0.2290

mode bi ep g mu pl ilm ru q H2O
0.2290 0 0.1182 0.03521 0.2777 0.006986 0.003619 0.2944 0.03493

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.00 547.8 0.1982 0.06791 0.02883 0.05506 0.3657 0.2635
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2561 0.5729 0.07573 0.004005 0.1349 0.9994
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9976 0.30400.0001898 0.4564-0.0003627 0.2288

mode bi ep g mu pl ilm ru q H2O
0.2288 0 0.1190 0.03441 0.2779 0.006853 0.003611 0.2944 0.03512

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.20 553.0 0.1980 0.07176 0.02993 0.05666 0.3616 0.2638
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2561 0.5719 0.07720 0.004203 0.1367 0.9993
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9973 0.30240.0002172 0.4524-0.0005609 0.2286

mode bi ep g mu pl ilm ru q H2O
0.2286 0 0.1197 0.03361 0.2780 0.006722 0.003600 0.2944 0.03530

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.40 558.2 0.1979 0.07571 0.03102 0.05828 0.3576 0.2641
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2561 0.5708 0.07871 0.004409 0.1385 0.9993
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9970 0.30080.0002478 0.4485-0.001232 0.2284

mode bi ep g mu pl ilm ru q H2O
0.2284 0 0.1206 0.03279 0.2782 0.006593 0.003588 0.2944 0.03548

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.20 732.9 0.1787 0.2237 0.06164 0.1205 0.2155 0.2896
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2668 0.5212 0.1669 0.02370 0.1766 0.9347
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3887 0.1923 0.008107 0.3367 2.745e-5 0.2049

mode bi ep g mu pl ilm ru q H2O
0.2049 0 0.1724 0.01768 0.2647 0.002196 0.002939 0.2933 0.04185

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.40 735.3 0.1770 0.2201 0.06184 0.1214 0.2145 0.2918

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2683 0.5186 0.1717 0.02518 0.1754 0.9250
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3561 0.1849 0.008393 0.3344 2.680e-5 0.2021

mode bi ep g mu pl ilm ru q H2O
0.2021 0 0.1760 0.02022 0.2621 0.002031 0.002983 0.2928 0.04179

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.60 737.5 0.1753 0.2161 0.06200 0.1222 0.2136 0.2940
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2699 0.5163 0.1767 0.02673 0.1742 0.9181
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3383 0.1772 0.008654 0.3321 2.619e-5 0.1993

mode bi ep g mu pl ilm ru q H2O
0.1993 0 0.1795 0.02295 0.2593 0.001856 0.003030 0.2923 0.04169

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.80 739.2 0.1735 0.2118 0.06211 0.1228 0.2130 0.2961
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2714 0.5140 0.1816 0.02830 0.1729 0.9126
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3271 0.1693 0.008881 0.3296 2.560e-5 0.1966

mode bi ep g mu pl ilm ru q H2O
0.1966 0 0.1830 0.02581 0.2563 0.001676 0.003082 0.2919 0.04156

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.00 740.6 0.1719 0.2073 0.06216 0.1234 0.2126 0.2983
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2728 0.5118 0.1864 0.02990 0.1715 0.9079
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3202 0.1612 0.009067 0.3271 2.503e-5 0.1940

mode bi ep g mu pl ilm ru q H2O
0.1940 0 0.1865 0.02877 0.2533 0.001492 0.003137 0.2914 0.04141

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.20 741.6 0.1702 0.2025 0.06215 0.1238 0.2123 0.3003
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2743 0.5097 0.1910 0.03150 0.1701 0.9039
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3168 0.1530 0.009209 0.3245 2.448e-5 0.1913

mode bi ep g mu pl ilm ru q H2O
0.1913 0 0.1899 0.03182 0.2502 0.001306 0.003196 0.2910 0.04123

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.40 742.2 0.1686 0.1974 0.06207 0.1240 0.2122 0.3024

Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2758 0.5078 0.1955 0.03309 0.1686 0.9005
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3164 0.1447 0.009303 0.3218 2.395e-5 0.1888

mode bi ep g mu pl ilm ru q H2O
0.1888 0 0.1932 0.03493 0.2470 0.001119 0.003256 0.2906 0.04104

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.60 742.5 0.1670 0.1921 0.06193 0.1241 0.2124 0.3044
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2772 0.5061 0.1999 0.03467 0.1671 0.8978
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3189 0.1364 0.009347 0.3191 2.344e-5 0.1864

mode bi ep g mu pl ilm ru q H2O
0.1864 0 0.1964 0.03809 0.24380 0.0009326 0.003318 0.2903 0.04081

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.80 742.3 0.1655 0.1866 0.06171 0.1241 0.2127 0.3063
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2787 0.5046 0.2042 0.03625 0.1656 0.8960
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3246 0.1281 0.009338 0.3163 2.296e-5 0.1841

mode bi ep g mu pl ilm ru q H2O
0.1841 0 0.1995 0.04131 0.24050 0.0007473 0.003380 0.2900 0.04056

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.00 741.8 0.1641 0.1808 0.06140 0.1239 0.2133 0.3082
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2801 0.5034 0.2084 0.03782 0.1641 0.8952
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3344 0.1200 0.009280 0.3135 2.250e-5 0.1821

mode bi ep g mu pl ilm ru q H2O
0.1821 0 0.2022 0.04457 0.23710 0.0005630 0.003441 0.2897 0.04026

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.20 740.9 0.1630 0.1748 0.06101 0.1236 0.2142 0.3100
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2815 0.5027 0.2127 0.03943 0.1628 0.8963
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.3508 0.1119 0.009175 0.3109 2.209e-5 0.1806

mode bi ep g mu pl ilm ru q H2O
0.1806 0 0.2046 0.04792 0.23350 0.0003770 0.003497 0.2896 0.03990

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
17.40 739.7 0.1623 0.1686 0.06048 0.1232 0.2158 0.3119

Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
0.2830	0.5033	0.2177	0.04122	0.1618	0.9025
na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
0.3846	0.1041	0.009046	0.3086	2.177e-5	0.1801

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.1801	0	0.2062	0.05152	0.22910	0.0001739	0.003541	0.2900	0.03937

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

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phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.79	749.3	0.1823	0.1916	0.06106	0.1268	0.2241	0.3079
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2793	0.5389	0.2333	0.04365	0.1846	0.9931
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.9252	0.1353	0.01131	0.3336	2.584e-5	0.2137

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2137	0	0.1789	0.05152	0.2162	0	0.002912	0.3013	0.03543

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.00	493.4	0.2009	0.02168	0.01363	0.03815	0.4126	0.2831
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2765	0.5983	0.08092	0.003607	0.1166	0.9992
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi
		0.9996	0.1774	4.623e-5	0.5148	7.105e-5	0.2308

mode	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0.2308	0.04525	0.1168	0.07487	0.2022	0	0.005331	0.2999	0.02487

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
6.20    498.7  0.2009  0.02336  0.01444  0.03952  0.4095  0.2831
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2763  0.5973  0.08239  0.003802  0.1185  0.9992
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.9995  0.1774  5.427e-5  0.5090-7.663e-5  0.2307

mode    bi    ep    g    mu    pl    ilm    ru    q    H2O
      0.2307  0.04485  0.1173  0.07440  0.2026    0 0.005291  0.2998  0.02502

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
6.40    504.0  0.2009  0.02515  0.01528  0.04091  0.4063  0.2831
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2760  0.5962  0.08389  0.004005  0.1205  0.9992
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.9994  0.1774  6.353e-5  0.5034-8.315e-5  0.2306

mode    bi    ep    g    mu    pl    ilm    ru    q    H2O
      0.2306  0.04442  0.1178  0.07391  0.2030    0 0.005251  0.2998  0.02517

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
6.60    509.3  0.2009  0.02704  0.01614  0.04233  0.4030  0.2831
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2758  0.5952  0.08542  0.004217  0.1224  0.9992
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.9994  0.1775  7.415e-5  0.4979-9.088e-5  0.2305

mode    bi    ep    g    mu    pl    ilm    ru    q    H2O
      0.2305  0.04398  0.1183  0.07339  0.2034    0 0.005209  0.2998  0.02533

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
6.80    514.6  0.2009  0.02903  0.01702  0.04377  0.3998  0.2831
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2756  0.5941  0.08698  0.004438  0.1244  0.9991
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.9993  0.1775  8.631e-5  0.4926-0.0001002  0.2304

mode    bi    ep    g    mu    pl    ilm    ru    q    H2O
      0.2304  0.04353  0.1189  0.07285  0.2039    0 0.005168  0.2998  0.02549

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
7.00    519.8  0.2009  0.03112  0.01793  0.04524  0.3964  0.2832
      Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
      0.2754  0.5931  0.08857  0.004668  0.1263  0.9991
      na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
      0.9992  0.1775  0.0001002  0.4874-0.0001116  0.2303

mode    bi    ep    g    mu    pl    ilm    ru    q    H2O
      0.2303  0.04305  0.1194  0.07228  0.2044    0 0.005125  0.2998  0.02566

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P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.20 525.1 0.2008 0.03332 0.01886 0.04672 0.3930 0.2832
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2751 0.5920 0.09020 0.004908 0.1281 0.9991
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9991 0.17760.0001160 0.4823-0.0001260 0.2301

mode bi ep g mu pl ilm ru q H2O
0.2301 0.04257 0.1200 0.07168 0.2049 0 0.005082 0.2998 0.02584

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.40 530.3 0.2007 0.03562 0.01982 0.04823 0.3895 0.2833
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2749 0.5909 0.09185 0.005158 0.1300 0.9990
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9989 0.17760.0001340 0.4774-0.0001445 0.2300

mode bi ep g mu pl ilm ru q H2O
0.2300 0.04206 0.1206 0.07106 0.2054 0 0.005038 0.2998 0.02602

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.60 535.5 0.2006 0.03804 0.02079 0.04977 0.3860 0.2833
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2747 0.5898 0.09355 0.005419 0.1319 0.9990
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9988 0.17760.0001543 0.4726-0.0001694 0.2299

mode bi ep g mu pl ilm ru q H2O
0.2299 0.04155 0.1212 0.07042 0.2059 0 0.004994 0.2998 0.02621

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
7.80 540.7 0.2005 0.04056 0.02178 0.05132 0.3825 0.2834
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2745 0.5888 0.09527 0.005690 0.1337 0.9990
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9986 0.17760.0001772 0.4680-0.0002047 0.2297

mode bi ep g mu pl ilm ru q H2O
0.2297 0.04101 0.1219 0.06975 0.2065 0 0.004949 0.2998 0.02641

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.00 545.9 0.2004 0.04320 0.02279 0.05289 0.3789 0.2835
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2743 0.5877 0.09704 0.005973 0.1355 0.9989
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9984 0.17760.0002031 0.4634-0.0002584 0.2296

mode bi ep g mu pl ilm ru q H2O
0.2296 0.04046 0.1225 0.06905 0.2071 0 0.004903 0.2998 0.02661

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.20 551.1 0.2002 0.04594 0.02382 0.05448 0.3752 0.2836
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2741 0.5866 0.09883 0.006267 0.1373 0.9989
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9983 0.17760.0002322 0.4590-0.0003501 0.2294

mode bi ep g mu pl ilm ru q H2O
0.2294 0.03990 0.1232 0.06833 0.2077 0 0.004857 0.2998 0.02681

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.40 556.3 0.2001 0.04880 0.02486 0.05609 0.3715 0.2837
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2740 0.5855 0.1007 0.006574 0.1390 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9980 0.17760.0002647 0.4547-0.0005422 0.2293

mode bi ep g mu pl ilm ru q H2O
0.2293 0.03932 0.1239 0.06759 0.2083 0 0.004811 0.2998 0.02703

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.60 561.5 0.1999 0.05176 0.02591 0.05772 0.3678 0.2838
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2738 0.5844 0.1025 0.006893 0.1407 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9978 0.17760.0003011 0.4504-0.001200 0.2291

mode bi ep g mu pl ilm ru q H2O
0.2291 0.03873 0.1246 0.06683 0.2089 0 0.004764 0.2997 0.02724

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
8.80 566.6 0.1997 0.05483 0.02698 0.05936 0.3640 0.2840
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2736 0.5833 0.1045 0.007226 0.1424 0.9988
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9975 0.17750.0003417 0.4463 0.005741 0.2289

mode bi ep g mu pl ilm ru q H2O
0.2289 0.03813 0.1254 0.06606 0.2096 0 0.004716 0.2997 0.02747

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
9.00 571.8 0.1995 0.05800 0.02805 0.06102 0.3602 0.2841
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2735 0.5822 0.1064 0.007572 0.1441 0.9987
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9973 0.17740.0003869 0.44230.0008456 0.2288

mode bi ep g mu pl ilm ru q H2O
0.2288 0.03751 0.1262 0.06526 0.2102 0 0.004668 0.2997 0.02769

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.20 576.9 0.1992 0.06127 0.02913 0.06270 0.3564 0.2843
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2733 0.5811 0.1084 0.007934 0.1458 0.9987
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9970 0.17730.0004370 0.43840.0004570 0.2286

mode bi ep g mu pl ilm ru q H2O
 0.2286 0.03688 0.1270 0.06446 0.2109 0 0.004620 0.2997 0.02792

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.40 582.0 0.1990 0.06464 0.03021 0.06438 0.3525 0.2845
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2732 0.5800 0.1105 0.008310 0.1474 0.9986
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9966 0.17720.0004925 0.43450.0003133 0.2284

mode bi ep g mu pl ilm ru q H2O
 0.2284 0.03623 0.1278 0.06363 0.2115 0 0.004572 0.2997 0.02816

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.60 587.0 0.1987 0.06810 0.03129 0.06608 0.3486 0.2847
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2731 0.5788 0.1125 0.008702 0.1490 0.9986
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9962 0.17700.0005538 0.43080.0002385 0.2282

mode bi ep g mu pl ilm ru q H2O
 0.2282 0.03557 0.1286 0.06280 0.2122 0 0.004523 0.2997 0.02839

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 9.80 592.1 0.1984 0.07165 0.03238 0.06779 0.3447 0.2849
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2730 0.5777 0.1147 0.009111 0.1505 0.9985
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9958 0.17680.0006213 0.42710.0001926 0.2280

mode bi ep g mu pl ilm ru q H2O
 0.2280 0.03490 0.1295 0.06197 0.2129 0 0.004474 0.2997 0.02863

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.00 597.1 0.1982 0.07528 0.03346 0.06952 0.3407 0.2852
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2729 0.5766 0.1169 0.009538 0.1521 0.9985
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9954 0.17660.0006956 0.42350.0001616 0.2277

mode bi ep g mu pl ilm ru q H2O
 0.2277 0.03422 0.1304 0.06112 0.2135 0 0.004424 0.2997 0.02888

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.20    602.2  0.1979  0.07899  0.03454  0.07125  0.3368  0.2855
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2728  0.5755  0.1191  0.009982  0.1536  0.9984
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9949  0.17630  0.007770  0.42000  0.001392  0.2275

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2275  0.03353  0.1313  0.06028  0.2142    0 0.004375  0.2997  0.02912

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.40    607.2  0.1975  0.08277  0.03561  0.07298  0.3328  0.2858
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2728  0.5743  0.1214  0.01045  0.1550  0.9984
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9944  0.17600  0.008661  0.41660  0.001223  0.2273

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2273  0.03282  0.1322  0.05943  0.2148    0 0.004325  0.2997  0.02937

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.60    612.1  0.1972  0.08661  0.03668  0.07473  0.3288  0.2861
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2727  0.5732  0.1237  0.01093  0.1565  0.9983
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9939  0.17560  0.009634  0.41320  0.001091  0.2270

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2270  0.03211  0.1332  0.05859  0.2154    0 0.004275  0.2997  0.02962

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
10.80    617.1  0.1969  0.09050  0.03773  0.07648  0.3249  0.2864
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2727  0.5721  0.1261  0.01143  0.1579  0.9982
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9932  0.1752  0.001070  0.4099  9.847e-5  0.2268

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2268  0.03138  0.1342  0.05776  0.2161    0 0.004225  0.2997  0.02987

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.00    622.0  0.1965  0.09444  0.03878  0.07823  0.3209  0.2868
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2727  0.5710  0.1286  0.01196  0.1593  0.9982
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9926  0.1747  0.001185  0.4067  8.976e-5  0.2265

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2265  0.03064  0.1352  0.05693  0.2167    0 0.004175  0.2998  0.03011

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.20    626.9  0.1961  0.09843  0.03981  0.07999  0.3169  0.2871
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2727  0.5698  0.1311  0.01251  0.1606  0.9981
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9919  0.1742  0.001310  0.4035  8.248e-5  0.2263

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2263  0.02989  0.1362  0.05612  0.2172    0 0.004126  0.2998  0.03036

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.40    631.8  0.1958  0.1024  0.04083  0.08175  0.3130  0.2875
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2727  0.5687  0.1337  0.01308  0.1619  0.9980
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9911  0.1736  0.001446  0.4004  7.631e-5  0.2260

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2260  0.02912  0.1373  0.05533  0.2178    0 0.004076  0.2998  0.03061

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.60    636.6  0.1954  0.1065  0.04184  0.08352  0.3090  0.2879
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2727  0.5676  0.1363  0.01368  0.1632  0.9980
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9903  0.1730  0.001593  0.3974  7.101e-5  0.2257

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2257  0.02835  0.1384  0.05455  0.2183    0 0.004026  0.2998  0.03085

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.80    641.4  0.1950  0.1105  0.04282  0.08528  0.3051  0.2884
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2727  0.5665  0.1390  0.01431  0.1645  0.9979
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9895  0.1723  0.001751  0.3944  6.641e-5  0.2254

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2254  0.02756  0.1395  0.05380  0.2188    0 0.003976  0.2998  0.03109

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.00    646.2  0.1946  0.1146  0.04379  0.08704  0.3012  0.2889
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2728  0.5653  0.1418  0.01496  0.1657  0.9978
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9885  0.1716  0.001922  0.3915  6.238e-5  0.2251

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2251  0.02676  0.1406  0.05308  0.2193    0 0.003927  0.2999  0.03133

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.20    651.0  0.1942  0.1187  0.04475  0.08880  0.2973  0.2893
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2729  0.5642  0.1446  0.01565  0.1669  0.9977
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9875  0.1708  0.002105  0.3886  5.882e-5  0.2248

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2248  0.02594  0.1418  0.05238  0.2197    0 0.003878  0.2999  0.03157

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.40    655.7  0.1938  0.1227  0.04568  0.09056  0.2935  0.2899
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2730  0.5631  0.1475  0.01636  0.1680  0.9976
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9865  0.1700  0.002303  0.3858  5.565e-5  0.2245

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2245  0.02511  0.1430  0.05172  0.2201    0 0.003829  0.2999  0.03181

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.60    660.4  0.1933  0.1267  0.04659  0.09232  0.2897  0.2904
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2731  0.5620  0.1505  0.01711  0.1691  0.9976
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9853  0.1691  0.002514  0.3831  5.281e-5  0.2242

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2242  0.02426  0.1442  0.05109  0.2205    0 0.003780  0.3000  0.03204

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.80    665.1  0.1929  0.1307  0.04749  0.09407  0.2860  0.2910
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2732  0.5609  0.1536  0.01789  0.1702  0.9975
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9841  0.1681  0.002740  0.3803  5.026e-5  0.2239

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2239  0.02340  0.1454  0.05050  0.2208    0 0.003731  0.3000  0.03226

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.00    669.7  0.1925  0.1347  0.04836  0.09581  0.2822  0.2916
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2733  0.5598  0.1567  0.01870  0.1713  0.9974
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9828  0.1671  0.002982  0.3777  4.794e-5  0.2235

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2235  0.02252  0.1467  0.04995  0.2211    0 0.003683  0.3000  0.03248

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.20    674.3  0.1920  0.1386  0.04921  0.09755  0.2786  0.2922
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2735  0.5587  0.1600  0.01956  0.1723  0.9972
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9814  0.1660  0.003241  0.3750  4.584e-5  0.2232

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2232  0.02162  0.1480  0.04945  0.2213    0 0.003636  0.3001  0.03270

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.40    678.9  0.1916  0.1425  0.05005  0.09929  0.2750  0.2928
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2736  0.5576  0.1633  0.02045  0.1733  0.9971
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9799  0.1649  0.003516  0.3725  4.392e-5  0.2228

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2228  0.02070  0.1493  0.04899  0.2215    0 0.003588  0.3001  0.03291

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.60    683.4  0.1911  0.1463  0.05086  0.1010  0.2714  0.2935
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2738  0.5565  0.1666  0.02138  0.1743  0.9970
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9783  0.1637  0.003809  0.3699  4.215e-5  0.2224

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2224  0.01976  0.1507  0.04859  0.2217    0 0.003542  0.3002  0.03311

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.80    687.9  0.1906  0.1500  0.05165  0.1027  0.2679  0.2941
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2740  0.5554  0.1701  0.02236  0.1752  0.9969
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9765  0.1624  0.004120  0.3674  4.053e-5  0.2220

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2220  0.01880  0.1521  0.04823  0.2218    0 0.003495  0.3003  0.03331

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.00    692.3  0.1902  0.1537  0.05242  0.1044  0.2645  0.2949
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2742  0.5543  0.1737  0.02337  0.1761  0.9967
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9747  0.1611  0.004451  0.3650  3.903e-5  0.2216

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2216  0.01781  0.1536  0.04794  0.2218    0 0.003450  0.3003  0.03350

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.20    696.7  0.1897  0.1573  0.05317  0.1061  0.2611  0.2956
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2745  0.5532  0.1773  0.02444  0.1770  0.9966
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9727  0.1597  0.004801  0.3625  3.764e-5  0.2212

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2212  0.01679  0.1550  0.04770  0.2218    0 0.003405  0.3004  0.03369

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.40    701.1  0.1892  0.1607  0.05390  0.1078  0.2578  0.2964
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2747  0.5522  0.1810  0.02556  0.1778  0.9964
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9706  0.1583  0.005172  0.3602  3.634e-5  0.2208

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2208  0.01574  0.1566  0.04753  0.2217    0 0.003360  0.3004  0.03387

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.60    705.5  0.1887  0.1641  0.05461  0.1095  0.2545  0.2971
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2750  0.5511  0.1849  0.02672  0.1786  0.9963
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9683  0.1567  0.005563  0.3578  3.514e-5  0.2203

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2203  0.01466  0.1581  0.04742  0.2216    0 0.003317  0.3005  0.03404

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.80    709.7  0.1882  0.1674  0.05529  0.1112  0.2513  0.2980
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2753  0.5500  0.1888  0.02794  0.1793  0.9961
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9658  0.1552  0.005977  0.3555  3.401e-5  0.2199

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2199  0.01355  0.1597  0.04737  0.2214    0 0.003274  0.3006  0.03421

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.00    714.0  0.1876  0.1706  0.05596  0.1128  0.2482  0.2988
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2756  0.5489  0.1928  0.02922  0.1801  0.9959
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9631  0.1535  0.006413  0.3532  3.296e-5  0.2194

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
0.2194  0.01241  0.1614  0.04740  0.2212    0 0.003232  0.3007  0.03437

```

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)				
15.20	718.2	0.1871	0.1736	0.05661	0.1145	0.2452	0.2997				
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
		0.2759	0.5479	0.1969	0.03055	0.1808	0.9957				
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi				
		0.9603	0.1518	0.006871	0.3509	3.197e-5	0.2189				
mode	bi	ep	g	mu	pl	ilm	ru	q	H2O		
	0.2189	0.01122	0.1631	0.04750	0.2209		0	0.003191	0.3007	0.03452	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)				
15.40	722.3	0.1866	0.1765	0.05724	0.1161	0.2423	0.3006				
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
		0.2762	0.5468	0.2011	0.03195	0.1814	0.9955				
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi				
		0.9571	0.1500	0.007353	0.3487	3.104e-5	0.2184				
mode	bi	ep	g	mu	pl	ilm	ru	q	H2O		
	0.2184	0.009994	0.1648	0.04768	0.2205		0	0.003151	0.3008	0.03466	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)				
15.60	726.4	0.1860	0.1792	0.05785	0.1177	0.2394	0.3015				
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
		0.2766	0.5457	0.2054	0.03341	0.1820	0.9952				
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi				
		0.9538	0.1482	0.007857	0.3465	3.017e-5	0.2178				
mode	bi	ep	g	mu	pl	ilm	ru	q	H2O		
	0.2178	0.008722	0.1666	0.04794	0.2201		0	0.003112	0.3009	0.03480	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)				
15.80	730.4	0.1854	0.1818	0.05844	0.1193	0.2366	0.3025				
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
		0.2770	0.5446	0.2098	0.03493	0.1826	0.9949				
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi				
		0.9501	0.1463	0.008385	0.3443	2.934e-5	0.2172				
mode	bi	ep	g	mu	pl	ilm	ru	q	H2O		
	0.2172	0.007401	0.1685	0.04829	0.2196		0	0.003074	0.3010	0.03492	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)				
16.00	734.4	0.1849	0.1842	0.05901	0.1209	0.2339	0.3035				
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
		0.2774	0.5435	0.2143	0.03653	0.1831	0.9946				
		na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi				
		0.9460	0.1442	0.008936	0.3421	2.856e-5	0.2166				
mode	bi	ep	g	mu	pl	ilm	ru	q	H2O		
	0.2166	0.006028	0.1704	0.04873	0.2191		0	0.003038	0.3011	0.03504	

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.20    738.3  0.1842  0.1864  0.05956  0.1224  0.2313  0.3046
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2778  0.5423  0.2189  0.03821  0.1836  0.9943
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9415  0.1421  0.009509  0.3399  2.782e-5  0.2159

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
        0.2159 0.004598 0.1725 0.04927 0.2184    0 0.003003 0.3011 0.03515

```

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.40    742.1  0.1836  0.1884  0.06009  0.1239  0.2287  0.3057
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2783  0.5412  0.2237  0.03997  0.1840  0.9939
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9366  0.1399  0.01010  0.3378  2.711e-5  0.2152

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
        0.2152 0.003107 0.1745 0.04992 0.2177    0 0.002970 0.3012 0.03525

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.60    745.9  0.1829  0.1902  0.06060  0.1254  0.2263  0.3068
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2787  0.5400  0.2285  0.04181  0.1843  0.9935
          na(mu) ca(pl)  k(pl)  x(ilm)  Q(ilm)   bi
          0.9311  0.1376  0.01072  0.3356  2.644e-5  0.2145

mode     bi    ep    g    mu    pl    ilm    ru    q    H2O
        0.2145 0.001548 0.1767 0.05068 0.2170    0 0.002939 0.3013 0.03535

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : bi, ep, g, mu, pl, ru, q, H2O

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
6.00     560.5  0.1973  0.09430  0.1233  0.05799  0.3346  0.4363
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.3837  0.5583  0.03286  0.008978  0.1472  0.9996
          na(mu) ca(pl)  k(pl)
          0.9963  0.30300.0002884

mode     bi    ep    g    mu    pl    ru    q    H2O
        0.2280    0 0.1255 0.004096 0.3064 0.004755 0.2910 0.04025

```

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.20	565.1	0.1973	0.09797	0.1231	0.05938	0.3311	0.4340
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3819	0.5574	0.03394	0.009138	0.1487	0.9996	
	na(mu)	ca(pl)	k(pl)				
	0.9960	0.30200	0.0003211				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2278	0	0.1260	0.003465	0.3066	0.004715	0.2910	0.04040

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.40	569.8	0.1972	0.1017	0.1228	0.06080	0.3275	0.4318
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3801	0.5564	0.03503	0.009304	0.1503	0.9996	
	na(mu)	ca(pl)	k(pl)				
	0.9956	0.30100	0.0003570				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2277	0	0.1265	0.002826	0.3068	0.004674	0.2910	0.04055

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.60	574.5	0.1972	0.1055	0.1226	0.06222	0.3240	0.4295
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3782	0.5555	0.03616	0.009477	0.1519	0.9995	
	na(mu)	ca(pl)	k(pl)				
	0.9952	0.29990	0.0003964				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2275	0	0.1270	0.002180	0.3070	0.004633	0.2910	0.04070

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
6.80	579.1	0.1971	0.1094	0.1223	0.06366	0.3204	0.4273
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3764	0.5546	0.03731	0.009657	0.1534	0.9995	
	na(mu)	ca(pl)	k(pl)				
	0.9948	0.29880	0.0004395				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2273	0	0.1276	0.001529	0.3071	0.004591	0.2910	0.04085

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
7.00	583.8	0.1970	0.1133	0.1220	0.06511	0.3168	0.4252
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3746	0.5536	0.03849	0.009843	0.1549	0.9995	
	na(mu)	ca(pl)	k(pl)				
	0.9943	0.29770	0.0004866				

mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2271	0	0.12810	0.0008720	0.3073	0.004549	0.2911	0.04101

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
7.20	588.4	0.1969	0.1173	0.1217	0.06657	0.3132	0.4230	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.3728	0.5527	0.03970	0.01004	0.1564	0.9995		
	na(mu)	ca(pl)	k(pl)					
	0.9938	0.29660	0.005381					
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2269	0	0.12870	0.002119	0.3074	0.004507	0.2911	0.04116

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
15.00	752.9	0.1879	0.2507	0.09035	0.1257	0.2018	0.3490	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.3072	0.5246	0.1417	0.02919	0.1934	0.9943		
	na(mu)	ca(pl)	k(pl)					
	0.8729	0.2177	0.01039					
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2159	0	0.1625	0.001373	0.2791	0.002880	0.2949	0.04331

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
15.20	755.3	0.1873	0.2496	0.08823	0.1268	0.2014	0.3458	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.3049	0.5245	0.1483	0.03034	0.1931	0.9933		
	na(mu)	ca(pl)	k(pl)					
	0.8552	0.2125	0.01085					
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2152	0	0.1643	0.004041	0.2754	0.002861	0.2952	0.04297

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
16.20	759.9	0.1831	0.2292	0.07446	0.1298	0.2067	0.3255	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.2908	0.5270	0.1909	0.03729	0.1889	0.9915		
	na(mu)	ca(pl)	k(pl)					
	0.8565	0.1748	0.01233					
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2117	0	0.1745	0.02524	0.2483	0.002844	0.2974	0.03999

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
16.40	758.5	0.1827	0.2208	0.07072	0.1296	0.2103	0.3201	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.2872	0.5295	0.2026	0.03904	0.1878	0.9922		
	na(mu)	ca(pl)	k(pl)					
	0.8814	0.1643	0.01233					
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2119	0	0.1762	0.03200	0.2398	0.002850	0.2984	0.03886

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.60    755.4  0.1823  0.2090  0.06636  0.1287  0.2157  0.3142
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2833  0.5332  0.2165  0.04109  0.1864  0.9927
          na(mu) ca(pl)  k(pl)
          0.9035  0.1514  0.01205

mode     bi     ep     g     mu     pl     ru     q     H2O
        0.2125     0  0.1777  0.04048  0.2294  0.002869  0.2997  0.03740

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.80    748.8  0.1823  0.1903  0.06071  0.1266  0.2248  0.3075
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2790  0.5393  0.2344  0.04383  0.1844  0.9931
          na(mu) ca(pl)  k(pl)
          0.9265  0.1342  0.01125

mode     bi     ep     g     mu     pl     ru     q     H2O
        0.2138     0  0.1790  0.05227  0.2153  0.002915  0.3015  0.03529

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : bi, g, mu, pl, ilm, ru, q, H2O

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
10.00    484.6  0.1792  0.004912  0.006108  0.03329  0.3834  0.6485
          z(g)   f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.3489  0.08086  0.1004  0.9953  0.9999  0.02815
          k(pl)  x(ilm)  Q(ilm)
          2.265e-5  0.4451-0.0001573

mode     bi     g     mu     pl     ilm     ru     q     H2O
        0.2315  0.1650  0.1441  0.1238     0  0.005472  0.3141  0.01620

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-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(g)
10.20    492.4  0.1800  0.005776  0.006882  0.03529  0.3812  0.6459
          z(g)   f(g)  fe(mu)  y(mu)  na(mu)  ca(pl)
          0.3477  0.08032  0.1034  0.9953  0.9999  0.03010
          k(pl)  x(ilm)  Q(ilm)
          2.986e-5  0.4389-0.0002080

mode     bi     g     mu     pl     ilm     ru     q     H2O
        0.2314  0.1650  0.1433  0.1245     0  0.005414  0.3140  0.01639

```

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.40 500.2 0.1807 0.006776 0.007735 0.03736 0.3789 0.6433
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3464 0.07973 0.1064 0.9954 0.9998 0.03218
k(pl) x(ilm) Q(ilm)
3.918e-5 0.4329-0.0003061

mode bi g mu pl ilm ru q H2O
0.2313 0.1651 0.1424 0.1254 0 0.005354 0.3138 0.01660

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.60 508.1 0.1814 0.007934 0.008675 0.03952 0.3764 0.6406
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3450 0.07908 0.1094 0.9955 0.9998 0.03440
k(pl) x(ilm) Q(ilm)
5.115e-5 0.4272-0.0005786

mode bi g mu pl ilm ru q H2O
0.2312 0.1652 0.1415 0.1264 0 0.005291 0.3137 0.01682

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.80 516.1 0.1821 0.009274 0.009709 0.04177 0.3738 0.6379
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3435 0.07836 0.1124 0.9955 0.9997 0.03677
k(pl) x(ilm) Q(ilm)
6.650e-5 0.4218-0.005183

mode bi g mu pl ilm ru q H2O
0.2310 0.1653 0.1404 0.1274 0 0.005226 0.3135 0.01706

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 524.1 0.1827 0.01082 0.01084 0.04411 0.3710 0.6352
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3419 0.07758 0.1154 0.9956 0.9996 0.03932
k(pl) x(ilm) Q(ilm)
8.609e-5 0.41650.0007438

mode bi g mu pl ilm ru q H2O
0.2309 0.1654 0.1392 0.1286 0 0.005158 0.3134 0.01733

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 532.3 0.1833 0.01261 0.01209 0.04654 0.3680 0.6324
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3401 0.07672 0.1185 0.9956 0.9995 0.04206
k(pl) x(ilm) Q(ilm)
0.0001110 0.41150.0003472

mode bi g mu pl ilm ru q H2O
0.2308 0.1656 0.1379 0.1298 0 0.005087 0.3132 0.01762

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 11.40 540.5 0.1838 0.01468 0.01345 0.04908 0.3647 0.6296
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3381 0.07579 0.1216 0.9957 0.9994 0.04500
 k(pl) x(ilm) Q(ilm)
 0.0001426 0.40670.0002264

mode bi g mu pl ilm ru q H2O
 0.2306 0.1657 0.1365 0.1313 0 0.005014 0.3130 0.01793

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 11.60 548.8 0.1843 0.01705 0.01493 0.05171 0.3613 0.6266
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3359 0.07477 0.1247 0.9957 0.9992 0.04816
 k(pl) x(ilm) Q(ilm)
 0.0001823 0.40200.0001680

mode bi g mu pl ilm ru q H2O
 0.2304 0.1659 0.1349 0.1328 0 0.004937 0.3128 0.01828

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 11.80 557.2 0.1848 0.01977 0.01653 0.05443 0.3576 0.6237
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3335 0.07368 0.1277 0.9958 0.9990 0.05155
 k(pl) x(ilm) Q(ilm)
 0.0002321 0.39760.0001336

mode bi g mu pl ilm ru q H2O
 0.2302 0.1660 0.1332 0.1346 0 0.004859 0.3125 0.01866

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 12.00 565.7 0.1852 0.02288 0.01825 0.05725 0.3537 0.6206
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3310 0.07250 0.1308 0.9958 0.9987 0.05517
 k(pl) x(ilm) Q(ilm)
 0.0002941 0.39330.0001109

mode bi g mu pl ilm ru q H2O
 0.2300 0.1662 0.1312 0.1365 0 0.004777 0.3123 0.01907

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 12.20 574.2 0.1855 0.02640 0.02010 0.06015 0.3495 0.6175
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3281 0.07124 0.1339 0.9959 0.9984 0.05901
 k(pl) x(ilm) Q(ilm)
 0.0003705 0.3892 9.491e-5

mode bi g mu pl ilm ru q H2O
 0.2297 0.1664 0.1291 0.1386 0 0.004694 0.3120 0.01952

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 12.40 582.8 0.1858 0.03037 0.02205 0.06313 0.3451 0.6142
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3250 0.06991 0.1369 0.9959 0.9980 0.06307
 k(pl) x(ilm) Q(ilm)
 0.0004639 0.3853 8.300e-5

mode bi g mu pl ilm ru q H2O
 0.2294 0.1666 0.1267 0.1409 0 0.004608 0.3117 0.02000

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 12.60 591.4 0.1861 0.03481 0.02410 0.06616 0.3404 0.6110
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3217 0.06852 0.1399 0.9960 0.9975 0.06730
 k(pl) x(ilm) Q(ilm)
 0.0005769 0.3815 7.383e-5

mode bi g mu pl ilm ru q H2O
 0.2291 0.1669 0.1242 0.1434 0 0.004521 0.3114 0.02053

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 12.80 599.9 0.1862 0.03973 0.02623 0.06925 0.3355 0.6076
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3182 0.06708 0.1429 0.9960 0.9969 0.07168
 k(pl) x(ilm) Q(ilm)
 0.0007121 0.3779 6.657e-5

mode bi g mu pl ilm ru q H2O
 0.2287 0.1671 0.1215 0.1461 0 0.004432 0.3110 0.02109

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 13.00 608.4 0.1863 0.04512 0.02842 0.07237 0.3304 0.6042
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3144 0.06560 0.1458 0.9960 0.9962 0.07616
 k(pl) x(ilm) Q(ilm)
 0.0008720 0.3745 6.069e-5

mode bi g mu pl ilm ru q H2O
 0.2283 0.1674 0.1185 0.1490 0 0.004343 0.3107 0.02169

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 13.20 616.9 0.1864 0.05096 0.03064 0.07550 0.3251 0.6008
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.3104 0.06410 0.1486 0.9960 0.9954 0.08068
 k(pl) x(ilm) Q(ilm)
 0.001059 0.3713 5.585e-5

mode bi g mu pl ilm ru q H2O
 0.2279 0.1677 0.1154 0.1521 0 0.004254 0.3103 0.02231

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.40 625.2 0.1864 0.05723 0.03287 0.07863 0.3196 0.5973
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3063 0.06259 0.1513 0.9960 0.9944 0.08520
k(pl) x(ilm) Q(ilm)
0.001275 0.3682 5.181e-5

mode bi g mu pl ilm ru q H2O
0.2274 0.1680 0.1122 0.1553 0 0.004165 0.3099 0.02297

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.60 633.4 0.1864 0.06390 0.03510 0.08175 0.3140 0.5938
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3020 0.06109 0.1539 0.9960 0.9933 0.08966
k(pl) x(ilm) Q(ilm)
0.001522 0.3653 4.839e-5

mode bi g mu pl ilm ru q H2O
0.2269 0.1684 0.1088 0.1587 0 0.004077 0.3095 0.02365

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.80 641.5 0.1863 0.07092 0.03729 0.08485 0.3083 0.5903
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2976 0.05962 0.1565 0.9960 0.9920 0.09402
k(pl) x(ilm) Q(ilm)
0.001802 0.3626 4.546e-5

mode bi g mu pl ilm ru q H2O
0.2264 0.1688 0.1053 0.1622 0 0.003990 0.3090 0.02435

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.00 649.5 0.1861 0.07825 0.03944 0.08793 0.3025 0.5868
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2932 0.05818 0.1589 0.9960 0.9906 0.09823
k(pl) x(ilm) Q(ilm)
0.002117 0.3599 4.292e-5

mode bi g mu pl ilm ru q H2O
0.2258 0.1692 0.1017 0.1657 0 0.003905 0.3086 0.02507

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.20 657.3 0.1860 0.08585 0.04152 0.09096 0.2967 0.5833
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2886 0.05677 0.1613 0.9959 0.9889 0.1023
k(pl) x(ilm) Q(ilm)
0.002468 0.3575 4.071e-5

mode bi g mu pl ilm ru q H2O
0.2252 0.1696 0.09803 0.1694 0 0.003821 0.3081 0.02580

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.40 665.0 0.1858 0.09367 0.04353 0.09396 0.2909 0.5799
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2841 0.05542 0.1635 0.9959 0.9870 0.1061
k(pl) x(ilm) Q(ilm)
0.002857 0.3551 3.876e-5

mode bi g mu pl ilm ru q H2O
0.2246 0.1701 0.09434 0.1730 0 0.003738 0.3077 0.02654

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.60 672.6 0.1856 0.1017 0.04547 0.09692 0.2850 0.5764
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2796 0.05412 0.1657 0.9958 0.9849 0.1098
k(pl) x(ilm) Q(ilm)
0.003287 0.3528 3.703e-5

mode bi g mu pl ilm ru q H2O
0.2239 0.1706 0.09062 0.1767 0 0.003658 0.3072 0.02729

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.80 680.0 0.1854 0.1098 0.04732 0.09984 0.2792 0.5729
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2750 0.05288 0.1678 0.9957 0.9825 0.1132
k(pl) x(ilm) Q(ilm)
0.003759 0.3507 3.548e-5

mode bi g mu pl ilm ru q H2O
0.2232 0.1711 0.08689 0.1804 0 0.003579 0.3067 0.02804

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.00 687.3 0.1851 0.1181 0.04908 0.1027 0.2734 0.5695
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2705 0.05170 0.1698 0.9956 0.9798 0.1164
k(pl) x(ilm) Q(ilm)
0.004275 0.3486 3.409e-5

mode bi g mu pl ilm ru q H2O
0.2225 0.1717 0.08317 0.1842 0 0.003502 0.3062 0.02879

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.20 694.6 0.1849 0.1264 0.05075 0.1056 0.2676 0.5661
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2661 0.05057 0.1717 0.9955 0.9767 0.1194
k(pl) x(ilm) Q(ilm)
0.004837 0.3467 3.283e-5

mode bi g mu pl ilm ru q H2O
0.2217 0.1723 0.07946 0.1878 0 0.003427 0.3057 0.02954

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.40 701.7 0.1846 0.1348 0.05234 0.1083 0.2619 0.5627
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2617 0.04951 0.1736 0.9953 0.9732 0.1221
k(pl) x(ilm) Q(ilm)
0.005449 0.3448 3.168e-5

mode bi g mu pl ilm ru q H2O
0.2209 0.1730 0.07578 0.1915 0 0.003354 0.3052 0.03029

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.60 708.8 0.1843 0.1432 0.05384 0.1111 0.2562 0.5593
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2574 0.04850 0.1754 0.9952 0.9693 0.1247
k(pl) x(ilm) Q(ilm)
0.006114 0.3430 3.063e-5

mode bi g mu pl ilm ru q H2O
0.2200 0.1736 0.07213 0.1952 0 0.003283 0.3047 0.03103

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.80 715.7 0.1840 0.1516 0.05525 0.1138 0.2506 0.5559
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2532 0.04755 0.1771 0.9950 0.9647 0.1270
k(pl) x(ilm) Q(ilm)
0.006833 0.3413 2.967e-5

mode bi g mu pl ilm ru q H2O
0.2191 0.1744 0.06853 0.1988 0 0.003214 0.3042 0.03178

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.00 722.6 0.1837 0.1599 0.05658 0.1165 0.2451 0.5525
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2490 0.04666 0.1788 0.9947 0.9594 0.1291
k(pl) x(ilm) Q(ilm)
0.007611 0.3396 2.878e-5

mode bi g mu pl ilm ru q H2O
0.2182 0.1752 0.06497 0.2024 0 0.003148 0.3036 0.03252

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.20 729.5 0.1834 0.1682 0.05783 0.1192 0.2397 0.5491
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2449 0.04582 0.1803 0.9944 0.9532 0.1310
k(pl) x(ilm) Q(ilm)
0.008451 0.3380 2.795e-5

mode bi g mu pl ilm ru q H2O
0.2172 0.1760 0.06147 0.2059 0 0.003084 0.3031 0.03326

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 16.40 736.3 0.1831 0.1763 0.05900 0.1218 0.2343 0.5457
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.2409 0.04504 0.1819 0.9941 0.9457 0.1327
 k(pl) x(ilm) Q(ilm)
 0.009356 0.3365 2.719e-5

mode bi g mu pl ilm ru q H2O
 0.2161 0.1769 0.05803 0.2094 0 0.003022 0.3025 0.03399

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 16.60 743.0 0.1827 0.1843 0.06009 0.1244 0.2290 0.5422
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.2370 0.04430 0.1833 0.9936 0.9365 0.1341
 k(pl) x(ilm) Q(ilm)
 0.01033 0.3350 2.647e-5

mode bi g mu pl ilm ru q H2O
 0.2150 0.1779 0.05465 0.2129 0 0.002964 0.3019 0.03473

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 16.80 749.7 0.1822 0.1920 0.06111 0.1269 0.2239 0.5387
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.2331 0.04362 0.1846 0.9930 0.9245 0.1354
 k(pl) x(ilm) Q(ilm)
 0.01137 0.3335 2.581e-5

mode bi g mu pl ilm ru q H2O
 0.2137 0.1790 0.05135 0.2163 0 0.002909 0.3013 0.03547

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 17.00 756.3 0.1817 0.1993 0.06206 0.1294 0.2189 0.5350
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.2292 0.04298 0.1858 0.9921 0.9079 0.1363
 k(pl) x(ilm) Q(ilm)
 0.01246 0.3321 2.518e-5

mode bi g mu pl ilm ru q H2O
 0.2121 0.1802 0.04814 0.2198 0 0.002861 0.3006 0.03621

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
 17.20 762.6 0.1809 0.2058 0.06291 0.1318 0.2140 0.5308
 z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
 0.2253 0.04240 0.1865 0.9905 0.8803 0.1365
 k(pl) x(ilm) Q(ilm)
 0.01357 0.3306 2.457e-5

mode bi g mu pl ilm ru q H2O
 0.2101 0.1819 0.04510 0.2233 0 0.002825 0.2997 0.03699

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.60	637.4	0.1988	0.1789	0.04827	0.08530	0.2851	0.5401
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.05695	0.004574	0.1672	0.9990	0.9853	0.2872
		k(pl)	x(ilm)	Q(ilm)			
		0.001492	0.4153	9.285e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2240	0.12980	0.001629	0.3038	0.005162	0.003140		0	0.2921 0.04178

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.80	640.0	0.1984	0.1785	0.04857	0.08617	0.2837	0.5406
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.06098	0.004919	0.1677	0.9990	0.9848	0.2855
		k(pl)	x(ilm)	Q(ilm)			
		0.001562	0.4123	8.681e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2240	0.1305	0.001114	0.3022	0.005093	0.003133		0	0.2923 0.04165

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.00	642.6	0.1979	0.1781	0.04888	0.08705	0.2823	0.5412
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.06533	0.005306	0.1681	0.9989	0.9843	0.2836
		k(pl)	x(ilm)	Q(ilm)			
		0.001637	0.4093	8.141e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2239	0.1312	0.002151	0.3005	0.005020	0.003127		0	0.2925 0.04151

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.20	645.3	0.1974	0.1777	0.04919	0.08794	0.2809	0.5419
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.07002	0.005741	0.1685	0.9988	0.9837	0.2815
		k(pl)	x(ilm)	Q(ilm)			
		0.001715	0.4062	7.656e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2238	0.1321	0.003279	0.2987	0.004943	0.003121		0	0.2927 0.04136

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.40	647.9	0.1968	0.1773	0.04950	0.08885	0.2794	0.5426

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07508 0.006231 0.1688 0.9988 0.9832 0.2792
k(pl) x(ilm) Q(ilm)
0.001799 0.4032 7.218e-5

mode bi g mu pl ilm ru ky q H2O
0.2237 0.1330 0.004509 0.2966 0.004861 0.003115 0 0.2930 0.04119

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.60 650.5 0.1962 0.1770 0.04983 0.08977 0.2779 0.5433
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08051 0.006784 0.1691 0.9987 0.9826 0.2767
k(pl) x(ilm) Q(ilm)
0.001889 0.4001 6.822e-5

mode bi g mu pl ilm ru ky q H2O
0.2236 0.1340 0.005847 0.2944 0.004773 0.003109 0 0.2932 0.04100

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.80 653.2 0.1956 0.1767 0.05016 0.09071 0.2763 0.5440
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08632 0.007406 0.1694 0.9986 0.9820 0.2739
k(pl) x(ilm) Q(ilm)
0.001985 0.3970 6.461e-5

mode bi g mu pl ilm ru ky q H2O
0.2235 0.1351 0.007299 0.2920 0.004678 0.003104 0 0.2935 0.04080

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 655.9 0.1949 0.1764 0.05050 0.09167 0.2747 0.5447
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09251 0.008107 0.1696 0.9986 0.9814 0.2708
k(pl) x(ilm) Q(ilm)
0.002088 0.3939 6.132e-5

mode bi g mu pl ilm ru ky q H2O
0.2234 0.1362 0.008870 0.2894 0.004577 0.003099 0 0.2939 0.04057

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 658.7 0.1943 0.1762 0.05084 0.09265 0.2730 0.5455
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09906 0.008893 0.1699 0.9985 0.9807 0.2674
k(pl) x(ilm) Q(ilm)
0.002198 0.3909 5.831e-5

mode bi g mu pl ilm ru ky q H2O
0.2233 0.1375 0.01056 0.2866 0.004467 0.003094 0 0.2942 0.04033

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 661.5 0.1936 0.1759 0.05119 0.09365 0.2713 0.5462

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1060 0.009771 0.1701 0.9984 0.9800 0.2637
k(pl) x(ilm) Q(ilm)
0.002317 0.3879 5.556e-5

mode bi g mu pl ilm ru ky q H2O
0.2232 0.1388 0.01238 0.2836 0.004349 0.003090 0 0.2946 0.04007

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.60 664.3 0.1929 0.1757 0.05155 0.09466 0.2696 0.5470
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1131 0.01075 0.1703 0.9983 0.9793 0.2597
k(pl) x(ilm) Q(ilm)
0.002445 0.3849 5.304e-5

mode bi g mu pl ilm ru ky q H2O
0.2230 0.1402 0.01431 0.2804 0.004222 0.003087 0 0.2950 0.03979

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 667.1 0.1922 0.1756 0.05190 0.09569 0.2679 0.5477
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1205 0.01182 0.1705 0.9982 0.9785 0.2553
k(pl) x(ilm) Q(ilm)
0.002583 0.3819 5.074e-5

mode bi g mu pl ilm ru ky q H2O
0.2229 0.1417 0.01634 0.2770 0.004086 0.003084 0 0.2954 0.03950

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 670.0 0.1915 0.1754 0.05226 0.09674 0.2662 0.5483
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1281 0.01299 0.1708 0.9981 0.9778 0.2507
k(pl) x(ilm) Q(ilm)
0.002731 0.3791 4.863e-5

mode bi g mu pl ilm ru ky q H2O
0.2227 0.1433 0.01847 0.2735 0.003940 0.003082 0 0.2958 0.03919

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 672.9 0.1908 0.1753 0.05262 0.09781 0.2644 0.5490
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1358 0.01426 0.1710 0.9980 0.9769 0.2457
k(pl) x(ilm) Q(ilm)
0.002891 0.3763 4.670e-5

mode bi g mu pl ilm ru ky q H2O
0.2225 0.1449 0.02068 0.2698 0.003785 0.003080 0 0.2963 0.03887

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 675.8 0.1901 0.1752 0.05297 0.09889 0.2627 0.5495

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1435 0.01561 0.1713 0.9979 0.9761 0.2405
k(pl) x(ilm) Q(ilm)
0.003062 0.3736 4.492e-5

mode bi g mu pl ilm ru ky q H2O
0.2224 0.1466 0.02294 0.2661 0.003621 0.003078 0 0.2967 0.03854

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 678.8 0.1895 0.1752 0.05332 0.09998 0.2610 0.5500
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1511 0.01705 0.1716 0.9978 0.9752 0.2351
k(pl) x(ilm) Q(ilm)
0.003245 0.3710 4.330e-5

mode bi g mu pl ilm ru ky q H2O
0.2222 0.1483 0.02524 0.2623 0.003449 0.003077 0 0.2972 0.03821

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 681.7 0.1889 0.1751 0.05367 0.1011 0.2593 0.5504
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1585 0.01855 0.1719 0.9977 0.9742 0.2295
k(pl) x(ilm) Q(ilm)
0.003441 0.3685 4.181e-5

mode bi g mu pl ilm ru ky q H2O
0.2219 0.1501 0.02755 0.2586 0.003270 0.003077 0 0.2976 0.03788

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 684.7 0.1884 0.1751 0.05401 0.1022 0.2577 0.5507
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1658 0.02010 0.1723 0.9976 0.9733 0.2237
k(pl) x(ilm) Q(ilm)
0.003650 0.3661 4.044e-5

mode bi g mu pl ilm ru ky q H2O
0.2217 0.1518 0.02986 0.2548 0.003085 0.003077 0 0.2981 0.03755

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.20 687.7 0.1878 0.1751 0.05435 0.1033 0.2561 0.5510
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1728 0.02170 0.1727 0.9974 0.9722 0.2179
k(pl) x(ilm) Q(ilm)
0.003872 0.3638 3.917e-5

mode bi g mu pl ilm ru ky q H2O
0.2215 0.1536 0.03215 0.2511 0.002896 0.003076 0 0.2985 0.03722

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.40 690.7 0.1874 0.1750 0.05467 0.1044 0.2546 0.5511

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1795 0.02332 0.1731 0.9973 0.9712 0.2119
k(pl) x(ilm) Q(ilm)
0.004106 0.3616 3.801e-5

mode bi g mu pl ilm ru ky q H2O
0.2212 0.1553 0.03440 0.2474 0.002703 0.003076 0 0.2989 0.03690

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.60 693.8 0.1869 0.1750 0.05499 0.1056 0.2530 0.5512
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1859 0.02496 0.1735 0.9972 0.9700 0.2060
k(pl) x(ilm) Q(ilm)
0.004354 0.3595 3.693e-5

mode bi g mu pl ilm ru ky q H2O
0.2210 0.1570 0.03660 0.2438 0.002508 0.003076 0 0.2994 0.03660

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.80 696.8 0.1865 0.1749 0.05531 0.1067 0.2516 0.5513
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1920 0.02660 0.1740 0.9970 0.9689 0.2000
k(pl) x(ilm) Q(ilm)
0.004615 0.3575 3.593e-5

mode bi g mu pl ilm ru ky q H2O
0.2207 0.1587 0.03874 0.2404 0.002311 0.003075 0 0.2997 0.03630

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.00 699.8 0.1861 0.1749 0.05561 0.1078 0.2502 0.5512
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1977 0.02824 0.1745 0.9969 0.9677 0.1940
k(pl) x(ilm) Q(ilm)
0.004889 0.3555 3.500e-5

mode bi g mu pl ilm ru ky q H2O
0.2205 0.1604 0.04082 0.2371 0.002114 0.003075 0 0.3001 0.03601

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.20 702.8 0.1858 0.1748 0.05591 0.1090 0.2488 0.5511
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2031 0.02987 0.1751 0.9967 0.9664 0.1881
k(pl) x(ilm) Q(ilm)
0.005177 0.3536 3.413e-5

mode bi g mu pl ilm ru ky q H2O
0.2202 0.1620 0.04282 0.2338 0.001918 0.003074 0 0.3005 0.03574

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.40 705.7 0.1854 0.1748 0.05619 0.1101 0.2475 0.5509

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2082 0.03148 0.1756 0.9965 0.9651 0.1823
k(pl) x(ilm) Q(ilm)
0.005477 0.3518 3.331e-5

mode bi g mu pl ilm ru ky q H2O
0.2199 0.1635 0.04474 0.2308 0.001723 0.003073 0 0.3008 0.03549

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.60 708.7 0.1852 0.1747 0.05647 0.1112 0.2462 0.5507
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2129 0.03307 0.1762 0.9963 0.9637 0.1765
k(pl) x(ilm) Q(ilm)
0.005790 0.3501 3.255e-5

mode bi g mu pl ilm ru ky q H2O
0.2196 0.1651 0.04658 0.2278 0.001530 0.003071 0 0.3011 0.03524

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.80 711.7 0.1849 0.1746 0.05674 0.1124 0.2449 0.5504
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2174 0.03462 0.1767 0.9961 0.9622 0.1709
k(pl) x(ilm) Q(ilm)
0.006116 0.3484 3.183e-5

mode bi g mu pl ilm ru ky q H2O
0.2193 0.1666 0.04835 0.2251 0.001339 0.003070 0 0.3014 0.03501

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.00 714.6 0.1846 0.1745 0.05701 0.1135 0.2437 0.5501
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2215 0.03615 0.1773 0.9959 0.9607 0.1654
k(pl) x(ilm) Q(ilm)
0.006455 0.3468 3.116e-5

mode bi g mu pl ilm ru ky q H2O
0.2189 0.1680 0.05004 0.2224 0.001152 0.003068 0 0.3016 0.03480

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.20 717.6 0.1844 0.1743 0.05726 0.1146 0.2425 0.5497
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2254 0.03764 0.1779 0.9957 0.9592 0.1600
k(pl) x(ilm) Q(ilm)
0.006806 0.3452 3.052e-5

mode bi g mu pl ilm ru ky q H2O
0.2186 0.1694 0.05164 0.2199 0.0009674 0.003065 0 0.3018 0.03460

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.40 720.5 0.1841 0.1742 0.05751 0.1157 0.2413 0.5493

z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2289 0.03909 0.1785 0.9955 0.9575 0.1547
k(pl) x(ilm) Q(ilm)
0.007169 0.3437 2.991e-5

mode bi g mu pl ilm ru ky q H2O
0.2183 0.1707 0.05317 0.21750.0007865 0.003062 0 0.3021 0.03441

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.60 723.4 0.1839 0.1740 0.05775 0.1168 0.2402 0.5489
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2323 0.04051 0.1791 0.9952 0.9558 0.1495
k(pl) x(ilm) Q(ilm)
0.007545 0.3422 2.934e-5

mode bi g mu pl ilm ru ky q H2O
0.2179 0.1721 0.05463 0.21520.0006094 0.003059 0 0.3022 0.03424

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.80 726.2 0.1837 0.1738 0.05798 0.1179 0.2391 0.5484
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2354 0.04189 0.1797 0.9950 0.9539 0.1445
k(pl) x(ilm) Q(ilm)
0.007933 0.3407 2.879e-5

mode bi g mu pl ilm ru ky q H2O
0.2176 0.1733 0.05601 0.21310.0004361 0.003055 0 0.3024 0.03408

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.00 729.1 0.1835 0.1736 0.05821 0.1190 0.2380 0.5479
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2382 0.04323 0.1803 0.9947 0.9520 0.1397
k(pl) x(ilm) Q(ilm)
0.008334 0.3393 2.827e-5

mode bi g mu pl ilm ru ky q H2O
0.2172 0.1746 0.05732 0.21110.0002668 0.003052 0 0.3025 0.03393

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.20 732.0 0.1833 0.1734 0.05843 0.1201 0.2370 0.5473
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2409 0.04453 0.1809 0.9944 0.9500 0.1350
k(pl) x(ilm) Q(ilm)
0.008746 0.3379 2.777e-5

mode bi g mu pl ilm ru ky q H2O
0.2168 0.1758 0.05856 0.20920.0001015 0.003047 0 0.3027 0.03380

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.33	733.7	0.1832	0.1733	0.05857	0.1208	0.2363	0.5470
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2424	0.04532	0.1813	0.9942	0.9487	0.1321
		k(pl)	x(ilm)	Q(ilm)			
		0.009010	0.3370	2.747e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2165	0.1765	0.05931	0.2081		0	0.003045	0	0.3027 0.03372

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.56	637.0	0.1989	0.1790	0.04822	0.08514	0.2853	0.5400
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.05626	0.004515	0.1672	0.9990	0.9854	0.2875
		k(pl)	x(ilm)	Q(ilm)			
		0.001480	0.4159	9.402e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2241	0.1296	0	0.3041	0.005174	0.003141	0	0.2921	0.04180

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.60	637.4	0.1988	0.1789	0.04827	0.08530	0.2851	0.5401
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)

0.05692 0.004572 0.1673 0.9990 0.9853 0.2871
k(pl) x(ilm) Q(ilm)
0.001493 0.4154 9.287e-5

mode bi g mu pl ilm ru ky q H2O
0.2240 0.1297 0 0.3039 0.005162 0.003139 5.172e-5 0.2921 0.04181

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.80 640.1 0.1984 0.1786 0.04857 0.08619 0.2837 0.5406
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06077 0.004907 0.1677 0.9990 0.9848 0.2849
k(pl) x(ilm) Q(ilm)
0.001566 0.4124 8.695e-5

mode bi g mu pl ilm ru ky q H2O
0.2240 0.1304 0 0.3030 0.005095 0.003132 0.0003524 0.2921 0.04184

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 642.8 0.1980 0.1782 0.04887 0.08708 0.2823 0.5411
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06489 0.005279 0.1682 0.9989 0.9843 0.2825
k(pl) x(ilm) Q(ilm)
0.001644 0.4095 8.166e-5

mode bi g mu pl ilm ru ky q H2O
0.2239 0.1312 0 0.3021 0.005024 0.003124 0.0006773 0.2922 0.04187

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.20 645.4 0.1975 0.1779 0.04918 0.08800 0.2809 0.5417
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06930 0.005693 0.1687 0.9988 0.9837 0.2799
k(pl) x(ilm) Q(ilm)
0.001727 0.4066 7.691e-5

mode bi g mu pl ilm ru ky q H2O
0.2239 0.1319 0 0.3010 0.004950 0.003116 0.001028 0.2922 0.04190

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.40 648.2 0.1970 0.1775 0.04949 0.08892 0.2794 0.5423
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07400 0.006155 0.1691 0.9988 0.9832 0.2771
k(pl) x(ilm) Q(ilm)
0.001816 0.4037 7.263e-5

mode bi g mu pl ilm ru ky q H2O
0.2238 0.1328 0 0.2999 0.004871 0.003109 0.001406 0.2922 0.04193

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.60 650.9 0.1965 0.1772 0.04981 0.08986 0.2779 0.5430
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)

0.07900 0.006669 0.1695 0.9987 0.9826 0.2741
k(pl) x(ilm) Q(ilm)
0.001910 0.4008 6.876e-5

mode bi g mu pl ilm ru ky q H2O
0.2237 0.1337 0 0.2986 0.004788 0.003101 0.001814 0.2923 0.04197

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.80 653.6 0.1960 0.1770 0.05013 0.09082 0.2764 0.5436
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08430 0.007242 0.1698 0.9986 0.9820 0.2707
k(pl) x(ilm) Q(ilm)
0.002011 0.3979 6.523e-5

mode bi g mu pl ilm ru ky q H2O
0.2237 0.1347 0 0.2973 0.004699 0.003094 0.002251 0.2923 0.04200

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 656.4 0.1954 0.1767 0.05046 0.09180 0.2749 0.5443
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08989 0.007877 0.1702 0.9986 0.9813 0.2672
k(pl) x(ilm) Q(ilm)
0.002120 0.3950 6.203e-5

mode bi g mu pl ilm ru ky q H2O
0.2236 0.1357 0 0.2959 0.004605 0.003087 0.002720 0.2924 0.04203

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 659.2 0.1948 0.1765 0.05079 0.09279 0.2733 0.5450
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09575 0.008582 0.1705 0.9985 0.9807 0.2633
k(pl) x(ilm) Q(ilm)
0.002236 0.3922 5.910e-5

mode bi g mu pl ilm ru ky q H2O
0.2235 0.1368 0 0.2944 0.004505 0.003080 0.003219 0.2924 0.04207

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 662.0 0.1942 0.1763 0.05112 0.09379 0.2717 0.5456
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1019 0.009358 0.1709 0.9984 0.9800 0.2592
k(pl) x(ilm) Q(ilm)
0.002360 0.3894 5.642e-5

mode bi g mu pl ilm ru ky q H2O
0.2234 0.1379 0 0.2928 0.004398 0.003073 0.003748 0.2925 0.04211

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.60 664.9 0.1937 0.1761 0.05146 0.09481 0.2700 0.5463
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)

0.1082 0.01021 0.1712 0.9983 0.9793 0.2548
k(pl) x(ilm) Q(ilm)
0.002494 0.3866 5.396e-5

mode bi g mu pl ilm ru ky q H2O
0.2233 0.1392 0 0.2911 0.004284 0.003066 0.004306 0.2926 0.04214

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 667.8 0.1931 0.1760 0.05180 0.09585 0.2684 0.5469
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1147 0.01114 0.1716 0.9982 0.9785 0.2501
k(pl) x(ilm) Q(ilm)
0.002637 0.3839 5.171e-5

mode bi g mu pl ilm ru ky q H2O
0.2232 0.1404 0 0.2894 0.004163 0.003060 0.004891 0.2927 0.04218

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 670.7 0.1925 0.1759 0.05214 0.09690 0.2668 0.5475
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1213 0.01215 0.1719 0.9981 0.9777 0.2453
k(pl) x(ilm) Q(ilm)
0.002791 0.3813 4.964e-5

mode bi g mu pl ilm ru ky q H2O
0.2231 0.1418 0 0.2875 0.004036 0.003054 0.005500 0.2927 0.04222

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 673.6 0.1919 0.1758 0.05248 0.09797 0.2652 0.5481
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1281 0.01323 0.1723 0.9980 0.9769 0.2402
k(pl) x(ilm) Q(ilm)
0.002955 0.3787 4.774e-5

mode bi g mu pl ilm ru ky q H2O
0.2230 0.1432 0 0.2857 0.003901 0.003048 0.006129 0.2928 0.04226

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 676.5 0.1914 0.1757 0.05281 0.09905 0.2635 0.5487
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1348 0.01438 0.1727 0.9979 0.9761 0.2349
k(pl) x(ilm) Q(ilm)
0.003130 0.3762 4.600e-5

mode bi g mu pl ilm ru ky q H2O
0.2229 0.1446 0 0.2837 0.003759 0.003043 0.006774 0.2929 0.04230

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 679.5 0.1909 0.1756 0.05314 0.1001 0.2620 0.5492
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)

0.1415 0.01560 0.1731 0.9978 0.9752 0.2294
k(pl) x(ilm) Q(ilm)
0.003318 0.3737 4.438e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2228	0.1460	0	0.2818	0.003611	0.003038	0.007431	0.2930	0.04235

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 682.5 0.1904 0.1756 0.05347 0.1012 0.2604 0.5496
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1482 0.01688 0.1735 0.9977 0.9742 0.2238
k(pl) x(ilm) Q(ilm)
0.003517 0.3714 4.290e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2227	0.1475	0	0.2798	0.003456	0.003033	0.008096	0.2931	0.04239

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 685.4 0.1899 0.1755 0.05380 0.1023 0.2588 0.5500
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1547 0.01822 0.1740 0.9976 0.9733 0.2181
k(pl) x(ilm) Q(ilm)
0.003728 0.3691 4.152e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2225	0.1489	0	0.2779	0.003297	0.003028	0.008764	0.2931	0.04243

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.20 688.4 0.1895 0.1754 0.05412 0.1034 0.2573 0.5503
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1611 0.01960 0.1744 0.9974 0.9722 0.2124
k(pl) x(ilm) Q(ilm)
0.003951 0.3669 4.025e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2224	0.1504	0	0.2759	0.003132	0.003024	0.009433	0.2932	0.04248

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.40 691.4 0.1891 0.1754 0.05443 0.1046 0.2559 0.5506
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1673 0.02102 0.1749 0.9973 0.9712 0.2066
k(pl) x(ilm) Q(ilm)
0.004188 0.3648 3.907e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2223	0.1519	0	0.2740	0.002964	0.003019	0.01010	0.2933	0.04252

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.60 694.4 0.1887 0.1753 0.05474 0.1057 0.2545 0.5508
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)

0.1733 0.02247 0.1754 0.9972 0.9701 0.2008
k(pl) x(ilm) Q(ilm)
0.004437 0.3627 3.797e-5

mode bi g mu pl ilm ru ky q H2O
0.2221 0.1534 0 0.2721 0.002792 0.003015 0.01075 0.2933 0.04257

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.80 697.4 0.1884 0.1753 0.05504 0.1068 0.2531 0.5510
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1791 0.02394 0.1760 0.9970 0.9689 0.1951
k(pl) x(ilm) Q(ilm)
0.004698 0.3608 3.695e-5

mode bi g mu pl ilm ru ky q H2O
0.2220 0.1548 0 0.2702 0.002618 0.003011 0.01140 0.2934 0.04261

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.00 700.4 0.1880 0.1752 0.05533 0.1079 0.2517 0.5511
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1847 0.02543 0.1766 0.9968 0.9677 0.1893
k(pl) x(ilm) Q(ilm)
0.004973 0.3588 3.599e-5

mode bi g mu pl ilm ru ky q H2O
0.2218 0.1563 0 0.2684 0.002441 0.003006 0.01204 0.2934 0.04266

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.20 703.3 0.1878 0.1752 0.05562 0.1090 0.2504 0.5512
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1900 0.02693 0.1771 0.9967 0.9664 0.1837
k(pl) x(ilm) Q(ilm)
0.005261 0.3570 3.510e-5

mode bi g mu pl ilm ru ky q H2O
0.2216 0.1577 0 0.2666 0.002264 0.003002 0.01266 0.2935 0.04271

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.40 706.3 0.1875 0.1751 0.05590 0.1101 0.2491 0.5512
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1951 0.02842 0.1777 0.9965 0.9651 0.1781
k(pl) x(ilm) Q(ilm)
0.005562 0.3552 3.426e-5

mode bi g mu pl ilm ru ky q H2O
0.2215 0.1591 0 0.2648 0.002085 0.002997 0.01327 0.2935 0.04275

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.60 709.2 0.1872 0.1750 0.05617 0.1113 0.2479 0.5512
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)

0.1999 0.02992 0.1784 0.9963 0.9637 0.1726
k(pl) x(ilm) Q(ilm)
0.005876 0.3535 3.347e-5

mode bi g mu pl ilm ru ky q H2O
0.2213 0.1604 0 0.2632 0.001907 0.002993 0.01386 0.2936 0.04280

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.80 712.2 0.1870 0.1749 0.05644 0.1124 0.2467 0.5511
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2045 0.03141 0.1790 0.9961 0.9622 0.1671
k(pl) x(ilm) Q(ilm)
0.006203 0.3518 3.272e-5

mode bi g mu pl ilm ru ky q H2O
0.2211 0.1617 0 0.2616 0.001728 0.002988 0.01443 0.2936 0.04285

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.00 715.1 0.1868 0.1748 0.05670 0.1135 0.2455 0.5510
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2089 0.03289 0.1796 0.9959 0.9607 0.1618
k(pl) x(ilm) Q(ilm)
0.006544 0.3501 3.202e-5

mode bi g mu pl ilm ru ky q H2O
0.2209 0.1630 0 0.2600 0.001551 0.002983 0.01499 0.2936 0.04290

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.20 718.0 0.1866 0.1747 0.05695 0.1146 0.2444 0.5508
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2130 0.03436 0.1803 0.9957 0.9591 0.1567
k(pl) x(ilm) Q(ilm)
0.006897 0.3486 3.136e-5

mode bi g mu pl ilm ru ky q H2O
0.2208 0.1643 0 0.2585 0.001374 0.002978 0.01553 0.2936 0.04295

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.40 720.9 0.1865 0.1745 0.05720 0.1157 0.2433 0.5507
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2169 0.03580 0.1809 0.9955 0.9574 0.1516
k(pl) x(ilm) Q(ilm)
0.007264 0.3470 3.073e-5

mode bi g mu pl ilm ru ky q H2O
0.2206 0.1655 0 0.2571 0.001199 0.002972 0.01605 0.2936 0.04300

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.60 723.7 0.1863 0.1744 0.05744 0.1168 0.2422 0.5505
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)

0.2206 0.03723 0.1816 0.9952 0.9556 0.1467
k(pl) x(ilm) Q(ilm)
0.007644 0.3455 3.013e-5

mode bi g mu pl ilm ru ky q H2O
0.2204 0.1667 0 0.2557 0.001025 0.002966 0.01655 0.2936 0.04305

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.80 726.6 0.1862 0.1742 0.05767 0.1179 0.2411 0.5502
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2241 0.03864 0.1823 0.9950 0.9537 0.1419
k(pl) x(ilm) Q(ilm)
0.008037 0.3440 2.956e-5

mode bi g mu pl ilm ru ky q H2O
0.2202 0.1679 0 0.25440.0008538 0.002960 0.01703 0.2936 0.04310

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.00 729.4 0.1860 0.1741 0.05790 0.1190 0.2401 0.5500
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2275 0.04003 0.1830 0.9947 0.9517 0.1372
k(pl) x(ilm) Q(ilm)
0.008444 0.3426 2.901e-5

mode bi g mu pl ilm ru ky q H2O
0.2200 0.1691 0 0.25310.0006844 0.002954 0.01750 0.2936 0.04315

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.20 732.3 0.1859 0.1739 0.05812 0.1201 0.2391 0.5497
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2306 0.04139 0.1836 0.9944 0.9496 0.1327
k(pl) x(ilm) Q(ilm)
0.008864 0.3412 2.850e-5

mode bi g mu pl ilm ru ky q H2O
0.2198 0.1702 0 0.25190.0005172 0.002948 0.01795 0.2936 0.04321

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 735.1 0.1858 0.1737 0.05834 0.1212 0.2381 0.5494
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2335 0.04273 0.1843 0.9941 0.9473 0.1283
k(pl) x(ilm) Q(ilm)
0.009297 0.3398 2.800e-5

mode bi g mu pl ilm ru ky q H2O
0.2195 0.1713 0 0.25070.0003524 0.002941 0.01838 0.2935 0.04326

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.60 737.9 0.1857 0.1734 0.05855 0.1223 0.2371 0.5491
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)

0.2363 0.04404 0.1850 0.9938 0.9449 0.1241
k(pl) x(ilm) Q(ilm)
0.009744 0.3385 2.753e-5

mode bi g mu pl ilm ru ky q H2O
0.2193 0.1723 0 0.24960.0001901 0.002934 0.01879 0.2935 0.04331

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.80 740.7 0.1856 0.1732 0.05876 0.1234 0.2362 0.5487
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2389 0.04533 0.1857 0.9934 0.9423 0.1200
k(pl) x(ilm) Q(ilm)
0.01021 0.3372 2.707e-5

mode bi g mu pl ilm ru ky q H2O
0.2191 0.1733 0 0.2486 3.042e-5 0.002926 0.01919 0.2935 0.04337

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, g, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.00 556.7 0.2000 0.1578 0.04099 0.06069 0.3297 0.5484
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02269 0.001494 0.30570.0003533 0.43560.0009906

mode bi g pl ilm ru ky q H2O
0.2260 0.1204 0.3116 0.006045 0.003650 0 0.2913 0.04101

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.20 560.4 0.2000 0.1584 0.04133 0.06173 0.3277 0.5481
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02400 0.001579 0.30500.0003796 0.43390.0006355

mode bi g pl ilm ru ky q H2O
0.2260 0.1207 0.3113 0.006001 0.003632 0 0.2913 0.04105

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.40 564.3 0.2000 0.1591 0.04168 0.06281 0.3256 0.5478
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02538 0.001670 0.30430.0004083 0.43230.0004682

mode bi g pl ilm ru ky q H2O
0.2259 0.1211 0.3110 0.005958 0.003612 0 0.2914 0.04108

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

6.60 568.2 0.1999 0.1599 0.04203 0.06392 0.3235 0.5474
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02683 0.001768 0.30360.0004396 0.43070.0003709

mode bi g pl ilm ru ky q H2O
0.2258 0.1215 0.3107 0.005914 0.003592 0 0.2914 0.04111

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.80 572.2 0.1999 0.1607 0.04240 0.06507 0.3213 0.5471
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02835 0.001874 0.30290.0004737 0.42920.0003073

mode bi g pl ilm ru ky q H2O
0.2258 0.1219 0.3104 0.005870 0.003570 0 0.2914 0.04115

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.00 576.3 0.1999 0.1616 0.04277 0.06625 0.3190 0.5467
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.02993 0.001988 0.30210.0005110 0.42780.0002625

mode bi g pl ilm ru ky q H2O
0.2257 0.1223 0.3100 0.005825 0.003547 0 0.2914 0.04119

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.20 580.4 0.1998 0.1626 0.04315 0.06747 0.3167 0.5463
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.03159 0.002110 0.30120.0005519 0.42650.0002292

mode bi g pl ilm ru ky q H2O
0.2256 0.1227 0.3097 0.005780 0.003523 0 0.2915 0.04123

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.40 584.7 0.1997 0.1636 0.04354 0.06874 0.3144 0.5459
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.03331 0.002242 0.30030.0005966 0.42520.0002035

mode bi g pl ilm ru ky q H2O
0.2255 0.1232 0.3093 0.005734 0.003497 0 0.2915 0.04126

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.60 589.0 0.1997 0.1647 0.04393 0.07004 0.3120 0.5455
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.03511 0.002385 0.29940.0006457 0.42400.0001831

mode bi g pl ilm ru ky q H2O
0.2254 0.1237 0.3089 0.005687 0.003471 0 0.2916 0.04131

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.80 593.5 0.1996 0.1658 0.04434 0.07138 0.3095 0.5450
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)

0.03698 0.002538 0.29840.0006996 0.42290.0001665

mode bi g pl ilm ru ky q H2O
0.2253 0.1242 0.3085 0.005640 0.003443 0 0.2916 0.04135

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.00 598.0 0.1995 0.1671 0.04475 0.07277 0.3070 0.5446
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.03892 0.002704 0.29740.0007587 0.42180.0001528

mode bi g pl ilm ru ky q H2O
0.2252 0.1247 0.3080 0.005592 0.003413 0 0.2917 0.04139

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.20 602.6 0.1995 0.1684 0.04517 0.07420 0.3044 0.5441
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.04093 0.002882 0.29630.0008237 0.42080.0001412

mode bi g pl ilm ru ky q H2O
0.2251 0.1253 0.3076 0.005543 0.003383 0 0.2917 0.04144

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.40 607.4 0.1994 0.1697 0.04560 0.07567 0.3017 0.5436
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.04300 0.003075 0.29510.0008953 0.41990.0001313

mode bi g pl ilm ru ky q H2O
0.2249 0.1258 0.3071 0.005492 0.003351 0 0.2918 0.04149

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.60 612.2 0.1993 0.1712 0.04603 0.07719 0.2990 0.5430
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.04514 0.003282 0.29390.0009740 0.41900.0001228

mode bi g pl ilm ru ky q H2O
0.2248 0.1264 0.3067 0.005441 0.003318 0 0.2918 0.04154

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.80 617.1 0.1992 0.1727 0.04647 0.07875 0.2963 0.5425
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.04734 0.003504 0.2927 0.001061 0.41820.0001153

mode bi g pl ilm ru ky q H2O
0.2247 0.1270 0.3062 0.005388 0.003283 0 0.2919 0.04159

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.00 622.2 0.1991 0.1743 0.04692 0.08036 0.2935 0.5419
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.04960 0.003743 0.2914 0.001156 0.41750.0001088

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2245	0.1277	0.3056	0.005334	0.003248		0	0.2919 0.04164

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.20	627.3	0.1990	0.1759	0.04738	0.08202	0.2906	0.5412
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.05192	0.004000	0.2901	0.001261	0.41690	0.0001030

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2244	0.1284	0.3051	0.005279	0.003211		0	0.2920 0.04170

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.40	632.6	0.1990	0.1776	0.04784	0.08372	0.2877	0.5406
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.05428	0.004275	0.2887	0.001377	0.4163	9.785e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2242	0.1290	0.3046	0.005222	0.003173		0	0.2921 0.04175

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.60	637.9	0.1989	0.1793	0.04830	0.08546	0.2848	0.5399
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.05670	0.004570	0.2872	0.001504	0.4158	9.322e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2240	0.1298	0.3040	0.005164	0.003134		0	0.2921 0.04181

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.80	643.4	0.1988	0.1812	0.04877	0.08725	0.2818	0.5391
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.05915	0.004885	0.2857	0.001644	0.4153	8.904e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2238	0.1305	0.3034	0.005103	0.003094		0	0.2922 0.04187

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.00	648.9	0.1987	0.1830	0.04925	0.08909	0.2788	0.5384
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.06164	0.005220	0.2842	0.001798	0.4149	8.526e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2236	0.1313	0.3028	0.005042	0.003052		0	0.2922 0.04194

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.20	654.6	0.1986	0.1849	0.04973	0.09096	0.2758	0.5376
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.06416	0.005577	0.2826	0.001968	0.4146	8.181e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2234	0.1320	0.3022	0.004978	0.003010		0	0.2923 0.04200

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
10.40	660.3	0.1986	0.1869	0.05021	0.09288	0.2727	0.5367	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.06670	0.005957	0.2810	0.002154	0.4143	7.866e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2232	0.1329	0.3016	0.004912	0.002967		0	0.2924 0.04207

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
10.60	666.1	0.1985	0.1889	0.05069	0.09484	0.2696	0.5359	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.06926	0.006359	0.2793	0.002359	0.4141	7.577e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2230	0.1337	0.3010	0.004845	0.002923		0	0.2924 0.04214

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
10.80	672.1	0.1984	0.1909	0.05117	0.09684	0.2665	0.5350	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.07183	0.006785	0.2776	0.002583	0.4139	7.310e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2227	0.1345	0.3004	0.004775	0.002878		0	0.2925 0.04221

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
11.00	678.1	0.1984	0.1930	0.05166	0.09887	0.2634	0.5340	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.07441	0.007234	0.2758	0.002830	0.4138	7.064e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2225	0.1354	0.2997	0.004704	0.002833		0	0.2925 0.04229

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
11.20	684.1	0.1983	0.1951	0.05214	0.1009	0.2603	0.5330	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.07699	0.007707	0.2740	0.003100	0.4137	6.836e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2222	0.1363	0.2991	0.004630	0.002787		0	0.2926 0.04237

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
11.40	690.3	0.1983	0.1972	0.05263	0.1030	0.2572	0.5320	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.07956	0.008205	0.2722	0.003395	0.4136	6.623e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2219	0.1372	0.2985	0.004554	0.002741		0	0.2926 0.04245

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
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11.60 696.5 0.1982 0.1993 0.05311 0.1052 0.2541 0.5310
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.08213 0.008727 0.2703 0.003719 0.4136 6.425e-5

mode bi g pl ilm ru ky q H2O
0.2216 0.1382 0.2978 0.004476 0.002695 0 0.2927 0.04253

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 702.8 0.1982 0.2014 0.05359 0.1074 0.2510 0.5299
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.08468 0.009273 0.2684 0.004072 0.4136 6.239e-5

mode bi g pl ilm ru ky q H2O
0.2213 0.1391 0.2972 0.004396 0.002648 0 0.2927 0.04261

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 709.1 0.1981 0.2036 0.05407 0.1095 0.2479 0.5288
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.08721 0.009843 0.2665 0.004457 0.4137 6.065e-5

mode bi g pl ilm ru ky q H2O
0.2210 0.1401 0.2966 0.004313 0.002601 0 0.2927 0.04270

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 715.5 0.1981 0.2057 0.05454 0.1118 0.2448 0.5276
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.08972 0.01044 0.2645 0.004878 0.4137 5.902e-5

mode bi g pl ilm ru ky q H2O
0.2206 0.1411 0.2959 0.004228 0.002554 0 0.2928 0.04279

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 722.0 0.1980 0.2079 0.05501 0.1140 0.2417 0.5265
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.09221 0.01106 0.2625 0.005336 0.4138 5.747e-5

mode bi g pl ilm ru ky q H2O
0.2202 0.1422 0.2953 0.004141 0.002507 0 0.2928 0.04289

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 728.5 0.1980 0.2100 0.05548 0.1163 0.2386 0.5252
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.09467 0.01170 0.2604 0.005835 0.4139 5.601e-5

mode bi g pl ilm ru ky q H2O
0.2198 0.1432 0.2947 0.004051 0.002461 0 0.2928 0.04298

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 735.0 0.1980 0.2121 0.05595 0.1186 0.2356 0.5240
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)

0.09709 0.01236 0.2584 0.006377 0.4140 5.463e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2194	0.1443	0.2941	0.003959	0.002414		0	0.2928 0.04308

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.00	741.6	0.1979	0.2142	0.05641	0.1209	0.2326	0.5227
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.09948	0.01305	0.2563	0.006967	0.4141	5.332e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2189	0.1454	0.2935	0.003865	0.002369		0	0.2928 0.04319

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.20	748.3	0.1979	0.2163	0.05687	0.1232	0.2296	0.5214
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1018	0.01376	0.2542	0.007607	0.4142	5.208e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2185	0.1465	0.2929	0.003768	0.002323		0	0.2927 0.04329

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.40	754.9	0.1978	0.2183	0.05732	0.1255	0.2267	0.5201
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1041	0.01449	0.2520	0.008301	0.4143	5.089e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2180	0.1477	0.2923	0.003669	0.002279		0	0.2927 0.04340

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.60	761.6	0.1978	0.2204	0.05777	0.1278	0.2237	0.5187
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1064	0.01524	0.2498	0.009053	0.4144	4.975e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2174	0.1488	0.2917	0.003567	0.002235		0	0.2927 0.04352

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.80	768.3	0.1977	0.2224	0.05821	0.1302	0.2208	0.5173
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1086	0.01602	0.2476	0.009868	0.4145	4.867e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2169	0.1500	0.2912	0.003463	0.002192		0	0.2926 0.04363

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.00	775.0	0.1977	0.2243	0.05865	0.1326	0.2179	0.5158
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1108	0.01681	0.2453	0.01075	0.4146	4.763e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2163	0.1513	0.2907	0.003357	0.002151		0	0.2926 0.04376

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.20	781.8	0.1976	0.2263	0.05909	0.1349	0.2151	0.5144
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1130	0.01762	0.2431	0.01170	0.4147	4.663e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2156	0.1525	0.2901	0.003248	0.002110		0	0.2925 0.04388

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.40	788.5	0.1975	0.2282	0.05952	0.1373	0.2123	0.5129
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1151	0.01845	0.2407	0.01274	0.4148	4.567e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2149	0.1538	0.2896	0.003137	0.002071		0	0.2924 0.04401

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.60	795.3	0.1974	0.2300	0.05995	0.1397	0.2095	0.5113
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1171	0.01930	0.2384	0.01385	0.4148	4.474e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2142	0.1552	0.2892	0.003023	0.002033		0	0.2923 0.04415

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.80	802.1	0.1973	0.2318	0.06037	0.1420	0.2068	0.5098
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1191	0.02017	0.2360	0.01505	0.4148	4.385e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2135	0.1565	0.2887	0.002907	0.001998		0	0.2921 0.04429

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.00	808.8	0.1972	0.2336	0.06079	0.1444	0.2041	0.5081
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1211	0.02106	0.2336	0.01635	0.4148	4.298e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2126	0.1579	0.2883	0.002788	0.001963		0	0.2920 0.04443

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.20	815.6	0.1971	0.2353	0.06121	0.1468	0.2014	0.5065
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1230	0.02196	0.2311	0.01775	0.4148	4.215e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2118	0.1594	0.2878	0.002667	0.001931		0	0.2918 0.04458

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
15.40	822.4	0.1969	0.2369	0.06163	0.1491	0.1988	0.5048	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.1249	0.02287	0.2285	0.01927	0.4147	4.134e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2108	0.1609	0.2875	0.002544	0.001902		0	0.2916 0.04474

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
15.60	829.1	0.1967	0.2385	0.06204	0.1515	0.1962	0.5031	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.1267	0.02380	0.2260	0.02090	0.4146	4.055e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2099	0.1624	0.2871	0.002418	0.001874		0	0.2914 0.04490

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
15.80	835.8	0.1965	0.2401	0.06245	0.1539	0.1937	0.5013	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.1285	0.02475	0.2233	0.02266	0.4145	3.978e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2088	0.1640	0.2867	0.002289	0.001849		0	0.2912 0.04507

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
16.00	842.6	0.1963	0.2415	0.06285	0.1562	0.1911	0.4995	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.1302	0.02571	0.2206	0.02455	0.4143	3.903e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2077	0.1657	0.2864	0.002157	0.001827		0	0.2909 0.04525

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
16.20	849.3	0.1960	0.2430	0.06326	0.1585	0.1887	0.4976	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.1319	0.02668	0.2178	0.02660	0.4141	3.830e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2065	0.1674	0.2862	0.002023	0.001808		0	0.2907 0.04543

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)	
16.40	855.9	0.1957	0.2443	0.06367	0.1608	0.1862	0.4957	
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
		0.1336	0.02767	0.2150	0.02881	0.4138	3.759e-5	
mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2052	0.1692	0.2859	0.001887	0.001793		0	0.2903 0.04563

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
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16.60 862.6 0.1953 0.2456 0.06407 0.1631 0.1838 0.4937
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1352 0.02867 0.2120 0.03119 0.4134 3.689e-5

mode bi g pl ilm ru ky q H2O
0.2038 0.1711 0.2857 0.001747 0.001781 0 0.2900 0.04583

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.80 869.1 0.1949 0.2468 0.06447 0.1654 0.1814 0.4917
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1367 0.02968 0.2090 0.03376 0.4130 3.620e-5

mode bi g pl ilm ru ky q H2O
0.2023 0.1731 0.2855 0.001604 0.001773 0 0.2896 0.04604

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.00 875.7 0.1945 0.2479 0.06488 0.1677 0.1791 0.4895
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1383 0.03071 0.2059 0.03653 0.4125 3.552e-5

mode bi g pl ilm ru ky q H2O
0.2008 0.1751 0.2854 0.001459 0.001769 0 0.2892 0.04627

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.20 882.2 0.1940 0.2490 0.06528 0.1699 0.1768 0.4874
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1398 0.03174 0.2026 0.03953 0.4119 3.486e-5

mode bi g pl ilm ru ky q H2O
0.1991 0.1773 0.2853 0.001310 0.001770 0 0.2888 0.04650

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.40 888.6 0.1934 0.2500 0.06569 0.1721 0.1745 0.4851
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1412 0.03279 0.1993 0.04277 0.4112 3.420e-5

mode bi g pl ilm ru ky q H2O
0.1972 0.1796 0.2853 0.001158 0.001776 0 0.2883 0.04675

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.60 894.9 0.1928 0.2509 0.06610 0.1743 0.1723 0.4828
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1427 0.03385 0.1958 0.04627 0.4105 3.355e-5

mode bi g pl ilm ru ky q H2O
0.1952 0.1819 0.2853 0.001002 0.001788 0 0.2877 0.04702

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.80 901.2 0.1921 0.2517 0.06651 0.1765 0.1701 0.4803
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)

0.1440 0.03492 0.1921 0.05007 0.4096 3.290e-5

mode bi g pl ilm ru ky q H2O
0.1931 0.1845 0.28530.0008424 0.001806 0 0.2872 0.04730

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.00 907.4 0.1913 0.2523 0.06693 0.1786 0.1680 0.4778
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1454 0.03600 0.1883 0.05417 0.4086 3.226e-5

mode bi g pl ilm ru ky q H2O
0.1908 0.1872 0.28540.0006791 0.001831 0 0.2865 0.04759

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.20 913.4 0.1904 0.2529 0.06735 0.1807 0.1658 0.4751
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1467 0.03710 0.1843 0.05862 0.4075 3.162e-5

mode bi g pl ilm ru ky q H2O
0.1883 0.1900 0.28560.0005116 0.001863 0 0.2858 0.04790

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.40 919.3 0.1894 0.2534 0.06777 0.1827 0.1637 0.4723
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1480 0.03820 0.1800 0.06344 0.4062 3.098e-5

mode bi g pl ilm ru ky q H2O
0.1856 0.1930 0.28580.0003398 0.001903 0 0.2850 0.04824

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.60 925.1 0.1884 0.2537 0.06820 0.1847 0.1617 0.4694
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1493 0.03931 0.1756 0.06867 0.4047 3.034e-5

mode bi g pl ilm ru ky q H2O
0.1827 0.1963 0.28610.0001633 0.001952 0 0.2842 0.04860

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
6.00 578.7 0.2026 0.1568 0.04075 0.06691 0.3233 0.5417
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.02186 0.001773 0.1506 0.9996 0.9937 0.3060
k(pl) x(ilm) Q(ilm)

0.0005011 0.4698-0.0004493

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2258	0.1204	0	0.3118	0.006344	0.003319	0.2912	0.04121

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.20	581.7	0.2026	0.1574	0.04109	0.06777	0.3216	0.5416
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.02312	0.001858	0.1516	0.9996	0.9934	0.3054
		k(pl)	x(ilm)	Q(ilm)			
		0.0005302	0.4668	-0.0006326			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2257	0.1207	0	0.3115	0.006285	0.003314	0.2912	0.04123

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.40	584.8	0.2025	0.1580	0.04144	0.06865	0.3198	0.5415
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.02445	0.001948	0.1526	0.9996	0.9931	0.3047
		k(pl)	x(ilm)	Q(ilm)			
		0.0005612	0.4638	-0.001078			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2257	0.1211	0	0.3112	0.006225	0.003308	0.2912	0.04126

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.60	587.9	0.2024	0.1587	0.04180	0.06954	0.3180	0.5414
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.02585	0.002044	0.1536	0.9996	0.9928	0.3040
		k(pl)	x(ilm)	Q(ilm)			
		0.0005942	0.4607	-0.003760			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2256	0.1214	0	0.3109	0.006165	0.003302	0.2913	0.04129

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
6.80	591.0	0.2022	0.1595	0.04217	0.07045	0.3162	0.5414
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.02733	0.002146	0.1545	0.9995	0.9925	0.3033
		k(pl)	x(ilm)	Q(ilm)			
		0.0006294	0.4577	0.002470			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2255	0.1218	0	0.3106	0.006104	0.003296	0.2913	0.04132

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
7.00	594.1	0.2021	0.1603	0.04254	0.07138	0.3143	0.5413
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.02887	0.002255	0.1555	0.9995	0.9922	0.3025
		k(pl)	x(ilm)	Q(ilm)			

0.0006670 0.45460.0009220

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2255	0.1222	0	0.3103	0.006042	0.003289	0.2913	0.04135

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.20 597.3 0.2019 0.1613 0.04293 0.07233 0.3124 0.5412
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03050 0.002371 0.1565 0.9995 0.9918 0.3017
k(pl) x(ilm) Q(ilm)
0.0007072 0.45150.0005639

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2254	0.1227	0	0.3099	0.005980	0.003281	0.2914	0.04138

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.40 600.5 0.2018 0.1623 0.04332 0.07329 0.3104 0.5412
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03221 0.002495 0.1574 0.9994 0.9914 0.3008
k(pl) x(ilm) Q(ilm)
0.0007502 0.44850.0004047

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2253	0.1231	0	0.3096	0.005917	0.003273	0.2914	0.04141

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.60 603.7 0.2016 0.1633 0.04372 0.07427 0.3084 0.5411
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03400 0.002626 0.1583 0.9994 0.9910 0.2999
k(pl) x(ilm) Q(ilm)
0.0007963 0.44540.0003146

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2252	0.1236	0	0.3092	0.005854	0.003264	0.2914	0.04144

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
7.80 606.9 0.2014 0.1645 0.04414 0.07528 0.3063 0.5410
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03588 0.002767 0.1593 0.9994 0.9906 0.2989
k(pl) x(ilm) Q(ilm)
0.0008456 0.44240.0002567

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2251	0.1241	0	0.3088	0.005789	0.003254	0.2915	0.04147

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.00 610.1 0.2011 0.1658 0.04456 0.07631 0.3041 0.5409
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03784 0.002918 0.1602 0.9994 0.9901 0.2978
k(pl) x(ilm) Q(ilm)

0.0008986 0.43930.0002163

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2250	0.1246	0	0.3083	0.005724	0.003244	0.2915	0.04151

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.20 613.4 0.2009 0.1671 0.04499 0.07735 0.3019 0.5408
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.03989 0.003079 0.1611 0.9993 0.9897 0.2967
k(pl) x(ilm) Q(ilm)
0.0009555 0.43630.0001866

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2249	0.1252	0	0.3079	0.005657	0.003233	0.2916	0.04154

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.40 616.8 0.2007 0.1686 0.04544 0.07842 0.2997 0.5408
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04204 0.003251 0.1620 0.9993 0.9891 0.2956
k(pl) x(ilm) Q(ilm)
0.001017 0.43320.0001638

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2248	0.1258	0	0.3074	0.005590	0.003222	0.2917	0.04158

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.60 620.1 0.2004 0.1701 0.04589 0.07952 0.2973 0.5407
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04427 0.003435 0.1629 0.9992 0.9886 0.2944
k(pl) x(ilm) Q(ilm)
0.001083 0.43020.0001457

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2247	0.1263	0	0.3069	0.005521	0.003210	0.2917	0.04161

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
8.80 623.5 0.2001 0.1718 0.04635 0.08064 0.2950 0.5405
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04659 0.003632 0.1638 0.9992 0.9880 0.2931
k(pl) x(ilm) Q(ilm)
0.001154 0.42720.0001311

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2246	0.1270	0	0.3064	0.005452	0.003197	0.2918	0.04165

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.00 627.0 0.1998 0.1735 0.04683 0.08178 0.2925 0.5404
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.04900 0.003842 0.1647 0.9992 0.9874 0.2917
k(pl) x(ilm) Q(ilm)

0.001230 0.42420.0001190

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2245	0.1276	0	0.3058	0.005381	0.003183	0.2919	0.04169

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.20 630.5 0.1995 0.1754 0.04731 0.08295 0.2900 0.5403
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05150 0.004067 0.1656 0.9991 0.9867 0.2903
k(pl) x(ilm) Q(ilm)
0.001313 0.42120.0001089

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2243	0.1283	0	0.3052	0.005309	0.003169	0.2919	0.04173

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.40 634.0 0.1992 0.1773 0.04781 0.08415 0.2874 0.5401
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05408 0.004307 0.1664 0.9991 0.9860 0.2888
k(pl) x(ilm) Q(ilm)
0.001402 0.41830.0001002

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2242	0.1290	0	0.3046	0.005235	0.003154	0.2920	0.04177

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.60 637.6 0.1988 0.1794 0.04831 0.08537 0.2848 0.5400
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05674 0.004563 0.1673 0.9990 0.9852 0.2872
k(pl) x(ilm) Q(ilm)
0.001498 0.4153 9.275e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2240	0.1298	0	0.3040	0.005161	0.003138	0.2921	0.04181

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
9.80 641.2 0.1985 0.1816 0.04882 0.08661 0.2822 0.5398
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.05949 0.004835 0.1682 0.9990 0.9844 0.2856
k(pl) x(ilm) Q(ilm)
0.001602 0.4124 8.627e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2239	0.1305	0	0.3033	0.005085	0.003121	0.2922	0.04185

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 644.9 0.1981 0.1839 0.04934 0.08788 0.2794 0.5395
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06230 0.005125 0.1691 0.9989 0.9835 0.2839
k(pl) x(ilm) Q(ilm)

0.001714 0.4096 8.058e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2237	0.1313	0	0.3026	0.005007	0.003104	0.2923	0.04190

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.20	648.7	0.1978	0.1862	0.04987	0.08918	0.2766	0.5393
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.06519	0.005433	0.1699	0.9989	0.9825	0.2821
		k(pl)	x(ilm)	Q(ilm)			
		0.001835	0.4067	7.556e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2235	0.1322	0	0.3019	0.004928	0.003086	0.2924	0.04194

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.40	652.4	0.1974	0.1887	0.05040	0.09051	0.2738	0.5390
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.06813	0.005759	0.1708	0.9988	0.9815	0.2802
		k(pl)	x(ilm)	Q(ilm)			
		0.001966	0.4039	7.109e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2233	0.1330	0	0.3012	0.004848	0.003067	0.2925	0.04199

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.60	656.3	0.1970	0.1913	0.05094	0.09185	0.2709	0.5387
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.07113	0.006104	0.1717	0.9987	0.9804	0.2783
		k(pl)	x(ilm)	Q(ilm)			
		0.002108	0.4011	6.709e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2232	0.1339	0	0.3005	0.004766	0.003048	0.2926	0.04204

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.80	660.1	0.1966	0.1940	0.05149	0.09323	0.2680	0.5384
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.07418	0.006469	0.1725	0.9987	0.9792	0.2763
		k(pl)	x(ilm)	Q(ilm)			
		0.002260	0.3984	6.350e-5			

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2230	0.1348	0	0.2997	0.004683	0.003028	0.2927	0.04209

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.00	664.1	0.1962	0.1968	0.05203	0.09462	0.2651	0.5381
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.07727	0.006853	0.1734	0.9986	0.9779	0.2742
		k(pl)	x(ilm)	Q(ilm)			

0.002425 0.3957 6.026e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2227	0.1357	0	0.2989	0.004598	0.003007	0.2929	0.04214

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 668.0 0.1958 0.1996 0.05258 0.09605 0.2621 0.5377
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08039 0.007257 0.1743 0.9985 0.9765 0.2721
k(pl) x(ilm) Q(ilm)
0.002603 0.3930 5.732e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2225	0.1367	0	0.2981	0.004512	0.002985	0.2930	0.04219

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 672.0 0.1954 0.2026 0.05313 0.09749 0.2591 0.5373
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08354 0.007681 0.1751 0.9984 0.9750 0.2699
k(pl) x(ilm) Q(ilm)
0.002795 0.3904 5.464e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2223	0.1377	0	0.2973	0.004425	0.002963	0.2931	0.04225

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.60 676.1 0.1950 0.2056 0.05368 0.09895 0.2561 0.5368
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08670 0.008124 0.1760 0.9984 0.9733 0.2676
k(pl) x(ilm) Q(ilm)
0.003002 0.3878 5.220e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2220	0.1387	0	0.2964	0.004337	0.002941	0.2932	0.04230

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 680.2 0.1947 0.2086 0.05423 0.1004 0.2530 0.5363
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08987 0.008586 0.1769 0.9983 0.9715 0.2653
k(pl) x(ilm) Q(ilm)
0.003225 0.3853 4.996e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2218	0.1397	0	0.2956	0.004247	0.002917	0.2933	0.04236

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 684.3 0.1943 0.2118 0.05478 0.1019 0.2500 0.5358
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09304 0.009068 0.1778 0.9982 0.9696 0.2630
k(pl) x(ilm) Q(ilm)

0.003466 0.3828 4.790e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2215	0.1408	0	0.2947	0.004156	0.002894	0.2935	0.04242

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 688.5 0.1939 0.2149 0.05533 0.1035 0.2469 0.5352
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09621 0.009568 0.1786 0.9981 0.9675 0.2606
k(pl) x(ilm) Q(ilm)
0.003724 0.3804 4.600e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2212	0.1419	0	0.2939	0.004064	0.002869	0.2936	0.04248

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 692.7 0.1935 0.2182 0.05587 0.1050 0.2438 0.5347
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09936 0.01009 0.1795 0.9980 0.9652 0.2581
k(pl) x(ilm) Q(ilm)
0.004002 0.3781 4.425e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2210	0.1430	0	0.2930	0.003971	0.002845	0.2937	0.04254

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 696.9 0.1931 0.2214 0.05640 0.1066 0.2408 0.5340
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1025 0.01062 0.1804 0.9979 0.9626 0.2556
k(pl) x(ilm) Q(ilm)
0.004301 0.3758 4.263e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2207	0.1441	0	0.2921	0.003877	0.002820	0.2938	0.04260

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 701.2 0.1927 0.2247 0.05693 0.1081 0.2377 0.5334
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1056 0.01118 0.1813 0.9977 0.9598 0.2531
k(pl) x(ilm) Q(ilm)
0.004621 0.3735 4.113e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2204	0.1452	0	0.2913	0.003782	0.002794	0.2939	0.04267

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 705.5 0.1924 0.2280 0.05746 0.1097 0.2347 0.5327
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1086 0.01174 0.1822 0.9976 0.9568 0.2505
k(pl) x(ilm) Q(ilm)

0.004966 0.3713 3.973e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2200	0.1463	0	0.2904	0.003687	0.002768	0.2940	0.04273

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.20	709.9	0.1920	0.2313	0.05798	0.1113	0.2316	0.5319
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.1117	0.01233	0.1831	0.9975	0.9533	0.2479	
	k(pl)	x(ilm)	Q(ilm)				
	0.005335	0.3691	3.843e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2197	0.1475	0	0.2895	0.003590	0.002742	0.2941	0.04280

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.40	714.2	0.1917	0.2347	0.05849	0.1129	0.2286	0.5312
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.1146	0.01293	0.1839	0.9973	0.9495	0.2453	
	k(pl)	x(ilm)	Q(ilm)				
	0.005731	0.3670	3.721e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2193	0.1487	0	0.2887	0.003493	0.002716	0.2942	0.04287

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.60	718.6	0.1913	0.2380	0.05899	0.1146	0.2256	0.5304
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.1176	0.01354	0.1848	0.9971	0.9452	0.2426	
	k(pl)	x(ilm)	Q(ilm)				
	0.006156	0.3650	3.608e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2190	0.1498	0	0.2878	0.003395	0.002689	0.2943	0.04295

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.80	723.0	0.1910	0.2413	0.05949	0.1162	0.2226	0.5295
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.1205	0.01417	0.1857	0.9969	0.9403	0.2399	
	k(pl)	x(ilm)	Q(ilm)				
	0.006611	0.3630	3.502e-5				

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2186	0.1510	0	0.2870	0.003296	0.002662	0.2944	0.04302

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.00	727.5	0.1906	0.2446	0.05998	0.1178	0.2197	0.5286
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.1233	0.01480	0.1866	0.9967	0.9346	0.2372	
	k(pl)	x(ilm)	Q(ilm)				

0.007098 0.3611 3.402e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2182	0.1522	0	0.2861	0.003197	0.002635	0.2945	0.04310

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.20 732.0 0.1903 0.2479 0.06045 0.1195 0.2167 0.5277
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1260 0.01545 0.1875 0.9964 0.9280 0.2345
k(pl) x(ilm) Q(ilm)
0.007620 0.3592 3.309e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2178	0.1535	0	0.2853	0.003098	0.002608	0.2946	0.04318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.40 736.5 0.1900 0.2512 0.06093 0.1212 0.2138 0.5268
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1287 0.01611 0.1884 0.9961 0.9199 0.2318
k(pl) x(ilm) Q(ilm)
0.008179 0.3574 3.221e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2173	0.1547	0	0.2845	0.002998	0.002581	0.2947	0.04326

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.60 741.1 0.1897 0.2544 0.06139 0.1229 0.2109 0.5258
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1313 0.01678 0.1893 0.9957 0.9097 0.2291
k(pl) x(ilm) Q(ilm)
0.008778 0.3556 3.139e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2169	0.1559	0	0.2837	0.002898	0.002554	0.2947	0.04334

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.80 745.7 0.1894 0.2575 0.06184 0.1246 0.2081 0.5248
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1339 0.01746 0.1902 0.9951 0.8957 0.2263
k(pl) x(ilm) Q(ilm)
0.009420 0.3540 3.061e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2164	0.1572	0	0.2829	0.002797	0.002526	0.2948	0.04343

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.00 750.3 0.1891 0.2607 0.06228 0.1263 0.2053 0.5237
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.1363 0.01815 0.1912 0.9942 0.8729 0.2236
k(pl) x(ilm) Q(ilm)

0.01011 0.3524 2.989e-5

mode bi g mu pl ilm ru q H2O
0.2159 0.1584 0 0.2822 0.002696 0.002499 0.2948 0.04352
calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 484.6 0.1792 0.004912 0.006108 0.03329 0.3834 0.6485
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3489 0.08086 0.1004 0.9953 0.9999 0.02815
k(pl) x(ilm) Q(ilm)
2.265e-5 0.4451-0.0001573

mode bi g mu pl ilm ru q H2O
0.2315 0.1650 0.1441 0.1238 0 0.005472 0.3141 0.01620

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.20 492.4 0.1800 0.005776 0.006882 0.03529 0.3812 0.6459
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3477 0.08032 0.1034 0.9953 0.9999 0.03010
k(pl) x(ilm) Q(ilm)
2.986e-5 0.4389-0.0002079

mode bi g mu pl ilm ru q H2O
0.2314 0.1650 0.1433 0.1245 0 0.005414 0.3140 0.01639

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.40 500.2 0.1807 0.006776 0.007735 0.03736 0.3789 0.6433
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3464 0.07973 0.1064 0.9954 0.9998 0.03218
k(pl) x(ilm) Q(ilm)
3.918e-5 0.4329-0.0003059

mode bi g mu pl ilm ru q H2O
0.2313 0.1651 0.1424 0.1254 0 0.005354 0.3138 0.01660

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.60 508.1 0.1814 0.007934 0.008675 0.03952 0.3764 0.6406
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3450 0.07908 0.1094 0.9955 0.9998 0.03440

k(pl) x(ilm) Q(ilm)
5.115e-5 0.4272-0.0005786

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2312	0.1652	0.1415	0.1264		0	0.005291	0.3137 0.01682

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.80 516.1 0.1821 0.009274 0.009709 0.04177 0.3738 0.6379
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3435 0.07836 0.1124 0.9955 0.9997 0.03677
k(pl) x(ilm) Q(ilm)
6.650e-5 0.4218-0.005178

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2310	0.1653	0.1404	0.1274		0	0.005226	0.3135 0.01706

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.00 524.1 0.1827 0.01082 0.01084 0.04411 0.3710 0.6352
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3419 0.07758 0.1154 0.9956 0.9996 0.03932
k(pl) x(ilm) Q(ilm)
8.609e-5 0.41650.0007438

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2309	0.1654	0.1392	0.1286		0	0.005158	0.3134 0.01733

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.20 532.3 0.1833 0.01261 0.01209 0.04654 0.3680 0.6324
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3401 0.07672 0.1185 0.9956 0.9995 0.04206
k(pl) x(ilm) Q(ilm)
0.0001110 0.41150.0003472

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2308	0.1656	0.1379	0.1298		0	0.005087	0.3132 0.01762

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.40 540.5 0.1838 0.01468 0.01345 0.04908 0.3647 0.6296
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3381 0.07579 0.1216 0.9957 0.9994 0.04500
k(pl) x(ilm) Q(ilm)
0.0001426 0.40670.0002264

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2306	0.1657	0.1365	0.1313		0	0.005014	0.3130 0.01793

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.60 548.8 0.1843 0.01705 0.01493 0.05171 0.3613 0.6266
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3359 0.07477 0.1247 0.9957 0.9992 0.04816

k(pl) x(ilm) Q(ilm)
0.0001823 0.40200.0001680

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2304	0.1659	0.1349	0.1328		0	0.004937	0.3128 0.01828

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
11.80 557.2 0.1848 0.01977 0.01653 0.05443 0.3576 0.6237
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3335 0.07368 0.1277 0.9958 0.9990 0.05155
k(pl) x(ilm) Q(ilm)
0.0002321 0.39760.0001336

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2302	0.1660	0.1332	0.1346		0	0.004859	0.3125 0.01866

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.00 565.7 0.1852 0.02288 0.01825 0.05725 0.3537 0.6206
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3310 0.07250 0.1308 0.9958 0.9987 0.05517
k(pl) x(ilm) Q(ilm)
0.0002941 0.39330.0001109

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2300	0.1662	0.1312	0.1365		0	0.004777	0.3123 0.01907

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.20 574.2 0.1855 0.02640 0.02010 0.06015 0.3495 0.6175
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3281 0.07124 0.1339 0.9959 0.9984 0.05901
k(pl) x(ilm) Q(ilm)
0.0003705 0.3892 9.491e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2297	0.1664	0.1291	0.1386		0	0.004694	0.3120 0.01952

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.40 582.8 0.1858 0.03037 0.02205 0.06313 0.3451 0.6142
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3250 0.06991 0.1369 0.9959 0.9980 0.06307
k(pl) x(ilm) Q(ilm)
0.0004639 0.3853 8.300e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2294	0.1666	0.1267	0.1409		0	0.004608	0.3117 0.02000

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.60 591.4 0.1861 0.03481 0.02410 0.06616 0.3404 0.6110
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3217 0.06852 0.1399 0.9960 0.9975 0.06730

k(pl) x(ilm) Q(ilm)
0.0005769 0.3815 7.383e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2291	0.1669	0.1242	0.1434		0	0.004521	0.3114 0.02053

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
12.80 599.9 0.1862 0.03973 0.02623 0.06925 0.3355 0.6076
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3182 0.06708 0.1429 0.9960 0.9969 0.07168
k(pl) x(ilm) Q(ilm)
0.0007121 0.3779 6.657e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2287	0.1671	0.1215	0.1461		0	0.004432	0.3110 0.02109

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.00 608.4 0.1863 0.04512 0.02842 0.07237 0.3304 0.6042
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3144 0.06560 0.1458 0.9960 0.9962 0.07616
k(pl) x(ilm) Q(ilm)
0.0008720 0.3745 6.069e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2283	0.1674	0.1185	0.1490		0	0.004343	0.3107 0.02169

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.20 616.9 0.1864 0.05096 0.03064 0.07550 0.3251 0.6008
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3104 0.06410 0.1486 0.9960 0.9954 0.08068
k(pl) x(ilm) Q(ilm)
0.001059 0.3713 5.585e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2279	0.1677	0.1154	0.1521		0	0.004254	0.3103 0.02231

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.40 625.2 0.1864 0.05723 0.03287 0.07863 0.3196 0.5973
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3063 0.06259 0.1513 0.9960 0.9944 0.08520
k(pl) x(ilm) Q(ilm)
0.001275 0.3682 5.181e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2274	0.1680	0.1122	0.1553		0	0.004165	0.3099 0.02297

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.60 633.4 0.1864 0.06390 0.03510 0.08175 0.3140 0.5938
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.3020 0.06109 0.1539 0.9960 0.9933 0.08966

k(pl) x(ilm) Q(ilm)
0.001522 0.3653 4.839e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2269	0.1684	0.1088	0.1587		0	0.004077	0.3095 0.02365

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
13.80 641.5 0.1863 0.07092 0.03729 0.08485 0.3083 0.5903
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2976 0.05962 0.1565 0.9960 0.9920 0.09402
k(pl) x(ilm) Q(ilm)
0.001802 0.3626 4.546e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2264	0.1688	0.1053	0.1622		0	0.003990	0.3090 0.02435

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.00 649.5 0.1861 0.07825 0.03944 0.08793 0.3025 0.5868
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2932 0.05818 0.1589 0.9960 0.9906 0.09823
k(pl) x(ilm) Q(ilm)
0.002117 0.3599 4.292e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2258	0.1692	0.1017	0.1657		0	0.003905	0.3086 0.02507

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.20 657.3 0.1860 0.08585 0.04152 0.09096 0.2967 0.5833
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2886 0.05677 0.1613 0.9959 0.9889 0.1023
k(pl) x(ilm) Q(ilm)
0.002468 0.3575 4.071e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2252	0.1696	0.09803	0.1694		0	0.003821	0.3081 0.02580

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.40 665.0 0.1858 0.09367 0.04353 0.09396 0.2909 0.5799
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2841 0.05542 0.1635 0.9959 0.9870 0.1061
k(pl) x(ilm) Q(ilm)
0.002857 0.3551 3.876e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2246	0.1701	0.09434	0.1730		0	0.003738	0.3077 0.02654

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.60 672.6 0.1856 0.1017 0.04547 0.09692 0.2850 0.5764
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2796 0.05412 0.1657 0.9958 0.9849 0.1098

k(pl) x(ilm) Q(ilm)
0.003287 0.3528 3.703e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
0.2239	0.1706	0.09062	0.1767			0	0.003658	0.3072 0.02729

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
14.80 680.0 0.1854 0.1098 0.04732 0.09984 0.2792 0.5729
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2750 0.05288 0.1678 0.9957 0.9825 0.1132
k(pl) x(ilm) Q(ilm)
0.003759 0.3507 3.548e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
0.2232	0.1711	0.08689	0.1804			0	0.003579	0.3067 0.02804

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.00 687.3 0.1851 0.1181 0.04908 0.1027 0.2734 0.5695
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2705 0.05170 0.1698 0.9956 0.9798 0.1164
k(pl) x(ilm) Q(ilm)
0.004275 0.3486 3.409e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
0.2225	0.1717	0.08317	0.1842			0	0.003502	0.3062 0.02879

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.20 694.6 0.1849 0.1264 0.05075 0.1056 0.2676 0.5661
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2661 0.05057 0.1717 0.9955 0.9767 0.1194
k(pl) x(ilm) Q(ilm)
0.004837 0.3467 3.283e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
0.2217	0.1723	0.07946	0.1878			0	0.003427	0.3057 0.02954

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.40 701.7 0.1846 0.1348 0.05234 0.1083 0.2619 0.5627
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2617 0.04951 0.1736 0.9953 0.9732 0.1221
k(pl) x(ilm) Q(ilm)
0.005449 0.3448 3.168e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
0.2209	0.1730	0.07578	0.1915			0	0.003354	0.3052 0.03029

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.60 708.8 0.1843 0.1432 0.05384 0.1111 0.2562 0.5593
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2574 0.04850 0.1754 0.9952 0.9693 0.1247

k(pl) x(ilm) Q(ilm)
0.006114 0.3430 3.063e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2200	0.1736	0.07213	0.1952		0	0.003283	0.3047 0.03103

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
15.80 715.7 0.1840 0.1516 0.05525 0.1138 0.2506 0.5559
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2532 0.04755 0.1771 0.9950 0.9647 0.1270
k(pl) x(ilm) Q(ilm)
0.006833 0.3413 2.967e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2191	0.1744	0.06853	0.1988		0	0.003214	0.3042 0.03178

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.00 722.6 0.1837 0.1599 0.05658 0.1165 0.2451 0.5525
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2490 0.04666 0.1788 0.9947 0.9594 0.1291
k(pl) x(ilm) Q(ilm)
0.007611 0.3396 2.878e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2182	0.1752	0.06497	0.2024		0	0.003148	0.3036 0.03252

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.20 729.5 0.1834 0.1682 0.05783 0.1192 0.2397 0.5491
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2449 0.04582 0.1803 0.9944 0.9532 0.1310
k(pl) x(ilm) Q(ilm)
0.008451 0.3380 2.795e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2172	0.1760	0.06147	0.2059		0	0.003084	0.3031 0.03326

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 736.3 0.1831 0.1763 0.05900 0.1218 0.2343 0.5457
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2409 0.04504 0.1819 0.9941 0.9457 0.1327
k(pl) x(ilm) Q(ilm)
0.009356 0.3365 2.719e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2161	0.1769	0.05803	0.2094		0	0.003022	0.3025 0.03399

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.60 743.0 0.1827 0.1843 0.06009 0.1244 0.2290 0.5422
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2370 0.04430 0.1833 0.9936 0.9365 0.1341

k(pl) x(ilm) Q(ilm)
0.01033 0.3350 2.647e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2150	0.1779	0.05465	0.2129		0	0.002964	0.3019 0.03473

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.80 749.7 0.1822 0.1920 0.06111 0.1269 0.2239 0.5387
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2331 0.04362 0.1846 0.9930 0.9245 0.1354
k(pl) x(ilm) Q(ilm)
0.01137 0.3335 2.581e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2137	0.1790	0.05135	0.2163		0	0.002909	0.3013 0.03547

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.00 756.3 0.1817 0.1993 0.06206 0.1294 0.2189 0.5350
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2292 0.04298 0.1858 0.9921 0.9079 0.1363
k(pl) x(ilm) Q(ilm)
0.01246 0.3321 2.518e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2121	0.1802	0.04814	0.2198		0	0.002861	0.3006 0.03621

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.20 762.6 0.1809 0.2058 0.06291 0.1318 0.2140 0.5308
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2253 0.04240 0.1865 0.9905 0.8803 0.1365
k(pl) x(ilm) Q(ilm)
0.01357 0.3306 2.457e-5

mode	bi	g	mu	pl	ilm	ru	q	H2O
	0.2101	0.1819	0.04510	0.2233		0	0.002825	0.2997 0.03699

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
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6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, g, mu, pl, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 643.5 0.1939 0.1568 0.1130 0.08492 0.2743 0.5462
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07388 0.01610 0.1708 0.9989 0.9851 0.2760
k(pl)
0.001609

mode bi g mu pl ru ky q H2O
0.2246 0.13780 0.003502 0.2990 0.003981 0 0.2925 0.04175

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.20 646.2 0.1935 0.1571 0.1115 0.08589 0.2730 0.5467
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07947 0.01713 0.1711 0.9989 0.9845 0.2735
k(pl)
0.001692

mode bi g mu pl ru ky q H2O
0.2245 0.1387 0.001979 0.2965 0.003954 0 0.2928 0.04151

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.40 648.9 0.1930 0.1575 0.1098 0.08688 0.2717 0.5472
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.08546 0.01825 0.1713 0.9988 0.9840 0.2707
k(pl)
0.001782

mode bi g mu pl ru ky q H2O
0.2244 0.1397 0.003744 0.2938 0.003926 0 0.2931 0.04125

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.60 651.6 0.1925 0.1579 0.1080 0.08789 0.2704 0.5478
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09184 0.01945 0.1715 0.9987 0.9834 0.2676
k(pl)
0.001878

mode bi g mu pl ru ky q H2O
0.2243 0.1408 0.005645 0.2909 0.003897 0 0.2935 0.04098

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.80 654.4 0.1920 0.1584 0.1061 0.08893 0.2690 0.5484
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.09857 0.02073 0.1716 0.9987 0.9828 0.2643
k(pl)
0.001981

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2241	0.1420	0.007678	0.2878	0.003869	0	0.2939	0.04068

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.00	657.1	0.1915	0.1590	0.1040	0.08999	0.2677	0.5490
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1056	0.02207	0.1718	0.9986	0.9821	0.2606
		k(pl)					
		0.002093					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2240	0.1432	0.009832	0.2845	0.003839	0	0.2943	0.04036

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.20	660.0	0.1910	0.1597	0.1018	0.09108	0.2663	0.5495
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1129	0.02347	0.1719	0.9985	0.9815	0.2567
		k(pl)					
		0.002213					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2238	0.1445	0.01209	0.2811	0.003809	0	0.2947	0.04003

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.40	662.8	0.1905	0.1603	0.09953	0.09218	0.2650	0.5500
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1203	0.02489	0.1721	0.9984	0.9808	0.2524
		k(pl)					
		0.002341					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2236	0.1458	0.01444	0.2775	0.003779	0	0.2951	0.03969

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.60	665.7	0.1900	0.1611	0.09718	0.09330	0.2636	0.5505
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1278	0.02633	0.1722	0.9983	0.9800	0.2480
		k(pl)					
		0.002479					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2235	0.1472	0.01684	0.2738	0.003748	0	0.2956	0.03933

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.80	668.6	0.1895	0.1618	0.09480	0.09444	0.2622	0.5510
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1353	0.02775	0.1724	0.9982	0.9793	0.2433
		k(pl)					
		0.002627					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2233	0.1487	0.01928	0.2700	0.003717		0	0.2961 0.03898

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.00	671.5	0.1891	0.1626	0.09242	0.09559	0.2609	0.5513
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1427	0.02915	0.1726	0.9981	0.9785	0.2384
		k(pl)					
		0.002785					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2231	0.1501	0.02173	0.2663	0.003685		0	0.2965 0.03862

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.20	674.4	0.1886	0.1634	0.09006	0.09675	0.2596	0.5517
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1500	0.03051	0.1728	0.9980	0.9776	0.2334
		k(pl)					
		0.002953					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2228	0.1516	0.02417	0.2625	0.003654		0	0.2970 0.03827

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.40	677.3	0.1882	0.1642	0.08775	0.09792	0.2583	0.5519
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1570	0.03181	0.1730	0.9979	0.9767	0.2283
		k(pl)					
		0.003132					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2226	0.1530	0.02657	0.2588	0.003623		0	0.2974 0.03792

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.60	680.2	0.1879	0.1650	0.08550	0.09909	0.2570	0.5521
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1638	0.03305	0.1733	0.9978	0.9758	0.2231
		k(pl)					
		0.003322					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2224	0.1545	0.02893	0.2552	0.003591		0	0.2979 0.03758

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.80	683.2	0.1875	0.1657	0.08333	0.1003	0.2557	0.5523
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1704	0.03422	0.1736	0.9977	0.9749	0.2178
		k(pl)					
		0.003522					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2221	0.1559	0.03123	0.2516	0.003560		0	0.2983 0.03725

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.00	686.1	0.1872	0.1664	0.08124	0.1015	0.2545	0.5523
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1767	0.03532	0.1739	0.9976	0.9739	0.2126
		k(pl)					

0.003734

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2219	0.1573	0.03346	0.2482	0.003528		0	0.2987 0.03694

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.20	689.0	0.1868	0.1671	0.07924	0.1026	0.2533	0.5523
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1826	0.03635	0.1743	0.9975	0.9729	0.2072
		k(pl)					

0.003957

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2216	0.1587	0.03561	0.2448	0.003497		0	0.2991 0.03664

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.40	692.0	0.1865	0.1678	0.07733	0.1038	0.2521	0.5523
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1883	0.03730	0.1747	0.9973	0.9718	0.2020
		k(pl)					

0.004192

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2214	0.1600	0.03769	0.2416	0.003466		0	0.2995 0.03635

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.60	694.9	0.1863	0.1684	0.07552	0.1050	0.2509	0.5522
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1937	0.03819	0.1750	0.9972	0.9706	0.1967
		k(pl)					

0.004438

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2211	0.1613	0.03968	0.2385	0.003435		0	0.2998 0.03608

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.80	697.8	0.1860	0.1690	0.07380	0.1062	0.2497	0.5521
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1988	0.03902	0.1755	0.9970	0.9695	0.1914
		k(pl)					

0.004696

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2208	0.1626	0.04160	0.2355	0.003404		0	0.3002 0.03582

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.00	700.7	0.1857	0.1696	0.07217	0.1074	0.2486	0.5519
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2036	0.03978	0.1759	0.9969	0.9682	0.1863
		k(pl)					
		0.004966					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2205	0.1639	0.04343	0.2327	0.003374		0	0.3005 0.03557

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.20	703.6	0.1855	0.1701	0.07063	0.1085	0.2474	0.5517
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2082	0.04048	0.1763	0.9967	0.9669	0.1811
		k(pl)					
		0.005248					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2203	0.1651	0.04518	0.2300	0.003344		0	0.3008 0.03534

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.40	706.5	0.1852	0.1706	0.06916	0.1097	0.2463	0.5514
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2125	0.04113	0.1768	0.9965	0.9656	0.1761
		k(pl)					
		0.005542					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2200	0.1663	0.04685	0.2274	0.003314		0	0.3010 0.03513

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.60	709.4	0.1850	0.1710	0.06778	0.1109	0.2452	0.5511
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2165	0.04174	0.1772	0.9963	0.9642	0.1711
		k(pl)					
		0.005849					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2196	0.1675	0.04845	0.2249	0.003284		0	0.3013 0.03493

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.80	712.3	0.1848	0.1714	0.06648	0.1120	0.2441	0.5507
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2203	0.04229	0.1777	0.9961	0.9627	0.1662
		k(pl)					
		0.006167					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2193	0.1686	0.04996	0.2225	0.003255		0	0.3015 0.03474

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.00	715.1	0.1846	0.1718	0.06524	0.1132	0.2431	0.5503
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2238	0.04280	0.1782	0.9959	0.9612	0.1614
		k(pl)					
		0.006499					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2190	0.1698	0.05141	0.2203	0.003226		0	0.3018 0.03456

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.20	718.0	0.1844	0.1721	0.06407	0.1144	0.2420	0.5499
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2272	0.04327	0.1786	0.9957	0.9595	0.1567
		k(pl)					
		0.006842					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2187	0.1708	0.05278	0.2182	0.003198		0	0.3020 0.03440

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.40	720.8	0.1841	0.1724	0.06297	0.1155	0.2410	0.5495
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2303	0.04371	0.1791	0.9955	0.9578	0.1521
		k(pl)					
		0.007199					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2183	0.1719	0.05409	0.2161	0.003170		0	0.3021 0.03425

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.60	723.6	0.1839	0.1726	0.06192	0.1167	0.2399	0.5490
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2333	0.04411	0.1796	0.9952	0.9560	0.1476
		k(pl)					
		0.007567					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2179	0.1729	0.05533	0.2142	0.003142		0	0.3023 0.03412

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.80	726.4	0.1837	0.1728	0.06093	0.1178	0.2389	0.5485
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2360	0.04448	0.1801	0.9950	0.9542	0.1432
		k(pl)					
		0.007949					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2176	0.1740	0.05651	0.2124	0.003115		0	0.3024 0.03399

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.00	729.2	0.1835	0.1730	0.05999	0.1190	0.2379	0.5479
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2386	0.04482	0.1805	0.9947	0.9522	0.1388
		k(pl)					

0.008343

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2172	0.1750	0.05762	0.2107	0.003088		0	0.3026 0.03388

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.20	732.0	0.1833	0.1732	0.05910	0.1201	0.2369	0.5473
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2410	0.04514	0.1810	0.9944	0.9500	0.1346
		k(pl)					

0.008749

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2168	0.1759	0.05868	0.2091	0.003061		0	0.3027 0.03378

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.40	734.8	0.1831	0.1733	0.05826	0.1212	0.2359	0.5467
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2432	0.04543	0.1815	0.9941	0.9478	0.1306
		k(pl)					

0.009168

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2164	0.1769	0.05967	0.2075	0.003035		0	0.3028 0.03369

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.60	737.5	0.1829	0.1734	0.05746	0.1224	0.2350	0.5461
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2453	0.04570	0.1819	0.9938	0.9454	0.1266
		k(pl)					

0.0096

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2160	0.1779	0.06062	0.2061	0.003010		0	0.3028 0.03361

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.80	740.3	0.1827	0.1735	0.05670	0.1235	0.2340	0.5454
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2472	0.04594	0.1824	0.9934	0.9428	0.1227
		k(pl)					

0.01004

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2155	0.1788	0.06151	0.2048	0.002985		0	0.3029 0.03354

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.00	743.0	0.1825	0.1735	0.05598	0.1246	0.2330	0.5447
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2490	0.04617	0.1829	0.9930	0.9401	0.1189
		k(pl)					
		0.0105					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2150	0.1797	0.06234	0.2035	0.002960		0	0.3029 0.03348

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.20	745.7	0.1822	0.1735	0.05530	0.1257	0.2321	0.5440
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2506	0.04638	0.1833	0.9926	0.9371	0.1152
		k(pl)					
		0.01097					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2145	0.1806	0.06312	0.2024	0.002936		0	0.3030 0.03343

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.40	748.5	0.1820	0.1735	0.05465	0.1269	0.2311	0.5432
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2521	0.04657	0.1837	0.9922	0.9339	0.1117
		k(pl)					
		0.01145					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2140	0.1816	0.06386	0.2013	0.002913		0	0.3030 0.03340

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.60	751.2	0.1817	0.1734	0.05403	0.1280	0.2302	0.5424
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2535	0.04674	0.1841	0.9917	0.9304	0.1082
		k(pl)					
		0.01194					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2135	0.1825	0.06454	0.2003	0.002891		0	0.3029 0.03338

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.80	753.9	0.1814	0.1733	0.05344	0.1291	0.2292	0.5415
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2547	0.04689	0.1845	0.9912	0.9265	0.1048
		k(pl)					
		0.01245					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2129	0.1834	0.06517	0.1994	0.002869		0	0.3029 0.03337

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.00	756.6	0.1812	0.1732	0.05289	0.1302	0.2282	0.5405
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2557	0.04703	0.1849	0.9906	0.9222	0.1016
		k(pl)					
	0.01296						

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2123	0.1843	0.06574	0.1986	0.002848		0	0.3028 0.03337

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.20	759.3	0.1808	0.1731	0.05237	0.1313	0.2272	0.5395
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2566	0.04715	0.1852	0.9900	0.9173	0.09841
		k(pl)					
	0.01349						

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2116	0.1853	0.06627	0.1979	0.002829		0	0.3027 0.03339

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.40	762.0	0.1805	0.1729	0.05187	0.1324	0.2262	0.5384
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2574	0.04725	0.1855	0.9893	0.9117	0.09533
		k(pl)					
	0.01402						

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2109	0.1863	0.06673	0.1973	0.002811		0	0.3026 0.03342

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.60	764.7	0.1801	0.1727	0.05141	0.1335	0.2252	0.5372
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2580	0.04733	0.1858	0.9884	0.9050	0.09234
		k(pl)					
	0.01457						

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2100	0.1873	0.06712	0.1968	0.002794		0	0.3024 0.03348

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
18.80	767.4	0.1796	0.1725	0.05099	0.1346	0.2241	0.5358
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2583	0.04738	0.1859	0.9874	0.8967	0.08944
		k(pl)					
	0.01511						

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2091	0.1885	0.06743	0.1965	0.002781		0	0.3022 0.03357

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
19.00	770.1	0.1790	0.1721	0.05061	0.1357	0.2230	0.5342
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2583	0.04740	0.1860	0.9861	0.8857	0.08660
		k(pl)					
		0.01565					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2079	0.1897	0.06762	0.1965	0.002772		0	0.3018 0.03370

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
19.20	772.8	0.1781	0.1716	0.05032	0.1368	0.2216	0.5318
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2577	0.04734	0.1857	0.9840	0.8678	0.08377
		k(pl)					
		0.01615					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2061	0.1914	0.06757	0.1969	0.002774		0	0.3013 0.03394

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
12.00	670.2	0.1917	0.1756	0.05223	0.09679	0.2663	0.2763
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2607	0.5481	0.1263	0.01276	0.1711	0.9981

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9778 0.2493 0.002747 0.3797 4.890e-5 0.2228

mode bi ep g mu pl ilm ru ky q H2O
0.2228 0 0.1429 0.01365 0.2772 0.003966 0.003074 0.001430 0.2950 0.03998

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.20 673.4 0.1916 0.1757 0.05251 0.09793 0.2650 0.2778
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2617 0.5483 0.1300 0.01349 0.1720 0.9980
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9769 0.2416 0.002938 0.3781 4.747e-5 0.2229

mode bi ep g mu pl ilm ru ky q H2O
0.2229 0 0.1436 0.005420 0.2815 0.003872 0.003056 0.004515 0.2937 0.04137
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.00 670.2 0.1917 0.1755 0.05223 0.09679 0.2663 0.2763
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2607 0.5481 0.1263 0.01276 0.1711 0.9981
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9778 0.2492 0.002746 0.3796 4.889e-5 0.2227

mode bi ep g mu pl ilm ru ky q H2O
0.22270.0009610 0.1431 0.01847 0.2730 0.003818 0.003097 0 0.2958 0.03913

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.20 673.4 0.1916 0.1756 0.05252 0.09793 0.2649 0.2778
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2617 0.5482 0.1300 0.01348 0.1719 0.9980
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9769 0.2416 0.002936 0.3780 4.743e-5 0.2225

mode bi ep g mu pl ilm ru ky q H2O
0.2225 0.002891 0.1441 0.02057 0.2685 0.003425 0.003126 0 0.2962 0.03870

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

12.40 676.6 0.1914 0.1757 0.05280 0.09906 0.2635 0.2793
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2627 0.5483 0.1337 0.01424 0.1727 0.9979
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9761 0.2342 0.003135 0.3763 4.605e-5 0.2223

mode bi ep g mu pl ilm ru ky q H2O
0.2223 0.004610 0.1452 0.02260 0.2642 0.003059 0.003150 0 0.2965 0.03830

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.60 679.8 0.1912 0.1757 0.05309 0.1002 0.2621 0.2807
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2637 0.5483 0.1376 0.01505 0.1734 0.9978
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9752 0.2270 0.003342 0.3746 4.473e-5 0.2221

mode bi ep g mu pl ilm ru ky q H2O
0.2221 0.006129 0.1463 0.02458 0.2602 0.002718 0.003171 0 0.2969 0.03792

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.80 682.9 0.1910 0.1757 0.05337 0.1013 0.2607 0.2822
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2647 0.5484 0.1416 0.01590 0.1742 0.9977
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9743 0.2201 0.003558 0.3729 4.348e-5 0.2219

mode bi ep g mu pl ilm ru ky q H2O
0.2219 0.007459 0.1474 0.02649 0.2563 0.002401 0.003187 0 0.2972 0.03757

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.00 686.0 0.1907 0.1757 0.05365 0.1024 0.2594 0.2837
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2657 0.5484 0.1456 0.01679 0.1749 0.9976
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9734 0.2134 0.003783 0.3711 4.227e-5 0.2217

mode bi ep g mu pl ilm ru ky q H2O
0.2217 0.008609 0.1485 0.02836 0.2527 0.002106 0.003201 0 0.2976 0.03724

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.20 689.1 0.1905 0.1756 0.05393 0.1036 0.2580 0.2851
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2667 0.5484 0.1498 0.01774 0.1755 0.9974
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9724 0.2069 0.004017 0.3694 4.113e-5 0.2215

mode bi ep g mu pl ilm ru ky q H2O
0.2215 0.009585 0.1497 0.03019 0.2492 0.001833 0.003211 0 0.2979 0.03692

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

13.40 692.2 0.1902 0.1756 0.05421 0.1047 0.2567 0.2866
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2676 0.5484 0.1540 0.01874 0.1762 0.9973
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9714 0.2006 0.004260 0.3676 4.003e-5 0.2213

mode bi ep g mu pl ilm ru ky q H2O
0.2213 0.01040 0.1509 0.03198 0.2459 0.001579 0.003219 0 0.2982 0.03662

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.60 695.2 0.1899 0.1755 0.05449 0.1058 0.2553 0.2880
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2686 0.5484 0.1584 0.01979 0.1768 0.9971
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9703 0.1945 0.004513 0.3658 3.897e-5 0.2210

mode bi ep g mu pl ilm ru ky q H2O
0.2210 0.01105 0.1521 0.03374 0.2427 0.001344 0.003224 0 0.2985 0.03634

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.80 698.2 0.1896 0.1754 0.05477 0.1069 0.2540 0.2895
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2695 0.5484 0.1628 0.02090 0.1774 0.9970
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9692 0.1886 0.004775 0.3640 3.797e-5 0.2208

mode bi ep g mu pl ilm ru ky q H2O
0.2208 0.01155 0.1533 0.03547 0.2396 0.001127 0.003226 0 0.2988 0.03608

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.00 701.2 0.1893 0.1753 0.05504 0.1080 0.2527 0.2909
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2704 0.5483 0.1673 0.02207 0.1779 0.9968
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9681 0.1829 0.005047 0.3621 3.700e-5 0.2205

mode bi ep g mu pl ilm ru ky q H2O
0.2205 0.01189 0.1546 0.03718 0.23670 0.0009266 0.003226 0 0.2991 0.03583

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.20 704.1 0.1890 0.1751 0.05532 0.1091 0.2513 0.2924
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2713 0.5483 0.1720 0.02330 0.1785 0.9967
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9669 0.1774 0.005329 0.3603 3.607e-5 0.2203

mode bi ep g mu pl ilm ru ky q H2O
0.2203 0.01210 0.1559 0.03887 0.23390 0.0007417 0.003224 0 0.2994 0.03559

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

14.40 707.0 0.1886 0.1750 0.05559 0.1102 0.2500 0.2938
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2722 0.5482 0.1767 0.02460 0.1790 0.9965
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9656 0.1720 0.005622 0.3584 3.518e-5 0.2200

mode bi ep g mu pl ilm ru ky q H2O
 0.2200 0.01216 0.1573 0.04055 0.23120.0005718 0.003219 0 0.2996 0.03537

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 14.60 709.9 0.1883 0.1748 0.05587 0.1113 0.2487 0.2953
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2731 0.5481 0.1816 0.02597 0.1795 0.9963
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9643 0.1669 0.005925 0.3565 3.432e-5 0.2197

mode bi ep g mu pl ilm ru ky q H2O
 0.2197 0.01209 0.1587 0.04221 0.22860.0004158 0.003213 0 0.2999 0.03516

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 14.80 712.8 0.1879 0.1747 0.05614 0.1124 0.2474 0.2967
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2740 0.5480 0.1865 0.02740 0.1800 0.9961
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9629 0.1619 0.006238 0.3547 3.349e-5 0.2195

mode bi ep g mu pl ilm ru ky q H2O
 0.2195 0.01188 0.1601 0.04387 0.22610.0002731 0.003205 0 0.3002 0.03496

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 15.00 715.6 0.1875 0.1745 0.05642 0.1135 0.2461 0.2981
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2749 0.5478 0.1915 0.02891 0.1804 0.9959
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9615 0.1571 0.006563 0.3528 3.269e-5 0.2192

mode bi ep g mu pl ilm ru ky q H2O
 0.2192 0.01154 0.1616 0.04552 0.22370.0001430 0.003195 0 0.3004 0.03477

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 15.20 718.5 0.1871 0.1743 0.05669 0.1146 0.2448 0.2996
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2758 0.5477 0.1967 0.03049 0.1808 0.9957
 na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
 0.9599 0.1524 0.006900 0.3508 3.193e-5 0.2188

mode bi ep g mu pl ilm ru ky q H2O
 0.2188 0.01107 0.1631 0.04717 0.2213 2.466e-5 0.003184 0 0.3007 0.03459

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.60	637.4	0.1988	0.1789	0.04827	0.08530	0.2851	0.5401
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.05692	0.004572	0.1673	0.9990	0.9853	0.2871	
	k(pl)	x(ilm)	Q(ilm)				
	0.001493	0.4154	9.287e-5				

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2240	0.1297	0	0.3039	0.005162	0.003139	5.172e-5	0.2921	0.04181

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
9.80	640.1	0.1984	0.1786	0.04857	0.08619	0.2837	0.5406
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.06077	0.004907	0.1677	0.9990	0.9848	0.2849	
	k(pl)	x(ilm)	Q(ilm)				
	0.001566	0.4124	8.695e-5				

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2240	0.1304	0	0.3030	0.005095	0.0031320	0.0003524	0.2921	0.04184

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.00	642.8	0.1980	0.1782	0.04887	0.08708	0.2823	0.5411
	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)	
	0.06489	0.005279	0.1682	0.9989	0.9843	0.2825	
	k(pl)	x(ilm)	Q(ilm)				
	0.001644	0.4095	8.166e-5				

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2239	0.1312	0	0.3021	0.005024	0.0031240	0.0006773	0.2922	0.04187

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing found ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
12.00	670.2	0.1917	0.1756	0.05223	0.09679	0.2663	0.2763
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2607	0.5481	0.1263	0.01276	0.1711	0.9981	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.9778	0.2493	0.002747	0.3797	4.890e-5	0.2228	

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.2228	0	0.1429	0.01365	0.2772	0.003966	0.003074	0.001430	0.2950	0.03998

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
12.20	673.4	0.1916	0.1757	0.05251	0.09793	0.2650	0.2778
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2617	0.5483	0.1300	0.01349	0.1720	0.9980	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.9769	0.2416	0.002938	0.3781	4.747e-5	0.2229	

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O
	0.2229	0	0.1436	0.005420	0.2815	0.003872	0.003056	0.004515	0.2937	0.04137

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
15.40	721.3	0.1868	0.1741	0.05696	0.1157	0.2436	0.3010
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2766	0.5477	0.2020	0.03216	0.1813	0.9955	
	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	bi	
	0.9583	0.1480	0.007254	0.3490	3.121e-5	0.2187	

mode	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O	
	0.2187	0.009968	0.1645	0.04355	0.2230		0	0.003158	0.001660	0.3001	0.03530

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
15.60	724.1	0.1865	0.1740	0.05723	0.1168	0.2425	0.3024
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2774	0.5478	0.2074	0.03392	0.1819	0.9952	

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9565 0.1436 0.007623 0.3472 3.053e-5 0.2187

mode bi ep g mu pl ilm ru ky q H2O
0.2187 0.008654 0.1658 0.03855 0.2258 0 0.003127 0.003766 0.2994 0.03626

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.80 726.9 0.1862 0.1738 0.05750 0.1179 0.2413 0.3038
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2783 0.5478 0.2129 0.03575 0.1824 0.9950
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9546 0.1394 0.008008 0.3454 2.987e-5 0.2186

mode bi ep g mu pl ilm ru ky q H2O
0.2186 0.007283 0.1672 0.03368 0.2285 0 0.003096 0.005842 0.2986 0.03719

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.00 729.6 0.1860 0.1737 0.05776 0.1190 0.2402 0.3052
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2791 0.5479 0.2185 0.03767 0.1829 0.9947
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9525 0.1354 0.008407 0.3436 2.923e-5 0.2186

mode bi ep g mu pl ilm ru ky q H2O
0.2186 0.005851 0.1686 0.02893 0.2311 0 0.003065 0.007890 0.2979 0.03811

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.20 732.4 0.1857 0.1735 0.05803 0.1201 0.2390 0.3066
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2799 0.5480 0.2242 0.03967 0.1835 0.9944
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9503 0.1314 0.008823 0.3418 2.862e-5 0.2186

mode bi ep g mu pl ilm ru ky q H2O
0.2186 0.004357 0.1701 0.02429 0.2336 0 0.003034 0.009911 0.2972 0.03901

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.40 735.1 0.1855 0.1734 0.05830 0.1212 0.2379 0.3080
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2806 0.5481 0.2300 0.04177 0.1840 0.9941
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9479 0.1277 0.009256 0.3400 2.803e-5 0.2185

mode bi ep g mu pl ilm ru ky q H2O
0.2185 0.002799 0.1716 0.01977 0.2361 0 0.003003 0.01191 0.2965 0.03990

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.60 737.9 0.1852 0.1733 0.05857 0.1223 0.2368 0.3094
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2814 0.5481 0.2358 0.04394 0.1845 0.9938

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9453 0.1240 0.009707 0.3381 2.746e-5 0.2185

mode bi ep g mu pl ilm ru ky q H2O
0.2185 0.001175 0.1731 0.01534 0.2384 0 0.002972 0.01389 0.2958 0.04078

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.00 645.1 0.1805 0.1551 0.08786 0.2221 0.2406 0.3872
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3448 0.5444 0.06394 0.01299 0.1727 0.9990
na(mu) ca(pl) k(pl)
0.9913 0.2592 0.001049

mode bi ep g mu pl ky q H2O
0.2211 0.008260 0.14390 0.003205 0.2920 0 0.2893 0.04516

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.20 647.9 0.1807 0.1561 0.08474 0.2221 0.2402 0.3816
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3411 0.5445 0.06713 0.01309 0.1732 0.9989
na(mu) ca(pl) k(pl)
0.9909 0.2555 0.001114

mode bi ep g mu pl ky q H2O
0.2210 0.009241 0.1443 0.002008 0.2891 0 0.2896 0.04482

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.40 650.7 0.1808 0.1570 0.08179 0.2222 0.2398 0.3761
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3373 0.5447 0.07047 0.01322 0.1736 0.9989
na(mu) ca(pl) k(pl)
0.9906 0.2516 0.001183

mode bi ep g mu pl ky q H2O
0.2209 0.01018 0.1447 0.003696 0.2861 0 0.2899 0.04448

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.60 653.5 0.1808 0.1579 0.07902 0.2222 0.2394 0.3708
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3336 0.5448 0.07396 0.01338 0.1741 0.9988
na(mu) ca(pl) k(pl)
0.9902 0.2477 0.001255

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2208	0.01107	0.1452	0.005385	0.2832		0	0.2902 0.04415

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.80	656.3	0.1809	0.1587	0.07641	0.2223	0.2389	0.3656
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3299	0.5449	0.07760	0.01358	0.1745	0.9987	
	na(mu)	ca(pl)	k(pl)				
	0.9898	0.2437	0.001332				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2207	0.01191	0.1457	0.007075	0.2802		0	0.2906 0.04382

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
11.00	659.2	0.1809	0.1594	0.07397	0.2223	0.2383	0.3606
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3263	0.5451	0.08140	0.01381	0.1750	0.9987	
	na(mu)	ca(pl)	k(pl)				
	0.9895	0.2396	0.001412				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2206	0.01269	0.1462	0.008769	0.2773		0	0.2909 0.04349

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
11.20	662.0	0.1809	0.1601	0.07169	0.2224	0.2377	0.3558
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3227	0.5453	0.08535	0.01408	0.1754	0.9986	
	na(mu)	ca(pl)	k(pl)				
	0.9891	0.2355	0.001498				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2206	0.01342	0.1468	0.01047	0.2743		0	0.2912 0.04317

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
11.40	664.8	0.1808	0.1608	0.06956	0.2225	0.2371	0.3513
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3192	0.5455	0.08946	0.01440	0.1758	0.9985	
	na(mu)	ca(pl)	k(pl)				
	0.9886	0.2312	0.001588				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2205	0.01409	0.1475	0.01217	0.2714		0	0.2916 0.04285

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
11.60	667.6	0.1807	0.1614	0.06759	0.2225	0.2364	0.3469
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3159	0.5457	0.09373	0.01475	0.1762	0.9984	
	na(mu)	ca(pl)	k(pl)				
	0.9882	0.2270	0.001682				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2204	0.01470	0.1481	0.01387	0.2685		0	0.2919 0.04254

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
11.80	670.5	0.1806	0.1619	0.06576	0.2226	0.2357	0.3427
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3126	0.5459	0.09814	0.01516	0.1766	0.9983	
	na(mu)	ca(pl)	k(pl)				
	0.9878	0.2226	0.001782				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2203	0.01524	0.1488	0.01558	0.2656		0	0.2923 0.04223

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
12.00	673.3	0.1805	0.1624	0.06407	0.2227	0.2350	0.3388
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3095	0.5461	0.1027	0.01560	0.1769	0.9983	
	na(mu)	ca(pl)	k(pl)				
	0.9873	0.2183	0.001888				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2202	0.01570	0.1496	0.01730	0.2627		0	0.2926 0.04192

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
12.20	676.1	0.1803	0.1629	0.06252	0.2228	0.2342	0.3352
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3066	0.5463	0.1074	0.01610	0.1773	0.9982	
	na(mu)	ca(pl)	k(pl)				
	0.9869	0.2138	0.001998				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2201	0.01610	0.1504	0.01902	0.2598		0	0.2930 0.04162

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
12.40	678.9	0.1802	0.1633	0.06109	0.2229	0.2335	0.3317
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3038	0.5465	0.1123	0.01665	0.1776	0.9981	
	na(mu)	ca(pl)	k(pl)				
	0.9864	0.2094	0.002115				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2200	0.01642	0.1513	0.02075	0.2569		0	0.2934 0.04132

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
12.60	681.7	0.1800	0.1637	0.05979	0.2230	0.2326	0.3286
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3012	0.5467	0.1173	0.01726	0.1780	0.9980	
	na(mu)	ca(pl)	k(pl)				
	0.9859	0.2049	0.002238				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2199	0.01666	0.1522	0.02248	0.2541		0	0.2937 0.04102

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
12.80	684.6	0.1798	0.1640	0.05860	0.2231	0.2318	0.3256
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2987	0.5469	0.1224	0.01791	0.1783	0.9979	
	na(mu)	ca(pl)	k(pl)				
	0.9853	0.2005	0.002366				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2198	0.01682	0.1531	0.02422	0.2513		0	0.2941 0.04074

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
13.00	687.4	0.1795	0.1643	0.05752	0.2232	0.2310	0.3229
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2964	0.5471	0.1276	0.01863	0.1786	0.9978	
	na(mu)	ca(pl)	k(pl)				
	0.9848	0.1960	0.002501				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2197	0.01690	0.1541	0.02596	0.2485		0	0.2944 0.04045

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
13.20	690.2	0.1793	0.1646	0.05654	0.2233	0.2301	0.3205
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2943	0.5473	0.1330	0.01941	0.1790	0.9977	
	na(mu)	ca(pl)	k(pl)				
	0.9843	0.1915	0.002643				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2195	0.01689	0.1551	0.02771	0.2458		0	0.2948 0.04018

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
13.40	693.0	0.1790	0.1648	0.05566	0.2234	0.2292	0.3183
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2924	0.5475	0.1384	0.02024	0.1793	0.9975	
	na(mu)	ca(pl)	k(pl)				
	0.9837	0.1871	0.002792				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2194	0.01680	0.1562	0.02947	0.2430		0	0.2952 0.03990

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
13.60	695.8	0.1788	0.1650	0.05487	0.2235	0.2283	0.3163
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2907	0.5477	0.1440	0.02114	0.1796	0.9974	
	na(mu)	ca(pl)	k(pl)				
	0.9831	0.1827	0.002947				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2193	0.01662	0.1573	0.03123	0.2404		0	0.2955 0.03964

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
13.80	698.5	0.1785	0.1651	0.05417	0.2236	0.2274	0.3146
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2891	0.5479	0.1496	0.02211	0.1799	0.9973
		na(mu)	ca(pl)	k(pl)			
		0.9825	0.1783	0.003110			

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2192	0.01635	0.1585	0.03299	0.2377		0	0.2959 0.03938

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
14.00	701.3	0.1782	0.1653	0.05354	0.2238	0.2265	0.3131
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2877	0.5480	0.1553	0.02314	0.1802	0.9972
		na(mu)	ca(pl)	k(pl)			
		0.9818	0.1739	0.003280			

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2190	0.01599	0.1597	0.03477	0.2351		0	0.2963 0.03912

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
14.20	704.1	0.1779	0.1654	0.05299	0.2239	0.2256	0.3118
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2864	0.5482	0.1611	0.02424	0.1805	0.9970
		na(mu)	ca(pl)	k(pl)			
		0.9812	0.1696	0.003458			

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2189	0.01555	0.1609	0.03654	0.2326		0	0.2966 0.03887

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
14.40	706.8	0.1777	0.1655	0.05251	0.2241	0.2247	0.3106
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2853	0.5483	0.1670	0.02541	0.1808	0.9969
		na(mu)	ca(pl)	k(pl)			
		0.9805	0.1653	0.003643			

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2187	0.01502	0.1622	0.03832	0.2301		0	0.2970 0.03863

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
14.60	709.6	0.1774	0.1655	0.05210	0.2242	0.2238	0.3097
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)
		0.2843	0.5484	0.1729	0.02666	0.1811	0.9967
		na(mu)	ca(pl)	k(pl)			
		0.9797	0.1611	0.003837			

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2186	0.01439	0.1636	0.04011	0.2276		0	0.2974 0.03839

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
14.80	712.3	0.1771	0.1656	0.05174	0.2244	0.2229	0.3090
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2835	0.5485	0.1789	0.02797	0.1814	0.9966	
	na(mu)	ca(pl)	k(pl)				
	0.9790	0.1570	0.004039				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2184	0.01369	0.1649	0.04190	0.2251		0	0.2977 0.03816

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
15.00	715.0	0.1768	0.1656	0.05144	0.2245	0.2220	0.3084
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2828	0.5485	0.1849	0.02936	0.1817	0.9964	
	na(mu)	ca(pl)	k(pl)				
	0.9782	0.1530	0.004249				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2183	0.01289	0.1664	0.04370	0.2228		0	0.2981 0.03793

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
15.20	717.7	0.1765	0.1656	0.05119	0.2247	0.2211	0.3080
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2823	0.5486	0.1910	0.03082	0.1820	0.9962	
	na(mu)	ca(pl)	k(pl)				
	0.9774	0.1490	0.004469				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2181	0.01200	0.1678	0.04550	0.2204		0	0.2985 0.03771

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
15.40	720.4	0.1762	0.1656	0.05099	0.2249	0.2201	0.3077
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2818	0.5486	0.1971	0.03235	0.1823	0.9961	
	na(mu)	ca(pl)	k(pl)				
	0.9766	0.1450	0.004697				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2179	0.01103	0.1693	0.04731	0.2181		0	0.2988 0.03750

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
15.60	723.1	0.1759	0.1655	0.05083	0.2251	0.2192	0.3076
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2815	0.5486	0.2032	0.03396	0.1826	0.9959	
	na(mu)	ca(pl)	k(pl)				
	0.9757	0.1412	0.004935				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2177	0.009977	0.1709	0.04912	0.2158		0	0.2992 0.03729

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
15.80	725.8	0.1756	0.1655	0.05072	0.2253	0.2183	0.3076
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2812	0.5486	0.2093	0.03565	0.1829	0.9957	
	na(mu)	ca(pl)	k(pl)				
	0.9748	0.1374	0.005182				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2175	0.008834	0.1725	0.05094	0.2136		0	0.2995 0.03709

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.00	728.5	0.1753	0.1654	0.05064	0.2255	0.2174	0.3078
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2811	0.5485	0.2155	0.03742	0.1832	0.9955	
	na(mu)	ca(pl)	k(pl)				
	0.9738	0.1338	0.005439				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2173	0.007606	0.1741	0.05277	0.2114		0	0.2999 0.03689

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.20	731.1	0.1750	0.1654	0.05060	0.2257	0.2165	0.3080
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2810	0.5484	0.2216	0.03926	0.1834	0.9953	
	na(mu)	ca(pl)	k(pl)				
	0.9728	0.1302	0.005707				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2171	0.006292	0.1758	0.05461	0.2093		0	0.3002 0.03670

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.40	733.7	0.1746	0.1653	0.05059	0.2260	0.2156	0.3084
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2810	0.5483	0.2278	0.04118	0.1837	0.9950	
	na(mu)	ca(pl)	k(pl)				
	0.9717	0.1267	0.005984				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2169	0.004894	0.1776	0.05645	0.2072		0	0.3006 0.03652

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.60	736.4	0.1743	0.1652	0.05061	0.2262	0.2147	0.3088
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2811	0.5482	0.2340	0.04318	0.1840	0.9948	
	na(mu)	ca(pl)	k(pl)				
	0.9706	0.1232	0.006273				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2166	0.003412	0.1793	0.05831	0.2051		0	0.3009 0.03634

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.80	739.0	0.1740	0.1651	0.05066	0.2265	0.2138	0.3094
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2813	0.5480	0.2401	0.04525	0.1843	0.9946	
	na(mu)	ca(pl)	k(pl)				
	0.9694	0.1199	0.006573				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.2164	0.001845	0.1812	0.06018	0.2030		0	0.3012 0.03616

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
17.00	741.6	0.1737	0.1650	0.05073	0.2267	0.2128	0.3100
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.2815	0.5478	0.2463	0.04740	0.1846	0.9943	
	na(mu)	ca(pl)	k(pl)				
	0.9682	0.1166	0.006884				

mode	bi	ep	g	mu	pl	ky	q	H2O
	0.21610	0.0001940	0.1831	0.06205	0.2010		0	0.3016 0.03599

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, ep, g, mu, pl, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.00	644.6	0.1961	0.1624	0.09855	0.08576	0.2766	0.3766
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3385	0.5445	0.06635	0.01238	0.1717	0.9989	
	na(mu)	ca(pl)	k(pl)				
	0.9848	0.2673	0.001693				

mode	bi	ep	g	mu	pl	ru	ky	q	H2O
	0.2244	0.005876	0.1360	0.002654	0.2934	0.003957		0	0.2927 0.04102

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.20	647.4	0.1961	0.1635	0.09498	0.08685	0.2757	0.3710
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
	0.3345	0.5446	0.06968	0.01250	0.1722	0.9988	
	na(mu)	ca(pl)	k(pl)				
	0.9842	0.2633	0.001794				

mode	bi	ep	g	mu	pl	ru	ky	q	H2O
	0.2242	0.006981	0.1365	0.004387	0.2903	0.003927		0	0.2930 0.04070

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.40 650.3 0.1960 0.1645 0.09162 0.08794 0.2748 0.3655
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3306 0.5447 0.07317 0.01264 0.1727 0.9988
na(mu) ca(pl) k(pl)
0.9836 0.2593 0.001901

mode bi ep g mu pl ru ky q H2O
0.2241 0.008037 0.1370 0.006114 0.2872 0.003896 0 0.2933 0.04038

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.60 653.2 0.1959 0.1655 0.08845 0.08904 0.2738 0.3602
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3267 0.5449 0.07682 0.01282 0.1732 0.9987
na(mu) ca(pl) k(pl)
0.9830 0.2551 0.002014

mode bi ep g mu pl ru ky q H2O
0.2239 0.009040 0.1375 0.007834 0.2842 0.003866 0 0.2936 0.04007

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
10.80 656.0 0.1957 0.1664 0.08548 0.09014 0.2728 0.3550
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3229 0.5451 0.08062 0.01304 0.1736 0.9986
na(mu) ca(pl) k(pl)
0.9823 0.2509 0.002133

mode bi ep g mu pl ru ky q H2O
0.2238 0.009987 0.1381 0.009550 0.2811 0.003835 0 0.2939 0.03977

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.00 658.9 0.1955 0.1672 0.08271 0.09124 0.2718 0.3501
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3191 0.5453 0.08458 0.01329 0.1741 0.9986
na(mu) ca(pl) k(pl)
0.9817 0.2466 0.002258

mode bi ep g mu pl ru ky q H2O
0.2236 0.01087 0.1388 0.01126 0.2780 0.003804 0 0.2942 0.03947

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
11.20 661.8 0.1953 0.1680 0.08011 0.09234 0.2707 0.3453
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3155 0.5454 0.08870 0.01358 0.1745 0.9985
na(mu) ca(pl) k(pl)
0.9810 0.2422 0.002390

mode bi ep g mu pl ru ky q H2O
0.2234 0.01170 0.1394 0.01297 0.2750 0.003774 0 0.2945 0.03917

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.40 664.6 0.1951 0.1687 0.07770 0.09344 0.2695 0.3408
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.3119 0.5456 0.09298 0.01391 0.1749 0.9984
 na(mu) ca(pl) k(pl)
 0.9803 0.2378 0.002529

mode bi ep g mu pl ru ky q H2O
 0.2233 0.01246 0.1402 0.01468 0.2720 0.003743 0 0.2948 0.03888

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.60 667.5 0.1948 0.1694 0.07546 0.09455 0.2684 0.3365
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.3085 0.5458 0.09741 0.01429 0.1753 0.9983
 na(mu) ca(pl) k(pl)
 0.9796 0.2333 0.002675

mode bi ep g mu pl ru ky q H2O
 0.2231 0.01315 0.1410 0.01638 0.2690 0.003713 0 0.2951 0.03860

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.80 670.4 0.1945 0.1701 0.07339 0.09566 0.2672 0.3325
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.3052 0.5461 0.1020 0.01471 0.1757 0.9982
 na(mu) ca(pl) k(pl)
 0.9788 0.2288 0.002829

mode bi ep g mu pl ru ky q H2O
 0.2229 0.01377 0.1418 0.01809 0.2660 0.003682 0 0.2954 0.03832

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.00 673.3 0.1942 0.1706 0.07147 0.09677 0.2660 0.3286
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.3021 0.5463 0.1067 0.01517 0.1761 0.9981
 na(mu) ca(pl) k(pl)
 0.9780 0.2242 0.002991

mode bi ep g mu pl ru ky q H2O
 0.2228 0.01431 0.1426 0.01979 0.2631 0.003652 0 0.2957 0.03805

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.20 676.1 0.1939 0.1711 0.06971 0.09788 0.2647 0.3251
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2992 0.5465 0.1116 0.01569 0.1764 0.9980
 na(mu) ca(pl) k(pl)
 0.9772 0.2196 0.003161

mode bi ep g mu pl ru ky q H2O
 0.2226 0.01477 0.1436 0.02150 0.2602 0.003622 0 0.2960 0.03778

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.40    679.0  0.1935  0.1716  0.06809  0.09899  0.2635  0.3218
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2964  0.5467  0.1166  0.01626  0.1768  0.9979
          na(mu) ca(pl)  k(pl)
          0.9764  0.2149 0.003340

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2224  0.01515  0.1445  0.02320  0.2573 0.003592    0  0.2964  0.03752

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.60    681.9  0.1931  0.1720  0.06661  0.1001  0.2622  0.3187
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2938  0.5469  0.1218  0.01687  0.1771  0.9978
          na(mu) ca(pl)  k(pl)
          0.9755  0.2103 0.003527

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2222  0.01545  0.1455  0.02491  0.2544 0.003562    0  0.2967  0.03727

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.80    684.7  0.1927  0.1724  0.06526  0.1012  0.2609  0.3159
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2914  0.5470  0.1270  0.01755  0.1774  0.9977
          na(mu) ca(pl)  k(pl)
          0.9746  0.2056 0.003724

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2220  0.01566  0.1466  0.02661  0.2516 0.003532    0  0.2970  0.03702

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.00    687.6  0.1923  0.1728  0.06404  0.1023  0.2596  0.3133
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2892  0.5472  0.1324  0.01828  0.1778  0.9975
          na(mu) ca(pl)  k(pl)
          0.9736  0.2010 0.003930

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2218  0.01579  0.1477  0.02832  0.2488 0.003502    0  0.2973  0.03678

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.20    690.4  0.1919  0.1731  0.06293  0.1034  0.2582  0.3110
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2871  0.5474  0.1379  0.01907  0.1781  0.9974
          na(mu) ca(pl)  k(pl)
          0.9727  0.1963 0.004146

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2215  0.01582  0.1489  0.03003  0.2461 0.003472    0  0.2976  0.03654

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.40    693.3  0.1914  0.1733  0.06193  0.1046  0.2569  0.3090
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2853  0.5475  0.1435  0.01992  0.1784  0.9973
          na(mu) ca(pl)  k(pl)
          0.9716  0.1917  0.004372

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2213  0.01577  0.1501  0.03174  0.2434  0.003443    0  0.2980  0.03631

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.60    696.1  0.1910  0.1735  0.06103  0.1057  0.2556  0.3071
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2836  0.5476  0.1491  0.02083  0.1787  0.9971
          na(mu) ca(pl)  k(pl)
          0.9706  0.1871  0.004607

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2211  0.01562  0.1513  0.03345  0.2407  0.003414    0  0.2983  0.03609

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.80    698.9  0.1905  0.1737  0.06023  0.1068  0.2542  0.3055
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2821  0.5477  0.1549  0.02180  0.1790  0.9970
          na(mu) ca(pl)  k(pl)
          0.9694  0.1826  0.004854

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2208  0.01538  0.1526  0.03516  0.2381  0.003385    0  0.2986  0.03588

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.00    701.8  0.1900  0.1739  0.05951  0.1079  0.2529  0.3041
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2808  0.5478  0.1607  0.02284  0.1792  0.9968
          na(mu) ca(pl)  k(pl)
          0.9683  0.1781  0.005111

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2206  0.01505  0.1540  0.03687  0.2356  0.003356    0  0.2989  0.03567

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.20    704.6  0.1896  0.1740  0.05888  0.1090  0.2515  0.3030
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2796  0.5478  0.1665  0.02395  0.1795  0.9967
          na(mu) ca(pl)  k(pl)
          0.9671  0.1736  0.005380

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2203  0.01463  0.1554  0.03858  0.2331  0.003327    0  0.2992  0.03547

```

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.40 707.4 0.1891 0.1741 0.05833 0.1101 0.2502 0.3020
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2786 0.5479 0.1725 0.02512 0.1798 0.9965
na(mu) ca(pl) k(pl)
0.9658 0.1692 0.005660

mode bi ep g mu pl ru ky q H2O
0.2201 0.01412 0.1568 0.04029 0.2306 0.003299 0 0.2995 0.03528

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.60 710.2 0.1886 0.1742 0.05785 0.1112 0.2489 0.3012
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2778 0.5479 0.1784 0.02637 0.1801 0.9963
na(mu) ca(pl) k(pl)
0.9644 0.1649 0.005952

mode bi ep g mu pl ru ky q H2O
0.2198 0.01352 0.1583 0.04200 0.2282 0.003271 0 0.2998 0.03510

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.80 712.9 0.1881 0.1742 0.05744 0.1124 0.2475 0.3006
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2771 0.5478 0.1844 0.02768 0.1803 0.9961
na(mu) ca(pl) k(pl)
0.9630 0.1606 0.006256

mode bi ep g mu pl ru ky q H2O
0.2195 0.01282 0.1599 0.04372 0.2259 0.003243 0 0.3001 0.03492

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.00 715.7 0.1876 0.1742 0.05710 0.1135 0.2462 0.3002
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2765 0.5477 0.1904 0.02906 0.1806 0.9959
na(mu) ca(pl) k(pl)
0.9615 0.1564 0.006572

mode bi ep g mu pl ru ky q H2O
0.2192 0.01204 0.1614 0.04544 0.2236 0.003215 0 0.3004 0.03475

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.20 718.5 0.1871 0.1742 0.05681 0.1146 0.2448 0.2999
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2760 0.5476 0.1965 0.03052 0.1808 0.9957
na(mu) ca(pl) k(pl)
0.9600 0.1523 0.006901

mode bi ep g mu pl ru ky q H2O
0.2188 0.01116 0.1631 0.04715 0.2213 0.003188 0 0.3007 0.03458

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.40	721.2	0.1866	0.1742	0.05658	0.1157	0.2435	0.2998			
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
	0.2757	0.5475	0.2025	0.03205	0.1811	0.9955				
	na(mu)	ca(pl)	k(pl)							
	0.9583	0.1483	0.007243							

mode	bi	ep	g	mu	pl	ru	ky	q	H2O	
	0.2185	0.01019	0.1648	0.04887	0.2191	0.003161		0	0.3010	0.03443

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.60	724.0	0.1861	0.1742	0.05640	0.1168	0.2422	0.2999			
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
	0.2755	0.5473	0.2086	0.03366	0.1813	0.9952				
	na(mu)	ca(pl)	k(pl)							
	0.9565	0.1444	0.007599							

mode	bi	ep	g	mu	pl	ru	ky	q	H2O	
	0.2181	0.009134	0.1665	0.05060	0.2169	0.003134		0	0.3013	0.03428

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.80	726.7	0.1856	0.1741	0.05627	0.1179	0.2408	0.3001			
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
	0.2754	0.5471	0.2147	0.03534	0.1816	0.9950				
	na(mu)	ca(pl)	k(pl)							
	0.9546	0.1405	0.007969							

mode	bi	ep	g	mu	pl	ru	ky	q	H2O	
	0.2178	0.007986	0.1683	0.05233	0.2148	0.003108		0	0.3015	0.03414

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
16.00	729.5	0.1850	0.1740	0.05618	0.1190	0.2395	0.3004			
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
	0.2754	0.5468	0.2208	0.03710	0.1818	0.9947				
	na(mu)	ca(pl)	k(pl)							
	0.9526	0.1367	0.008353							

mode	bi	ep	g	mu	pl	ru	ky	q	H2O	
	0.2174	0.006747	0.1701	0.05406	0.2128	0.003082		0	0.3018	0.03401

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
16.20	732.2	0.1845	0.1739	0.05614	0.1202	0.2382	0.3009			
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)				
	0.2755	0.5465	0.2269	0.03894	0.1820	0.9944				
	na(mu)	ca(pl)	k(pl)							
	0.9505	0.1330	0.008752							

mode	bi	ep	g	mu	pl	ru	ky	q	H2O	
	0.2170	0.005417	0.1721	0.05579	0.2108	0.003057		0	0.3021	0.03388

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.40    734.9  0.1840  0.1738  0.05615  0.1213  0.2369  0.3014
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2757  0.5462  0.2329  0.04086  0.1822  0.9941
          na(mu) ca(pl)  k(pl)
          0.9482  0.1294  0.009166

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2165  0.003994  0.1740  0.05753  0.2088  0.003032    0  0.3023  0.03376

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.60    737.6  0.1834  0.1737  0.05619  0.1224  0.2355  0.3021
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2760  0.5458  0.2390  0.04287  0.1824  0.9938
          na(mu) ca(pl)  k(pl)
          0.9457  0.1259  0.009595

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2160  0.002479  0.1761  0.05928  0.2069  0.003008    0  0.3026  0.03366

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.80    740.3  0.1829  0.1736  0.05627  0.1235  0.2342  0.3029
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2763  0.5453  0.2450  0.04495  0.1826  0.9934
          na(mu) ca(pl)  k(pl)
          0.9430  0.1225  0.01004

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.21550.0008688  0.1782  0.06103  0.2051  0.002984    0  0.3028  0.03356

```

calcs use:

```

composition (from script)
H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O
<== nothing in range ==>

```

```

composition (from script)
H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
11.91    668.7  0.1918  0.1755  0.05210  0.09626  0.2670  0.2756
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2602  0.5480  0.1246  0.01244  0.1707  0.9982

```

na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9781 0.2528 0.002662 0.3804 4.958e-5 0.2228

mode bi ep g mu pl ilm ru ky q H2O
0.2228 0 0.1426 0.01748 0.2751 0.004008 0.003083 0 0.2956 0.03933composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.33 675.6 0.1916 0.1757 0.05270 0.09869 0.2641 0.2788
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2624 0.5485 0.1326 0.01400 0.1725 0.9980
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9763 0.2366 0.003072 0.3770 4.655e-5 0.2229

mode bi ep g mu pl ilm ru ky q H2O
0.2229 0 0.1441 0 0.2844 0.003806 0.003045 0.006560 0.2929 0.04229
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.40 676.6 0.1915 0.1757 0.05279 0.09906 0.2636 0.2792
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2627 0.5485 0.1338 0.01425 0.1728 0.9979
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9761 0.2342 0.003138 0.3764 4.611e-5 0.2229

mode bi ep g mu pl ilm ru ky q H2O
0.22290.0004777 0.1444 0 0.2835 0.003699 0.003051 0.006769 0.2929 0.04227

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.50 678.2 0.1914 0.1758 0.05294 0.09963 0.2629 0.2800
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2632 0.5486 0.1358 0.01465 0.1732 0.9979
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9756 0.2306 0.003241 0.3756 4.545e-5 0.2228

mode bi ep g mu pl ilm ru ky q H2O
0.2228 0.001171 0.1449 0 0.2822 0.003541 0.003059 0.007083 0.2929 0.04225

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.60 679.8 0.1914 0.1758 0.05308 0.1002 0.2623 0.2807
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2637 0.5487 0.1377 0.01506 0.1736 0.9978
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9752 0.2270 0.003346 0.3748 4.480e-5 0.2228

mode bi ep g mu pl ilm ru ky q H2O
0.2228 0.001824 0.1455 0 0.2809 0.003387 0.003066 0.007394 0.2929 0.04223

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.70 681.4 0.1913 0.1758 0.05322 0.1008 0.2616 0.2814
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2642 0.5487 0.1397 0.01548 0.1740 0.9977
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9747 0.2235 0.003454 0.3739 4.417e-5 0.2227

mode bi ep g mu pl ilm ru ky q H2O
0.2227 0.002436 0.1460 0 0.2797 0.003239 0.003073 0.007702 0.2930 0.04221

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.80 682.9 0.1912 0.1758 0.05336 0.1013 0.2609 0.2822
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2647 0.5488 0.1417 0.01591 0.1744 0.9977
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9743 0.2201 0.003563 0.3731 4.356e-5 0.2226

mode bi ep g mu pl ilm ru ky q H2O
0.2226 0.003010 0.1465 0 0.2785 0.003095 0.003079 0.008006 0.2930 0.04219

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.90 684.5 0.1911 0.1758 0.05350 0.1019 0.2602 0.2829
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2652 0.5488 0.1437 0.01635 0.1748 0.9976
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9738 0.2167 0.003675 0.3722 4.295e-5 0.2226

mode bi ep g mu pl ilm ru ky q H2O
0.2226 0.003544 0.1470 0 0.2773 0.002955 0.003085 0.008308 0.2930 0.04218

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.00 686.0 0.1910 0.1758 0.05364 0.1024 0.2596 0.2836
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2657 0.5489 0.1458 0.01681 0.1751 0.9976
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9733 0.2134 0.003790 0.3714 4.237e-5 0.2225

mode bi ep g mu pl ilm ru ky q H2O
0.2225 0.004041 0.1476 0 0.2762 0.002821 0.003089 0.008608 0.2930 0.04217

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.10 687.6 0.1909 0.1758 0.05378 0.1030 0.2589 0.2844
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2661 0.5490 0.1479 0.01728 0.1755 0.9975
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9728 0.2101 0.003906 0.3705 4.179e-5 0.2224

mode bi ep g mu pl ilm ru ky q H2O
0.2224 0.004501 0.1481 0 0.2751 0.002690 0.003093 0.008905 0.2930 0.04216

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.20 689.1 0.1908 0.1757 0.05392 0.1036 0.2583 0.2851
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2666 0.5490 0.1500 0.01776 0.1758 0.9974
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9723 0.2069 0.004025 0.3696 4.123e-5 0.2224

mode bi ep g mu pl ilm ru ky q H2O
0.2224 0.004923 0.1486 0 0.2740 0.002564 0.003097 0.009200 0.2931 0.04216

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.30 690.6 0.1907 0.1757 0.05405 0.1041 0.2576 0.2858
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2671 0.5491 0.1521 0.01825 0.1762 0.9974
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9718 0.2037 0.004147 0.3688 4.068e-5 0.2223

mode bi ep g mu pl ilm ru ky q H2O
0.2223 0.005309 0.1492 0 0.2730 0.002442 0.003099 0.009492 0.2931 0.04215

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.40 692.2 0.1906 0.1757 0.05419 0.1047 0.2569 0.2865
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2676 0.5491 0.1543 0.01876 0.1765 0.9973
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9713 0.2006 0.004271 0.3679 4.014e-5 0.2222

mode bi ep g mu pl ilm ru ky q H2O
0.2222 0.005660 0.1497 0 0.2719 0.002324 0.003102 0.009783 0.2931 0.04215

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.50 693.7 0.1904 0.1757 0.05433 0.1052 0.2563 0.2873
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2681 0.5492 0.1564 0.01928 0.1769 0.9972
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9707 0.1975 0.004397 0.3670 3.961e-5 0.2221

mode bi ep g mu pl ilm ru ky q H2O
0.2221 0.005975 0.1503 0 0.2709 0.002210 0.003103 0.01007 0.2931 0.04216

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.60 695.2 0.1903 0.1756 0.05447 0.1058 0.2556 0.2880
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2685 0.5492 0.1586 0.01982 0.1772 0.9971
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9702 0.1945 0.004526 0.3661 3.910e-5 0.2221

mode bi ep g mu pl ilm ru ky q H2O
0.2221 0.006255 0.1509 0 0.2699 0.002100 0.003104 0.01036 0.2931 0.04216

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.70 696.7 0.1902 0.1756 0.05461 0.1063 0.2550 0.2887
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2690 0.5492 0.1609 0.02037 0.1775 0.9971
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9696 0.1915 0.004657 0.3652 3.859e-5 0.2220

mode bi ep g mu pl ilm ru ky q H2O
0.2220 0.006501 0.1515 0 0.2690 0.001993 0.003104 0.01064 0.2932 0.04217

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.80 698.2 0.1901 0.1756 0.05474 0.1069 0.2544 0.2894
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2695 0.5493 0.1631 0.02093 0.1778 0.9970
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9691 0.1886 0.004790 0.3643 3.810e-5 0.2219

mode bi ep g mu pl ilm ru ky q H2O
0.2219 0.006713 0.1520 0 0.2681 0.001891 0.003104 0.01093 0.2932 0.04218

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.90 699.7 0.1899 0.1755 0.05488 0.1075 0.2537 0.2902
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2699 0.5493 0.1654 0.02151 0.1782 0.9969
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9685 0.1857 0.004927 0.3634 3.761e-5 0.2218

mode bi ep g mu pl ilm ru ky q H2O
0.2218 0.006891 0.1526 0 0.2672 0.001792 0.003104 0.01121 0.2932 0.04219

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.00 701.2 0.1898 0.1755 0.05502 0.1080 0.2531 0.2909
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2704 0.5493 0.1677 0.02211 0.1785 0.9968
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9679 0.1829 0.005066 0.3626 3.714e-5 0.2218

mode bi ep g mu pl ilm ru ky q H2O
0.2218 0.007036 0.1532 0 0.2663 0.001696 0.003102 0.01149 0.2932 0.04220

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.10 702.6 0.1897 0.1754 0.05515 0.1086 0.2524 0.2916
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2708 0.5494 0.1701 0.02272 0.1788 0.9967
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9673 0.1801 0.005207 0.3617 3.668e-5 0.2217

mode bi ep g mu pl ilm ru ky q H2O
0.2217 0.007148 0.1538 0 0.2654 0.001604 0.003101 0.01177 0.2932 0.04222

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.20 704.1 0.1895 0.1753 0.05529 0.1091 0.2518 0.2923
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2713 0.5494 0.1724 0.02335 0.1791 0.9967
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9667 0.1774 0.005351 0.3608 3.622e-5 0.2216

mode bi ep g mu pl ilm ru ky q H2O
0.2216 0.007228 0.1545 0 0.2646 0.001516 0.003099 0.01205 0.2932 0.04223

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.30 705.6 0.1894 0.1753 0.05543 0.1097 0.2512 0.2930
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2717 0.5494 0.1748 0.02399 0.1794 0.9966
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9660 0.1747 0.005498 0.3598 3.577e-5 0.2215

mode bi ep g mu pl ilm ru ky q H2O
0.2215 0.007275 0.1551 0 0.2637 0.001430 0.003096 0.01233 0.2932 0.04226

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.40 707.0 0.1893 0.1752 0.05556 0.1102 0.2505 0.2937
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2722 0.5495 0.1772 0.02465 0.1797 0.9965
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9654 0.1721 0.005648 0.3589 3.534e-5 0.2214

mode bi ep g mu pl ilm ru ky q H2O
0.2214 0.007291 0.1557 0 0.2630 0.001348 0.003093 0.01261 0.2933 0.04228

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.50 708.5 0.1891 0.1752 0.05570 0.1108 0.2499 0.2945
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2726 0.5495 0.1796 0.02533 0.1799 0.9964
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9647 0.1695 0.005800 0.3580 3.491e-5 0.2214

mode bi ep g mu pl ilm ru ky q H2O
0.2214 0.007275 0.1564 0 0.2622 0.001269 0.003089 0.01289 0.2933 0.04230

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.60 709.9 0.1890 0.1751 0.05583 0.1113 0.2493 0.2952
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2731 0.5495 0.1821 0.02602 0.1802 0.9963
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9640 0.1669 0.005955 0.3571 3.449e-5 0.2213

mode bi ep g mu pl ilm ru ky q H2O
0.2213 0.007228 0.1570 0 0.2614 0.001192 0.003085 0.01317 0.2933 0.04233

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.70 711.4 0.1888 0.1750 0.05597 0.1119 0.2487 0.2959
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2735 0.5495 0.1846 0.02674 0.1805 0.9962
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9633 0.1644 0.006113 0.3562 3.408e-5 0.2212

mode bi ep g mu pl ilm ru ky q H2O
0.2212 0.007150 0.1577 0 0.2607 0.001119 0.003081 0.01345 0.2933 0.04236

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.80 712.8 0.1887 0.1749 0.05610 0.1124 0.2480 0.2966
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2740 0.5495 0.1871 0.02747 0.1808 0.9961
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9626 0.1620 0.006275 0.3553 3.367e-5 0.2211

mode bi ep g mu pl ilm ru ky q H2O
0.2211 0.007041 0.1584 0 0.2599 0.001049 0.003076 0.01372 0.2933 0.04239

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.90 714.2 0.1885 0.1749 0.05624 0.1130 0.2474 0.2973
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2744 0.5495 0.1896 0.02822 0.1810 0.9960
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9619 0.1595 0.006439 0.3544 3.328e-5 0.2210

mode bi ep g mu pl ilm ru ky q H2O
0.2210 0.006902 0.1590 0 0.25920 0.0009811 0.003071 0.01400 0.2933 0.04242

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.00 715.7 0.1884 0.1748 0.05637 0.1135 0.2468 0.2980
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2748 0.5495 0.1922 0.02898 0.1813 0.9959
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9611 0.1571 0.006606 0.3534 3.289e-5 0.2209

mode bi ep g mu pl ilm ru ky q H2O
0.2209 0.006733 0.1597 0 0.25860 0.0009161 0.003065 0.01428 0.2933 0.04246

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.10 717.1 0.1882 0.1747 0.05651 0.1141 0.2462 0.2987
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2752 0.5495 0.1948 0.02977 0.1816 0.9958
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9603 0.1548 0.006776 0.3525 3.251e-5 0.2208

mode bi ep g mu pl ilm ru ky q H2O
0.2208 0.006534 0.1604 0 0.25790.0008538 0.003059 0.01455 0.2934 0.04250

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.20 718.5 0.1881 0.1746 0.05665 0.1146 0.2456 0.2995
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2757 0.5495 0.1974 0.03058 0.1818 0.9957
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9595 0.1525 0.006949 0.3516 3.213e-5 0.2208

mode bi ep g mu pl ilm ru ky q H2O
0.2208 0.006304 0.1611 0 0.25720.0007940 0.003053 0.01483 0.2934 0.04254

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.30 719.9 0.1879 0.1745 0.05678 0.1152 0.2450 0.3002
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2761 0.5495 0.2000 0.03140 0.1821 0.9956
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9587 0.1502 0.007125 0.3507 3.176e-5 0.2207

mode bi ep g mu pl ilm ru ky q H2O
0.2207 0.006046 0.1619 0 0.25660.0007367 0.003046 0.01511 0.2934 0.04258

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.40 721.3 0.1877 0.1745 0.05692 0.1157 0.2444 0.3009
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2765 0.5495 0.2027 0.03224 0.1823 0.9955
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9579 0.1480 0.007305 0.3497 3.140e-5 0.2206

mode bi ep g mu pl ilm ru ky q H2O
0.2206 0.005758 0.1626 0 0.25600.0006818 0.003039 0.01539 0.2934 0.04262

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.50 722.7 0.1876 0.1744 0.05705 0.1163 0.2438 0.3016
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2769 0.5495 0.2053 0.03311 0.1826 0.9953
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9570 0.1458 0.007488 0.3488 3.105e-5 0.2205

mode bi ep g mu pl ilm ru ky q H2O
0.2205 0.005441 0.1633 0 0.25540.0006291 0.003032 0.01567 0.2934 0.04267

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.60 724.1 0.1874 0.1743 0.05719 0.1168 0.2431 0.3023
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2774 0.5495 0.2080 0.03399 0.1828 0.9952
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9561 0.1437 0.007675 0.3479 3.070e-5 0.2204

mode bi ep g mu pl ilm ru ky q H2O
0.2204 0.005095 0.1641 0 0.25480.0005788 0.003025 0.01595 0.2934 0.04272

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.70 725.5 0.1872 0.1742 0.05732 0.1174 0.2425 0.3030
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2778 0.5495 0.2107 0.03490 0.1830 0.9951
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9551 0.1415 0.007864 0.3469 3.036e-5 0.2203

mode bi ep g mu pl ilm ru ky q H2O
0.2203 0.004720 0.1648 0 0.25420.0005306 0.003017 0.01623 0.2934 0.04277

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.80 726.9 0.1871 0.1741 0.05746 0.1179 0.2419 0.3037
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2782 0.5494 0.2135 0.03582 0.1833 0.9950
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9541 0.1395 0.008058 0.3460 3.002e-5 0.2202

mode bi ep g mu pl ilm ru ky q H2O
0.2202 0.004317 0.1656 0 0.25360.0004845 0.003009 0.01651 0.2934 0.04282

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.90 728.3 0.1869 0.1740 0.05759 0.1185 0.2413 0.3044
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2786 0.5494 0.2163 0.03677 0.1835 0.9948
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9531 0.1374 0.008255 0.3451 2.969e-5 0.2201

mode bi ep g mu pl ilm ru ky q H2O
0.2201 0.003885 0.1664 0 0.25310.0004405 0.003000 0.01679 0.2934 0.04287

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.00 729.7 0.1867 0.1740 0.05773 0.1190 0.2407 0.3051
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2790 0.5494 0.2190 0.03774 0.1837 0.9947
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9521 0.1354 0.008456 0.3441 2.937e-5 0.2200

mode bi ep g mu pl ilm ru ky q H2O
0.2200 0.003425 0.1672 0 0.25250.0003984 0.002991 0.01707 0.2935 0.04293

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.10 731.0 0.1866 0.1739 0.05787 0.1196 0.2401 0.3058
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2794 0.5493 0.2218 0.03873 0.1839 0.9945
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9510 0.1334 0.008660 0.3432 2.905e-5 0.2199

mode bi ep g mu pl ilm ru ky q H2O
0.2199 0.002937 0.1680 0 0.25200.0003583 0.002983 0.01735 0.2935 0.04299

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.20 732.4 0.1864 0.1738 0.05800 0.1201 0.2395 0.3065
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2798 0.5493 0.2247 0.03973 0.1842 0.9944
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9499 0.1315 0.008869 0.3423 2.874e-5 0.2198

mode bi ep g mu pl ilm ru ky q H2O
0.2198 0.002421 0.1688 0 0.25150.0003200 0.002973 0.01764 0.2935 0.04305

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.30 733.8 0.1862 0.1737 0.05814 0.1207 0.2389 0.3073
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2802 0.5492 0.2275 0.04077 0.1844 0.9942
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9487 0.1296 0.009082 0.3413 2.843e-5 0.2197

mode bi ep g mu pl ilm ru ky q H2O
0.2197 0.001877 0.1697 0 0.25100.0002834 0.002964 0.01792 0.2935 0.04311

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.40 735.2 0.1860 0.1736 0.05827 0.1212 0.2383 0.3080
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2806 0.5492 0.2304 0.04182 0.1846 0.9941
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9475 0.1277 0.009298 0.3404 2.813e-5 0.2195

mode bi ep g mu pl ilm ru ky q H2O
0.2195 0.001306 0.1705 0 0.25050.0002486 0.002954 0.01821 0.2935 0.04317

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.50 736.5 0.1859 0.1735 0.05841 0.1218 0.2378 0.3087
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2810 0.5491 0.2332 0.04289 0.1848 0.9939
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9462 0.1259 0.009519 0.3395 2.783e-5 0.2194

mode bi ep g mu pl ilm ru ky q H2O
0.21940.0007067 0.1714 0 0.25010.0002155 0.002944 0.01849 0.2935 0.04324

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.60 737.9 0.1857 0.1734 0.05855 0.1223 0.2372 0.3094
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2814 0.5491 0.2361 0.04399 0.1850 0.9938
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9449 0.1240 0.009744 0.3385 2.754e-5 0.2193

mode bi ep g mu pl ilm ru ky q H2O
0.2193 8.020e-5 0.1723 0 0.24960.0001839 0.002934 0.01878 0.2935 0.04331
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.00 667.7 0.1920 0.1737 0.05196 0.09595 0.2682 0.2759
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2605 0.5491 0.1245 0.01240 0.2431 0.002690
x(ilm) Q(ilm)
0.3787 4.885e-5

mode bi ep g pl ilm ru ky q H2O
0.2233 0 0.1420 0.2867 0.004009 0.003089 0.005980 0.2927 0.04219

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.10 670.1 0.1919 0.1744 0.05218 0.09678 0.2669 0.2768
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2611 0.5489 0.1269 0.01286 0.2412 0.002801
x(ilm) Q(ilm)
0.3782 4.814e-5

mode bi ep g pl ilm ru ky q H2O
0.2232 0 0.1426 0.2860 0.003950 0.003075 0.006145 0.2928 0.04222

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.20 672.4 0.1918 0.1750 0.05241 0.09760 0.2657 0.2776
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2616 0.5487 0.1293 0.01334 0.2393 0.002914
x(ilm) Q(ilm)
0.3777 4.746e-5

mode bi ep g pl ilm ru ky q H2O

0.2231 0 0.1433 0.2853 0.003890 0.003062 0.006318 0.2928 0.04225

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.30 674.8 0.1916 0.1755 0.05263 0.09841 0.2645 0.2785
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2622 0.5485 0.1317 0.01382 0.2373 0.003031
x(ilm) Q(ilm)
0.3772 4.678e-5

mode bi ep g pl ilm ru ky q H2O
0.2230 0 0.1439 0.2846 0.003828 0.003049 0.006497 0.2929 0.04228

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.40 677.1 0.1915 0.1761 0.05284 0.09922 0.2633 0.2793
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2627 0.5484 0.1342 0.01433 0.2353 0.003151
x(ilm) Q(ilm)
0.3766 4.612e-5

mode bi ep g pl ilm ru ky q H2O
0.2229 0 0.1445 0.2839 0.003764 0.003037 0.006684 0.2929 0.04231

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.50 679.3 0.1913 0.1766 0.05306 0.1000 0.2621 0.2802
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2633 0.5482 0.1367 0.01484 0.2332 0.003273
x(ilm) Q(ilm)
0.3761 4.548e-5

mode bi ep g pl ilm ru ky q H2O
0.2228 0 0.1452 0.2832 0.003699 0.003025 0.006877 0.2929 0.04234

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.60 681.5 0.1912 0.1771 0.05327 0.1008 0.2610 0.2810
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2638 0.5481 0.1392 0.01538 0.2311 0.003399
x(ilm) Q(ilm)
0.3755 4.484e-5

mode bi ep g pl ilm ru ky q H2O
0.2227 0 0.1458 0.2824 0.003633 0.003013 0.007078 0.2930 0.04237

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.70 683.7 0.1911 0.1775 0.05348 0.1016 0.2599 0.2818
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2644 0.5480 0.1417 0.01592 0.2289 0.003528
x(ilm) Q(ilm)
0.3749 4.422e-5

mode bi ep g pl ilm ru ky q H2O

0.2226 0 0.1465 0.2817 0.003565 0.003002 0.007285 0.2930 0.04240

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.80 685.9 0.1909 0.1780 0.05368 0.1024 0.2588 0.2827
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2649 0.5478 0.1443 0.01648 0.2267 0.003660
x(ilm) Q(ilm)
0.3742 4.361e-5

mode bi ep g pl ilm ru ky q H2O
0.2225 0 0.1471 0.2809 0.003495 0.002992 0.007500 0.2930 0.04243

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.90 688.0 0.1908 0.1784 0.05388 0.1031 0.2577 0.2835
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2654 0.5477 0.1468 0.01706 0.2245 0.003795
x(ilm) Q(ilm)
0.3736 4.302e-5

mode bi ep g pl ilm ru ky q H2O
0.2224 0 0.1478 0.2802 0.003425 0.002982 0.007721 0.2931 0.04246

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.00 690.1 0.1906 0.1787 0.05408 0.1039 0.2567 0.2843
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2659 0.5476 0.1494 0.01765 0.2222 0.003932
x(ilm) Q(ilm)
0.3729 4.243e-5

mode bi ep g pl ilm ru ky q H2O
0.2223 0 0.1485 0.2794 0.003352 0.002973 0.007948 0.2931 0.04249

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.10 692.1 0.1905 0.1791 0.05428 0.1046 0.2557 0.2851
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2665 0.5475 0.1520 0.01825 0.2198 0.004073
x(ilm) Q(ilm)
0.3722 4.186e-5

mode bi ep g pl ilm ru ky q H2O
0.2222 0 0.1492 0.2786 0.003278 0.002964 0.008183 0.2931 0.04252

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.20 694.1 0.1903 0.1794 0.05447 0.1053 0.2547 0.2859
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2670 0.5474 0.1546 0.01886 0.2174 0.004216
x(ilm) Q(ilm)
0.3715 4.130e-5

mode bi ep g pl ilm ru ky q H2O

0.2221 0 0.1498 0.2778 0.003203 0.002955 0.008423 0.2932 0.04255

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.30 696.1 0.1902 0.1797 0.05465 0.1060 0.2538 0.2868
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2675 0.5474 0.1572 0.01949 0.2150 0.004362
x(ilm) Q(ilm)
0.3708 4.075e-5

mode bi ep g pl ilm ru ky q H2O
0.2220 0 0.1505 0.2770 0.003126 0.002948 0.008670 0.2932 0.04258

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.40 698.0 0.1900 0.1800 0.05484 0.1067 0.2528 0.2876
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2680 0.5473 0.1599 0.02014 0.2126 0.004511
x(ilm) Q(ilm)
0.3700 4.021e-5

mode bi ep g pl ilm ru ky q H2O
0.2219 0 0.1512 0.2762 0.003048 0.002940 0.008923 0.2932 0.04261

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.50 699.9 0.1899 0.1802 0.05502 0.1074 0.2519 0.2884
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2685 0.5472 0.1625 0.02079 0.2101 0.004663
x(ilm) Q(ilm)
0.3693 3.968e-5

mode bi ep g pl ilm ru ky q H2O
0.2218 0 0.1519 0.2753 0.002969 0.002934 0.009181 0.2932 0.04263

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.60 701.8 0.1897 0.1804 0.05520 0.1081 0.2511 0.2891
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2690 0.5472 0.1651 0.02146 0.2075 0.004816
x(ilm) Q(ilm)
0.3685 3.917e-5

mode bi ep g pl ilm ru ky q H2O
0.2217 0 0.1526 0.2745 0.002888 0.002927 0.009446 0.2933 0.04266

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.70 703.6 0.1896 0.1806 0.05537 0.1088 0.2502 0.2899
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2695 0.5471 0.1677 0.02214 0.2050 0.004972
x(ilm) Q(ilm)
0.3677 3.866e-5

mode bi ep g pl ilm ru ky q H2O

0.2216 0 0.1533 0.2737 0.002806 0.002922 0.009715 0.2933 0.04269

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.80 705.4 0.1894 0.1807 0.05554 0.1094 0.2494 0.2907
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2699 0.5471 0.1704 0.02283 0.2024 0.005131
x(ilm) Q(ilm)
0.3669 3.816e-5

mode bi ep g pl ilm ru ky q H2O
0.2215 0 0.1540 0.2728 0.002723 0.002917 0.009990 0.2933 0.04272

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
13.90 707.1 0.1893 0.1808 0.05571 0.1101 0.2486 0.2915
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2704 0.5470 0.1730 0.02353 0.1997 0.005291
x(ilm) Q(ilm)
0.3661 3.768e-5

mode bi ep g pl ilm ru ky q H2O
0.2214 0 0.1547 0.2720 0.002638 0.002912 0.01027 0.2933 0.04274

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.00 708.8 0.1891 0.1809 0.05587 0.1107 0.2478 0.2922
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2709 0.5470 0.1756 0.02424 0.1971 0.005454
x(ilm) Q(ilm)
0.3652 3.720e-5

mode bi ep g pl ilm ru ky q H2O
0.2213 0 0.1554 0.2711 0.002553 0.002908 0.01056 0.2934 0.04277

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.10 710.4 0.1890 0.1810 0.05603 0.1113 0.2471 0.2930
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2713 0.5470 0.1782 0.02496 0.1944 0.005618
x(ilm) Q(ilm)
0.3644 3.673e-5

mode bi ep g pl ilm ru ky q H2O
0.2212 0 0.1561 0.2703 0.002466 0.002904 0.01084 0.2934 0.04280

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.20 712.0 0.1888 0.1810 0.05618 0.1119 0.2464 0.2937
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2718 0.5470 0.1808 0.02569 0.1917 0.005784
x(ilm) Q(ilm)
0.3635 3.627e-5

mode bi ep g pl ilm ru ky q H2O

0.2211 0 0.1569 0.2694 0.002379 0.002901 0.01114 0.2934 0.04282

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.30 713.6 0.1887 0.1810 0.05633 0.1125 0.2457 0.2945
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2723 0.5470 0.1834 0.02642 0.1889 0.005952
x(ilm) Q(ilm)
0.3626 3.582e-5

mode bi ep g pl ilm ru ky q H2O
0.2210 0 0.1576 0.2686 0.002290 0.002898 0.01144 0.2934 0.04285

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.40 715.1 0.1885 0.1810 0.05647 0.1131 0.2450 0.2952
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2727 0.5470 0.1860 0.02717 0.1862 0.006121
x(ilm) Q(ilm)
0.3617 3.538e-5

mode bi ep g pl ilm ru ky q H2O
0.2209 0 0.1583 0.2677 0.002201 0.002896 0.01174 0.2934 0.04287

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.50 716.6 0.1884 0.1809 0.05662 0.1137 0.2444 0.2959
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2732 0.5470 0.1886 0.02792 0.1834 0.006291
x(ilm) Q(ilm)
0.3607 3.495e-5

mode bi ep g pl ilm ru ky q H2O
0.2208 0 0.1590 0.2668 0.002111 0.002894 0.01204 0.2935 0.04290

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.60 718.0 0.1883 0.1809 0.05675 0.1142 0.2438 0.2967
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2736 0.5470 0.1911 0.02868 0.1806 0.006462
x(ilm) Q(ilm)
0.3598 3.452e-5

mode bi ep g pl ilm ru ky q H2O
0.2207 0 0.1597 0.2660 0.002020 0.002893 0.01235 0.2935 0.04292

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.70 719.4 0.1881 0.1807 0.05689 0.1147 0.2432 0.2974
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2740 0.5471 0.1936 0.02944 0.1778 0.006634
x(ilm) Q(ilm)
0.3588 3.411e-5

mode bi ep g pl ilm ru ky q H2O

0.2206 0 0.1604 0.2651 0.001928 0.002892 0.01266 0.2935 0.04295

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.80 720.8 0.1880 0.1806 0.05702 0.1153 0.2427 0.2981
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2745 0.5471 0.1961 0.03021 0.1749 0.006806
x(ilm) Q(ilm)
0.3579 3.370e-5

mode bi ep g pl ilm ru ky q H2O
0.2205 0 0.1611 0.2642 0.001836 0.002891 0.01297 0.2935 0.04297

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.90 722.1 0.1878 0.1804 0.05714 0.1158 0.2422 0.2988
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2749 0.5471 0.1986 0.03098 0.1721 0.006979
x(ilm) Q(ilm)
0.3569 3.330e-5

mode bi ep g pl ilm ru ky q H2O
0.2205 0 0.1617 0.2634 0.001744 0.002891 0.01329 0.2935 0.04300

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.00 723.4 0.1877 0.1802 0.05726 0.1163 0.2417 0.2995
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2753 0.5472 0.2011 0.03175 0.1692 0.007152
x(ilm) Q(ilm)
0.3559 3.291e-5

mode bi ep g pl ilm ru ky q H2O
0.2204 0 0.1624 0.2625 0.001651 0.002891 0.01361 0.2935 0.04302

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.10 724.6 0.1876 0.1800 0.05738 0.1168 0.2412 0.3002
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2757 0.5472 0.2035 0.03253 0.1664 0.007325
x(ilm) Q(ilm)
0.3549 3.253e-5

mode bi ep g pl ilm ru ky q H2O
0.2203 0 0.1631 0.2617 0.001558 0.002892 0.01393 0.2935 0.04304

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.20 725.8 0.1874 0.1798 0.05749 0.1172 0.2408 0.3008
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2761 0.5473 0.2059 0.03331 0.1635 0.007498
x(ilm) Q(ilm)
0.3539 3.215e-5

mode bi ep g pl ilm ru ky q H2O

0.2202 0 0.1638 0.2608 0.001465 0.002893 0.01425 0.2935 0.04306

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.30 726.9 0.1873 0.1795 0.05759 0.1177 0.2403 0.3015
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2765 0.5474 0.2083 0.03409 0.1606 0.007670
x(ilm) Q(ilm)
0.3529 3.178e-5

mode bi ep g pl ilm ru ky q H2O
0.2201 0 0.1644 0.2600 0.001372 0.002894 0.01457 0.2935 0.04308

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.40 728.0 0.1872 0.1792 0.05770 0.1181 0.2399 0.3022
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2769 0.5475 0.2106 0.03487 0.1578 0.007842
x(ilm) Q(ilm)
0.3518 3.141e-5

mode bi ep g pl ilm ru ky q H2O
0.2201 0 0.1651 0.2591 0.001279 0.002895 0.01489 0.2935 0.04311

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.50 729.1 0.1870 0.1788 0.05779 0.1185 0.2396 0.3028
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2773 0.5476 0.2129 0.03565 0.1549 0.008012
x(ilm) Q(ilm)
0.3508 3.106e-5

mode bi ep g pl ilm ru ky q H2O
0.2200 0 0.1658 0.2583 0.001186 0.002897 0.01522 0.2935 0.04313

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.60 730.1 0.1869 0.1785 0.05789 0.1190 0.2392 0.3034
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2777 0.5476 0.2152 0.03643 0.1521 0.008181
x(ilm) Q(ilm)
0.3497 3.071e-5

mode bi ep g pl ilm ru ky q H2O
0.2199 0 0.1664 0.2575 0.001093 0.002899 0.01554 0.2935 0.04315

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.70 731.1 0.1868 0.1781 0.05797 0.1194 0.2389 0.3041
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2781 0.5478 0.2175 0.03720 0.1492 0.008349
x(ilm) Q(ilm)
0.3486 3.036e-5

mode bi ep g pl ilm ru ky q H2O

0.2198 0 0.1670 0.2567 0.001000 0.002902 0.01587 0.2935 0.04317

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.80 732.0 0.1866 0.1777 0.05806 0.1197 0.2386 0.3047
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2785 0.5479 0.2197 0.03798 0.1464 0.008515
x(ilm) Q(ilm)
0.3475 3.003e-5

mode bi ep g pl ilm ru ky q H2O
0.2198 0 0.1677 0.25580.0009077 0.002904 0.01620 0.2935 0.04318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.90 732.9 0.1865 0.1772 0.05814 0.1201 0.2383 0.3053
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2789 0.5480 0.2219 0.03875 0.1435 0.008680
x(ilm) Q(ilm)
0.3464 2.970e-5

mode bi ep g pl ilm ru ky q H2O
0.2197 0 0.1683 0.25500.0008158 0.002907 0.01652 0.2935 0.04320

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.00 733.7 0.1864 0.1768 0.05821 0.1205 0.2381 0.3059
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2792 0.5481 0.2240 0.03952 0.1407 0.008842
x(ilm) Q(ilm)
0.3453 2.937e-5

mode bi ep g pl ilm ru ky q H2O
0.2196 0 0.1689 0.25420.0007245 0.002910 0.01685 0.2935 0.04322

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.10 734.5 0.1863 0.1763 0.05828 0.1208 0.2379 0.3065
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2796 0.5482 0.2262 0.04028 0.1379 0.009001
x(ilm) Q(ilm)
0.3442 2.905e-5

mode bi ep g pl ilm ru ky q H2O
0.2196 0 0.1695 0.25340.0006336 0.002914 0.01717 0.2935 0.04324

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.20 735.3 0.1862 0.1758 0.05835 0.1211 0.2377 0.3071
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2800 0.5484 0.2283 0.04104 0.1351 0.009158
x(ilm) Q(ilm)
0.3431 2.874e-5

mode bi ep g pl ilm ru ky q H2O

0.2195 0 0.1701 0.25270.0005435 0.002917 0.01749 0.2935 0.04325

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.30 736.0 0.1860 0.1752 0.05841 0.1215 0.2375 0.3077
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2803 0.5485 0.2303 0.04180 0.1323 0.009312
x(ilm) Q(ilm)
0.3420 2.843e-5

mode bi ep g pl ilm ru ky q H2O
0.2195 0 0.1706 0.25190.0004541 0.002921 0.01782 0.2935 0.04327

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.40 736.7 0.1859 0.1747 0.05846 0.1218 0.2373 0.3083
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2807 0.5487 0.2323 0.04255 0.1296 0.009463
x(ilm) Q(ilm)
0.3408 2.813e-5

mode bi ep g pl ilm ru ky q H2O
0.2194 0 0.1712 0.25110.0003654 0.002925 0.01814 0.2935 0.04329

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.50 737.4 0.1858 0.1741 0.05851 0.1221 0.2372 0.3088
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2810 0.5489 0.2343 0.04329 0.1269 0.009611
x(ilm) Q(ilm)
0.3397 2.783e-5

mode bi ep g pl ilm ru ky q H2O
0.2194 0 0.1718 0.25040.0002777 0.002928 0.01846 0.2935 0.04330

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.60 738.0 0.1857 0.1735 0.05856 0.1223 0.2371 0.3094
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2814 0.5490 0.2362 0.04403 0.1242 0.009755
x(ilm) Q(ilm)
0.3385 2.754e-5

mode bi ep g pl ilm ru ky q H2O
0.2193 0 0.1723 0.24960.0001908 0.002933 0.01878 0.2935 0.04331

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.70 738.6 0.1856 0.1729 0.05860 0.1226 0.2370 0.3099
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2817 0.5492 0.2382 0.04476 0.1215 0.009895
x(ilm) Q(ilm)
0.3374 2.725e-5

mode bi ep g pl ilm ru ky q H2O

0.2193 0 0.1728 0.24890.0001050 0.002937 0.01910 0.2935 0.04333

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.80 739.1 0.1855 0.1722 0.05864 0.1229 0.2369 0.3105
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2821 0.5494 0.2400 0.04549 0.1188 0.01003
x(ilm) Q(ilm)
0.3362 2.697e-5

mode bi ep g pl ilm ru ky q H2O
0.2192 0 0.1734 0.2482 2.014e-5 0.002941 0.01941 0.2935 0.04334

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.24 719.1 0.1870 0.1742 0.05675 0.1148 0.2445 0.2999
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2760 0.5476 0.1978 0.03085 0.1809 0.9956
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9596 0.1514 0.006976 0.3504 3.176e-5 0.2188

mode bi ep g mu pl ilm ru ky q H2O
0.2188 0.01095 0.1634 0.04753 0.2208 0 0.003182 0 0.3008 0.03455

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.82 739.2 0.1854 0.1721 0.05865 0.1229 0.2369 0.3106
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)

0.2821 0.5495 0.2405 0.04566 0.1182 0.01006
x(ilm) Q(ilm)
0.3359 2.690e-5

mode bi ep g pl ilm ru ky q H2O
0.2192 0 0.1735 0.2480 0 0.002942 0.01949 0.2935 0.04334
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.00 673.7 0.1946 0.1698 0.07467 0.09675 0.2659 0.3362
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3076 0.5462 0.1041 0.01557 0.1769 0.9981
na(mu) ca(pl) k(pl)
0.9780 0.2204 0.003031

mode bi ep g mu pl ru ky q H2O
0.2232 0.01276 0.1420 0 0.2784 0.003647 0.006015 0.2925 0.04140

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.10 675.2 0.1945 0.1701 0.07383 0.09731 0.2653 0.3346
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3063 0.5463 0.1064 0.01583 0.1771 0.9981
na(mu) ca(pl) k(pl)
0.9776 0.2181 0.003116

mode bi ep g mu pl ru ky q H2O
0.2232 0.01296 0.1424 0 0.2776 0.003631 0.006278 0.2925 0.04140

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.20    676.6  0.1943  0.1703  0.07302  0.09786  0.2647  0.3331
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.3050  0.5464  0.1087  0.01611  0.1773  0.9980
          na(mu) ca(pl)  k(pl)
          0.9772  0.2157 0.003204

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2231  0.01314  0.1429    0  0.2768 0.003616 0.006540  0.2925  0.04141

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.30    678.0  0.1942  0.1705  0.07225  0.09841  0.2641  0.3316
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.3038  0.5465  0.1111  0.01639  0.1775  0.9980
          na(mu) ca(pl)  k(pl)
          0.9768  0.2133 0.003294

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2230  0.01329  0.1433    0  0.2760 0.003601 0.006804  0.2926  0.04142

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.40    679.5  0.1940  0.1707  0.07150  0.09897  0.2635  0.3302
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.3026  0.5466  0.1134  0.01669  0.1777  0.9979
          na(mu) ca(pl)  k(pl)
          0.9764  0.2110 0.003386

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2230  0.01343  0.1437    0  0.2752 0.003585 0.007068  0.2926  0.04143

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.50    680.9  0.1939  0.1709  0.07079  0.09952  0.2629  0.3288
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.3014  0.5468  0.1159  0.01701  0.1780  0.9978
          na(mu) ca(pl)  k(pl)
          0.9760  0.2086 0.003480

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2229  0.01356  0.1442    0  0.2744 0.003570 0.007332  0.2926  0.04145

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.60    682.4  0.1937  0.1711  0.07011  0.1001  0.2623  0.3275
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.3003  0.5469  0.1183  0.01734  0.1782  0.9978
          na(mu) ca(pl)  k(pl)
          0.9755  0.2063 0.003577

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2228  0.01366  0.1446    0  0.2736 0.003554 0.007597  0.2926  0.04146

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.70    683.8  0.1935  0.1713  0.06945  0.1006  0.2616  0.3262
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2992  0.5470  0.1208  0.01768  0.1784  0.9977
          na(mu) ca(pl)  k(pl)
          0.9751  0.2039  0.003675

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2228  0.01374  0.1451    0  0.2729  0.003539  0.007862  0.2926  0.04148

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.80    685.2  0.1934  0.1715  0.06882  0.1012  0.2610  0.3250
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2982  0.5471  0.1233  0.01803  0.1786  0.9977
          na(mu) ca(pl)  k(pl)
          0.9746  0.2016  0.003776

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2227  0.01381  0.1456    0  0.2721  0.003524  0.008128  0.2927  0.04149

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
12.90    686.6  0.1932  0.1717  0.06822  0.1017  0.2604  0.3238
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2972  0.5472  0.1259  0.01840  0.1788  0.9976
          na(mu) ca(pl)  k(pl)
          0.9741  0.1993  0.003880

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2226  0.01385  0.1461    0  0.2713  0.003508  0.008394  0.2927  0.04151

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.00    688.1  0.1930  0.1718  0.06765  0.1023  0.2598  0.3227
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2962  0.5473  0.1285  0.01878  0.1789  0.9975
          na(mu) ca(pl)  k(pl)
          0.9737  0.1969  0.003986

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2226  0.01388  0.1466    0  0.2706  0.003493  0.008661  0.2927  0.04153

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.10    689.5  0.1928  0.1720  0.06710  0.1028  0.2591  0.3217
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2953  0.5474  0.1311  0.01918  0.1791  0.9975
          na(mu) ca(pl)  k(pl)
          0.9732  0.1946  0.004094

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2225  0.01388  0.1471    0  0.2698  0.003478  0.008928  0.2927  0.04155

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.20    690.9  0.1927  0.1721  0.06658  0.1034  0.2585  0.3207
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2944  0.5475  0.1337  0.01960  0.1793  0.9974
          na(mu) ca(pl)  k(pl)
          0.9727  0.1923  0.004204

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2224  0.01387  0.1476    0  0.2691  0.003463  0.009196  0.2928  0.04158

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.30    692.3  0.1925  0.1722  0.06608  0.1040  0.2579  0.3197
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2936  0.5476  0.1364  0.02003  0.1795  0.9973
          na(mu) ca(pl)  k(pl)
          0.9722  0.1900  0.004317

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2223  0.01383  0.1482    0  0.2684  0.003447  0.009465  0.2928  0.04160

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.40    693.8  0.1923  0.1724  0.06560  0.1045  0.2572  0.3188
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2928  0.5478  0.1391  0.02047  0.1797  0.9973
          na(mu) ca(pl)  k(pl)
          0.9717  0.1877  0.004433

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2223  0.01377  0.1487    0  0.2676  0.003432  0.009734  0.2928  0.04163

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.50    695.2  0.1921  0.1725  0.06515  0.1051  0.2566  0.3180
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2920  0.5479  0.1418  0.02093  0.1799  0.9972
          na(mu) ca(pl)  k(pl)
          0.9711  0.1854  0.004551

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2222  0.01370  0.1493    0  0.2669  0.003417  0.01000  0.2928  0.04165

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.60    696.6  0.1919  0.1726  0.06472  0.1056  0.2560  0.3172
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2912  0.5480  0.1445  0.02141  0.1801  0.9971
          na(mu) ca(pl)  k(pl)
          0.9706  0.1832  0.004672

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2221  0.01360  0.1499    0  0.2662  0.003402  0.01027  0.2929  0.04168

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.70    698.0  0.1917  0.1727  0.06432  0.1062  0.2553  0.3165
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2905  0.5481  0.1473  0.02190  0.1803  0.9971
          na(mu) ca(pl)  k(pl)
          0.9700  0.1809 0.004795

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2220  0.01348  0.1504    0  0.2655 0.003387 0.01055  0.2929 0.04171

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.80    699.4  0.1915  0.1728  0.06393  0.1067  0.2547  0.3158
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2899  0.5482  0.1501  0.02242  0.1804  0.9970
          na(mu) ca(pl)  k(pl)
          0.9695  0.1787 0.004921

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2220  0.01334  0.1510    0  0.2648 0.003371 0.01082  0.2929 0.04174

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
13.90    700.8  0.1913  0.1728  0.06357  0.1073  0.2541  0.3151
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2893  0.5482  0.1529  0.02294  0.1806  0.9969
          na(mu) ca(pl)  k(pl)
          0.9689  0.1764 0.005050

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2219  0.01318  0.1516    0  0.2642 0.003356 0.01109  0.2929 0.04178

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.00    702.2  0.1911  0.1729  0.06322  0.1078  0.2534  0.3145
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2887  0.5483  0.1558  0.02349  0.1808  0.9968
          na(mu) ca(pl)  k(pl)
          0.9683  0.1742 0.005181

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2218  0.01299  0.1522    0  0.2635 0.003341 0.01136  0.2929 0.04181

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.10    703.6  0.1909  0.1730  0.06289  0.1084  0.2528  0.3139
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2881  0.5484  0.1586  0.02405  0.1810  0.9967
          na(mu) ca(pl)  k(pl)
          0.9677  0.1720 0.005316

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2217  0.01279  0.1529    0  0.2628 0.003326 0.01164  0.2930 0.04185

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.20    705.0  0.1907  0.1730  0.06259  0.1089  0.2521  0.3134
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2876  0.5485  0.1615  0.02463  0.1812  0.9967
          na(mu) ca(pl)  k(pl)
          0.9671  0.1698 0.005453

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2217  0.01257  0.1535    0  0.2622 0.003311 0.01191  0.2930 0.04189

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.30    706.4  0.1905  0.1731  0.06230  0.1095  0.2515  0.3130
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2871  0.5486  0.1644  0.02523  0.1813  0.9966
          na(mu) ca(pl)  k(pl)
          0.9664  0.1677 0.005593

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2216  0.01232  0.1542    0  0.2615 0.003296 0.01219  0.2930 0.04192

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.40    707.8  0.1903  0.1731  0.06202  0.1100  0.2509  0.3125
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2866  0.5486  0.1673  0.02585  0.1815  0.9965
          na(mu) ca(pl)  k(pl)
          0.9658  0.1655 0.005736

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2215  0.01205  0.1548    0  0.2609 0.003281 0.01246  0.2930 0.04197

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.50    709.2  0.1901  0.1732  0.06177  0.1106  0.2502  0.3121
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2862  0.5487  0.1703  0.02648  0.1817  0.9964
          na(mu) ca(pl)  k(pl)
          0.9651  0.1634 0.005882

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2214  0.01176  0.1555    0  0.2603 0.003266 0.01274  0.2931 0.04201

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.60    710.6  0.1899  0.1732  0.06153  0.1112  0.2496  0.3118
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2858  0.5488  0.1732  0.02713  0.1819  0.9963
          na(mu) ca(pl)  k(pl)
          0.9644  0.1613 0.006031

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2213  0.01145  0.1562    0  0.2597 0.003251 0.01302  0.2931 0.04205

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.70    712.0  0.1897  0.1733  0.06130  0.1117  0.2490  0.3115
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2855  0.5488  0.1762  0.02780  0.1820  0.9962
          na(mu) ca(pl)  k(pl)
          0.9637  0.1592  0.006183

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2212  0.01112  0.1568    0  0.2591  0.003236  0.01330  0.2931  0.04210

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.80    713.4  0.1895  0.1733  0.06110  0.1123  0.2483  0.3112
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2851  0.5489  0.1792  0.02850  0.1822  0.9961
          na(mu) ca(pl)  k(pl)
          0.9630  0.1571  0.006339

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2211  0.01077  0.1575    0  0.2585  0.003222  0.01357  0.2931  0.04214

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
14.90    714.8  0.1893  0.1733  0.06090  0.1128  0.2477  0.3110
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2848  0.5490  0.1822  0.02921  0.1824  0.9960
          na(mu) ca(pl)  k(pl)
          0.9623  0.1551  0.006497

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2211  0.01039  0.1583    0  0.2579  0.003207  0.01385  0.2932  0.04219

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.00    716.2  0.1891  0.1733  0.06072  0.1134  0.2471  0.3108
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2845  0.5490  0.1852  0.02993  0.1825  0.9959
          na(mu) ca(pl)  k(pl)
          0.9615  0.1530  0.006659

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2210  0.009994  0.1590    0  0.2573  0.003192  0.01413  0.2932  0.04224

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.10    717.5  0.1889  0.1733  0.06056  0.1139  0.2465  0.3107
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2843  0.5490  0.1882  0.03068  0.1827  0.9958
          na(mu) ca(pl)  k(pl)
          0.9607  0.1510  0.006824

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2209  0.009576  0.1597    0  0.2567  0.003177  0.01442  0.2932  0.04230

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.20    718.9  0.1887  0.1733  0.06040  0.1145  0.2458  0.3105
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2841  0.5491  0.1913  0.03145  0.1829  0.9957
          na(mu) ca(pl)  k(pl)
          0.9599  0.1490  0.006993

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2208  0.009136  0.1605    0  0.2562  0.003162  0.01470  0.2932  0.04235

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.30    720.3  0.1885  0.1733  0.06026  0.1150  0.2452  0.3104
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2839  0.5491  0.1943  0.03224  0.1831  0.9956
          na(mu) ca(pl)  k(pl)
          0.9591  0.1470  0.007165

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2207  0.008675  0.1612    0  0.2556  0.003148  0.01498  0.2932  0.04240

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.40    721.7  0.1883  0.1733  0.06013  0.1156  0.2446  0.3104
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2837  0.5491  0.1974  0.03305  0.1832  0.9955
          na(mu) ca(pl)  k(pl)
          0.9582  0.1451  0.007340

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2206  0.008193  0.1620    0  0.2551  0.003133  0.01526  0.2933  0.04246

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.50    723.0  0.1881  0.1733  0.06002  0.1161  0.2440  0.3104
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2836  0.5492  0.2004  0.03387  0.1834  0.9953
          na(mu) ca(pl)  k(pl)
          0.9573  0.1432  0.007519

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2205  0.007689  0.1628    0  0.2546  0.003118  0.01555  0.2933  0.04252

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.60    724.4  0.1879  0.1733  0.05991  0.1167  0.2433  0.3104
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2834  0.5492  0.2035  0.03472  0.1836  0.9952
          na(mu) ca(pl)  k(pl)
          0.9564  0.1413  0.007702

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2204  0.007164  0.1636    0  0.2541  0.003104  0.01583  0.2933  0.04258

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.70    725.8  0.1877  0.1733  0.05982  0.1172  0.2427  0.3104
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2833  0.5492  0.2066  0.03559  0.1837  0.9951
          na(mu) ca(pl)  k(pl)
          0.9554  0.1394 0.007888

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2203  0.006618  0.1644    0  0.2536 0.003089 0.01612  0.2933 0.04264

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.80    727.1  0.1875  0.1733  0.05974  0.1178  0.2421  0.3105
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2832  0.5492  0.2097  0.03648  0.1839  0.9950
          na(mu) ca(pl)  k(pl)
          0.9545  0.1375 0.008078

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2202  0.006050  0.1652    0  0.2531 0.003075 0.01641  0.2933 0.04270

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
15.90    728.5  0.1872  0.1733  0.05966  0.1184  0.2415  0.3106
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2832  0.5492  0.2128  0.03738  0.1841  0.9948
          na(mu) ca(pl)  k(pl)
          0.9534  0.1357 0.008272

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2201  0.005460  0.1660    0  0.2526 0.003060 0.01670  0.2934 0.04277

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.00    729.9  0.1870  0.1733  0.05960  0.1189  0.2409  0.3107
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2831  0.5492  0.2159  0.03831  0.1842  0.9947
          na(mu) ca(pl)  k(pl)
          0.9524  0.1338 0.008471

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2200  0.004849  0.1668    0  0.2521 0.003046 0.01699  0.2934 0.04283

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.10    731.2  0.1868  0.1732  0.05955  0.1195  0.2403  0.3108
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2831  0.5491  0.2190  0.03926  0.1844  0.9945
          na(mu) ca(pl)  k(pl)
          0.9513  0.1320 0.008673

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2199  0.004217  0.1677    0  0.2516 0.003031 0.01728  0.2934 0.04290

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.20    732.6  0.1866  0.1732  0.05950  0.1200  0.2397  0.3110
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2831  0.5491  0.2222  0.04023  0.1846  0.9944
          na(mu) ca(pl)  k(pl)
          0.9502  0.1303 0.008879

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2198  0.003563  0.1685    0  0.2512 0.003017 0.01757 0.2934 0.04297

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.30    733.9  0.1864  0.1732  0.05946  0.1206  0.2391  0.3112
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2831  0.5491  0.2253  0.04122  0.1848  0.9942
          na(mu) ca(pl)  k(pl)
          0.9490  0.1285 0.009089

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2197  0.002888  0.1694    0  0.2507 0.003002 0.01786 0.2934 0.04304

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.40    735.3  0.1862  0.1732  0.05944  0.1211  0.2384  0.3114
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2831  0.5491  0.2284  0.04223  0.1849  0.9941
          na(mu) ca(pl)  k(pl)
          0.9477  0.1268 0.009304

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2196  0.002191  0.1703    0  0.2503 0.002988 0.01815 0.2934 0.04311

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.50    736.6  0.1860  0.1731  0.05942  0.1217  0.2378  0.3117
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2832  0.5490  0.2316  0.04326  0.1851  0.9939
          na(mu) ca(pl)  k(pl)
          0.9464  0.1251 0.009523

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.2195  0.001473  0.1712    0  0.2498 0.002973 0.01845 0.2935 0.04319

```

```

P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.60    738.0  0.1858  0.1731  0.05941  0.1223  0.2372  0.3119
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2833  0.5490  0.2347  0.04432  0.1853  0.9938
          na(mu) ca(pl)  k(pl)
          0.9451  0.1234 0.009747

mode     bi    ep    g    mu    pl    ru    ky    q    H2O
0.21930.0007330  0.1721    0  0.2494 0.002959 0.01874 0.2935 0.04326

```

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, ep, g, mu, pl, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

BOMBED in PT window : no sensible input

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, ep, g, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.00	574.4	0.1963	0.1251	0.04192	0.06525	0.3292	0.2531
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2453	0.5686	0.06662	0.003683	0.17250	0.0006791	
	x(ilm)	Q(ilm)					
	0.3588	5.879e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2267	0.03785	0.1268	0.2615		0	0.004545	0.01263	0.2913 0.03864

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.10	577.5	0.1962	0.1264	0.04225	0.06620	0.3273	0.2540
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2460	0.5681	0.06804	0.003838	0.17250	0.0007187	
	x(ilm)	Q(ilm)					
	0.3592	5.816e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2266	0.03750	0.1272	0.2615		0	0.004518	0.01255	0.2913 0.03869

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
10.20	580.5	0.1961	0.1276	0.04257	0.06715	0.3254	0.2548
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2467	0.5676	0.06950	0.003998	0.17260	0.0007601	
	x(ilm)	Q(ilm)					
	0.3596	5.752e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2266	0.03715	0.1277	0.2616		0	0.004491	0.01248	0.2914 0.03875

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.30 583.6 0.1961 0.1289 0.04289 0.06810 0.3235 0.2557
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2473 0.5671 0.07098 0.004165 0.17260.0008034
 x(ilm) Q(ilm)
 0.3599 5.688e-5

mode bi ep g pl ilm ru ky q H2O
 0.2265 0.03680 0.1281 0.2616 0 0.004463 0.01241 0.2914 0.03880

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.40 586.6 0.1960 0.1301 0.04321 0.06905 0.3217 0.2566
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2480 0.5666 0.07249 0.004338 0.17260.0008486
 x(ilm) Q(ilm)
 0.3602 5.625e-5

mode bi ep g pl ilm ru ky q H2O
 0.2264 0.03645 0.1285 0.2616 0 0.004436 0.01235 0.2914 0.03886

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.50 589.6 0.1960 0.1313 0.04353 0.07000 0.3198 0.2575
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2487 0.5661 0.07403 0.004518 0.17260.0008957
 x(ilm) Q(ilm)
 0.3605 5.562e-5

mode bi ep g pl ilm ru ky q H2O
 0.2263 0.03610 0.1289 0.2616 0 0.004408 0.01229 0.2915 0.03891

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.60 592.6 0.1959 0.1325 0.04384 0.07095 0.3180 0.2584
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2493 0.5657 0.07560 0.004705 0.17250.0009449
 x(ilm) Q(ilm)
 0.3608 5.499e-5

mode bi ep g pl ilm ru ky q H2O
 0.2262 0.03574 0.1293 0.2616 0 0.004381 0.01224 0.2915 0.03897

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 10.70 595.6 0.1958 0.1337 0.04416 0.07190 0.3162 0.2592
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2500 0.5652 0.07720 0.004899 0.17240.0009961
 x(ilm) Q(ilm)
 0.3610 5.436e-5

mode bi ep g pl ilm ru ky q H2O
 0.2261 0.03539 0.1298 0.2616 0 0.004354 0.01219 0.2916 0.03902

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.80	598.6	0.1957	0.1349	0.04446	0.07285	0.3143	0.2601			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2506	0.5647	0.07884	0.005101	0.1723	0.001050				
	x(ilm)	Q(ilm)								
	0.3612	5.374e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2260	0.03503	0.1302	0.2616		0.004327	0.01214	0.2916	0.03908	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
10.90	601.6	0.1956	0.1360	0.04477	0.07379	0.3125	0.2610			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2513	0.5643	0.08050	0.005311	0.1722	0.001105				
	x(ilm)	Q(ilm)								
	0.3614	5.312e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2259	0.03468	0.1307	0.2615		0.004299	0.01210	0.2917	0.03913	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
11.00	604.5	0.1956	0.1372	0.04507	0.07474	0.3108	0.2619			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2519	0.5639	0.08220	0.005529	0.1720	0.001163				
	x(ilm)	Q(ilm)								
	0.3616	5.251e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2259	0.03432	0.1311	0.2615		0.004272	0.01206	0.2917	0.03919	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
11.10	607.4	0.1955	0.1383	0.04537	0.07569	0.3090	0.2627			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2525	0.5634	0.08393	0.005756	0.1718	0.001223				
	x(ilm)	Q(ilm)								
	0.3617	5.190e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2258	0.03396	0.1316	0.2614		0.004245	0.01203	0.2917	0.03924	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
11.20	610.3	0.1954	0.1394	0.04567	0.07663	0.3073	0.2636			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2532	0.5630	0.08570	0.005991	0.1716	0.001285				
	x(ilm)	Q(ilm)								
	0.3618	5.130e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2257	0.03359	0.1320	0.2614		0.004218	0.01200	0.2918	0.03930	

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
11.30	613.2	0.1953	0.1405	0.04596	0.07757	0.3055	0.2645		
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
	0.2538	0.5626	0.08750	0.006235	0.1713	0.001350			
	x(ilm)	Q(ilm)							
	0.3619	5.070e-5							
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2256	0.03323	0.1325	0.2613		0.004191	0.01198	0.2918	0.03935

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
11.40	616.1	0.1952	0.1415	0.04626	0.07851	0.3038	0.2654		
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
	0.2544	0.5622	0.08934	0.006489	0.1710	0.001418			
	x(ilm)	Q(ilm)							
	0.3620	5.010e-5							
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2255	0.03286	0.1330	0.2613		0.004164	0.01197	0.2919	0.03941

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
11.50	618.9	0.1951	0.1426	0.04654	0.07945	0.3021	0.2663		
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
	0.2550	0.5618	0.09121	0.006753	0.1707	0.001488			
	x(ilm)	Q(ilm)							
	0.3620	4.951e-5							
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2254	0.03249	0.1335	0.2612		0.004137	0.01195	0.2919	0.03947

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
11.60	621.7	0.1950	0.1436	0.04683	0.08039	0.3004	0.2671		
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
	0.2556	0.5614	0.09312	0.007028	0.1703	0.001560			
	x(ilm)	Q(ilm)							
	0.3620	4.893e-5							
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2253	0.03212	0.1340	0.2611		0.004111	0.01195	0.2919	0.03952

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)		
11.70	624.6	0.1948	0.1446	0.04711	0.08132	0.2988	0.2680		
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
	0.2563	0.5611	0.09506	0.007312	0.1699	0.001635			
	x(ilm)	Q(ilm)							
	0.3620	4.835e-5							
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2252	0.03174	0.1345	0.2610		0.004084	0.01195	0.2920	0.03958

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.80 627.3 0.1947 0.1456 0.04740 0.08225 0.2971 0.2689
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2569 0.5607 0.09704 0.007608 0.1695 0.001713
 x(ilm) Q(ilm)
 0.3620 4.778e-5

mode bi ep g pl ilm ru ky q H2O
 0.2251 0.03136 0.1350 0.2609 0 0.004057 0.01195 0.2920 0.03964

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 11.90 630.1 0.1946 0.1466 0.04767 0.08318 0.2955 0.2698
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2575 0.5603 0.09906 0.007915 0.1691 0.001793
 x(ilm) Q(ilm)
 0.3619 4.722e-5

mode bi ep g pl ilm ru ky q H2O
 0.2250 0.03098 0.1355 0.2608 0 0.004031 0.01196 0.2921 0.03969

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.00 632.9 0.1945 0.1476 0.04795 0.08410 0.2939 0.2706
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2581 0.5600 0.1011 0.008234 0.1686 0.001877
 x(ilm) Q(ilm)
 0.3618 4.666e-5

mode bi ep g pl ilm ru ky q H2O
 0.2249 0.03059 0.1360 0.2607 0 0.004004 0.01198 0.2921 0.03975

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.10 635.6 0.1944 0.1485 0.04822 0.08503 0.2923 0.2715
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2587 0.5596 0.1032 0.008566 0.1681 0.001963
 x(ilm) Q(ilm)
 0.3617 4.610e-5

mode bi ep g pl ilm ru ky q H2O
 0.2248 0.03019 0.1365 0.2605 0 0.003978 0.01200 0.2921 0.03981

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.20 638.3 0.1942 0.1494 0.04849 0.08595 0.2907 0.2724
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2592 0.5593 0.1053 0.008909 0.1676 0.002052
 x(ilm) Q(ilm)
 0.3616 4.555e-5

mode bi ep g pl ilm ru ky q H2O
 0.2247 0.02980 0.1371 0.2604 0 0.003952 0.01202 0.2922 0.03987

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.30 641.0 0.1941 0.1503 0.04876 0.08686 0.2892 0.2732
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2598 0.5590 0.1075 0.009266 0.1670 0.002143
x(ilm) Q(ilm)
0.3615 4.501e-5

mode bi ep g pl ilm ru ky q H2O
0.2246 0.02939 0.1376 0.2602 0 0.003926 0.01205 0.2922 0.03993

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.40 643.7 0.1939 0.1512 0.04903 0.08777 0.2876 0.2741
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2604 0.5587 0.1097 0.009637 0.1664 0.002238
x(ilm) Q(ilm)
0.3613 4.448e-5

mode bi ep g pl ilm ru ky q H2O
0.2245 0.02898 0.1382 0.2601 0 0.003900 0.01209 0.2923 0.03999

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.50 646.3 0.1938 0.1520 0.04929 0.08868 0.2861 0.2750
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2610 0.5584 0.1120 0.01002 0.1658 0.002336
x(ilm) Q(ilm)
0.3611 4.395e-5

mode bi ep g pl ilm ru ky q H2O
0.2244 0.02857 0.1387 0.2599 0 0.003875 0.01213 0.2923 0.04005

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.60 648.9 0.1936 0.1529 0.04955 0.08958 0.2846 0.2758
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2616 0.5581 0.1142 0.01042 0.1651 0.002437
x(ilm) Q(ilm)
0.3609 4.343e-5

mode bi ep g pl ilm ru ky q H2O
0.2243 0.02815 0.1393 0.2597 0 0.003849 0.01218 0.2923 0.04011

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
12.70 651.5 0.1935 0.1537 0.04981 0.09048 0.2831 0.2767
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2621 0.5578 0.1166 0.01083 0.1644 0.002541
x(ilm) Q(ilm)
0.3606 4.291e-5

mode bi ep g pl ilm ru ky q H2O
0.2242 0.02772 0.1399 0.2596 0 0.003824 0.01224 0.2924 0.04017

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.80 654.1 0.1933 0.1545 0.05007 0.09137 0.2817 0.2776
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2627 0.5575 0.1189 0.01126 0.1637 0.002648
 x(ilm) Q(ilm)
 0.3604 4.240e-5

mode bi ep g pl ilm ru ky q H2O
 0.2241 0.02729 0.1405 0.2594 0 0.003799 0.01230 0.2924 0.04023

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 12.90 656.7 0.1932 0.1553 0.05032 0.09226 0.2802 0.2784
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2633 0.5572 0.1213 0.01171 0.1630 0.002759
 x(ilm) Q(ilm)
 0.3601 4.190e-5

mode bi ep g pl ilm ru ky q H2O
 0.2240 0.02685 0.1411 0.2592 0 0.003774 0.01237 0.2924 0.04029

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 13.00 659.2 0.1930 0.1560 0.05057 0.09315 0.2788 0.2793
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2638 0.5569 0.1238 0.01217 0.1622 0.002872
 x(ilm) Q(ilm)
 0.3598 4.140e-5

mode bi ep g pl ilm ru ky q H2O
 0.2239 0.02640 0.1417 0.2590 0 0.003749 0.01244 0.2925 0.04035

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 13.10 661.7 0.1929 0.1568 0.05082 0.09403 0.2774 0.2801
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2644 0.5567 0.1263 0.01265 0.1614 0.002989
 x(ilm) Q(ilm)
 0.3595 4.091e-5

mode bi ep g pl ilm ru ky q H2O
 0.2238 0.02594 0.1423 0.2588 0 0.003724 0.01252 0.2925 0.04042

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 13.20 664.2 0.1927 0.1575 0.05107 0.09490 0.2760 0.2810
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2649 0.5564 0.1288 0.01314 0.1606 0.003110
 x(ilm) Q(ilm)
 0.3591 4.043e-5

mode bi ep g pl ilm ru ky q H2O
 0.2237 0.02548 0.1430 0.2585 0 0.003699 0.01260 0.2925 0.04048

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 13.30 666.6 0.1925 0.1582 0.05131 0.09577 0.2746 0.2819
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2655 0.5562 0.1313 0.01365 0.1597 0.003233
 x(ilm) Q(ilm)
 0.3588 3.995e-5

mode bi ep g pl ilm ru ky q H2O
 0.2236 0.02501 0.1436 0.2583 0 0.003675 0.01269 0.2926 0.04054

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 13.40 669.1 0.1923 0.1589 0.05155 0.09664 0.2733 0.2827
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2660 0.5559 0.1339 0.01419 0.1588 0.003360
 x(ilm) Q(ilm)
 0.3584 3.948e-5

mode bi ep g pl ilm ru ky q H2O
 0.2235 0.02452 0.1442 0.2581 0 0.003651 0.01279 0.2926 0.04061

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 13.50 671.5 0.1922 0.1595 0.05179 0.09749 0.2719 0.2836
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2666 0.5557 0.1366 0.01473 0.1579 0.003491
 x(ilm) Q(ilm)
 0.3580 3.901e-5

mode bi ep g pl ilm ru ky q H2O
 0.2234 0.02403 0.1449 0.2578 0 0.003627 0.01290 0.2926 0.04067

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 13.60 673.9 0.1920 0.1602 0.05203 0.09835 0.2706 0.2844
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2671 0.5554 0.1393 0.01530 0.1570 0.003624
 x(ilm) Q(ilm)
 0.3575 3.856e-5

mode bi ep g pl ilm ru ky q H2O
 0.2233 0.02353 0.1456 0.2576 0 0.003603 0.01300 0.2927 0.04074

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 13.70 676.3 0.1918 0.1608 0.05226 0.09919 0.2693 0.2853
 Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
 0.2676 0.5552 0.1420 0.01589 0.1560 0.003762
 x(ilm) Q(ilm)
 0.3571 3.810e-5

mode bi ep g pl ilm ru ky q H2O
 0.2232 0.02302 0.1463 0.2573 0 0.003579 0.01312 0.2927 0.04081

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
13.80	678.6	0.1916	0.1614	0.05249	0.1000	0.2680	0.2861			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2682	0.5550	0.1447	0.01650	0.1550	0.003903				
	x(ilm)	Q(ilm)								
	0.3566	3.766e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2231	0.02250	0.1469	0.2571		0	0.003556	0.01324	0.2927	0.04087

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
13.90	680.9	0.1914	0.1620	0.05272	0.1009	0.2668	0.2869			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2687	0.5548	0.1475	0.01713	0.1540	0.004047				
	x(ilm)	Q(ilm)								
	0.3561	3.722e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2230	0.02197	0.1476	0.2568		0	0.003533	0.01337	0.2928	0.04094

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.00	683.2	0.1912	0.1626	0.05295	0.1017	0.2655	0.2878			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2692	0.5546	0.1503	0.01777	0.1530	0.004195				
	x(ilm)	Q(ilm)								
	0.3556	3.678e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2228	0.02142	0.1484	0.2565		0	0.003510	0.01350	0.2928	0.04101

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.10	685.5	0.1910	0.1631	0.05318	0.1025	0.2643	0.2886			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2697	0.5544	0.1532	0.01844	0.1519	0.004347				
	x(ilm)	Q(ilm)								
	0.3551	3.636e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2227	0.02087	0.1491	0.2563		0	0.003487	0.01364	0.2928	0.04108

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.20	687.8	0.1909	0.1636	0.05340	0.1033	0.2631	0.2895			
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)				
	0.2702	0.5542	0.1560	0.01913	0.1509	0.004502				
	x(ilm)	Q(ilm)								
	0.3546	3.594e-5								
mode	bi	ep	g	pl	ilm	ru	ky	q	H2O	
	0.2226	0.02030	0.1498	0.2560		0	0.003465	0.01379	0.2929	0.04115

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.30 690.0 0.1907 0.1641 0.05362 0.1042 0.2619 0.2903
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2707 0.5540 0.1590 0.01985 0.1498 0.004661
x(ilm) Q(ilm)
0.3540 3.552e-5

mode bi ep g pl ilm ru ky q H2O
0.2225 0.01972 0.1506 0.2557 0 0.003442 0.01394 0.2929 0.04122

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.40 692.2 0.1905 0.1646 0.05384 0.1050 0.2607 0.2911
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2712 0.5538 0.1619 0.02058 0.1486 0.004824
x(ilm) Q(ilm)
0.3535 3.511e-5

mode bi ep g pl ilm ru ky q H2O
0.2224 0.01913 0.1513 0.2554 0 0.003420 0.01410 0.2929 0.04129

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.50 694.4 0.1903 0.1651 0.05406 0.1058 0.2596 0.2920
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2717 0.5536 0.1649 0.02134 0.1475 0.004991
x(ilm) Q(ilm)
0.3529 3.471e-5

mode bi ep g pl ilm ru ky q H2O
0.2223 0.01853 0.1521 0.2551 0 0.003398 0.01426 0.2930 0.04136

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.60 696.5 0.1901 0.1656 0.05428 0.1066 0.2584 0.2928
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2722 0.5534 0.1679 0.02212 0.1464 0.005161
x(ilm) Q(ilm)
0.3523 3.431e-5

mode bi ep g pl ilm ru ky q H2O
0.2222 0.01791 0.1529 0.2548 0 0.003376 0.01443 0.2930 0.04144

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
14.70 698.7 0.1899 0.1660 0.05449 0.1074 0.2573 0.2936
Q(ep) x(g) z(g) f(g) ca(pl) k(pl)
0.2727 0.5532 0.1710 0.02292 0.1452 0.005335
x(ilm) Q(ilm)
0.3517 3.392e-5

mode bi ep g pl ilm ru ky q H2O
0.2220 0.01728 0.1537 0.2545 0 0.003355 0.01460 0.2930 0.04151

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.80	700.8	0.1897	0.1664	0.05470	0.1081	0.2562	0.2944			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2732	0.5530	0.1740	0.02375	0.1440	0.005514			
		x(ilm)	Q(ilm)							
		0.3511	3.354e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2219	0.01663	0.1545	0.2542		0	0.003333	0.01478	0.2930 0.04158

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
14.90	702.9	0.1895	0.1668	0.05491	0.1089	0.2551	0.2953			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2737	0.5528	0.1771	0.02460	0.1428	0.005696			
		x(ilm)	Q(ilm)							
		0.3504	3.316e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2218	0.01597	0.1553	0.2539		0	0.003312	0.01497	0.2931 0.04166

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.00	704.9	0.1892	0.1672	0.05512	0.1097	0.2540	0.2961			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2741	0.5527	0.1802	0.02547	0.1416	0.005882			
		x(ilm)	Q(ilm)							
		0.3498	3.279e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2217	0.01529	0.1561	0.2536		0	0.003291	0.01516	0.2931 0.04174

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.10	707.0	0.1890	0.1676	0.05532	0.1105	0.2530	0.2969			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2746	0.5525	0.1834	0.02637	0.1403	0.006072			
		x(ilm)	Q(ilm)							
		0.3491	3.242e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2216	0.01460	0.1570	0.2533		0	0.003271	0.01536	0.2931 0.04182

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.20	709.0	0.1888	0.1679	0.05553	0.1112	0.2519	0.2977			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2751	0.5523	0.1866	0.02729	0.1391	0.006266			
		x(ilm)	Q(ilm)							
		0.3484	3.206e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2214	0.01390	0.1578	0.2530		0	0.003250	0.01556	0.2931 0.04189

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.30	711.0	0.1886	0.1683	0.05573	0.1120	0.2509	0.2985			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2756	0.5522	0.1898	0.02823	0.1378	0.006465			
		x(ilm)	Q(ilm)							
		0.3477	3.170e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2213	0.01317	0.1587	0.2527		0	0.003230	0.01576	0.2932 0.04197

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.40	713.0	0.1884	0.1686	0.05593	0.1127	0.2499	0.2993			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2760	0.5520	0.1930	0.02920	0.1366	0.006668			
		x(ilm)	Q(ilm)							
		0.3470	3.135e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2212	0.01243	0.1596	0.2524		0	0.003210	0.01598	0.2932 0.04206

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.50	714.9	0.1882	0.1689	0.05613	0.1135	0.2489	0.3001			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2765	0.5518	0.1962	0.03020	0.1353	0.006875			
		x(ilm)	Q(ilm)							
		0.3463	3.100e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2211	0.01168	0.1605	0.2521		0	0.003190	0.01619	0.2932 0.04214

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.60	716.9	0.1880	0.1692	0.05633	0.1142	0.2479	0.3009			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2769	0.5516	0.1995	0.03122	0.1340	0.007086			
		x(ilm)	Q(ilm)							
		0.3456	3.066e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2209	0.01091	0.1614	0.2517		0	0.003170	0.01641	0.2932 0.04222

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)			
15.70	718.8	0.1878	0.1695	0.05652	0.1149	0.2470	0.3017			
		Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)			
		0.2774	0.5515	0.2027	0.03226	0.1327	0.007302			
		x(ilm)	Q(ilm)							
		0.3448	3.033e-5							

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2208	0.01012	0.1623	0.2514		0	0.003150	0.01664	0.2933 0.04231

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
15.80	720.7	0.1876	0.1698	0.05672	0.1157	0.2460	0.3025
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2778	0.5513	0.2060	0.03333	0.1315	0.007522	
	x(ilm)	Q(ilm)					
	0.3441	3.000e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2207	0.009312	0.1632	0.2511		0	0.003131	0.01687	0.2933 0.04239

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
15.90	722.6	0.1874	0.1701	0.05691	0.1164	0.2451	0.3033
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2783	0.5511	0.2093	0.03442	0.1302	0.007747	
	x(ilm)	Q(ilm)					
	0.3433	2.967e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2205	0.008489	0.1642	0.2508		0	0.003112	0.01711	0.2933 0.04248

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.00	724.5	0.1872	0.1703	0.05710	0.1171	0.2441	0.3041
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2787	0.5510	0.2127	0.03554	0.1289	0.007977	
	x(ilm)	Q(ilm)					
	0.3426	2.935e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2204	0.007647	0.1651	0.2505		0	0.003093	0.01735	0.2933 0.04257

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.10	726.3	0.1869	0.1706	0.05730	0.1178	0.2432	0.3049
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2791	0.5508	0.2160	0.03668	0.1276	0.008212	
	x(ilm)	Q(ilm)					
	0.3418	2.904e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2203	0.006787	0.1661	0.2502		0	0.003074	0.01759	0.2934 0.04266

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.20	728.1	0.1867	0.1708	0.05749	0.1186	0.2423	0.3057
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2795	0.5506	0.2194	0.03784	0.1263	0.008451	
	x(ilm)	Q(ilm)					
	0.3410	2.873e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2201	0.005909	0.1671	0.2499		0	0.003055	0.01784	0.2934 0.04275

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.30	729.9	0.1865	0.1710	0.05767	0.1193	0.2414	0.3065
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2800	0.5504	0.2227	0.03903	0.1250	0.008696	
	x(ilm)	Q(ilm)					
	0.3402	2.842e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2200	0.005012	0.1681	0.2496		0	0.003037	0.01810	0.2934 0.04284

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.40	731.7	0.1863	0.1713	0.05786	0.1200	0.2405	0.3073
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2804	0.5502	0.2261	0.04025	0.1237	0.008945	
	x(ilm)	Q(ilm)					
	0.3394	2.812e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2198	0.004096	0.1691	0.2493		0	0.003018	0.01835	0.2934 0.04293

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.50	733.5	0.1861	0.1715	0.05805	0.1207	0.2397	0.3081
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2808	0.5501	0.2295	0.04149	0.1224	0.009200	
	x(ilm)	Q(ilm)					
	0.3386	2.783e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2197	0.003162	0.1701	0.2490		0	0.003000	0.01862	0.2934 0.04303

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.60	735.3	0.1859	0.1717	0.05823	0.1214	0.2388	0.3089
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2812	0.5499	0.2329	0.04275	0.1211	0.009460	
	x(ilm)	Q(ilm)					
	0.3378	2.754e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2196	0.002208	0.1711	0.2487		0	0.002982	0.01888	0.2935 0.04312

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)
16.70	737.1	0.1857	0.1719	0.05842	0.1221	0.2380	0.3096
	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.2816	0.5497	0.2363	0.04404	0.1198	0.009726	
	x(ilm)	Q(ilm)					
	0.3370	2.725e-5					

mode	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.2194	0.001234	0.1722	0.2484		0	0.002964	0.01915	0.2935 0.04322

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P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.80    738.8  0.1855  0.1720  0.05860  0.1228  0.2371  0.3104
          Q(ep)  x(g)   z(g)   f(g)  ca(pl)  k(pl)
          0.2820  0.5495  0.2397  0.04535  0.1185  0.009998
          x(ilm)  Q(ilm)
          0.3361  2.697e-5

mode     bi     ep     g     pl     ilm     ru     ky     q     H2O
0.21930  0.002406  0.1732  0.2481  0  0.002946  0.01942  0.2935  0.04332
calcs use:

composition (from script)
H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.74    739.8  0.1850  0.1732  0.05876  0.1231  0.2360  0.3104
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2819  0.5482  0.2399  0.04552  0.1849  0.9935
          na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)  bi
          0.9433  0.1215  0.01003  0.3369  2.707e-5  0.2185

mode     bi     ep     g     mu     pl     ilm     ru     ky     q     H2O
0.2185    0  0.1742  0.01230  0.2401  0  0.002950  0.01526  0.2954  0.04138
calcs use:

composition (from script)
H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : bi, ep, g, mu, pl, ru, ky, q, H2O
-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  f(ep)
16.90    741.7  0.1826  0.1735  0.05632  0.1241  0.2335  0.3034
          Q(ep)  x(g)   z(g)   f(g)  fe(mu)  y(mu)
          0.2766  0.5451  0.2482  0.04606  0.1826  0.9932
          na(mu)  ca(pl)  k(pl)
          0.9415  0.1207  0.01028

mode     bi     ep     g     mu     pl     ru     ky     q     H2O
0.2153    0  0.1793  0.06194  0.2041  0.002972  0  0.3029  0.03351
calcs use:

composition (from script)
H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>

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phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.35 734.1 0.1833 0.1733 0.05858 0.1209 0.2363 0.5470
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2422 0.04533 0.1815 0.9942 0.9484 0.1314
k(pl) x(ilm) Q(ilm)
0.009068 0.3370 2.744e-5

mode bi g mu pl ilm ru ky q H2O
0.2166 0.1764 0.05670 0.2099 0 0.0030390.0008452 0.3023 0.03415

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 734.8 0.1835 0.1732 0.05861 0.1212 0.2362 0.5471
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2419 0.04535 0.1819 0.9941 0.9478 0.1301
k(pl) x(ilm) Q(ilm)
0.009187 0.3370 2.739e-5

mode bi g mu pl ilm ru ky q H2O
0.2168 0.1762 0.05134 0.2136 0 0.003029 0.002578 0.3015 0.03502

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.45 735.6 0.1837 0.1732 0.05863 0.1215 0.2362 0.5472
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2416 0.04537 0.1823 0.9940 0.9472 0.1288
k(pl) x(ilm) Q(ilm)
0.009307 0.3370 2.734e-5

mode bi g mu pl ilm ru ky q H2O
0.2170 0.1759 0.04590 0.2173 0 0.003018 0.004342 0.3006 0.03591

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.50 736.3 0.1839 0.1732 0.05865 0.1218 0.2361 0.5474
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2413 0.04540 0.1828 0.9939 0.9465 0.1275
k(pl) x(ilm) Q(ilm)
0.009429 0.3369 2.729e-5

mode bi g mu pl ilm ru ky q H2O
0.2172 0.1756 0.04035 0.2210 0 0.003006 0.006140 0.2997 0.03682

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.55 737.0 0.1841 0.1732 0.05868 0.1220 0.2361 0.5475
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2410 0.04542 0.1832 0.9938 0.9459 0.1262
k(pl) x(ilm) Q(ilm)
0.009552 0.3369 2.724e-5

mode bi g mu pl ilm ru ky q H2O

0.2175 0.1754 0.03471 0.2249 0 0.002995 0.007972 0.2989 0.03774

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.60 737.7 0.1844 0.1732 0.05870 0.1223 0.2361 0.5477
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2407 0.04544 0.1836 0.9938 0.9452 0.1250
k(pl) x(ilm) Q(ilm)
0.009677 0.3369 2.719e-5

mode bi g mu pl ilm ru ky q H2O
0.2177 0.1751 0.02896 0.2288 0 0.002983 0.009840 0.2980 0.03868

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.65 738.5 0.1846 0.1732 0.05872 0.1226 0.2361 0.5478
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2404 0.04547 0.1841 0.9937 0.9445 0.1237
k(pl) x(ilm) Q(ilm)
0.009803 0.3369 2.715e-5

mode bi g mu pl ilm ru ky q H2O
0.2180 0.1748 0.02310 0.2328 0 0.002972 0.01174 0.2970 0.03963

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.70 739.2 0.1848 0.1732 0.05874 0.1229 0.2360 0.5480
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2401 0.04550 0.1845 0.9936 0.9438 0.1225
k(pl) x(ilm) Q(ilm)
0.009931 0.3369 2.710e-5

mode bi g mu pl ilm ru ky q H2O
0.2182 0.1745 0.01713 0.2368 0 0.002959 0.01368 0.2961 0.04060

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.75 739.9 0.1851 0.1732 0.05876 0.1231 0.2360 0.5482
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2399 0.04552 0.1850 0.9935 0.9431 0.1213
k(pl) x(ilm) Q(ilm)
0.01006 0.3369 2.706e-5

mode bi g mu pl ilm ru ky q H2O
0.2185 0.1741 0.01105 0.2409 0 0.002947 0.01566 0.2952 0.04159

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.80 740.6 0.1853 0.1732 0.05878 0.1234 0.2360 0.5485
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2396 0.04555 0.1854 0.9934 0.9424 0.1201
k(pl) x(ilm) Q(ilm)
0.01019 0.3369 2.702e-5

mode bi g mu pl ilm ru ky q H2O

0.2188 0.1738 0.004854 0.2451 0 0.002935 0.01768 0.2942 0.04259
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, g, mu, pl, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.00 729.2 0.1835 0.1730 0.05999 0.1190 0.2379 0.5479
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2386 0.04482 0.1805 0.9947 0.9522 0.1388
k(pl)
0.008343

mode bi g mu pl ru ky q H2O
0.2172 0.1750 0.05762 0.2107 0.003088 0 0.3026 0.03388

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.05 729.9 0.1835 0.1731 0.05977 0.1192 0.2377 0.5478
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2392 0.04490 0.1807 0.9946 0.9516 0.1378
k(pl)
0.008443

mode bi g mu pl ru ky q H2O
0.2171 0.1752 0.05789 0.2103 0.003081 0 0.3026 0.03385

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.10 730.6 0.1834 0.1731 0.05954 0.1195 0.2374 0.5476
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2398 0.04498 0.1808 0.9946 0.9511 0.1367
k(pl)
0.008544

mode bi g mu pl ru ky q H2O
0.2170 0.1755 0.05816 0.2099 0.003074 0 0.3026 0.03383

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.15 731.3 0.1834 0.1731 0.05932 0.1198 0.2372 0.5475
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2404 0.04506 0.1809 0.9945 0.9506 0.1357
k(pl)
0.008646

mode bi g mu pl ru ky q H2O
0.2169 0.1757 0.05842 0.2095 0.003068 0 0.3027 0.03380

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

16.20 732.0 0.1833 0.1732 0.05910 0.1201 0.2369 0.5473
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2410 0.04514 0.1810 0.9944 0.9500 0.1346
k(pl)

0.008749

mode bi g mu pl ru ky q H2O
0.2168 0.1759 0.05868 0.2091 0.003061 0 0.3027 0.03378

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.25 732.7 0.1833 0.1732 0.05889 0.1204 0.2367 0.5472
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2416 0.04521 0.1811 0.9943 0.9495 0.1336
k(pl)

0.008853

mode bi g mu pl ru ky q H2O
0.2167 0.1762 0.05893 0.2087 0.003055 0 0.3027 0.03375

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.30 733.4 0.1832 0.1732 0.05868 0.1207 0.2364 0.5470
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2421 0.04529 0.1812 0.9943 0.9489 0.1326
k(pl)

0.008957

mode bi g mu pl ru ky q H2O
0.2166 0.1764 0.05918 0.2083 0.003048 0 0.3027 0.03373

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.35 734.1 0.1832 0.1733 0.05847 0.1210 0.2362 0.5469
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2427 0.04536 0.1814 0.9942 0.9484 0.1316
k(pl)

0.009062

mode bi g mu pl ru ky q H2O
0.2165 0.1767 0.05943 0.2079 0.003042 0 0.3028 0.03371

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 734.8 0.1831 0.1733 0.05826 0.1212 0.2359 0.5467
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2432 0.04543 0.1815 0.9941 0.9478 0.1306
k(pl)

0.009168

mode bi g mu pl ru ky q H2O
0.2164 0.1769 0.05967 0.2075 0.003035 0 0.3028 0.03369

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

16.45 735.5 0.1831 0.1733 0.05806 0.1215 0.2357 0.5466
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2438 0.04550 0.1816 0.9940 0.9472 0.1295
k(pl)

0.009275

mode bi g mu pl ru ky q H2O
0.2163 0.1771 0.05992 0.2072 0.003029 0 0.3028 0.03367

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.50 736.1 0.1830 0.1734 0.05785 0.1218 0.2355 0.5464
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2443 0.04557 0.1817 0.9939 0.9466 0.1285
k(pl)

0.009382

mode bi g mu pl ru ky q H2O
0.2162 0.1774 0.06015 0.2068 0.003022 0 0.3028 0.03365

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.55 736.8 0.1830 0.1734 0.05766 0.1221 0.2352 0.5462
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2448 0.04563 0.1818 0.9939 0.9460 0.1275
k(pl)

0.00949

mode bi g mu pl ru ky q H2O
0.2161 0.1776 0.06039 0.2065 0.003016 0 0.3028 0.03363

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.60 737.5 0.1829 0.1734 0.05746 0.1224 0.2350 0.5461
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2453 0.04570 0.1819 0.9938 0.9454 0.1266
k(pl)

0.0096

mode bi g mu pl ru ky q H2O
0.2160 0.1779 0.06062 0.2061 0.003010 0 0.3028 0.03361

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.65 738.2 0.1828 0.1734 0.05727 0.1227 0.2347 0.5459
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2458 0.04576 0.1821 0.9937 0.9448 0.1256
k(pl)

0.009709

mode bi g mu pl ru ky q H2O
0.2158 0.1781 0.06084 0.2058 0.003003 0 0.3029 0.03359

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

16.70 738.9 0.1828 0.1734 0.05708 0.1229 0.2345 0.5458
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2463 0.04582 0.1822 0.9936 0.9442 0.1246
k(pl)
0.00982

mode bi g mu pl ru ky q H2O
0.2157 0.1783 0.06107 0.2054 0.002997 0 0.3029 0.03357

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.75 739.6 0.1827 0.1734 0.05689 0.1232 0.2342 0.5456
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2468 0.04588 0.1823 0.9935 0.9435 0.1236
k(pl)
0.009931

mode bi g mu pl ru ky q H2O
0.2156 0.1786 0.06129 0.2051 0.002991 0 0.3029 0.03355

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.80 740.3 0.1827 0.1735 0.05670 0.1235 0.2340 0.5454
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2472 0.04594 0.1824 0.9934 0.9428 0.1227
k(pl)
0.01004

mode bi g mu pl ru ky q H2O
0.2155 0.1788 0.06151 0.2048 0.002985 0 0.3029 0.03354

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.85 741.0 0.1826 0.1735 0.05652 0.1238 0.2338 0.5452
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2477 0.04600 0.1825 0.9933 0.9422 0.1217
k(pl)
0.01016

mode bi g mu pl ru ky q H2O
0.2154 0.1790 0.06172 0.2045 0.002978 0 0.3029 0.03352

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.90 741.6 0.1826 0.1735 0.05634 0.1241 0.2335 0.5451
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2481 0.04606 0.1826 0.9932 0.9415 0.1208
k(pl)
0.01027

mode bi g mu pl ru ky q H2O
0.2153 0.1793 0.06193 0.2041 0.002972 0 0.3029 0.03351

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

16.95 742.3 0.1825 0.1735 0.05616 0.1243 0.2333 0.5449
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2486 0.04612 0.1827 0.9931 0.9408 0.1198
k(pl)
0.01038

mode bi g mu pl ru ky q H2O
0.2152 0.1795 0.06214 0.2038 0.002966 0 0.3029 0.03349

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.00 743.0 0.1825 0.1735 0.05598 0.1246 0.2330 0.5447
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2490 0.04617 0.1829 0.9930 0.9401 0.1189
k(pl)
0.0105

mode bi g mu pl ru ky q H2O
0.2150 0.1797 0.06234 0.2035 0.002960 0 0.3029 0.03348

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.05 743.7 0.1824 0.1735 0.05581 0.1249 0.2328 0.5445
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2494 0.04622 0.1830 0.9929 0.9394 0.1180
k(pl)
0.01062

mode bi g mu pl ru ky q H2O
0.2149 0.1799 0.06254 0.2032 0.002954 0 0.3029 0.03347

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.10 744.4 0.1823 0.1735 0.05563 0.1252 0.2326 0.5443
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2498 0.04628 0.1831 0.9928 0.9387 0.1171
k(pl)
0.01073

mode bi g mu pl ru ky q H2O
0.2148 0.1802 0.06274 0.2029 0.002948 0 0.3029 0.03346

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.15 745.1 0.1823 0.1735 0.05546 0.1255 0.2323 0.5442
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2502 0.04633 0.1832 0.9927 0.9379 0.1161
k(pl)
0.01085

mode bi g mu pl ru ky q H2O
0.2147 0.1804 0.06293 0.2026 0.002942 0 0.3030 0.03344

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

17.20 745.7 0.1822 0.1735 0.05530 0.1257 0.2321 0.5440
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2506 0.04638 0.1833 0.9926 0.9371 0.1152
k(pl)
0.01097

mode bi g mu pl ru ky q H2O
0.2145 0.1806 0.06312 0.2024 0.002936 0 0.3030 0.03343

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.25 746.4 0.1822 0.1735 0.05513 0.1260 0.2318 0.5438
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2510 0.04643 0.1834 0.9925 0.9364 0.1143
k(pl)
0.01109

mode bi g mu pl ru ky q H2O
0.2144 0.1809 0.06331 0.2021 0.002930 0 0.3030 0.03342

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.30 747.1 0.1821 0.1735 0.05497 0.1263 0.2316 0.5436
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2514 0.04647 0.1835 0.9924 0.9356 0.1134
k(pl)
0.01121

mode bi g mu pl ru ky q H2O
0.2143 0.1811 0.06350 0.2018 0.002925 0 0.3030 0.03342

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.35 747.8 0.1820 0.1735 0.05481 0.1266 0.2314 0.5434
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2517 0.04652 0.1836 0.9923 0.9348 0.1125
k(pl)
0.01133

mode bi g mu pl ru ky q H2O
0.2142 0.1813 0.06368 0.2016 0.002919 0 0.3030 0.03341

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.40 748.5 0.1820 0.1735 0.05465 0.1269 0.2311 0.5432
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2521 0.04657 0.1837 0.9922 0.9339 0.1117
k(pl)
0.01145

mode bi g mu pl ru ky q H2O
0.2140 0.1816 0.06386 0.2013 0.002913 0 0.3030 0.03340

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

17.45 749.2 0.1819 0.1735 0.05449 0.1271 0.2309 0.5430
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2525 0.04661 0.1838 0.9921 0.9331 0.1108
k(pl)
0.01157

mode bi g mu pl ru ky q H2O
0.2139 0.1818 0.06403 0.2010 0.002907 0 0.3029 0.03339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.50 749.8 0.1818 0.1734 0.05433 0.1274 0.2306 0.5428
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2528 0.04665 0.1839 0.9920 0.9322 0.1099
k(pl)
0.01169

mode bi g mu pl ru ky q H2O
0.2138 0.1820 0.06420 0.2008 0.002902 0 0.3029 0.03339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.55 750.5 0.1818 0.1734 0.05418 0.1277 0.2304 0.5426
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2531 0.04670 0.1840 0.9918 0.9313 0.1091
k(pl)
0.01182

mode bi g mu pl ru ky q H2O
0.2136 0.1822 0.06437 0.2005 0.002896 0 0.3029 0.03338

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.60 751.2 0.1817 0.1734 0.05403 0.1280 0.2302 0.5424
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2535 0.04674 0.1841 0.9917 0.9304 0.1082
k(pl)
0.01194

mode bi g mu pl ru ky q H2O
0.2135 0.1825 0.06454 0.2003 0.002891 0 0.3029 0.03338

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.65 751.9 0.1817 0.1734 0.05388 0.1283 0.2299 0.5421
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2538 0.04678 0.1842 0.9916 0.9295 0.1074
k(pl)
0.01207

mode bi g mu pl ru ky q H2O
0.2133 0.1827 0.06470 0.2001 0.002885 0 0.3029 0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

17.70 752.5 0.1816 0.1734 0.05373 0.1285 0.2297 0.5419
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2541 0.04682 0.1843 0.9915 0.9285 0.1065
k(pl)
0.01219

mode bi g mu pl ru ky q H2O
0.2132 0.1829 0.06486 0.1998 0.002880 0 0.3029 0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.75 753.2 0.1815 0.1734 0.05359 0.1288 0.2294 0.5417
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2544 0.04685 0.1844 0.9913 0.9275 0.1057
k(pl)
0.01232

mode bi g mu pl ru ky q H2O
0.2131 0.1832 0.06501 0.1996 0.002874 0 0.3029 0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.80 753.9 0.1814 0.1733 0.05344 0.1291 0.2292 0.5415
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2547 0.04689 0.1845 0.9912 0.9265 0.1048
k(pl)
0.01245

mode bi g mu pl ru ky q H2O
0.2129 0.1834 0.06517 0.1994 0.002869 0 0.3029 0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.85 754.6 0.1814 0.1733 0.05330 0.1294 0.2290 0.5413
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2549 0.04693 0.1846 0.9911 0.9255 0.1040
k(pl)
0.01257

mode bi g mu pl ru ky q H2O
0.2128 0.1836 0.06532 0.1992 0.002864 0 0.3029 0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.90 755.2 0.1813 0.1733 0.05316 0.1297 0.2287 0.5410
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2552 0.04696 0.1847 0.9909 0.9244 0.1032
k(pl)
0.0127

mode bi g mu pl ru ky q H2O
0.2126 0.1839 0.06546 0.1990 0.002858 0 0.3029 0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

17.95 755.9 0.1812 0.1733 0.05303 0.1299 0.2285 0.5408
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2555 0.04700 0.1848 0.9908 0.9233 0.1024
k(pl)
0.01283

mode bi g mu pl ru ky q H2O
0.2124 0.1841 0.06560 0.1988 0.002853 0 0.3028 0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.00 756.6 0.1812 0.1732 0.05289 0.1302 0.2282 0.5405
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2557 0.04703 0.1849 0.9906 0.9222 0.1016
k(pl)
0.01296

mode bi g mu pl ru ky q H2O
0.2123 0.1843 0.06574 0.1986 0.002848 0 0.3028 0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.05 757.3 0.1811 0.1732 0.05276 0.1305 0.2280 0.5403
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2560 0.04706 0.1850 0.9905 0.9210 0.1008
k(pl)
0.01309

mode bi g mu pl ru ky q H2O
0.2121 0.1846 0.06588 0.1984 0.002843 0 0.3028 0.03337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.10 757.9 0.1810 0.1732 0.05263 0.1308 0.2277 0.5401
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2562 0.04709 0.1850 0.9903 0.9198 0.09998
k(pl)
0.01322

mode bi g mu pl ru ky q H2O
0.2120 0.1848 0.06601 0.1982 0.002838 0 0.3028 0.03338

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.15 758.6 0.1809 0.1731 0.05250 0.1310 0.2275 0.5398
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2564 0.04712 0.1851 0.9902 0.9186 0.09919
k(pl)
0.01336

mode bi g mu pl ru ky q H2O
0.2118 0.1851 0.06614 0.1981 0.002834 0 0.3027 0.03338

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

18.20 759.3 0.1808 0.1731 0.05237 0.1313 0.2272 0.5395
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2566 0.04715 0.1852 0.9900 0.9173 0.09841
k(pl)
0.01349

mode bi g mu pl ru ky q H2O
0.2116 0.1853 0.06627 0.1979 0.002829 0 0.3027 0.03339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.25 760.0 0.1808 0.1731 0.05224 0.1316 0.2270 0.5393
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2568 0.04718 0.1853 0.9898 0.9160 0.09763
k(pl)
0.01362

mode bi g mu pl ru ky q H2O
0.2114 0.1855 0.06639 0.1977 0.002824 0 0.3027 0.03339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.30 760.6 0.1807 0.1730 0.05212 0.1319 0.2268 0.5390
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2570 0.04720 0.1854 0.9896 0.9146 0.09686
k(pl)
0.01375

mode bi g mu pl ru ky q H2O
0.2112 0.1858 0.06650 0.1976 0.002820 0 0.3027 0.03340

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.35 761.3 0.1806 0.1730 0.05199 0.1322 0.2265 0.5387
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2572 0.04723 0.1854 0.9895 0.9132 0.09609
k(pl)
0.01389

mode bi g mu pl ru ky q H2O
0.2111 0.1860 0.06662 0.1974 0.002815 0 0.3026 0.03341

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.40 762.0 0.1805 0.1729 0.05187 0.1324 0.2262 0.5384
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2574 0.04725 0.1855 0.9893 0.9117 0.09533
k(pl)
0.01402

mode bi g mu pl ru ky q H2O
0.2109 0.1863 0.06673 0.1973 0.002811 0 0.3026 0.03342

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

18.45 762.7 0.1804 0.1729 0.05176 0.1327 0.2260 0.5381
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2576 0.04727 0.1856 0.9891 0.9101 0.09458
k(pl)
0.01416

mode bi g mu pl ru ky q H2O
0.2107 0.1865 0.06683 0.1972 0.002806 0 0.3025 0.03344

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.50 763.3 0.1803 0.1728 0.05164 0.1330 0.2257 0.5378
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2577 0.04729 0.1856 0.9889 0.9085 0.09383
k(pl)
0.01429

mode bi g mu pl ru ky q H2O
0.2105 0.1868 0.06693 0.1971 0.002802 0 0.3025 0.03345

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.55 764.0 0.1802 0.1728 0.05153 0.1333 0.2255 0.5375
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2578 0.04731 0.1857 0.9886 0.9068 0.09308
k(pl)
0.01443

mode bi g mu pl ru ky q H2O
0.2102 0.1871 0.06703 0.1969 0.002798 0 0.3025 0.03346

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.60 764.7 0.1801 0.1727 0.05141 0.1335 0.2252 0.5372
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2580 0.04733 0.1858 0.9884 0.9050 0.09234
k(pl)
0.01457

mode bi g mu pl ru ky q H2O
0.2100 0.1873 0.06712 0.1968 0.002794 0 0.3024 0.03348

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.65 765.4 0.1800 0.1727 0.05130 0.1338 0.2250 0.5369
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2581 0.04735 0.1858 0.9882 0.9031 0.09161
k(pl)
0.0147

mode bi g mu pl ru ky q H2O
0.2098 0.1876 0.06721 0.1967 0.002791 0 0.3024 0.03350

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

18.70 766.0 0.1799 0.1726 0.05120 0.1341 0.2247 0.5366
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2582 0.04736 0.1858 0.9879 0.9011 0.09088
k(pl)
0.01484

mode bi g mu pl ru ky q H2O
0.2096 0.1879 0.06729 0.1967 0.002787 0 0.3023 0.03352

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.75 766.7 0.1797 0.1725 0.05109 0.1344 0.2244 0.5362
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2583 0.04737 0.1859 0.9877 0.8990 0.09016
k(pl)
0.01498

mode bi g mu pl ru ky q H2O
0.2093 0.1882 0.06736 0.1966 0.002784 0 0.3022 0.03354

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.80 767.4 0.1796 0.1725 0.05099 0.1346 0.2241 0.5358
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2583 0.04738 0.1859 0.9874 0.8967 0.08944
k(pl)
0.01511

mode bi g mu pl ru ky q H2O
0.2091 0.1885 0.06743 0.1965 0.002781 0 0.3022 0.03357

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.85 768.1 0.1795 0.1724 0.05089 0.1349 0.2239 0.5354
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2584 0.04739 0.1859 0.9871 0.8943 0.08872
k(pl)
0.01525

mode bi g mu pl ru ky q H2O
0.2088 0.1888 0.06749 0.1965 0.002778 0 0.3021 0.03360

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.90 768.7 0.1793 0.1723 0.05079 0.1352 0.2236 0.5350
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2584 0.04740 0.1860 0.9868 0.8917 0.08801
k(pl)
0.01538

mode bi g mu pl ru ky q H2O
0.2085 0.1891 0.06754 0.1965 0.002776 0 0.3020 0.03363

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

18.95 769.4 0.1792 0.1722 0.05070 0.1355 0.2233 0.5346
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2584 0.04740 0.1860 0.9865 0.8888 0.08730
k(pl)
0.01552

mode bi g mu pl ru ky q H2O
0.2082 0.1894 0.06759 0.1965 0.002774 0 0.3019 0.03366

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.00 770.1 0.1790 0.1721 0.05061 0.1357 0.2230 0.5342
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2583 0.04740 0.1860 0.9861 0.8857 0.08660
k(pl)
0.01565

mode bi g mu pl ru ky q H2O
0.2079 0.1897 0.06762 0.1965 0.002772 0 0.3018 0.03370

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.05 770.8 0.1788 0.1720 0.05053 0.1360 0.2226 0.5337
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2582 0.04740 0.1859 0.9857 0.8822 0.08589
k(pl)
0.01578

mode bi g mu pl ru ky q H2O
0.2075 0.1901 0.06764 0.1965 0.002771 0 0.3017 0.03375

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.10 771.4 0.1786 0.1719 0.05045 0.1363 0.2223 0.5331
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2581 0.04739 0.1859 0.9852 0.8782 0.08519
k(pl)
0.01591

mode bi g mu pl ru ky q H2O
0.2071 0.1905 0.06764 0.1966 0.002771 0 0.3016 0.03380

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.15 772.1 0.1784 0.1718 0.05038 0.1365 0.2220 0.5325
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2579 0.04737 0.1858 0.9847 0.8735 0.08449
k(pl)
0.01604

mode bi g mu pl ru ky q H2O
0.2066 0.1909 0.06762 0.1967 0.002771 0 0.3015 0.03386

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

19.20 772.8 0.1781 0.1716 0.05032 0.1368 0.2216 0.5318
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2577 0.04734 0.1857 0.9840 0.8678 0.08377
k(pl)
0.01615

mode bi g mu pl ru ky q H2O
0.2061 0.1914 0.06757 0.1969 0.002774 0 0.3013 0.03394

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.25 773.4 0.1777 0.1714 0.05028 0.1371 0.2211 0.5309
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2572 0.04730 0.1854 0.9832 0.8603 0.08304
k(pl)
0.01626

mode bi g mu pl ru ky q H2O
0.2054 0.1920 0.06746 0.1972 0.002779 0 0.3011 0.03404

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
19.30 774.1 0.1771 0.1711 0.05030 0.1373 0.2205 0.5295
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2563 0.04719 0.1849 0.9817 0.8471 0.08224
k(pl)
0.01631

mode bi g mu pl ru ky q H2O
0.2043 0.1929 0.06718 0.1979 0.002793 0 0.3007 0.03422

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
16.10	760.1	0.1833	0.2324	0.07619	0.1297	0.2054	0.3281	
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
		0.2926	0.5259	0.1854	0.03648	0.1893	0.9907	
		na(mu)	ca(pl)	k(pl)				
		0.8373	0.1794	0.01226				
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2116	0	0.1738	0.02228	0.2521	0.002847	0.2969	0.04048

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
16.15	760.1	0.1832	0.2309	0.07533	0.1297	0.2060	0.3268	
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
		0.2917	0.5265	0.1881	0.03688	0.1891	0.9912	
		na(mu)	ca(pl)	k(pl)				
		0.8484	0.1772	0.01230				
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2117	0	0.1741	0.02373	0.2502	0.002845	0.2971	0.04024

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
16.20	759.9	0.1831	0.2292	0.07446	0.1298	0.2067	0.3255	
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
		0.2908	0.5270	0.1909	0.03729	0.1889	0.9915	
		na(mu)	ca(pl)	k(pl)				
		0.8565	0.1748	0.01233				
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2117	0	0.1745	0.02524	0.2483	0.002844	0.2974	0.03999

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
16.25	759.7	0.1830	0.2274	0.07357	0.1298	0.2075	0.3242	
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
		0.2899	0.5276	0.1937	0.03770	0.1887	0.9917	
		na(mu)	ca(pl)	k(pl)				
		0.8634	0.1724	0.01235				
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2118	0	0.1750	0.02681	0.2463	0.002844	0.2976	0.03973

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
16.30	759.4	0.1829	0.2254	0.07265	0.1297	0.2083	0.3228	
		Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)	
		0.2890	0.5282	0.1965	0.03813	0.1884	0.9919	
		na(mu)	ca(pl)	k(pl)				
		0.8697	0.1698	0.01236				
mode	bi	ep	g	mu	pl	ru	q	H2O

0.2118 0 0.1754 0.02846 0.2442 0.002845 0.2979 0.03945

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.35 759.0 0.1828 0.2232 0.07170 0.1297 0.2093 0.3215
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2881 0.5288 0.1995 0.03858 0.1881 0.9921
na(mu) ca(pl) k(pl)
0.8757 0.1671 0.01235

mode bi ep g mu pl ru q H2O
0.2119 0 0.1758 0.03018 0.2420 0.002847 0.2981 0.03916

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.40 758.5 0.1827 0.2208 0.07072 0.1296 0.2103 0.3201
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2872 0.5295 0.2026 0.03904 0.1878 0.9922
na(mu) ca(pl) k(pl)
0.8814 0.1643 0.01233

mode bi ep g mu pl ru q H2O
0.2119 0 0.1762 0.03201 0.2398 0.002850 0.2984 0.03886

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.45 757.9 0.1826 0.2183 0.06970 0.1294 0.2114 0.3187
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2862 0.5303 0.2058 0.03952 0.1875 0.9923
na(mu) ca(pl) k(pl)
0.8870 0.1613 0.01229

mode bi ep g mu pl ru q H2O
0.2120 0 0.1766 0.03393 0.2374 0.002853 0.2987 0.03853

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.50 757.2 0.1825 0.2154 0.06864 0.1293 0.2127 0.3172
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2853 0.5312 0.2092 0.04001 0.1872 0.9925
na(mu) ca(pl) k(pl)
0.8925 0.1582 0.01224

mode bi ep g mu pl ru q H2O
0.2122 0 0.1770 0.03597 0.2349 0.002857 0.2990 0.03818

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.55 756.4 0.1824 0.2124 0.06753 0.1290 0.2141 0.3157
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2843 0.5321 0.2127 0.04054 0.1868 0.9926
na(mu) ca(pl) k(pl)
0.8980 0.1549 0.01216

mode bi ep g mu pl ru q H2O

0.2123 0 0.1774 0.03814 0.2322 0.002862 0.2993 0.03780

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.60 755.4 0.1823 0.2090 0.06636 0.1287 0.2157 0.3142
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2833 0.5332 0.2165 0.04109 0.1864 0.9927
na(mu) ca(pl) k(pl)
0.9035 0.1514 0.01205

mode bi ep g mu pl ru q H2O
0.2125 0 0.1777 0.04048 0.2294 0.002869 0.2997 0.03740

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.65 754.2 0.1823 0.2052 0.06511 0.1284 0.2175 0.3126
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2823 0.5344 0.2204 0.04168 0.1860 0.9928
na(mu) ca(pl) k(pl)
0.9090 0.1477 0.01192

mode bi ep g mu pl ru q H2O
0.2127 0 0.1781 0.04300 0.2263 0.002877 0.3000 0.03695

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.70 752.8 0.1822 0.2009 0.06378 0.1279 0.2195 0.3110
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2812 0.5358 0.2246 0.04232 0.1855 0.9929
na(mu) ca(pl) k(pl)
0.9146 0.1436 0.01175

mode bi ep g mu pl ru q H2O
0.2130 0 0.1784 0.04575 0.2230 0.002887 0.3005 0.03646

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.75 751.0 0.1822 0.1960 0.06233 0.1274 0.2219 0.3093
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2801 0.5374 0.2293 0.04303 0.1850 0.9930
na(mu) ca(pl) k(pl)
0.9204 0.1392 0.01153

mode bi ep g mu pl ru q H2O
0.2134 0 0.1787 0.04881 0.2194 0.002899 0.3009 0.03592

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.80 748.8 0.1823 0.1903 0.06071 0.1266 0.2248 0.3075
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2790 0.5393 0.2344 0.04383 0.1844 0.9931
na(mu) ca(pl) k(pl)
0.9265 0.1342 0.01125

mode bi ep g mu pl ru q H2O

0.2138 0 0.1790 0.05227 0.2153 0.002915 0.3015 0.03529

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.85 746.0 0.1824 0.1834 0.05884 0.1256 0.2283 0.3057
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2779 0.5416 0.2403 0.04476 0.1837 0.9931
na(mu) ca(pl) k(pl)
0.9332 0.1285 0.01087

mode bi ep g mu pl ru q H2O
0.2144 0 0.1792 0.05635 0.2105 0.002937 0.3021 0.03454

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.90 742.0 0.1825 0.1742 0.05650 0.1242 0.2331 0.3036
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2766 0.5448 0.2476 0.04597 0.1827 0.9932
na(mu) ca(pl) k(pl)
0.9409 0.1213 0.01032

mode bi ep g mu pl ru q H2O
0.2152 0 0.1793 0.06154 0.2046 0.002969 0.3029 0.03358

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.95 734.2 0.1830 0.1578 0.05259 0.1213 0.2420 0.3008
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2752 0.5506 0.2596 0.04807 0.1809 0.9933
na(mu) ca(pl) k(pl)
0.9524 0.1094 0.009255

mode bi ep g mu pl ru q H2O
0.2167 0 0.1791 0.07035 0.1947 0.003036 0.3042 0.03192

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.70 739.3 0.1856 0.1731 0.05935 0.1228 0.2366 0.3121
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2832 0.5489 0.2379 0.04536 0.1854 0.9936
na(mu) ca(pl) k(pl)
0.9437 0.1217 0.009973

mode bi ep g mu pl ru ky q H2O
0.2192 0 0.1731 0.001025 0.2483 0.002946 0.01871 0.2936 0.04318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

16.75 739.9 0.1849 0.1732 0.05861 0.1231 0.2359 0.3100
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2816 0.5480 0.2404 0.04556 0.1848 0.9935
 na(mu) ca(pl) k(pl)
 0.9431 0.1215 0.01005

mode bi ep g mu pl ru ky q H2O
 0.2183 0 0.1745 0.01523 0.2380 0.002951 0.01436 0.2958 0.04092

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 16.80 740.5 0.1842 0.1733 0.05786 0.1234 0.2351 0.3079
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2800 0.5471 0.2430 0.04574 0.1841 0.9934
 na(mu) ca(pl) k(pl)
 0.9426 0.1212 0.01013

mode bi ep g mu pl ru ky q H2O
 0.2173 0 0.1760 0.02993 0.2273 0.002957 0.009847 0.2981 0.03858

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 16.85 741.1 0.1834 0.1734 0.05712 0.1238 0.2344 0.3057
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2784 0.5461 0.2455 0.04590 0.1834 0.9933
 na(mu) ca(pl) k(pl)
 0.9420 0.1210 0.01020

mode bi ep g mu pl ru ky q H2O
 0.2164 0 0.1776 0.04515 0.2163 0.002964 0.005169 0.3004 0.03617

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 16.90 741.7 0.1826 0.1735 0.05637 0.1241 0.2336 0.3035
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
 0.2767 0.5451 0.2480 0.04605 0.1827 0.9932
 na(mu) ca(pl) k(pl)
 0.9415 0.1207 0.01027

mode bi ep g mu pl ru ky q H2O
 0.2153 0 0.1792 0.06090 0.2049 0.002971 0.0003209 0.3028 0.03367

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
 6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
 16.61 738.1 0.1857 0.1734 0.05857 0.1224 0.2371 0.3095
 Q(ep) x(g) z(g) f(g) fe(mu) y(mu)

0.2814 0.5491 0.2365 0.04412 0.1850 0.9937
na(mu) ca(pl) k(pl) x(ilm) Q(ilm) bi
0.9447 0.1238 0.009773 0.3384 2.750e-5 0.2193

mode bi ep g mu pl ilm ru ky q H2O
0.2193 0 0.1724 0 0.24960.0001801 0.002933 0.01882 0.2935 0.04332
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.00 642.8 0.1980 0.1782 0.04887 0.08708 0.2823 0.5411
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06489 0.005279 0.1682 0.9989 0.9843 0.2825
k(pl) x(ilm) Q(ilm)
0.001644 0.4095 8.166e-5

mode bi g mu pl ilm ru ky q H2O
0.2239 0.1312 0 0.3021 0.005024 0.0031240.0006773 0.2922 0.04187

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.10 644.1 0.1977 0.1780 0.04902 0.08754 0.2816 0.5414
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06706 0.005481 0.1684 0.9989 0.9840 0.2813
k(pl) x(ilm) Q(ilm)
0.001685 0.4081 7.922e-5

mode bi g mu pl ilm ru ky q H2O
0.2239 0.1315 0 0.3015 0.004987 0.0031200.0008494 0.2922 0.04188

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.20 645.4 0.1975 0.1779 0.04918 0.08800 0.2809 0.5417
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.06930 0.005693 0.1687 0.9988 0.9837 0.2799
k(pl) x(ilm) Q(ilm)
0.001727 0.4066 7.691e-5

mode bi g mu pl ilm ru ky q H2O
0.2239 0.1319 0 0.3010 0.004950 0.003116 0.001028 0.2922 0.04190

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
10.30 646.8 0.1973 0.1777 0.04933 0.08846 0.2802 0.5420
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.07161 0.005918 0.1689 0.9988 0.9834 0.2786
k(pl) x(ilm) Q(ilm)
0.001771 0.4052 7.472e-5

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2238	0.1324	0	0.3004	0.004911	0.003113	0.001214	0.2922	0.04192

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.40	648.2	0.1970	0.1775	0.04949	0.08892	0.2794	0.5423
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.07400	0.006155	0.1691	0.9988	0.9832	0.2771
		k(pl)	x(ilm)	Q(ilm)			
		0.001816	0.4037	7.263e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2238	0.1328	0	0.2999	0.004871	0.003109	0.001406	0.2922	0.04193

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.50	649.5	0.1968	0.1774	0.04965	0.08939	0.2787	0.5427
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.07646	0.006405	0.1693	0.9987	0.9829	0.2756
		k(pl)	x(ilm)	Q(ilm)			
		0.001862	0.4022	7.065e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2238	0.1332	0	0.2993	0.004830	0.003105	0.001606	0.2923	0.04195

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.60	650.9	0.1965	0.1772	0.04981	0.08986	0.2779	0.5430
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.07900	0.006669	0.1695	0.9987	0.9826	0.2741
		k(pl)	x(ilm)	Q(ilm)			
		0.001910	0.4008	6.876e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2237	0.1337	0	0.2986	0.004788	0.003101	0.001814	0.2923	0.04197

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.70	652.2	0.1962	0.1771	0.04997	0.09034	0.2772	0.5433
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.08161	0.006948	0.1697	0.9987	0.9823	0.2724
		k(pl)	x(ilm)	Q(ilm)			
		0.001960	0.3993	6.695e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2237	0.1342	0	0.2980	0.004744	0.003098	0.002029	0.2923	0.04198

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.80	653.6	0.1960	0.1770	0.05013	0.09082	0.2764	0.5436
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.08430	0.007242	0.1698	0.9986	0.9820	0.2707
		k(pl)	x(ilm)	Q(ilm)			
		0.002011	0.3979	6.523e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2237	0.1347	0	0.2973	0.004699	0.003094	0.002251	0.2923	0.04200

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
10.90	655.0	0.1957	0.1768	0.05029	0.09131	0.2756	0.5440
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.08706	0.007551	0.1700	0.9986	0.9817	0.2690
		k(pl)	x(ilm)	Q(ilm)			
		0.002065	0.3965	6.359e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2236	0.1352	0	0.2966	0.004653	0.003090	0.002482	0.2924	0.04202

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.00	656.4	0.1954	0.1767	0.05046	0.09180	0.2749	0.5443
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.08989	0.007877	0.1702	0.9986	0.9813	0.2672
		k(pl)	x(ilm)	Q(ilm)			
		0.002120	0.3950	6.203e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2236	0.1357	0	0.2959	0.004605	0.003087	0.002720	0.2924	0.04203

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.10	657.8	0.1951	0.1766	0.05062	0.09229	0.2741	0.5446
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09279	0.008221	0.1704	0.9985	0.9810	0.2653
		k(pl)	x(ilm)	Q(ilm)			
		0.002177	0.3936	6.053e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2235	0.1362	0	0.2952	0.004556	0.003083	0.002965	0.2924	0.04205

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.20	659.2	0.1948	0.1765	0.05079	0.09279	0.2733	0.5450
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09575	0.008582	0.1705	0.9985	0.9807	0.2633
		k(pl)	x(ilm)	Q(ilm)			
		0.002236	0.3922	5.910e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2235	0.1368	0	0.2944	0.004505	0.003080	0.003219	0.2924	0.04207

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.30	660.6	0.1945	0.1764	0.05096	0.09329	0.2725	0.5453
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.09878	0.008961	0.1707	0.9984	0.9803	0.2613
		k(pl)	x(ilm)	Q(ilm)			
		0.002297	0.3908	5.773e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2235	0.1374	0	0.2936	0.004452	0.003076	0.003480	0.2925	0.04209

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.40	662.0	0.1942	0.1763	0.05112	0.09379	0.2717	0.5456
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1019	0.009358	0.1709	0.9984	0.9800	0.2592
		k(pl)	x(ilm)	Q(ilm)			
		0.002360	0.3894	5.642e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2234	0.1379	0	0.2928	0.004398	0.003073	0.003748	0.2925	0.04211

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.50	663.4	0.1940	0.1762	0.05129	0.09430	0.2709	0.5460
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1050	0.009775	0.1711	0.9984	0.9796	0.2570
		k(pl)	x(ilm)	Q(ilm)			
		0.002426	0.3880	5.516e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2234	0.1386	0	0.2920	0.004342	0.003070	0.004024	0.2925	0.04213

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.60	664.9	0.1937	0.1761	0.05146	0.09481	0.2700	0.5463
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1082	0.01021	0.1712	0.9983	0.9793	0.2548
		k(pl)	x(ilm)	Q(ilm)			
		0.002494	0.3866	5.396e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2233	0.1392	0	0.2911	0.004284	0.003066	0.004306	0.2926	0.04214

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.70	666.3	0.1934	0.1761	0.05163	0.09533	0.2692	0.5466
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1114	0.01067	0.1714	0.9983	0.9789	0.2525
		k(pl)	x(ilm)	Q(ilm)			
		0.002564	0.3853	5.281e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2233	0.1398	0	0.2902	0.004225	0.003063	0.004596	0.2926	0.04216

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.80	667.8	0.1931	0.1760	0.05180	0.09585	0.2684	0.5469
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1147	0.01114	0.1716	0.9982	0.9785	0.2501
		k(pl)	x(ilm)	Q(ilm)			
		0.002637	0.3839	5.171e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2232	0.1404	0	0.2894	0.004163	0.003060	0.004891	0.2927	0.04218

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
11.90	669.2	0.1928	0.1759	0.05197	0.09638	0.2676	0.5472
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1180	0.01163	0.1717	0.9982	0.9781	0.2477
		k(pl)	x(ilm)	Q(ilm)			
		0.002713	0.3826	5.066e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2232	0.1411	0	0.2885	0.004100	0.003057	0.005193	0.2927	0.04220

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.00	670.7	0.1925	0.1759	0.05214	0.09690	0.2668	0.5475
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1213	0.01215	0.1719	0.9981	0.9777	0.2453
		k(pl)	x(ilm)	Q(ilm)			
		0.002791	0.3813	4.964e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2231	0.1418	0	0.2875	0.004036	0.003054	0.005500	0.2927	0.04222

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.10	672.1	0.1922	0.1758	0.05231	0.09743	0.2660	0.5478
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1247	0.01268	0.1721	0.9981	0.9773	0.2427
		k(pl)	x(ilm)	Q(ilm)			
		0.002872	0.3800	4.867e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2231	0.1425	0	0.2866	0.003969	0.003051	0.005812	0.2928	0.04224

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.20	673.6	0.1919	0.1758	0.05248	0.09797	0.2652	0.5481
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1281	0.01323	0.1723	0.9980	0.9769	0.2402
		k(pl)	x(ilm)	Q(ilm)			
		0.002955	0.3787	4.774e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2230	0.1432	0	0.2857	0.003901	0.003048	0.006129	0.2928	0.04226

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.30	675.1	0.1917	0.1757	0.05264	0.09851	0.2643	0.5484
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1314	0.01380	0.1725	0.9980	0.9765	0.2375
		k(pl)	x(ilm)	Q(ilm)			
		0.003041	0.3774	4.685e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2230	0.1439	0	0.2847	0.003831	0.003046	0.006449	0.2929	0.04228

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.40	676.5	0.1914	0.1757	0.05281	0.09905	0.2635	0.5487
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1348	0.01438	0.1727	0.9979	0.9761	0.2349
		k(pl)	x(ilm)	Q(ilm)			
		0.003131	0.3762	4.600e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2229	0.1446	0	0.2837	0.003759	0.003043	0.006774	0.2929	0.04230

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.50	678.0	0.1911	0.1756	0.05298	0.09959	0.2627	0.5489
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1382	0.01498	0.1729	0.9979	0.9756	0.2322
		k(pl)	x(ilm)	Q(ilm)			
		0.003223	0.3749	4.517e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2228	0.1453	0	0.2828	0.003685	0.003040	0.007101	0.2929	0.04232

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.60	679.5	0.1909	0.1756	0.05314	0.1001	0.2620	0.5492
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1415	0.01560	0.1731	0.9978	0.9752	0.2294
		k(pl)	x(ilm)	Q(ilm)			
		0.003318	0.3737	4.438e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2228	0.1460	0	0.2818	0.003611	0.003038	0.007431	0.2930	0.04235

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.70	681.0	0.1906	0.1756	0.05331	0.1007	0.2612	0.5494
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1449	0.01624	0.1733	0.9978	0.9747	0.2266
		k(pl)	x(ilm)	Q(ilm)			
		0.003416	0.3725	4.363e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2227	0.1467	0	0.2808	0.003534	0.003035	0.007763	0.2930	0.04237

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.80	682.5	0.1904	0.1756	0.05347	0.1012	0.2604	0.5496
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1482	0.01688	0.1735	0.9977	0.9742	0.2238
		k(pl)	x(ilm)	Q(ilm)			
		0.003517	0.3714	4.290e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2227	0.1475	0	0.2798	0.003456	0.003033	0.008096	0.2931	0.04239

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
12.90	683.9	0.1902	0.1755	0.05364	0.1018	0.2596	0.5498
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1515	0.01755	0.1737	0.9976	0.9737	0.2210
		k(pl)	x(ilm)	Q(ilm)			
		0.003621	0.3702	4.220e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2226	0.1482	0	0.2788	0.003377	0.003031	0.008430	0.2931	0.04241

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.00	685.4	0.1899	0.1755	0.05380	0.1023	0.2588	0.5500
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1547	0.01822	0.1740	0.9976	0.9733	0.2181
		k(pl)	x(ilm)	Q(ilm)			
		0.003728	0.3691	4.152e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2225	0.1489	0	0.2779	0.003297	0.003028	0.008764	0.2931	0.04243

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.10	686.9	0.1897	0.1755	0.05396	0.1029	0.2581	0.5502
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1579	0.01891	0.1742	0.9975	0.9727	0.2153
		k(pl)	x(ilm)	Q(ilm)			
		0.003838	0.3680	4.088e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2225	0.1497	0	0.2769	0.003215	0.003026	0.009099	0.2932	0.04245

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.20	688.4	0.1895	0.1754	0.05412	0.1034	0.2573	0.5503
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1611	0.01960	0.1744	0.9974	0.9722	0.2124
		k(pl)	x(ilm)	Q(ilm)			
		0.003951	0.3669	4.025e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2224	0.1504	0	0.2759	0.003132	0.003024	0.009433	0.2932	0.04248

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.30	689.9	0.1893	0.1754	0.05427	0.1040	0.2566	0.5505
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1642	0.02031	0.1747	0.9974	0.9717	0.2095
		k(pl)	x(ilm)	Q(ilm)			
		0.004068	0.3658	3.965e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2223	0.1512	0	0.2749	0.003049	0.003021	0.009766	0.2932	0.04250

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.40	691.4	0.1891	0.1754	0.05443	0.1046	0.2559	0.5506
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1673	0.02102	0.1749	0.9973	0.9712	0.2066
		k(pl)	x(ilm)	Q(ilm)			
		0.004188	0.3648	3.907e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2223	0.1519	0	0.2740	0.002964	0.003019	0.01010	0.2933	0.04252

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.50	692.9	0.1889	0.1754	0.05458	0.1051	0.2552	0.5507
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1703	0.02174	0.1752	0.9972	0.9706	0.2037
		k(pl)	x(ilm)	Q(ilm)			
		0.004310	0.3637	3.851e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2222	0.1526	0	0.2730	0.002878	0.003017	0.01043	0.2933	0.04254

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.60	694.4	0.1887	0.1753	0.05474	0.1057	0.2545	0.5508
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1733	0.02247	0.1754	0.9972	0.9701	0.2008
		k(pl)	x(ilm)	Q(ilm)			
		0.004437	0.3627	3.797e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2221	0.1534	0	0.2721	0.002792	0.003015	0.01075	0.2933	0.04257

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.70	695.9	0.1885	0.1753	0.05489	0.1062	0.2538	0.5509
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1762	0.02320	0.1757	0.9971	0.9695	0.1979
		k(pl)	x(ilm)	Q(ilm)			
		0.004566	0.3617	3.745e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2220	0.1541	0	0.2711	0.002705	0.003013	0.01108	0.2934	0.04259

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.80	697.4	0.1884	0.1753	0.05504	0.1068	0.2531	0.5510
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1791	0.02394	0.1760	0.9970	0.9689	0.1951
		k(pl)	x(ilm)	Q(ilm)			
		0.004698	0.3608	3.695e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2220	0.1548	0	0.2702	0.002618	0.003011	0.01140	0.2934	0.04261

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
13.90	698.9	0.1882	0.1753	0.05519	0.1074	0.2524	0.5510
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1819	0.02468	0.1763	0.9969	0.9683	0.1922
		k(pl)	x(ilm)	Q(ilm)			
		0.004834	0.3598	3.646e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2219	0.1555	0	0.2693	0.002530	0.003008	0.01172	0.2934	0.04264

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.00	700.4	0.1880	0.1752	0.05533	0.1079	0.2517	0.5511
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1847	0.02543	0.1766	0.9968	0.9677	0.1893
		k(pl)	x(ilm)	Q(ilm)			
		0.004973	0.3588	3.599e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2218	0.1563	0	0.2684	0.002441	0.003006	0.01204	0.2934	0.04266

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.10	701.8	0.1879	0.1752	0.05548	0.1085	0.2510	0.5511
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1873	0.02618	0.1768	0.9968	0.9671	0.1865
		k(pl)	x(ilm)	Q(ilm)			
		0.005116	0.3579	3.554e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2217	0.1570	0	0.2675	0.002353	0.003004	0.01235	0.2935	0.04268

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.20	703.3	0.1878	0.1752	0.05562	0.1090	0.2504	0.5512
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1900	0.02693	0.1771	0.9967	0.9664	0.1837
		k(pl)	x(ilm)	Q(ilm)			
		0.005261	0.3570	3.510e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2216	0.1577	0	0.2666	0.002264	0.003002	0.01266	0.2935	0.04271

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.30	704.8	0.1876	0.1751	0.05576	0.1096	0.2498	0.5512
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1925	0.02767	0.1774	0.9966	0.9658	0.1808
		k(pl)	x(ilm)	Q(ilm)			
		0.005410	0.3561	3.467e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2216	0.1584	0	0.2657	0.002175	0.003000	0.01297	0.2935	0.04273

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.40	706.3	0.1875	0.1751	0.05590	0.1102	0.2491	0.5512
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1951	0.02842	0.1777	0.9965	0.9651	0.1781
		k(pl)	x(ilm)	Q(ilm)			
		0.005562	0.3552	3.426e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2215	0.1591	0	0.2648	0.002085	0.002997	0.01327	0.2935	0.04275

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.50	707.8	0.1874	0.1751	0.05604	0.1107	0.2485	0.5512
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1975	0.02917	0.1781	0.9964	0.9644	0.1753
		k(pl)	x(ilm)	Q(ilm)			
		0.005717	0.3543	3.386e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2214	0.1597	0	0.2640	0.001996	0.002995	0.01357	0.2935	0.04278

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.60	709.2	0.1872	0.1750	0.05617	0.1113	0.2479	0.5512
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.1999	0.02992	0.1784	0.9963	0.9637	0.1726
		k(pl)	x(ilm)	Q(ilm)			
		0.005876	0.3535	3.347e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2213	0.1604	0	0.2632	0.001907	0.002993	0.01386	0.2936	0.04280

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.70	710.7	0.1871	0.1750	0.05631	0.1118	0.2473	0.5511
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2022	0.03067	0.1787	0.9962	0.9630	0.1698
		k(pl)	x(ilm)	Q(ilm)			
		0.006038	0.3526	3.309e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2212	0.1611	0	0.2624	0.001817	0.002990	0.01415	0.2936	0.04283

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.80	712.2	0.1870	0.1749	0.05644	0.1124	0.2467	0.5511
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2045	0.03141	0.1790	0.9961	0.9622	0.1671
		k(pl)	x(ilm)	Q(ilm)			
		0.006203	0.3518	3.272e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2211	0.1617	0	0.2616	0.001728	0.002988	0.01443	0.2936	0.04285

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
14.90	713.6	0.1869	0.1749	0.05657	0.1129	0.2461	0.5510
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2067	0.03215	0.1793	0.9960	0.9615	0.1645
		k(pl)	x(ilm)	Q(ilm)			
		0.006372	0.3510	3.237e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2210	0.1624	0	0.2608	0.001639	0.002986	0.01471	0.2936	0.04288

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.00	715.1	0.1868	0.1748	0.05670	0.1135	0.2455	0.5510
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2089	0.03289	0.1796	0.9959	0.9607	0.1618
		k(pl)	x(ilm)	Q(ilm)			
		0.006544	0.3501	3.202e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2209	0.1630	0	0.2600	0.001551	0.002983	0.01499	0.2936	0.04290

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.10	716.5	0.1867	0.1747	0.05683	0.1141	0.2449	0.5509
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2110	0.03362	0.1800	0.9958	0.9599	0.1592
		k(pl)	x(ilm)	Q(ilm)			
		0.006719	0.3493	3.168e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2209	0.1637	0	0.2592	0.001462	0.002980	0.01526	0.2936	0.04293

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.20	718.0	0.1866	0.1747	0.05695	0.1146	0.2444	0.5508
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2130	0.03436	0.1803	0.9957	0.9591	0.1567
		k(pl)	x(ilm)	Q(ilm)			
		0.006897	0.3486	3.136e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2208	0.1643	0	0.2585	0.001374	0.002978	0.01553	0.2936	0.04295

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.30	719.4	0.1865	0.1746	0.05708	0.1152	0.2438	0.5508
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2150	0.03508	0.1806	0.9956	0.9582	0.1541
		k(pl)	x(ilm)	Q(ilm)			
		0.007079	0.3478	3.104e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2207	0.1649	0	0.2578	0.001286	0.002975	0.01579	0.2936	0.04298

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.40	720.9	0.1865	0.1745	0.05720	0.1157	0.2433	0.5507
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2169	0.03580	0.1809	0.9955	0.9574	0.1516
		k(pl)	x(ilm)	Q(ilm)			
		0.007264	0.3470	3.073e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2206	0.1655	0	0.2571	0.001199	0.002972	0.01605	0.2936	0.04300

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.50	722.3	0.1864	0.1745	0.05732	0.1163	0.2427	0.5506
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2188	0.03652	0.1813	0.9953	0.9565	0.1491
		k(pl)	x(ilm)	Q(ilm)			
		0.007452	0.3462	3.042e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2205	0.1661	0	0.2564	0.001112	0.002969	0.01630	0.2936	0.04303

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.60	723.7	0.1863	0.1744	0.05744	0.1168	0.2422	0.5505
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2206	0.03723	0.1816	0.9952	0.9556	0.1467
		k(pl)	x(ilm)	Q(ilm)			
		0.007644	0.3455	3.013e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2204	0.1667	0	0.2557	0.001025	0.002966	0.01655	0.2936	0.04305

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.70	725.2	0.1862	0.1743	0.05756	0.1174	0.2416	0.5504
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2224	0.03794	0.1819	0.9951	0.9547	0.1443
		k(pl)	x(ilm)	Q(ilm)			
		0.007839	0.3448	2.984e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2203	0.1673	0	0.25500	0.0009393	0.002964	0.01680	0.2936	0.04308

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.80	726.6	0.1862	0.1742	0.05767	0.1179	0.2411	0.5502
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2241	0.03864	0.1823	0.9950	0.9537	0.1419
		k(pl)	x(ilm)	Q(ilm)			
		0.008037	0.3440	2.956e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2202	0.1679	0	0.25440	0.0008538	0.002960	0.01703	0.2936	0.04310

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
15.90	728.0	0.1861	0.1741	0.05779	0.1185	0.2406	0.5501
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2258	0.03934	0.1826	0.9948	0.9527	0.1396
		k(pl)	x(ilm)	Q(ilm)			
		0.008239	0.3433	2.928e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2201	0.1685	0	0.25370	0.0007688	0.002957	0.01727	0.2936	0.04313

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.00	729.4	0.1860	0.1741	0.05790	0.1190	0.2401	0.5500
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2275	0.04003	0.1830	0.9947	0.9517	0.1372
		k(pl)	x(ilm)	Q(ilm)			
		0.008444	0.3426	2.901e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2200	0.1691	0	0.25310	0.0006843	0.002954	0.01750	0.2936	0.04315

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.10	730.9	0.1860	0.1740	0.05801	0.1196	0.2396	0.5499
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2290	0.04071	0.1833	0.9945	0.9507	0.1350
		k(pl)	x(ilm)	Q(ilm)			
		0.008652	0.3419	2.875e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2199	0.1696	0	0.25250	0.0006004	0.002951	0.01773	0.2936	0.04318

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.20	732.3	0.1859	0.1739	0.05812	0.1201	0.2391	0.5497
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2306	0.04139	0.1836	0.9944	0.9496	0.1327
		k(pl)	x(ilm)	Q(ilm)			
		0.008864	0.3412	2.850e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2198	0.1702	0	0.25190	0.0005172	0.002948	0.01795	0.2936	0.04321

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.30	733.7	0.1858	0.1738	0.05823	0.1207	0.2386	0.5496
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2321	0.04206	0.1840	0.9942	0.9485	0.1305
		k(pl)	x(ilm)	Q(ilm)			
		0.009079	0.3405	2.825e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2197	0.1707	0	0.25130	0.0004345	0.002944	0.01817	0.2936	0.04323

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.40	735.1	0.1858	0.1737	0.05834	0.1212	0.2381	0.5494
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2335	0.04273	0.1843	0.9941	0.9473	0.1283
		k(pl)	x(ilm)	Q(ilm)			
		0.009297	0.3398	2.800e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2195	0.1713	0	0.25070	0.0003524	0.002941	0.01838	0.2935	0.04326

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.50	736.5	0.1857	0.1736	0.05845	0.1218	0.2376	0.5492
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2350	0.04339	0.1847	0.9939	0.9461	0.1262
		k(pl)	x(ilm)	Q(ilm)			
		0.009519	0.3391	2.776e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2194	0.1718	0	0.25020	0.0002709	0.002937	0.01859	0.2935	0.04329

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.60	737.9	0.1857	0.1734	0.05855	0.1223	0.2371	0.5491
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2363	0.04404	0.1850	0.9938	0.9449	0.1241
		k(pl)	x(ilm)	Q(ilm)			
		0.009744	0.3385	2.753e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2193	0.1723	0	0.24960	0.0001901	0.002934	0.01879	0.2935	0.04331

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.70	739.3	0.1856	0.1733	0.05866	0.1229	0.2367	0.5489
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2376	0.04469	0.1853	0.9936	0.9436	0.1220
		k(pl)	x(ilm)	Q(ilm)			
		0.009973	0.3378	2.730e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2192	0.1728	0	0.24910	0.0001099	0.002930	0.01900	0.2935	0.04334

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.80	740.7	0.1856	0.1732	0.05876	0.1234	0.2362	0.5487
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2389	0.04533	0.1857	0.9934	0.9423	0.1200
		k(pl)	x(ilm)	Q(ilm)			
		0.01021	0.3372	2.707e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2191	0.1733	0	0.2486	3.040e-5	0.002926	0.01919	0.2935	0.04337

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.84	741.2	0.1856	0.1732	0.05880	0.1236	0.2360	0.5487
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2394	0.04558	0.1858	0.9933	0.9418	0.1192
		k(pl)	x(ilm)	Q(ilm)			
		0.01030	0.3369	2.699e-5			

mode	bi	g	mu	pl	ilm	ru	ky	q	H2O
	0.2191	0.1735	0	0.2484	0	0.002925	0.01927	0.2935	0.04338

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, g, mu, pl, ru, ky, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.00	729.7	0.1860	0.1724	0.06266	0.1188	0.2398	0.5501
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2285	0.04407	0.1835	0.9947	0.9521	0.1352
		k(pl)					
		0.008466					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2200	0.1700	0	0.2525	0.003048	0.01775	0.2935	0.04315

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
16.05	730.4	0.1860	0.1725	0.06241	0.1191	0.2396	0.5500
		z(g)	f(g)	fe(mu)	y(mu)	na(mu)	ca(pl)
		0.2293	0.04417	0.1836	0.9946	0.9515	0.1342
		k(pl)					
		0.008568					

mode	bi	g	mu	pl	ru	ky	q	H2O
	0.2200	0.1702	0	0.2522	0.003040	0.01784	0.2935	0.04316

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
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16.10 731.1 0.1860 0.1725 0.06216 0.1194 0.2393 0.5500
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2300 0.04427 0.1838 0.9945 0.9510 0.1332
k(pl)

0.008671

mode bi g mu pl ru ky q H2O
0.2199 0.1705 0 0.2520 0.003033 0.01794 0.2935 0.04318

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.15 731.8 0.1860 0.1726 0.06192 0.1197 0.2391 0.5499
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2307 0.04437 0.1839 0.9945 0.9504 0.1322
k(pl)

0.008775

mode bi g mu pl ru ky q H2O
0.2199 0.1707 0 0.2517 0.003025 0.01804 0.2935 0.04319

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.20 732.5 0.1859 0.1727 0.06168 0.1200 0.2389 0.5498
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2314 0.04447 0.1840 0.9944 0.9499 0.1312
k(pl)

0.00888

mode bi g mu pl ru ky q H2O
0.2198 0.1709 0 0.2514 0.003018 0.01813 0.2935 0.04320

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.25 733.1 0.1859 0.1727 0.06144 0.1203 0.2387 0.5497
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2320 0.04456 0.1842 0.9943 0.9493 0.1302
k(pl)

0.008985

mode bi g mu pl ru ky q H2O
0.2197 0.1711 0 0.2512 0.003011 0.01823 0.2935 0.04322

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.30 733.8 0.1859 0.1728 0.06120 0.1206 0.2384 0.5496
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2327 0.04466 0.1843 0.9942 0.9487 0.1292
k(pl)

0.009092

mode bi g mu pl ru ky q H2O
0.2197 0.1713 0 0.2509 0.003003 0.01832 0.2935 0.04323

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

16.35 734.5 0.1858 0.1728 0.06096 0.1208 0.2382 0.5495
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2334 0.04475 0.1845 0.9942 0.9481 0.1283
k(pl)

0.009199

mode bi g mu pl ru ky q H2O
0.2196 0.1715 0 0.2507 0.002996 0.01841 0.2935 0.04324

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.40 735.2 0.1858 0.1728 0.06073 0.1211 0.2380 0.5495
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2340 0.04484 0.1846 0.9941 0.9475 0.1273
k(pl)

0.009307

mode bi g mu pl ru ky q H2O
0.2196 0.1717 0 0.2504 0.002989 0.01850 0.2935 0.04326

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.45 735.9 0.1858 0.1729 0.06050 0.1214 0.2377 0.5494
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2347 0.04493 0.1847 0.9940 0.9469 0.1264
k(pl)

0.009416

mode bi g mu pl ru ky q H2O
0.2195 0.1719 0 0.2502 0.002981 0.01860 0.2935 0.04327

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.50 736.6 0.1857 0.1729 0.06027 0.1217 0.2375 0.5493
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2353 0.04502 0.1849 0.9939 0.9463 0.1254
k(pl)

0.009526

mode bi g mu pl ru ky q H2O
0.2195 0.1722 0 0.2499 0.002974 0.01868 0.2935 0.04328

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.55 737.3 0.1857 0.1730 0.06005 0.1220 0.2373 0.5492
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2359 0.04510 0.1850 0.9938 0.9457 0.1245
k(pl)

0.009637

mode bi g mu pl ru ky q H2O
0.2194 0.1724 0 0.2497 0.002967 0.01877 0.2935 0.04330

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

16.60 737.9 0.1857 0.1730 0.05983 0.1223 0.2371 0.5491
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2366 0.04519 0.1852 0.9938 0.9450 0.1235
k(pl)

0.009749

mode bi g mu pl ru ky q H2O
0.2193 0.1726 0 0.2495 0.002959 0.01886 0.2935 0.04331

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.65 738.6 0.1857 0.1730 0.05961 0.1225 0.2369 0.5490
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2372 0.04527 0.1853 0.9937 0.9444 0.1226
k(pl)

0.009862

mode bi g mu pl ru ky q H2O
0.2193 0.1728 0 0.2492 0.002952 0.01895 0.2935 0.04333

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.70 739.3 0.1856 0.1731 0.05939 0.1228 0.2366 0.5489
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2378 0.04536 0.1854 0.9936 0.9437 0.1217
k(pl)

0.009976

mode bi g mu pl ru ky q H2O
0.2192 0.1730 0 0.2490 0.002945 0.01903 0.2935 0.04334

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.75 740.0 0.1856 0.1731 0.05917 0.1231 0.2364 0.5488
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2384 0.04544 0.1856 0.9935 0.9430 0.1208
k(pl)

0.01009

mode bi g mu pl ru ky q H2O
0.2192 0.1732 0 0.2488 0.002937 0.01912 0.2935 0.04335

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.80 740.7 0.1856 0.1731 0.05896 0.1234 0.2362 0.5487
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2390 0.04552 0.1857 0.9934 0.9423 0.1199
k(pl)

0.01021

mode bi g mu pl ru ky q H2O
0.2191 0.1734 0 0.2485 0.002930 0.01920 0.2935 0.04337

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

16.85 741.4 0.1855 0.1732 0.05875 0.1237 0.2360 0.5486
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2396 0.04560 0.1859 0.9933 0.9416 0.1190
k(pl)
0.01032

mode bi g mu pl ru ky q H2O
0.2190 0.1736 0 0.2483 0.002923 0.01929 0.2935 0.04338

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.90 742.0 0.1855 0.1732 0.05854 0.1240 0.2358 0.5485
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2401 0.04567 0.1860 0.9932 0.9409 0.1181
k(pl)
0.01044

mode bi g mu pl ru ky q H2O
0.2190 0.1738 0 0.2481 0.002916 0.01937 0.2935 0.04339

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.95 742.7 0.1855 0.1732 0.05834 0.1242 0.2355 0.5484
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2407 0.04575 0.1861 0.9931 0.9401 0.1172
k(pl)
0.01056

mode bi g mu pl ru ky q H2O
0.2189 0.1740 0 0.2479 0.002909 0.01945 0.2935 0.04341

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.00 743.4 0.1855 0.1733 0.05813 0.1245 0.2353 0.5483
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2413 0.04582 0.1863 0.9930 0.9394 0.1163
k(pl)
0.01068

mode bi g mu pl ru ky q H2O
0.2189 0.1742 0 0.2477 0.002901 0.01953 0.2934 0.04342

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.05 744.1 0.1854 0.1733 0.05793 0.1248 0.2351 0.5482
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2418 0.04590 0.1864 0.9929 0.9386 0.1154
k(pl)
0.0108

mode bi g mu pl ru ky q H2O
0.2188 0.1744 0 0.2475 0.002894 0.01961 0.2934 0.04344

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

17.10 744.8 0.1854 0.1733 0.05773 0.1251 0.2349 0.5481
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2424 0.04597 0.1865 0.9928 0.9378 0.1146
k(pl)
0.01092

mode bi g mu pl ru ky q H2O
0.2187 0.1746 0 0.2472 0.002887 0.01969 0.2934 0.04345

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.15 745.4 0.1854 0.1733 0.05754 0.1254 0.2347 0.5480
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2429 0.04604 0.1867 0.9927 0.9370 0.1137
k(pl)
0.01104

mode bi g mu pl ru ky q H2O
0.2187 0.1748 0 0.2470 0.002880 0.01977 0.2934 0.04346

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.20 746.1 0.1854 0.1734 0.05734 0.1257 0.2344 0.5479
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2434 0.04611 0.1868 0.9926 0.9361 0.1128
k(pl)
0.01116

mode bi g mu pl ru ky q H2O
0.2186 0.1750 0 0.2468 0.002873 0.01984 0.2934 0.04348

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.25 746.8 0.1853 0.1734 0.05715 0.1259 0.2342 0.5478
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2439 0.04618 0.1870 0.9925 0.9353 0.1120
k(pl)
0.01129

mode bi g mu pl ru ky q H2O
0.2185 0.1752 0 0.2466 0.002866 0.01992 0.2934 0.04349

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.30 747.5 0.1853 0.1734 0.05696 0.1262 0.2340 0.5477
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2445 0.04625 0.1871 0.9924 0.9344 0.1111
k(pl)
0.01141

mode bi g mu pl ru ky q H2O
0.2185 0.1753 0 0.2464 0.002859 0.01999 0.2934 0.04351

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

17.35 748.2 0.1853 0.1734 0.05677 0.1265 0.2338 0.5476
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2450 0.04632 0.1872 0.9923 0.9335 0.1103
k(pl)
0.01154

mode bi g mu pl ru ky q H2O
0.2184 0.1755 0 0.2462 0.002851 0.02007 0.2934 0.04352

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.40 748.8 0.1852 0.1735 0.05658 0.1268 0.2336 0.5475
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2455 0.04638 0.1874 0.9922 0.9326 0.1095
k(pl)
0.01167

mode bi g mu pl ru ky q H2O
0.2184 0.1757 0 0.2460 0.002844 0.02014 0.2934 0.04354

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.45 749.5 0.1852 0.1735 0.05640 0.1271 0.2334 0.5474
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2460 0.04645 0.1875 0.9920 0.9317 0.1086
k(pl)
0.01179

mode bi g mu pl ru ky q H2O
0.2183 0.1759 0 0.2458 0.002837 0.02021 0.2934 0.04355

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.50 750.2 0.1852 0.1735 0.05622 0.1273 0.2332 0.5473
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2465 0.04651 0.1877 0.9919 0.9307 0.1078
k(pl)
0.01192

mode bi g mu pl ru ky q H2O
0.2182 0.1761 0 0.2456 0.002830 0.02029 0.2934 0.04356

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.55 750.9 0.1852 0.1735 0.05604 0.1276 0.2329 0.5472
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2469 0.04657 0.1878 0.9918 0.9297 0.1070
k(pl)
0.01205

mode bi g mu pl ru ky q H2O
0.2182 0.1763 0 0.2454 0.002823 0.02036 0.2934 0.04358

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

17.60 751.5 0.1851 0.1735 0.05586 0.1279 0.2327 0.5471
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2474 0.04663 0.1879 0.9917 0.9287 0.1062
k(pl)
0.01218

mode bi g mu pl ru ky q H2O
0.2181 0.1765 0 0.2453 0.002816 0.02043 0.2933 0.04359

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.65 752.2 0.1851 0.1735 0.05568 0.1282 0.2325 0.5470
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2479 0.04669 0.1881 0.9915 0.9276 0.1054
k(pl)
0.01232

mode bi g mu pl ru ky q H2O
0.2180 0.1767 0 0.2451 0.002809 0.02050 0.2933 0.04361

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.70 752.9 0.1851 0.1735 0.05551 0.1285 0.2323 0.5468
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2483 0.04675 0.1882 0.9914 0.9265 0.1046
k(pl)
0.01245

mode bi g mu pl ru ky q H2O
0.2180 0.1768 0 0.2449 0.002802 0.02056 0.2933 0.04362

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.75 753.6 0.1850 0.1735 0.05533 0.1288 0.2321 0.5467
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2488 0.04681 0.1884 0.9912 0.9254 0.1038
k(pl)
0.01258

mode bi g mu pl ru ky q H2O
0.2179 0.1770 0 0.2447 0.002795 0.02063 0.2933 0.04364

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.80 754.2 0.1850 0.1736 0.05516 0.1290 0.2319 0.5466
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2492 0.04687 0.1885 0.9911 0.9242 0.1030
k(pl)
0.01272

mode bi g mu pl ru ky q H2O
0.2178 0.1772 0 0.2445 0.002788 0.02070 0.2933 0.04365

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

17.85 754.9 0.1850 0.1736 0.05499 0.1293 0.2317 0.5465
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2497 0.04693 0.1886 0.9910 0.9230 0.1023
k(pl)
0.01286

mode bi g mu pl ru ky q H2O
0.2178 0.1774 0 0.2443 0.002781 0.02077 0.2933 0.04367

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.90 755.6 0.1850 0.1736 0.05482 0.1296 0.2315 0.5464
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2501 0.04698 0.1888 0.9908 0.9217 0.1015
k(pl)
0.01299

mode bi g mu pl ru ky q H2O
0.2177 0.1776 0 0.2442 0.002774 0.02083 0.2933 0.04368

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.95 756.3 0.1849 0.1736 0.05466 0.1299 0.2313 0.5463
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2505 0.04704 0.1889 0.9906 0.9204 0.1007
k(pl)
0.01313

mode bi g mu pl ru ky q H2O
0.2176 0.1778 0 0.2440 0.002767 0.02089 0.2933 0.04370

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.00 756.9 0.1849 0.1736 0.05449 0.1302 0.2310 0.5461
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2510 0.04709 0.1891 0.9905 0.9191 0.09996
k(pl)
0.01327

mode bi g mu pl ru ky q H2O
0.2176 0.1779 0 0.2438 0.002760 0.02096 0.2933 0.04371

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.05 757.6 0.1849 0.1736 0.05433 0.1305 0.2308 0.5460
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2514 0.04715 0.1892 0.9903 0.9176 0.09921
k(pl)
0.01341

mode bi g mu pl ru ky q H2O
0.2175 0.1781 0 0.2437 0.002753 0.02102 0.2932 0.04373

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

18.10 758.3 0.1849 0.1736 0.05417 0.1307 0.2306 0.5459
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2518 0.04720 0.1893 0.9901 0.9162 0.09847
k(pl)
0.01355

mode bi g mu pl ru ky q H2O
0.2174 0.1783 0 0.2435 0.002746 0.02108 0.2932 0.04374

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.15 759.0 0.1848 0.1736 0.05401 0.1310 0.2304 0.5458
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2522 0.04725 0.1895 0.9900 0.9146 0.09772
k(pl)
0.0137

mode bi g mu pl ru ky q H2O
0.2173 0.1785 0 0.2433 0.002739 0.02114 0.2932 0.04376

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.20 759.6 0.1848 0.1736 0.05385 0.1313 0.2302 0.5456
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2526 0.04730 0.1896 0.9898 0.9130 0.09699
k(pl)
0.01384

mode bi g mu pl ru ky q H2O
0.2173 0.1787 0 0.2432 0.002732 0.02120 0.2932 0.04377

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.25 760.3 0.1848 0.1736 0.05370 0.1316 0.2300 0.5455
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2530 0.04735 0.1898 0.9896 0.9113 0.09626
k(pl)
0.01399

mode bi g mu pl ru ky q H2O
0.2172 0.1788 0 0.2430 0.002726 0.02126 0.2932 0.04379

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.30 761.0 0.1847 0.1736 0.05354 0.1319 0.2298 0.5454
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2534 0.04740 0.1899 0.9894 0.9095 0.09554
k(pl)
0.01413

mode bi g mu pl ru ky q H2O
0.2171 0.1790 0 0.2429 0.002719 0.02132 0.2932 0.04380

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

18.35 761.7 0.1847 0.1736 0.05339 0.1322 0.2296 0.5453
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2537 0.04745 0.1900 0.9891 0.9076 0.09482
k(pl)
0.01428

mode bi g mu pl ru ky q H2O
0.2171 0.1792 0 0.2427 0.002712 0.02138 0.2932 0.04382

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.40 762.4 0.1847 0.1736 0.05324 0.1324 0.2294 0.5451
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2541 0.04750 0.1902 0.9889 0.9055 0.09411
k(pl)
0.01443

mode bi g mu pl ru ky q H2O
0.2170 0.1794 0 0.2425 0.002705 0.02144 0.2931 0.04383

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.45 763.0 0.1847 0.1736 0.05309 0.1327 0.2291 0.5450
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2545 0.04754 0.1903 0.9887 0.9033 0.09341
k(pl)
0.01458

mode bi g mu pl ru ky q H2O
0.2169 0.1795 0 0.2424 0.002698 0.02149 0.2931 0.04385

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.50 763.7 0.1846 0.1736 0.05294 0.1330 0.2289 0.5449
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2548 0.04759 0.1905 0.9884 0.9010 0.09271
k(pl)
0.01473

mode bi g mu pl ru ky q H2O
0.2168 0.1797 0 0.2422 0.002691 0.02155 0.2931 0.04386

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.55 764.4 0.1846 0.1736 0.05280 0.1333 0.2287 0.5447
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2552 0.04764 0.1906 0.9881 0.8984 0.09202
k(pl)
0.01489

mode bi g mu pl ru ky q H2O
0.2168 0.1799 0 0.2421 0.002684 0.02160 0.2931 0.04388

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

18.60 765.1 0.1846 0.1736 0.05265 0.1336 0.2285 0.5446
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2555 0.04768 0.1907 0.9878 0.8956 0.09133
k(pl)
0.01504

mode bi g mu pl ru ky q H2O
0.2167 0.1801 0 0.2420 0.002677 0.02166 0.2931 0.04390

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.65 765.8 0.1845 0.1736 0.05251 0.1339 0.2283 0.5444
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2559 0.04772 0.1909 0.9875 0.8925 0.09065
k(pl)
0.0152

mode bi g mu pl ru ky q H2O
0.2166 0.1802 0 0.2418 0.002670 0.02171 0.2931 0.04391

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.70 766.5 0.1845 0.1736 0.05237 0.1342 0.2281 0.5443
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2562 0.04777 0.1910 0.9871 0.8889 0.08998
k(pl)
0.01536

mode bi g mu pl ru ky q H2O
0.2165 0.1804 0 0.2417 0.002664 0.02176 0.2931 0.04393

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.75 767.2 0.1845 0.1736 0.05223 0.1344 0.2279 0.5442
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2565 0.04781 0.1912 0.9867 0.8848 0.08932
k(pl)
0.01552

mode bi g mu pl ru ky q H2O
0.2164 0.1806 0 0.2415 0.002657 0.02181 0.2930 0.04394

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.80 767.9 0.1845 0.1737 0.05209 0.1347 0.2277 0.5440
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2569 0.04785 0.1913 0.9862 0.8798 0.08866
k(pl)
0.01568

mode bi g mu pl ru ky q H2O
0.2164 0.1807 0 0.2414 0.002650 0.02186 0.2930 0.04396

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)

18.85 768.6 0.1844 0.1737 0.05195 0.1350 0.2274 0.5439
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2572 0.04789 0.1915 0.9855 0.8732 0.08801
k(pl)
0.01584

mode bi g mu pl ru ky q H2O
0.2163 0.1809 0 0.2413 0.002643 0.02191 0.2930 0.04398

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.90 769.3 0.1844 0.1737 0.05182 0.1353 0.2272 0.5437
z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
0.2575 0.04793 0.1916 0.9844 0.8617 0.08737
k(pl)
0.01601

mode bi g mu pl ru ky q H2O
0.2162 0.1811 0 0.2411 0.002636 0.02195 0.2930 0.04399

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, g, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.65 708.6 0.1833 0.1545 0.05607 0.1124 0.2511 0.5618
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2572 0.04709 0.1017 0.007007 0.3198 2.531e-5

mode bi g pl ilm ru ky q H2O
0.2216 0.1730 0.2426 0 0.003219 0.02304 0.2938 0.04287

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.70 719.6 0.1841 0.1609 0.05704 0.1162 0.2460 0.5574
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2511 0.04655 0.1079 0.007994 0.3258 2.592e-5

mode bi g pl ilm ru ky q H2O
0.2208 0.1731 0.2445 0 0.003119 0.02175 0.2937 0.04303

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.75 728.2 0.1847 0.1659 0.05778 0.1191 0.2419 0.5539
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2464 0.04615 0.1125 0.008860 0.3304 2.637e-5

mode bi g pl ilm ru ky q H2O
0.2201 0.1732 0.2461 0 0.003040 0.02074 0.2936 0.04317

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.80 735.8 0.1852 0.1702 0.05839 0.1218 0.2385 0.5508
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2423 0.04581 0.1165 0.009679 0.3342 2.674e-5

mode bi g pl ilm ru ky q H2O
0.2195 0.1734 0.2474 0 0.002972 0.01987 0.2935 0.04329

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.85 742.7 0.1857 0.1740 0.05892 0.1241 0.2353 0.5480
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2386 0.04551 0.1199 0.01048 0.3377 2.706e-5

mode bi g pl ilm ru ky q H2O
0.2189 0.1736 0.2486 0 0.002911 0.01909 0.2934 0.04340

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.90 749.2 0.1861 0.1775 0.05939 0.1264 0.2324 0.5455
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2352 0.04525 0.1231 0.01127 0.3408 2.734e-5

mode bi g pl ilm ru ky q H2O
0.2184 0.1738 0.2498 0 0.002855 0.01838 0.2934 0.04351

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
16.95 755.3 0.1864 0.1808 0.05983 0.1284 0.2297 0.5431
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2320 0.04500 0.1259 0.01207 0.3437 2.759e-5

mode bi g pl ilm ru ky q H2O
0.2178 0.1740 0.2508 0 0.002802 0.01771 0.2933 0.04362

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.00 761.1 0.1868 0.1838 0.06023 0.1304 0.2271 0.5408
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2290 0.04478 0.1286 0.01287 0.3464 2.782e-5

mode bi g pl ilm ru ky q H2O
0.2172 0.1742 0.2518 0 0.002752 0.01708 0.2932 0.04372

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.05 766.7 0.1871 0.1867 0.06060 0.1324 0.2247 0.5386
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2262 0.04457 0.1311 0.01369 0.3490 2.803e-5

mode bi g pl ilm ru ky q H2O
0.2167 0.1744 0.2528 0 0.002705 0.01647 0.2931 0.04382

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.10 772.1 0.1874 0.1895 0.06096 0.1342 0.2223 0.5364

z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2234 0.04437 0.1334 0.01453 0.3514 2.822e-5

mode bi g pl ilm ru ky q H2O
0.2161 0.1747 0.2538 0 0.002660 0.01589 0.2930 0.04392

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.15 777.4 0.1876 0.1922 0.06129 0.1360 0.2200 0.5343
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2208 0.04418 0.1356 0.01538 0.3537 2.840e-5

mode bi g pl ilm ru ky q H2O
0.2156 0.1749 0.2547 0 0.002617 0.01534 0.2929 0.04402

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.20 782.5 0.1879 0.1947 0.06161 0.1378 0.2178 0.5323
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2182 0.04401 0.1377 0.01625 0.3559 2.857e-5

mode bi g pl ilm ru ky q H2O
0.2150 0.1752 0.2556 0 0.002576 0.01480 0.2928 0.04413

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.25 787.6 0.1882 0.1972 0.06191 0.1395 0.2157 0.5303
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2157 0.04384 0.1397 0.01715 0.3581 2.872e-5

mode bi g pl ilm ru ky q H2O
0.2144 0.1755 0.2564 0 0.002536 0.01427 0.2926 0.04423

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.30 792.5 0.1884 0.1996 0.06220 0.1412 0.2136 0.5284
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2132 0.04367 0.1416 0.01808 0.3601 2.886e-5

mode bi g pl ilm ru ky q H2O
0.2138 0.1758 0.2573 0 0.002498 0.01376 0.2925 0.04433

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.35 797.4 0.1886 0.2019 0.06248 0.1429 0.2115 0.5264
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2109 0.04352 0.1434 0.01903 0.3621 2.899e-5

mode bi g pl ilm ru ky q H2O
0.2132 0.1761 0.2582 0 0.002461 0.01326 0.2924 0.04443

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.40 802.2 0.1888 0.2042 0.06274 0.1445 0.2095 0.5245
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.2085 0.04337 0.1452 0.02001 0.3641 2.912e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2126	0.1765	0.2590		0	0.002425	0.01277	0.2922 0.04453

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.45	806.9	0.1890	0.2064	0.06300	0.1461	0.2075	0.5226
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2062	0.04322	0.1468	0.02102	0.3659	2.923e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2119	0.1768	0.2598		0	0.002391	0.01229	0.2921 0.04464

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.50	811.6	0.1892	0.2086	0.06325	0.1477	0.2056	0.5208
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2040	0.04308	0.1485	0.02207	0.3678	2.934e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2113	0.1772	0.2607		0	0.002357	0.01182	0.2920 0.04474

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.55	816.3	0.1893	0.2107	0.06350	0.1493	0.2037	0.5189
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.2018	0.04294	0.1500	0.02316	0.3695	2.944e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2106	0.1776	0.2615		0	0.002325	0.01135	0.2918 0.04485

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.60	820.9	0.1895	0.2127	0.06373	0.1508	0.2018	0.5170
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1996	0.04281	0.1515	0.02428	0.3713	2.953e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2099	0.1780	0.2623		0	0.002294	0.01089	0.2916 0.04496

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.65	825.5	0.1896	0.2147	0.06396	0.1524	0.1999	0.5152
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1974	0.04268	0.1529	0.02544	0.3730	2.961e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
	0.2092	0.1785	0.2632		0	0.002264	0.01044	0.2915 0.04507

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	x(g)
17.70	830.0	0.1897	0.2167	0.06419	0.1539	0.1981	0.5133
		z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	Q(ilm)
		0.1953	0.04256	0.1543	0.02665	0.3746	2.969e-5

mode	bi	g	pl	ilm	ru	ky	q	H2O
------	----	---	----	-----	----	----	---	-----

0.2084 0.1789 0.2640 0 0.002235 0.009987 0.2913 0.04519

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.75 834.5 0.1898 0.2187 0.06441 0.1554 0.1963 0.5115
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1932 0.04243 0.1556 0.02790 0.3763 2.976e-5

mode bi g pl ilm ru ky q H2O
0.2076 0.1794 0.2648 0 0.002208 0.009541 0.2911 0.04530

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.80 839.1 0.1899 0.2206 0.06462 0.1569 0.1945 0.5096
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1911 0.04232 0.1569 0.02921 0.3779 2.983e-5

mode bi g pl ilm ru ky q H2O
0.2068 0.1799 0.2656 0 0.002181 0.009099 0.2909 0.04542

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.85 843.5 0.1900 0.2225 0.06483 0.1584 0.1927 0.5078
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1890 0.04220 0.1581 0.03056 0.3794 2.989e-5

mode bi g pl ilm ru ky q H2O
0.2060 0.1805 0.2665 0 0.002156 0.008659 0.2907 0.04554

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.90 848.0 0.1901 0.2243 0.06504 0.1599 0.1910 0.5059
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1870 0.04208 0.1593 0.03198 0.3809 2.994e-5

mode bi g pl ilm ru ky q H2O
0.2052 0.1810 0.2673 0 0.002132 0.008221 0.2905 0.04567

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
17.95 852.5 0.1901 0.2261 0.06525 0.1614 0.1892 0.5040
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1849 0.04197 0.1604 0.03345 0.3824 2.999e-5

mode bi g pl ilm ru ky q H2O
0.2043 0.1816 0.2682 0 0.002109 0.007784 0.2902 0.04580

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.00 857.0 0.1902 0.2279 0.06545 0.1629 0.1875 0.5021
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1829 0.04186 0.1615 0.03499 0.3839 3.003e-5

mode bi g pl ilm ru ky q H2O
0.2033 0.1822 0.2691 0 0.002087 0.007349 0.2900 0.04593

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.05 861.5 0.1902 0.2297 0.06565 0.1644 0.1857 0.5002
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1809 0.04176 0.1625 0.03660 0.3853 3.006e-5

mode bi g pl ilm ru ky q H2O
0.2024 0.1829 0.2700 0 0.002067 0.006913 0.2897 0.04607

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.10 865.9 0.1902 0.2314 0.06584 0.1658 0.1840 0.4982
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1789 0.04165 0.1635 0.03828 0.3867 3.009e-5

mode bi g pl ilm ru ky q H2O
0.2014 0.1836 0.2709 0 0.002048 0.006477 0.2895 0.04621

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.15 870.4 0.1901 0.2332 0.06604 0.1673 0.1823 0.4963
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1768 0.04155 0.1644 0.04004 0.3881 3.011e-5

mode bi g pl ilm ru ky q H2O
0.2003 0.1843 0.2718 0 0.002030 0.006040 0.2892 0.04635

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.20 874.9 0.1901 0.2349 0.06623 0.1688 0.1806 0.4943
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1748 0.04144 0.1653 0.04189 0.3895 3.013e-5

mode bi g pl ilm ru ky q H2O
0.1992 0.1851 0.2727 0 0.002014 0.005601 0.2889 0.04650

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.25 879.4 0.1900 0.2366 0.06643 0.1702 0.1788 0.4922
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1728 0.04134 0.1662 0.04384 0.3908 3.014e-5

mode bi g pl ilm ru ky q H2O
0.1980 0.1859 0.2737 0 0.002000 0.005160 0.2885 0.04666

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.30 884.0 0.1899 0.2383 0.06662 0.1717 0.1771 0.4902
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1708 0.04124 0.1669 0.04588 0.3921 3.014e-5

mode bi g pl ilm ru ky q H2O
0.1968 0.1868 0.2747 0 0.001988 0.004715 0.2882 0.04683

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.35 888.6 0.1898 0.2399 0.06681 0.1732 0.1754 0.4881

z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1688 0.04114 0.1677 0.04805 0.3934 3.014e-5

mode bi g pl ilm ru ky q H2O
0.1955 0.1878 0.2757 0 0.001977 0.004265 0.2878 0.04700

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.40 893.2 0.1897 0.2416 0.06701 0.1747 0.1737 0.4859
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1667 0.04105 0.1684 0.05033 0.3947 3.013e-5

mode bi g pl ilm ru ky q H2O
0.1941 0.1887 0.2767 0 0.001969 0.003810 0.2875 0.04718

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.45 897.8 0.1895 0.2432 0.06720 0.1762 0.1719 0.4837
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1647 0.04095 0.1690 0.05275 0.3959 3.011e-5

mode bi g pl ilm ru ky q H2O
0.1926 0.1898 0.2778 0 0.001963 0.003349 0.2871 0.04736

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.50 902.5 0.1893 0.2448 0.06740 0.1777 0.1702 0.4814
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1626 0.04085 0.1696 0.05533 0.3971 3.008e-5

mode bi g pl ilm ru ky q H2O
0.1911 0.1910 0.2790 0 0.001959 0.002879 0.2866 0.04756

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.55 907.2 0.1891 0.2465 0.06760 0.1792 0.1684 0.4790
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1605 0.04076 0.1701 0.05808 0.3983 3.005e-5

mode bi g pl ilm ru ky q H2O
0.1894 0.1922 0.2801 0 0.001959 0.002400 0.2861 0.04777

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.60 912.1 0.1888 0.2481 0.06781 0.1807 0.1666 0.4765
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1584 0.04066 0.1705 0.06102 0.3994 3.001e-5

mode bi g pl ilm ru ky q H2O
0.1876 0.1935 0.2814 0 0.001961 0.001909 0.2856 0.04799

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
18.65 916.9 0.1884 0.2497 0.06801 0.1823 0.1648 0.4740
z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
0.1562 0.04057 0.1709 0.06419 0.4005 2.995e-5


```
mode   bi    g    pl   ilm    ru    ky    q    H2O
      0.1857 0.1949 0.2827    0 0.001967 0.001404 0.2851 0.04823
```

```
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
      18.70 921.9 0.1880 0.2513 0.06823 0.1838 0.1630 0.4713
          z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
          0.1541 0.04047 0.1711 0.06761 0.4016 2.989e-5
```

```
mode   bi    g    pl   ilm    ru    ky    q    H2O
      0.1836 0.1965 0.2840    0 0.0019770 0.0008824 0.2845 0.04849
```

```
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
      18.75 927.0 0.1876 0.2529 0.06845 0.1854 0.1611 0.4685
          z(g) f(g) ca(pl) k(pl) x(ilm) Q(ilm)
          0.1518 0.04038 0.1713 0.07133 0.4027 2.982e-5
```

```
mode   bi    g    pl   ilm    ru    ky    q    H2O
      0.1814 0.1982 0.2855    0 0.0019930 0.0003403 0.2838 0.04876
```

calcs use:

composition (from script)

```
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
```

<=====>

phases : bi, g, mu, pl, ru, ky, q, H2O

```
-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(g)
      9.95 642.9 0.1940 0.1568 0.1133 0.08471 0.2746 0.5460
          z(g) f(g) fe(mu) y(mu) na(mu) ca(pl)
          0.07267 0.01588 0.1707 0.9989 0.9852 0.2766
          k(pl)
0.001591
```

```
mode   bi    g    mu    pl    ru    ky    q    H2O
      0.2247 0.1376    0 0.2995 0.003987    0 0.2924 0.04180
```

calcs use:

composition (from script)

```
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
```

<=====>

phases : bi, g, mu, pl, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

```
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
```

<=====>

phases : bi, ep, g, mu, pl, ru, q, H2O

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
15.00	752.9	0.1879	0.2511	0.09052	0.1257	0.2016	0.3491	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.3073	0.5244	0.1412	0.02910	0.1933	0.9888		
	na(mu)	ca(pl)	k(pl)					
	0.7610	0.2179	0.01039					
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2158	0	0.1626	0.001076	0.2795	0.002881	0.2948	0.04337

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
15.05	753.5	0.1877	0.2508	0.08999	0.1260	0.2015	0.3484	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.3067	0.5243	0.1428	0.02940	0.1932	0.9891		
	na(mu)	ca(pl)	k(pl)					
	0.7679	0.2165	0.01051					
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2156	0	0.1631	0.001752	0.2786	0.002878	0.2949	0.04329

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
15.10	754.1	0.1876	0.2502	0.08931	0.1262	0.2016	0.3474	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.3061	0.5246	0.1449	0.02976	0.1932	0.9938		
	na(mu)	ca(pl)	k(pl)					
	0.8649	0.2152	0.01062					
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2156	0	0.1634	0.002658	0.2773	0.002869	0.2951	0.04315

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
15.15	754.7	0.1874	0.2499	0.08877	0.1265	0.2015	0.3466	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.3055	0.5246	0.1466	0.03005	0.1932	0.9936		
	na(mu)	ca(pl)	k(pl)					
	0.8603	0.2138	0.01074					
mode	bi	ep	g	mu	pl	ru	q	H2O
	0.2154	0	0.1638	0.003337	0.2764	0.002865	0.2951	0.04306

P(kbar)	T(iC)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	f(ep)	
15.20	755.3	0.1873	0.2496	0.08823	0.1268	0.2014	0.3458	
	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	y(mu)		
	0.3049	0.5245	0.1483	0.03034	0.1931	0.9933		
	na(mu)	ca(pl)	k(pl)					
	0.8552	0.2125	0.01085					
mode	bi	ep	g	mu	pl	ru	q	H2O

0.2152 0 0.1643 0.004041 0.2754 0.002861 0.2952 0.04297

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.25 755.8 0.1869 0.2491 0.08775 0.1270 0.2013 0.3451
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3044 0.5242 0.1498 0.03063 0.1928 0.9904
na(mu) ca(pl) k(pl)
0.7979 0.2109 0.01094

mode bi ep g mu pl ru q H2O
0.2147 0 0.1650 0.004676 0.2747 0.002862 0.2951 0.04293

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
15.30 756.3 0.1867 0.2486 0.08716 0.1273 0.2013 0.3443
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.3038 0.5242 0.1516 0.03094 0.1927 0.9909
na(mu) ca(pl) k(pl)
0.8080 0.2094 0.01105

mode bi ep g mu pl ru q H2O
0.2146 0 0.1654 0.005468 0.2736 0.002858 0.2952 0.04283

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.10 760.1 0.1833 0.2324 0.07619 0.1297 0.2054 0.3281
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2926 0.5259 0.1854 0.03648 0.1893 0.9907
na(mu) ca(pl) k(pl)
0.8373 0.1794 0.01226

mode bi ep g mu pl ru q H2O
0.2116 0 0.1738 0.02228 0.2521 0.002847 0.2969 0.04048

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.15 760.1 0.1832 0.2309 0.07533 0.1297 0.2060 0.3268
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2917 0.5265 0.1881 0.03688 0.1891 0.9912
na(mu) ca(pl) k(pl)
0.8484 0.1772 0.01230

mode bi ep g mu pl ru q H2O
0.2117 0 0.1741 0.02373 0.2502 0.002845 0.2971 0.04024

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.20 759.9 0.1831 0.2292 0.07446 0.1298 0.2067 0.3255
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2908 0.5270 0.1909 0.03729 0.1889 0.9915
na(mu) ca(pl) k(pl)
0.8565 0.1748 0.01233

mode bi ep g mu pl ru q H2O

0.2117 0 0.1745 0.02524 0.2483 0.002844 0.2974 0.03999

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.25 759.7 0.1830 0.2274 0.07357 0.1298 0.2075 0.3242
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2899 0.5276 0.1937 0.03770 0.1887 0.9917
na(mu) ca(pl) k(pl)
0.8634 0.1724 0.01235

mode bi ep g mu pl ru q H2O
0.2118 0 0.1750 0.02681 0.2463 0.002844 0.2976 0.03973

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.30 759.4 0.1829 0.2254 0.07265 0.1297 0.2083 0.3228
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2890 0.5282 0.1965 0.03813 0.1884 0.9919
na(mu) ca(pl) k(pl)
0.8697 0.1698 0.01236

mode bi ep g mu pl ru q H2O
0.2118 0 0.1754 0.02846 0.2442 0.002845 0.2979 0.03945

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.35 759.0 0.1828 0.2232 0.07170 0.1297 0.2093 0.3215
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2881 0.5288 0.1995 0.03858 0.1881 0.9921
na(mu) ca(pl) k(pl)
0.8757 0.1671 0.01235

mode bi ep g mu pl ru q H2O
0.2119 0 0.1758 0.03018 0.2420 0.002847 0.2981 0.03916

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.40 758.5 0.1827 0.2208 0.07072 0.1296 0.2103 0.3201
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2872 0.5295 0.2026 0.03904 0.1878 0.9922
na(mu) ca(pl) k(pl)
0.8814 0.1643 0.01233

mode bi ep g mu pl ru q H2O
0.2119 0 0.1762 0.03201 0.2398 0.002850 0.2984 0.03886

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.45 757.9 0.1826 0.2183 0.06970 0.1294 0.2114 0.3187
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2862 0.5303 0.2058 0.03952 0.1875 0.9923
na(mu) ca(pl) k(pl)
0.8870 0.1613 0.01229

mode bi ep g mu pl ru q H2O

0.2120 0 0.1766 0.03393 0.2374 0.002853 0.2987 0.03853

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.50 757.2 0.1825 0.2154 0.06864 0.1293 0.2127 0.3172
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2853 0.5312 0.2092 0.04001 0.1872 0.9925
na(mu) ca(pl) k(pl)
0.8925 0.1582 0.01224

mode bi ep g mu pl ru q H2O
0.2122 0 0.1770 0.03597 0.2349 0.002857 0.2990 0.03818

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.55 756.4 0.1824 0.2124 0.06753 0.1290 0.2141 0.3157
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2843 0.5321 0.2127 0.04054 0.1868 0.9926
na(mu) ca(pl) k(pl)
0.8980 0.1549 0.01216

mode bi ep g mu pl ru q H2O
0.2123 0 0.1774 0.03814 0.2322 0.002862 0.2993 0.03780

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.60 755.4 0.1823 0.2090 0.06636 0.1287 0.2157 0.3142
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2833 0.5332 0.2165 0.04109 0.1864 0.9927
na(mu) ca(pl) k(pl)
0.9035 0.1514 0.01205

mode bi ep g mu pl ru q H2O
0.2125 0 0.1777 0.04048 0.2294 0.002869 0.2997 0.03740

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.65 754.2 0.1823 0.2052 0.06511 0.1284 0.2175 0.3126
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2823 0.5344 0.2204 0.04168 0.1860 0.9928
na(mu) ca(pl) k(pl)
0.9090 0.1477 0.01192

mode bi ep g mu pl ru q H2O
0.2127 0 0.1781 0.04300 0.2263 0.002877 0.3000 0.03695

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.70 752.8 0.1822 0.2009 0.06378 0.1279 0.2195 0.3110
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2812 0.5358 0.2246 0.04232 0.1855 0.9929
na(mu) ca(pl) k(pl)
0.9146 0.1436 0.01175

mode bi ep g mu pl ru q H2O

0.2130 0 0.1784 0.04575 0.2230 0.002887 0.3005 0.03646

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.75 751.0 0.1822 0.1960 0.06233 0.1274 0.2219 0.3093
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2801 0.5374 0.2293 0.04303 0.1850 0.9930
na(mu) ca(pl) k(pl)
0.9204 0.1392 0.01153

mode bi ep g mu pl ru q H2O
0.2134 0 0.1787 0.04881 0.2194 0.002899 0.3009 0.03592

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.80 748.8 0.1823 0.1903 0.06071 0.1266 0.2248 0.3075
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2790 0.5393 0.2344 0.04383 0.1844 0.9931
na(mu) ca(pl) k(pl)
0.9265 0.1342 0.01125

mode bi ep g mu pl ru q H2O
0.2138 0 0.1790 0.05227 0.2153 0.002915 0.3015 0.03529

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.85 746.0 0.1824 0.1834 0.05884 0.1256 0.2283 0.3057
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2779 0.5416 0.2403 0.04476 0.1837 0.9931
na(mu) ca(pl) k(pl)
0.9332 0.1285 0.01087

mode bi ep g mu pl ru q H2O
0.2144 0 0.1792 0.05635 0.2105 0.002937 0.3021 0.03454

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.90 742.0 0.1825 0.1742 0.05650 0.1242 0.2331 0.3036
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2766 0.5448 0.2476 0.04597 0.1827 0.9932
na(mu) ca(pl) k(pl)
0.9409 0.1213 0.01032

mode bi ep g mu pl ru q H2O
0.2152 0 0.1793 0.06154 0.2046 0.002969 0.3029 0.03358

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.95 734.2 0.1830 0.1578 0.05259 0.1213 0.2420 0.3008
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2752 0.5506 0.2596 0.04807 0.1809 0.9933
na(mu) ca(pl) k(pl)
0.9524 0.1094 0.009255

mode bi ep g mu pl ru q H2O

0.2167 0 0.1791 0.07036 0.1947 0.003036 0.3042 0.03192
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : bi, ep, g, mu, pl, ru, q, H2O

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.08 760.1 0.1833 0.2329 0.07654 0.1297 0.2051 0.3286
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2930 0.5256 0.1843 0.03631 0.1892 0.9902
na(mu) ca(pl) k(pl)
0.8282 0.1802 0.01223

mode bi ep g mu pl ru q H2O
0.2114 0 0.1737 0.02170 0.2529 0.002850 0.2968 0.04060

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.12 760.1 0.1833 0.2319 0.07584 0.1297 0.2056 0.3276
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2922 0.5261 0.1865 0.03664 0.1892 0.9909
na(mu) ca(pl) k(pl)
0.8425 0.1785 0.01228

mode bi ep g mu pl ru q H2O
0.2116 0 0.1739 0.02286 0.2514 0.002846 0.2970 0.04038

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.16 760.0 0.1832 0.2306 0.07516 0.1298 0.2062 0.3265
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2915 0.5266 0.1887 0.03696 0.1891 0.9912
na(mu) ca(pl) k(pl)
0.8502 0.1767 0.01231

mode bi ep g mu pl ru q H2O
0.2117 0 0.1742 0.02403 0.2498 0.002844 0.2972 0.04019

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.20 759.9 0.1831 0.2292 0.07446 0.1298 0.2067 0.3255
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2908 0.5270 0.1909 0.03729 0.1889 0.9915
na(mu) ca(pl) k(pl)
0.8565 0.1748 0.01233

mode bi ep g mu pl ru q H2O
0.2117 0 0.1745 0.02524 0.2483 0.002844 0.2974 0.03999

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

16.24 759.7 0.1830 0.2278 0.07375 0.1298 0.2073 0.3244
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2901 0.5275 0.1931 0.03762 0.1887 0.9917
na(mu) ca(pl) k(pl)
0.8621 0.1729 0.01235

mode bi ep g mu pl ru q H2O
0.2117 0 0.1749 0.02649 0.2467 0.002844 0.2976 0.03978

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.28 759.5 0.1829 0.2262 0.07302 0.1297 0.2080 0.3234
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2894 0.5279 0.1954 0.03796 0.1885 0.9918
na(mu) ca(pl) k(pl)
0.8673 0.1708 0.01236

mode bi ep g mu pl ru q H2O
0.2118 0 0.1752 0.02779 0.2451 0.002845 0.2978 0.03956

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.32 759.2 0.1828 0.2245 0.07227 0.1297 0.2087 0.3223
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2887 0.5284 0.1977 0.03831 0.1883 0.9920
na(mu) ca(pl) k(pl)
0.8722 0.1687 0.01236

mode bi ep g mu pl ru q H2O
0.2118 0 0.1755 0.02914 0.2434 0.002846 0.2980 0.03934

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.36 758.9 0.1827 0.2227 0.07151 0.1297 0.2095 0.3212
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2879 0.5290 0.2001 0.03867 0.1881 0.9921
na(mu) ca(pl) k(pl)
0.8769 0.1665 0.01235

mode bi ep g mu pl ru q H2O
0.2119 0 0.1759 0.03054 0.2416 0.002848 0.2982 0.03910

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.40 758.5 0.1827 0.2208 0.07072 0.1296 0.2103 0.3201
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2872 0.5295 0.2026 0.03904 0.1878 0.9922
na(mu) ca(pl) k(pl)
0.8814 0.1643 0.01233

mode bi ep g mu pl ru q H2O
0.2119 0 0.1762 0.03201 0.2398 0.002850 0.2984 0.03886

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

16.44 758.1 0.1826 0.2188 0.06991 0.1295 0.2112 0.3190
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2864 0.5301 0.2052 0.03942 0.1876 0.9923
na(mu) ca(pl) k(pl)
0.8859 0.1619 0.01230

mode bi ep g mu pl ru q H2O
0.2120 0 0.1765 0.03354 0.2379 0.002852 0.2986 0.03860

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.48 757.5 0.1825 0.2166 0.06907 0.1293 0.2122 0.3178
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2857 0.5308 0.2078 0.03981 0.1873 0.9924
na(mu) ca(pl) k(pl)
0.8903 0.1595 0.01226

mode bi ep g mu pl ru q H2O
0.2121 0 0.1768 0.03514 0.2359 0.002855 0.2989 0.03832

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.52 756.9 0.1824 0.2142 0.06820 0.1292 0.2133 0.3166
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2849 0.5315 0.2106 0.04022 0.1870 0.9925
na(mu) ca(pl) k(pl)
0.8947 0.1569 0.01221

mode bi ep g mu pl ru q H2O
0.2122 0 0.1771 0.03682 0.2338 0.002859 0.2991 0.03803

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.56 756.2 0.1824 0.2117 0.06730 0.1290 0.2144 0.3154
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2841 0.5323 0.2135 0.04065 0.1867 0.9926
na(mu) ca(pl) k(pl)
0.8991 0.1542 0.01214

mode bi ep g mu pl ru q H2O
0.2124 0 0.1774 0.03860 0.2316 0.002864 0.2994 0.03773

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.60 755.4 0.1823 0.2090 0.06636 0.1287 0.2157 0.3142
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2833 0.5332 0.2165 0.04109 0.1864 0.9927
na(mu) ca(pl) k(pl)
0.9035 0.1514 0.01205

mode bi ep g mu pl ru q H2O
0.2125 0 0.1777 0.04048 0.2294 0.002869 0.2997 0.03740

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

16.64 754.4 0.1823 0.2060 0.06537 0.1285 0.2171 0.3129
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2825 0.5342 0.2196 0.04156 0.1861 0.9928
na(mu) ca(pl) k(pl)
0.9079 0.1484 0.01195

mode bi ep g mu pl ru q H2O
0.2127 0 0.1780 0.04248 0.2269 0.002875 0.3000 0.03705

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.68 753.4 0.1822 0.2027 0.06432 0.1281 0.2187 0.3117
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2816 0.5352 0.2229 0.04206 0.1857 0.9929
na(mu) ca(pl) k(pl)
0.9123 0.1453 0.01182

mode bi ep g mu pl ru q H2O
0.2129 0 0.1783 0.04462 0.2244 0.002883 0.3003 0.03667

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.72 752.1 0.1822 0.1990 0.06321 0.1277 0.2205 0.3103
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2808 0.5364 0.2264 0.04260 0.1853 0.9929
na(mu) ca(pl) k(pl)
0.9169 0.1419 0.01167

mode bi ep g mu pl ru q H2O
0.2132 0 0.1785 0.04694 0.2216 0.002891 0.3006 0.03625

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.76 750.6 0.1822 0.1950 0.06202 0.1272 0.2225 0.3090
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2799 0.5377 0.2302 0.04318 0.1849 0.9930
na(mu) ca(pl) k(pl)
0.9216 0.1382 0.01148

mode bi ep g mu pl ru q H2O
0.2135 0 0.1788 0.04947 0.2186 0.002902 0.3010 0.03580

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.80 748.8 0.1823 0.1903 0.06071 0.1266 0.2248 0.3075
Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
0.2790 0.5393 0.2344 0.04383 0.1844 0.9931
na(mu) ca(pl) k(pl)
0.9265 0.1342 0.01125

mode bi ep g mu pl ru q H2O
0.2138 0 0.1790 0.05228 0.2153 0.002915 0.3015 0.03529

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)

```

16.84  746.7 0.1823 0.1849 0.05924 0.1259 0.2275 0.3060
      Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
      0.2781 0.5411 0.2390 0.04456 0.1838 0.9931
      na(mu) ca(pl) k(pl)
      0.9318 0.1297 0.01095

```

```

mode   bi   ep   g   mu   pl   ru   q   H2O
      0.2143   0 0.1791 0.05547 0.2116 0.002932 0.3019 0.03470

```

```

-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.88  743.8 0.1825 0.1783 0.05752 0.1249 0.2310 0.3044
      Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
      0.2771 0.5434 0.2444 0.04544 0.1831 0.9932
      na(mu) ca(pl) k(pl)
      0.9376 0.1244 0.01057

```

```

mode   bi   ep   g   mu   pl   ru   q   H2O
      0.2148   0 0.1792 0.05927 0.2072 0.002955 0.3025 0.03400

```

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-----
P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) f(ep)
16.92  739.8 0.1827 0.1693 0.05530 0.1234 0.2357 0.3026
      Q(ep) x(g) z(g) f(g) fe(mu) y(mu)
      0.2761 0.5465 0.2513 0.04660 0.1822 0.9932
      na(mu) ca(pl) k(pl)
      0.9446 0.1176 0.01001

```

```

mode   bi   ep   g   mu   pl   ru   q   H2O
      0.2156   0 0.1793 0.06424 0.2015 0.002988 0.3033 0.03308

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q, H2O

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40  688.6 0.05750 0.1936 0.9467 0.008697 0.001074 0.5141
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7375 0.1936 0.1955 0.05319 0.1027 0.2542
      x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
      0.5305 0.09458 0.009750 0.3003 0.003077 0.4056
      Q(ilm)

```

6.06E-05

```

mode   liq   bi   g   pl   ilm   ru   ky   q   H2O
      0.1041 0.2178 0.1426 0.2491 0.004370 0.0028520 0.0007802 0.2783   0

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60  686.9 0.05562 0.1931 0.9479 0.008639 0.001033 0.5126

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7402 0.1924 0.1919 0.05330 0.1022 0.2550
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5333 0.1043 0.01081 0.2928 0.003075 0.3990
Q(ilm)

5.66E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
	0.1032	0.2181	0.1439	0.2468	0.004222	0.002899	0.001982	0.2789		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 685.1 0.05374 0.1925 0.9492 0.0085440.0009903 0.5109
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7429 0.1912 0.1882 0.05340 0.1017 0.2559
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5364 0.1149 0.01207 0.2842 0.003074 0.3923
Q(ilm)

5.29E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
	0.1022	0.2184	0.1454	0.2442	0.004057	0.002949	0.003307	0.2795		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 683.0 0.05186 0.1920 0.9506 0.0084100.0009477 0.5091
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7456 0.1900 0.1845 0.05347 0.1011 0.2567
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5395 0.1265 0.01354 0.2745 0.003072 0.3855
Q(ilm)

4.95E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
	0.1013	0.2187	0.1470	0.2413	0.003873	0.003002	0.004755	0.2801		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 680.8 0.04999 0.1915 0.9521 0.0082360.0009052 0.5071
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7483 0.1887 0.1806 0.05351 0.1005 0.2576
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5428 0.1388 0.01522 0.2638 0.003070 0.3786
Q(ilm)

4.64E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
	0.1004	0.2190	0.1488	0.2380	0.003671	0.003058	0.006317	0.2807		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 678.4 0.04814 0.1909 0.9537 0.0080230.0008635 0.5050
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7511 0.1875 0.1767 0.05351 0.09984 0.2586

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5462 0.1515 0.01711 0.2520 0.003067 0.3718
Q(ilm)

4.37E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
	0.09945	0.2193	0.1507	0.2346	0.003452	0.003117	0.007975	0.2814	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 675.8 0.04630 0.1904 0.9553 0.0077770.0008231 0.5029
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7539 0.1863 0.1727 0.05347 0.09911 0.2597
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5495 0.1645 0.01917 0.2394 0.003062 0.3650
Q(ilm)

4.12E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
	0.09851	0.2196	0.1527	0.2310	0.003219	0.003177	0.009698	0.2820	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 673.1 0.04450 0.1897 0.9570 0.0075040.0007844 0.5008
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7567 0.1852 0.1687 0.05338 0.09833 0.2609
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5528 0.1773 0.02135 0.2263 0.003054 0.3583
Q(ilm)

3.90E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
	0.09757	0.2199	0.1548	0.2274	0.002977	0.003239	0.01145	0.2826	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 670.3 0.04275 0.1891 0.9586 0.0072130.0007479 0.4988
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7595 0.1841 0.1647 0.05325 0.09752 0.2622
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5560 0.1896 0.02360 0.2129 0.003042 0.3519
Q(ilm)

3.70E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
	0.09663	0.2203	0.1568	0.2239	0.002732	0.003301	0.01320	0.2832	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 667.5 0.04105 0.1884 0.9601 0.0069110.0007137 0.4968
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7624 0.1832 0.1606 0.05307 0.09669 0.2636
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5591 0.2014 0.02586 0.1995 0.003025 0.3456

Q(ilm)

3.51E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
0.09569	0.2206	0.1587	0.2205	0.002488	0.003361	0.01491	0.2838	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	664.6	0.03941	0.1876	0.9616	0.0066050	0.0006819	0.4949
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7652	0.1823	0.1566	0.05285	0.09585	0.2650
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5621	0.2123	0.02809	0.1863	0.003004	0.3396

Q(ilm)

3.35E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
0.09476	0.2209	0.1606	0.2172	0.002251	0.003419	0.01657	0.2843	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	661.8	0.03783	0.1867	0.9630	0.0063000	0.0006524	0.4931
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7680	0.1816	0.1527	0.05258	0.09499	0.2666
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5649	0.2225	0.03025	0.1735	0.002976	0.3338

Q(ilm)

3.20E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
0.09384	0.2212	0.1623	0.2142	0.002025	0.003476	0.01815	0.2848	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.80	658.9	0.03632	0.1858	0.9644	0.0060010	0.0006252	0.4914
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7709	0.1809	0.1487	0.05229	0.09414	0.2682
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5676	0.2318	0.03233	0.1612	0.002943	0.3282

Q(ilm)

3.07E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
0.09293	0.2215	0.1638	0.2115	0.001810	0.003529	0.01966	0.2853	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.00	656.0	0.03487	0.1847	0.9656	0.0057080	0.0006000	0.4897
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7737	0.1802	0.1448	0.05196	0.09328	0.2698
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5702	0.2404	0.03429	0.1495	0.002903	0.3228

Q(ilm)

2.95E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
	0.09203	0.2218	0.1652	0.2090	0.001610	0.003580	0.02108	0.2857		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
14.20	653.1	0.03348	0.1836	0.9668	0.0054260	0.0005767	0.4881	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7765	0.1797	0.1410	0.05159	0.09243	0.2715		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.5726	0.2482	0.03615	0.1384	0.002857	0.3175		
	Q(ilm)							

2.84E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
	0.09114	0.2221	0.1665	0.2067	0.001425	0.003628	0.02242	0.2861		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
14.40	650.3	0.03214	0.1825	0.9679	0.0051530	0.0005551	0.4866	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7794	0.1792	0.1372	0.05120	0.09157	0.2732		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.5750	0.2553	0.03789	0.1280	0.002804	0.3124		
	Q(ilm)							

2.73E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
	0.09025	0.2224	0.1677	0.2046	0.001255	0.003673	0.02368	0.2865		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
14.60	647.4	0.03086	0.1812	0.9690	0.0048900	0.0005349	0.4851	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7822	0.1787	0.1334	0.05077	0.09070	0.2749		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.5773	0.2618	0.03951	0.1183	0.002745	0.3075		
	Q(ilm)							

2.64E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
	0.08937	0.2226	0.1687	0.2028	0.001100	0.003717	0.02487	0.2868		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
14.80	644.5	0.02963	0.1799	0.9700	0.0046370	0.0005160	0.4835	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.7851	0.1783	0.1297	0.05032	0.08983	0.2767		
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
	0.5796	0.2678	0.04103	0.1091	0.002680	0.3027		
	Q(ilm)							

2.55E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O	
------	-----	----	---	----	-----	----	----	---	-----	--

0.08850 0.2229 0.1696 0.20120.0009598 0.003758 0.02598 0.2871 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 641.5 0.02844 0.1785 0.9710 0.0043940.0004983 0.4820
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7880 0.1778 0.1260 0.04984 0.08894 0.2785
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5818 0.2734 0.04244 0.1006 0.002608 0.2980
Q(ilm)
2.46E-05

mode liq bi g pl ilm ru ky q H2O
0.08762 0.2232 0.1704 0.19970.0008333 0.003798 0.02704 0.2874 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 638.5 0.02729 0.1769 0.9719 0.0041590.0004814 0.4804
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7909 0.1775 0.1223 0.04932 0.08804 0.2803
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5840 0.2785 0.04375 0.09259 0.002529 0.2933
Q(ilm)
2.38E-05

mode liq bi g pl ilm ru ky q H2O
0.08674 0.2235 0.1711 0.19840.0007205 0.003836 0.02804 0.2877 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 635.4 0.02617 0.1753 0.9728 0.0039320.0004654 0.4788
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7939 0.1771 0.1186 0.04877 0.08710 0.2822
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5862 0.2832 0.04496 0.08513 0.002444 0.2887
Q(ilm)
2.31E-05

mode liq bi g pl ilm ru ky q H2O
0.08584 0.2237 0.1717 0.19730.0006206 0.003874 0.02900 0.2880 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 632.2 0.02509 0.1736 0.9737 0.0037120.0004501 0.4771
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7970 0.1767 0.1149 0.04818 0.08612 0.2841
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5884 0.2876 0.04609 0.07814 0.002352 0.2841
Q(ilm)
2.23E-05

mode liq bi g pl ilm ru ky q H2O
0.08494 0.2240 0.1722 0.19630.0005336 0.003910 0.02991 0.2882 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 628.8 0.02403 0.1717 0.9746 0.0034980.0004352 0.4753
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8002 0.1764 0.1112 0.04755 0.08509 0.2861
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5906 0.2918 0.04713 0.07159 0.002253 0.2795
 Q(ilm)

2.16E-05

mode liq bi g pl ilm ru ky q H2O
 0.08401 0.2243 0.1726 0.19550.0004592 0.003947 0.03079 0.2884 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 625.2 0.02299 0.1697 0.9755 0.0032870.0004207 0.4732
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8035 0.1760 0.1073 0.04686 0.08398 0.2883
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5929 0.2957 0.04808 0.06542 0.002145 0.2748
 Q(ilm)

2.10E-05

mode liq bi g pl ilm ru ky q H2O
 0.08305 0.2245 0.1729 0.19480.0003975 0.003985 0.03165 0.2886 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 621.3 0.02196 0.1674 0.9764 0.0030780.0004062 0.4710
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8070 0.1756 0.1034 0.04611 0.08277 0.2905
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5953 0.2995 0.04895 0.05959 0.002027 0.2700
 Q(ilm)

2.03E-05

mode liq bi g pl ilm ru ky q H2O
 0.08204 0.2248 0.1732 0.19420.0003492 0.004024 0.03248 0.2889 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.40 616.9 0.02093 0.1649 0.9773 0.0028680.0003917 0.4683
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.8108 0.1752 0.09926 0.04527 0.08142 0.2929
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5979 0.3032 0.04974 0.05402 0.001897 0.2650
 Q(ilm)

1.96E-05

mode liq bi g pl ilm ru ky q H2O
 0.08096 0.2251 0.1734 0.19380.0003157 0.004065 0.03332 0.2891 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.60 611.8 0.01988 0.1620 0.9784 0.0026520.0003767 0.4651

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8150 0.1748 0.09482 0.04431 0.07984 0.2957
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6007 0.3068 0.05043 0.04864 0.001751 0.2596
Q(ilm)

```

1.89E-05

```

mode liq bi g pl ilm ru ky q H2O
0.07977 0.2255 0.1735 0.19340.0002998 0.004111 0.03417 0.2892 0

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 605.5 0.01877 0.1585 0.9796 0.0024200.0003603 0.4609
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8199 0.1743 0.08982 0.04314 0.07788 0.2989
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6041 0.3107 0.05100 0.04327 0.001578 0.2536
Q(ilm)

```

1.82E-05

```

mode liq bi g pl ilm ru ky q H2O
0.07839 0.2258 0.1735 0.19330.0003082 0.004165 0.03508 0.2895 0

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 596.4 0.01748 0.1535 0.9813 0.0021410.0003405 0.4543
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8265 0.1735 0.08346 0.04151 0.07504 0.3034
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.6087 0.3151 0.05137 0.03746 0.001349 0.2460
Q(ilm)

```

1.74E-05

```

mode liq bi g pl ilm ru ky q H2O
0.07656 0.2264 0.1732 0.19340.0003629 0.004241 0.03616 0.2897 0

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q, H2O

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 684.1 0.05595 0.1950 0.9506 0.007725 0.001056 0.5172
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7388 0.1974 0.1926 0.05233 0.1010 0.2604
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5349 0.08384 0.008394 0.2698 0.003138 0.4084
Q(ilm)

```

6.40E-05

```

mode   liq   bi    g    pl   ilm    ru    ky    q    H2O
      0 0.2223 0.1373 0.2974 0.004524 0.0028140 0.0007660 0.2926 0.04237
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60  682.7 0.05422 0.1943 0.9515 0.007725 0.001019 0.5159
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7414 0.1963 0.1892 0.05245 0.1006 0.2611
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5374 0.09234 0.009244 0.2644 0.003130 0.4021
      Q(ilm)
5.97E-05

```

```

mode   liq   bi    g    pl   ilm    ru    ky    q    H2O
      0 0.2224 0.1384 0.2952 0.004400 0.002856 0.001767 0.2926 0.04236
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80  681.2 0.05249 0.1936 0.9524 0.0076990 0.0009808 0.5144
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7440 0.1951 0.1858 0.05256 0.1002 0.2618
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5401 0.1018 0.01025 0.2583 0.003123 0.3956
      Q(ilm)
5.57E-05

```

```

mode   liq   bi    g    pl   ilm    ru    ky    q    H2O
      0 0.2225 0.1397 0.2927 0.004263 0.002900 0.002877 0.2927 0.04234
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00  679.5 0.05078 0.1929 0.9534 0.0076430 0.0009425 0.5127
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7466 0.1939 0.1823 0.05265 0.09980 0.2625
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5430 0.1122 0.01145 0.2512 0.003116 0.3889
      Q(ilm)
5.21E-05

```

```

mode   liq   bi    g    pl   ilm    ru    ky    q    H2O
      0 0.2227 0.1412 0.2900 0.004110 0.002948 0.004104 0.2927 0.04233
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20  677.7 0.04906 0.1922 0.9545 0.0075520 0.0009038 0.5109
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7493 0.1926 0.1787 0.05272 0.09932 0.2632
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5460 0.1236 0.01285 0.2432 0.003108 0.3822
      Q(ilm)
4.88E-05

```

```

mode   liq   bi    g    pl   ilm    ru    ky    q    H2O
      0 0.2228 0.1428 0.2869 0.003939 0.002999 0.005452 0.2928 0.04231

```

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	675.7	0.04736	0.1915	0.9557	0.0074260	0.0008653	0.5089
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7519	0.1913	0.1751	0.05276	0.09878	0.2639	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5491	0.1357	0.01447	0.2342	0.003099	0.3755	
	Q(ilm)						

4.58E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2229	0.1446	0.2835	0.003750	0.003053	0.006915	0.2929	0.04229	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.60	673.5	0.04566	0.1908	0.9569	0.0072660	0.0008272	0.5068
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7546	0.1900	0.1714	0.05277	0.09818	0.2647	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5522	0.1484	0.01629	0.2243	0.003089	0.3687	
	Q(ilm)						

4.31E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2231	0.1466	0.2799	0.003544	0.003110	0.008477	0.2930	0.04227	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	671.2	0.04399	0.1901	0.9582	0.0070740	0.0007902	0.5047
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7573	0.1887	0.1676	0.05273	0.09754	0.2656	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5554	0.1613	0.01830	0.2137	0.003077	0.3620	
	Q(ilm)						

4.06E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2233	0.1487	0.2761	0.003323	0.003168	0.01011	0.2931	0.04225	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	668.8	0.04234	0.1893	0.9595	0.0068560	0.0007547	0.5026
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7600	0.1874	0.1638	0.05266	0.09685	0.2666	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5585	0.1742	0.02045	0.2026	0.003062	0.3554	
	Q(ilm)						

3.84E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2234	0.1508	0.2722	0.003091	0.003228	0.01179	0.2932	0.04223	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

13.20 666.2 0.04073 0.1885 0.9608 0.0066180.0007209 0.5005
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7628 0.1863 0.1599 0.05254 0.09613 0.2676
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5615 0.1867 0.02269 0.1911 0.003043 0.3490
Q(ilm)

3.64E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2236	0.1529	0.2683	0.002853	0.003289	0.01348	0.2934	0.04220	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 663.6 0.03916 0.1877 0.9621 0.0063660.0006890 0.4985
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7655 0.1853 0.1561 0.05237 0.09537 0.2688
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5645 0.1987 0.02497 0.1796 0.003019 0.3427
Q(ilm)

3.46E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2237	0.1550	0.2645	0.002613	0.003349	0.01516	0.2935	0.04218	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 660.9 0.03764 0.1868 0.9634 0.0061060.0006592 0.4965
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7683 0.1843 0.1523 0.05216 0.09460 0.2700
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5673 0.2100 0.02724 0.1681 0.002991 0.3367
Q(ilm)

3.30E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2239	0.1569	0.2608	0.002378	0.003407	0.01679	0.2936	0.04215	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 658.2 0.03617 0.1858 0.9646 0.0058440.0006314 0.4946
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7711 0.1834 0.1484 0.05191 0.09381 0.2714
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5700 0.2205 0.02947 0.1569 0.002956 0.3309
Q(ilm)

3.15E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2241	0.1588	0.2574	0.002149	0.003463	0.01836	0.2936	0.04212	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 655.4 0.03475 0.1848 0.9658 0.0055820.0006056 0.4928
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7739 0.1826 0.1446 0.05163 0.09301 0.2728
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5725 0.2302 0.03162 0.1461 0.002916 0.3253
Q(ilm)

3.02E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2243	0.1605	0.2541	0.001931	0.003518	0.01987	0.2937	0.04210	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 652.7 0.03339 0.1837 0.9669 0.0053230.0005815 0.4911
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7767 0.1819 0.1409 0.05130 0.09220 0.2742
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5750 0.2392 0.03367 0.1358 0.002870 0.3198
Q(ilm)

2.90E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2244	0.1621	0.2510	0.001725	0.003570	0.02130	0.2938	0.04207	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 649.9 0.03207 0.1825 0.9680 0.0050700.0005592 0.4894
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7795 0.1813 0.1371 0.05095 0.09138 0.2758
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5774 0.2474 0.03562 0.1259 0.002818 0.3146
Q(ilm)

2.79E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2246	0.1636	0.2482	0.001533	0.003619	0.02266	0.2938	0.04204	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 647.1 0.03080 0.1812 0.9690 0.0048230.0005383 0.4877
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7824 0.1807 0.1334 0.05056 0.09055 0.2773
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5797 0.2549 0.03745 0.1166 0.002759 0.3094
Q(ilm)

2.68E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2248	0.1649	0.2455	0.001355	0.003666	0.02394	0.2938	0.04201	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 644.2 0.02958 0.1799 0.9700 0.0045840.0005188 0.4861
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7852 0.1801 0.1298 0.05013 0.08970 0.2790
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5819 0.2618 0.03918 0.1078 0.002694 0.3044

Q(ilm)

2.59E-05

mode liq bi g pl ilm ru ky q H2O

0 0.2250 0.1661 0.2431 0.001192 0.003711 0.02516 0.2939 0.04198

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.00 641.3 0.02840 0.1784 0.9709 0.004351 0.0005004 0.4844

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7881 0.1796 0.1261 0.04967 0.08884 0.2806

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5841 0.2681 0.04079 0.09956 0.002622 0.2995

Q(ilm)

2.50E-05

mode liq bi g pl ilm ru ky q H2O

0 0.2251 0.1671 0.2408 0.001043 0.003755 0.02631 0.2939 0.04195

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.20 638.3 0.02726 0.1769 0.9718 0.004124 0.0004831 0.4827

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7910 0.1791 0.1224 0.04918 0.08795 0.2824

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5863 0.2740 0.04229 0.09180 0.002544 0.2947

Q(ilm)

2.41E-05

mode liq bi g pl ilm ru ky q H2O

0 0.2253 0.1681 0.2387 0.0009087 0.003797 0.02740 0.2939 0.04192

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.40 635.3 0.02615 0.1753 0.9727 0.003905 0.0004666 0.4810

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7940 0.1786 0.1187 0.04865 0.08703 0.2841

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5884 0.2794 0.04368 0.08451 0.002459 0.2900

Q(ilm)

2.33E-05

mode liq bi g pl ilm ru ky q H2O

0 0.2255 0.1689 0.2368 0.0007884 0.003838 0.02843 0.2938 0.04189

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.60 632.1 0.02507 0.1736 0.9736 0.003690 0.0004508 0.4792

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7971 0.1782 0.1150 0.04808 0.08606 0.2860

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5906 0.2844 0.04498 0.07766 0.002367 0.2853

Q(ilm)

2.26E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2257	0.1696	0.23500	0.0006820	0.003878	0.02942	0.2938	0.04185	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.80	628.7	0.02402	0.1717	0.9744	0.0034800	0.0004355	0.4772
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8002	0.1777	0.1113	0.04747	0.08504	0.2879	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5927	0.2891	0.04617	0.07122	0.002267	0.2805	
	Q(ilm)						

2.18E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2259	0.1703	0.23340	0.0005894	0.003917	0.03038	0.2938	0.04182	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	625.1	0.02298	0.1696	0.9753	0.0032730	0.0004207	0.4751
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8036	0.1773	0.1075	0.04680	0.08394	0.2899	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5950	0.2935	0.04727	0.06513	0.002159	0.2757	
	Q(ilm)						

2.11E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2261	0.1708	0.23180	0.0005107	0.003958	0.03130	0.2938	0.04178	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	621.2	0.02195	0.1674	0.9762	0.0030670	0.0004060	0.4727
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8071	0.1769	0.1035	0.04606	0.08274	0.2921	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5973	0.2978	0.04828	0.05937	0.002040	0.2708	
	Q(ilm)						

2.04E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2263	0.1713	0.23040	0.0004466	0.003999	0.03219	0.2937	0.04174	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.40	616.8	0.02092	0.1649	0.9772	0.0028590	0.0003912	0.4699
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8108	0.1764	0.09941	0.04523	0.08139	0.2945	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5998	0.3018	0.04919	0.05385	0.001909	0.2657	
	Q(ilm)						

1.97E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2265	0.1716	0.22900	0.003982	0.004043	0.03308	0.2937	0.04169	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	611.7	0.01987	0.1620	0.9782	0.0026450	0.0003759	0.4666
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8150	0.1758	0.09496	0.04428	0.07982	0.2971	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.6026	0.3059	0.04999	0.04851	0.001762	0.2603	
	Q(ilm)						

1.91E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2267	0.1719	0.22770	0.003685	0.004092	0.03399	0.2936	0.04164	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.80	605.4	0.01876	0.1584	0.9795	0.0024140	0.0003595	0.4622
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8200	0.1752	0.08994	0.04311	0.07786	0.3003	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.6059	0.3100	0.05067	0.04317	0.001587	0.2542	
	Q(ilm)						

1.83E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2270	0.1721	0.22630	0.003639	0.004149	0.03494	0.2935	0.04157	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	596.3	0.01747	0.1534	0.9812	0.0021360	0.0003395	0.4555
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.8266	0.1744	0.08355	0.04149	0.07502	0.3046	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.6103	0.3148	0.05113	0.03738	0.001356	0.2465	
	Q(ilm)						

1.75E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
0	0.2274	0.1721	0.22490	0.004056	0.004228	0.03607	0.2934	0.04148	

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.53	676.8	0.04697	0.1906	0.9547	0.0078710	0.0008377	0.5037
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7529	0.1867	0.1742	0.05349	0.09938	0.2593	

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5483 0.1597 0.01840 0.1683 0.9979 0.9758
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2441 0.003064 0.3675 4.207e-5 0.09886 0.2195

mode liq bi g mu pl ilm ru ky q H2O
0.09886 0.2195 0.1520 0 0.2324 0.003305 0.003155 0.009061 0.2818 0

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.37 676.0 0.04764 0.1916 0.9555 0.0074500.0008716 0.5092
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7515 0.1915 0.1757 0.05276 0.09887 0.2638
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5486 0.1337 0.01419 0.1726 0.9979 0.9762
ca(pl) k(pl) x(ilm) Q(ilm) liq bi
0.2357 0.003101 0.3766 4.627e-5 0 0.2229

mode liq bi g mu pl ilm ru ky q H2O
0 0.2229 0.1443 0 0.2841 0.003783 0.003044 0.006667 0.2929 0.04230

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, mu, pl, ilm, ru, ky, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.14	681.5	0.05056	0.1916	0.9517	0.0082930	0.0009181	0.5077
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7475	0.1891	0.1818	0.05350	0.1007	0.2573	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2791	0.2622	0.5418	0.1350	0.01469	0.2671	
	k(pl)	x(ilm)	Q(ilm)				
	0.003071	0.3807	4.734e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0.1007	0.2189	0	0.1482	0.2390	0.003734	0.003040	0.005831	0.2805	0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.36	676.1	0.04771	0.1917	0.9554	0.0074550	0.0008731	0.5093
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7514	0.1915	0.1758	0.05276	0.09889	0.2638	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2790	0.2625	0.5485	0.1332	0.01412	0.2361	
	k(pl)	x(ilm)	Q(ilm)				
	0.003101	0.3768	4.639e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q	H2O
	0	0.2229	0	0.1443	0.2842	0.003790	0.003042	0.006606	0.2929	0.04230

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.37	676.1	0.04763	0.1917	0.9560	0.0074360	0.0008740	0.5072
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7514	0.1900	0.1752	0.05283	0.09885	0.2625	

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2792 0.2627 0.5453 0.1321 0.01404 0.1711
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.9765 0.2353 0.003070 0.3753 4.569e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O	
	0.09763	0.2196	0.01030	0.1472		0	0.2301	0.002210	0.003313	0.008138	0.2815	0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.36 676.0 0.04765 0.1917 0.9555 0.0074400.0008723 0.5093
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7514 0.1916 0.1757 0.05274 0.09886 0.2639
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2790 0.2625 0.5485 0.1331 0.01411 0.1727
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.9762 0.2355 0.003101 0.3767 4.636e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O	
	0	0.22290	0.002143	0.1442		0	0.2840	0.003758	0.003047	0.006653	0.2929	0.04228

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.37 676.1 0.04763 0.1917 0.9560 0.0074360.0008740 0.5072
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7514 0.1900 0.1752 0.05283 0.09885 0.2625
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2792 0.2627 0.5453 0.1321 0.01404 0.1711
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.9765 0.2353 0.003070 0.3753 4.569e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	H2O	
	0.09763	0.2196	0.01030	0.1472		0	0.2301	0.002210	0.003313	0.008138	0.2815	0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.37 676.1 0.04763 0.1917 0.9560 0.0074360 0.0008740 0.5072
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7514 0.1900 0.1752 0.05283 0.09885 0.2625
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2792 0.2627 0.5454 0.1321 0.01404 0.1711
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.9765 0.2353 0.003071 0.3754 4.570e-5

mode liq bi ep g mu pl ilm ru ky q H2O
0.08680 0.2193 0.01409 0.1477 0.02666 0.2133 0.001621 0.003401 0 0.2871 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.36 676.0 0.04765 0.1917 0.9556 0.0074400 0.0008725 0.5091
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7514 0.1914 0.1757 0.05275 0.09886 0.2638
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2790 0.2625 0.5482 0.1331 0.01410 0.1725
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.9762 0.2355 0.003098 0.3766 4.630e-5

mode liq bi ep g mu pl ilm ru ky q H2O
0 0.2224 0.004313 0.1450 0.02224 0.2650 0.003123 0.003146 0 0.2965 0.03837
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 719.2 0.1223 0.2142 0.9416 0.007176 0.005375 0.5251
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6463 0.2103 0.1456 0.03534 0.1109 0.2798
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4940 0.02211 0.004365 0.3646 0.002503 0.6654
Q(ilm)
-7.87E-05

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
      0.1387 0.2174 0.1214 0.2561 0.0096280.0005805 0.2562    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20   717.7 0.1192 0.2132 0.9426 0.007191 0.005106 0.5252
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6510 0.2102 0.1459 0.03597 0.1103 0.2801
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4957 0.02330 0.004450 0.3630 0.002491 0.6558
      Q(ilm)
-8.29E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
      0.1366 0.2176 0.1219 0.2565 0.0093210.0007331 0.2573    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40   716.3 0.1160 0.2122 0.9434 0.007214 0.004855 0.5254
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6556 0.2102 0.1463 0.03659 0.1097 0.2803
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4974 0.02457 0.004541 0.3615 0.002483 0.6462
      Q(ilm)
-8.77E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
      0.1346 0.2178 0.1225 0.2569 0.0090330.0008753 0.2584    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60   715.0 0.1129 0.2113 0.9441 0.007243 0.004617 0.5254
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6600 0.2100 0.1468 0.03721 0.1091 0.2803
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4991 0.02591 0.004636 0.3599 0.002478 0.6367
      Q(ilm)
-9.33E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
      0.1327 0.2179 0.1230 0.2571 0.008759 0.001009 0.2594    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80   713.8 0.1099 0.2104 0.9448 0.007278 0.004390 0.5255
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6642 0.2098 0.1474 0.03783 0.1086 0.2803
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5006 0.02732 0.004737 0.3584 0.002476 0.6272
      Q(ilm)
-9.99E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
      0.1309 0.2181 0.1236 0.2574 0.008499 0.001135 0.2604    0

```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 712.6 0.1070 0.2096 0.9454 0.007319 0.004174 0.5255
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6683 0.2096 0.1481 0.03844 0.1081 0.2802
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5021 0.02882 0.004842 0.3568 0.002477 0.6177
Q(ilm)
-0.00011

mode liq bi g pl ilm ru q H2O
0.1292 0.2182 0.1241 0.2575 0.008250 0.001254 0.2614 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 711.4 0.1041 0.2088 0.9459 0.007364 0.003967 0.5256
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6723 0.2093 0.1488 0.03906 0.1077 0.2800
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5036 0.03041 0.004954 0.3552 0.002480 0.6081
Q(ilm)
-0.00012

mode liq bi g pl ilm ru q H2O
0.1276 0.2183 0.1247 0.2577 0.008012 0.001366 0.2624 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 710.3 0.1013 0.2080 0.9464 0.007414 0.003768 0.5255
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6762 0.2090 0.1497 0.03969 0.1073 0.2797
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5051 0.03208 0.005071 0.3536 0.002486 0.5986
Q(ilm)
-0.00013

mode liq bi g pl ilm ru q H2O
0.1260 0.2184 0.1253 0.2578 0.007784 0.001473 0.2633 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 709.3 0.09859 0.2073 0.9468 0.007467 0.003578 0.5255
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6800 0.2087 0.1507 0.04031 0.1069 0.2793
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5065 0.03386 0.005195 0.3519 0.002495 0.5890
Q(ilm)
-0.00014

mode liq bi g pl ilm ru q H2O
0.1245 0.2185 0.1259 0.2578 0.007564 0.001575 0.2642 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.80 708.2 0.09593 0.2065 0.9472 0.007524 0.003394 0.5254
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6836 0.2083 0.1518 0.04094 0.1066 0.2788
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5078 0.03573 0.005326 0.3502 0.002506 0.5795
Q(ilm)

-0.00017

mode liq bi g pl ilm ru q H2O
0.1231 0.2185 0.1265 0.2578 0.007353 0.001671 0.2650 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 707.2 0.09334 0.2058 0.9475 0.007585 0.003217 0.5252
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6872 0.2078 0.1530 0.04158 0.1062 0.2782
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5092 0.03771 0.005464 0.3484 0.002520 0.5698
Q(ilm)

-0.00019

mode liq bi g pl ilm ru q H2O
0.1217 0.2186 0.1271 0.2578 0.007148 0.001763 0.2659 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 706.2 0.09081 0.2051 0.9477 0.007648 0.003046 0.5250
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6907 0.2073 0.1543 0.04223 0.1059 0.2775
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5105 0.03980 0.005610 0.3465 0.002536 0.5602
Q(ilm)

-0.00024

mode liq bi g pl ilm ru q H2O
0.1204 0.2186 0.1278 0.2577 0.006950 0.001851 0.2667 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 705.2 0.08835 0.2044 0.9479 0.007714 0.002882 0.5248
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6941 0.2068 0.1558 0.04288 0.1057 0.2767
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5118 0.04201 0.005764 0.3446 0.002554 0.5505
Q(ilm)

-0.0003

mode liq bi g pl ilm ru q H2O
0.1191 0.2186 0.1284 0.2576 0.006758 0.001935 0.2675 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 704.2 0.08595 0.2037 0.9480 0.007782 0.002723 0.5245
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6974 0.2062 0.1575 0.04354 0.1054 0.2759
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5131 0.04434 0.005927 0.3426 0.002575 0.5408
Q(ilm)

-0.00043

mode liq bi g pl ilm ru q H2O
0.1179 0.2186 0.1292 0.2574 0.006572 0.002016 0.2683 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 703.2 0.08360 0.2030 0.9481 0.007853 0.002569 0.5242
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7006 0.2056 0.1593 0.04421 0.1052 0.2749
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5144 0.04680 0.006099 0.3405 0.002599 0.5311
Q(ilm)

-0.00079

mode liq bi g pl ilm ru q H2O
0.1167 0.2186 0.1299 0.2572 0.006390 0.002093 0.2691 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 702.2 0.08131 0.2023 0.9481 0.007924 0.002421 0.5238
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7037 0.2050 0.1612 0.04489 0.1049 0.2738
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5156 0.04938 0.006281 0.3383 0.002625 0.5213
Q(ilm)

-0.00542

mode liq bi g pl ilm ru q H2O
0.1156 0.2186 0.1306 0.2570 0.006214 0.002166 0.2698 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 701.2 0.07908 0.2016 0.9481 0.007997 0.002278 0.5234
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7068 0.2042 0.1633 0.04557 0.1047 0.2726
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5168 0.05211 0.006473 0.3360 0.002653 0.5115
Q(ilm)

0.001062

mode liq bi g pl ilm ru q H2O
0.1145 0.2186 0.1314 0.2567 0.006041 0.002237 0.2706 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 700.2 0.07690 0.2009 0.9481 0.008071 0.002141 0.5229
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7099 0.2035 0.1657 0.04627 0.1045 0.2713
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5181 0.05496 0.006676 0.3337 0.002684 0.5017

Q(ilm)

0.000473

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.1134	0.2185	0.1323	0.2563	0.005873	0.002305	0.2713	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.60	699.2	0.07477	0.2002	0.9480	0.008144	0.002008	0.5223

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.7128	0.2027	0.1682	0.04698	0.1043	0.2699

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.5193	0.05797	0.006889	0.3312	0.002717	0.4918

Q(ilm)

0.0003

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.1124	0.2185	0.1331	0.2559	0.005708	0.002370	0.2720	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.80	698.1	0.07269	0.1994	0.9479	0.008218	0.001880	0.5217

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.7157	0.2019	0.1709	0.04770	0.1042	0.2684

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.5204	0.06111	0.007114	0.3285	0.002752	0.4819

Q(ilm)

0.000217

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.1114	0.2184	0.1340	0.2554	0.005546	0.002433	0.2727	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	697.0	0.07066	0.1987	0.9477	0.008292	0.001758	0.5210

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.7186	0.2010	0.1739	0.04842	0.1040	0.2667

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.5216	0.06440	0.007351	0.3258	0.002790	0.4721

Q(ilm)

0.000168

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.1104	0.2184	0.1350	0.2549	0.005388	0.002493	0.2735	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	696.0	0.06867	0.1980	0.9475	0.008365	0.001640	0.5202

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.7214	0.2000	0.1770	0.04916	0.1038	0.2650

x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.5228	0.06783	0.007599	0.3229	0.002831	0.4622

Q(ilm)

0.000136

mode	liq	bi	g	pl	ilm	ru	q	H2O
0.1094	0.2183	0.1360	0.2544	0.005234	0.002551	0.2742	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.40	694.8	0.06672	0.1973	0.9472	0.008436	0.001528	0.5194
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7242	0.1990	0.1804	0.04990	0.1037	0.2631	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5239	0.07141	0.007858	0.3199	0.002873	0.4523	
	Q(ilm)						

0.000114

mode	liq	bi	g	pl	ilm	ru	q	H2O
0.1085	0.2182	0.1370	0.2538	0.005082	0.002606	0.2749	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.60	693.7	0.06482	0.1965	0.9470	0.008506	0.001421	0.5185
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7269	0.1980	0.1841	0.05064	0.1035	0.2611	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5250	0.07514	0.008130	0.3167	0.002918	0.4424	
	Q(ilm)						

9.72E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0.1076	0.2181	0.1380	0.2531	0.004933	0.002660	0.2756	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.80	692.5	0.06296	0.1958	0.9467	0.008574	0.001318	0.5176
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7296	0.1969	0.1880	0.05139	0.1033	0.2589	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5261	0.07900	0.008412	0.3134	0.002964	0.4326	
	Q(ilm)						

8.44E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0.1067	0.2180	0.1391	0.2524	0.004788	0.002711	0.2763	0	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.00	691.3	0.06113	0.1950	0.9464	0.008639	0.001221	0.5165
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7322	0.1958	0.1922	0.05214	0.1032	0.2567	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5272	0.08299	0.008706	0.3099	0.003013	0.4228	
	Q(ilm)						

7.41E-05

```

mode  liq  bi   g   pl  ilm  ru   q   H2O
      0.1058 0.2178 0.1403 0.2517 0.004645 0.002760 0.2770 0
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20  690.0 0.05935 0.1942 0.9460 0.008702 0.001129 0.5154
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7349 0.1947 0.1966 0.05288 0.1030 0.2544
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5283 0.08711 0.009010 0.3062 0.003063 0.4130
      Q(ilm)
6.58E-05

```

```

mode  liq  bi   g   pl  ilm  ru   q   H2O
      0.1050 0.2177 0.1415 0.2508 0.004506 0.002808 0.2777 0
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40  688.7 0.05760 0.1935 0.9457 0.008761 0.001043 0.5142
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7375 0.1935 0.2013 0.05362 0.1029 0.2519
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5293 0.09136 0.009324 0.3024 0.003115 0.4034
      Q(ilm)
5.90E-05

```

```

mode  liq  bi   g   pl  ilm  ru   q   H2O
      0.1041 0.2176 0.1427 0.2500 0.004369 0.002853 0.2784 0
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60  687.4 0.05589 0.1926 0.9453 0.0088160 0.0009607 0.5129
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7401 0.1922 0.2063 0.05435 0.1027 0.2493
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5303 0.09571 0.009646 0.2984 0.003168 0.3937
      Q(ilm)
5.32E-05

```

```

mode  liq  bi   g   pl  ilm  ru   q   H2O
      0.1033 0.2174 0.1440 0.2491 0.004236 0.002897 0.2791 0
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80  686.0 0.05421 0.1918 0.9449 0.0088670 0.0008837 0.5116
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7426 0.1910 0.2115 0.05507 0.1025 0.2466
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5313 0.1002 0.009976 0.2942 0.003222 0.3842
      Q(ilm)
4.83E-05

```

```

mode  liq  bi   g   pl  ilm  ru   q   H2O
      0.1025 0.2172 0.1453 0.2481 0.004107 0.002939 0.2799 0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.00    684.5  0.05256  0.1910  0.9445  0.0089140.0008117  0.5102
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7452  0.1897  0.2170  0.05577  0.1023  0.2438
          x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
          0.5323  0.1047  0.01031  0.2898  0.003277  0.3748
          Q(ilm)
4.41E-05

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0.1017 0.2171 0.1466 0.2471 0.003980 0.002980 0.2806 0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.20    683.1  0.05095  0.1901  0.9441  0.0089550.0007443  0.5087
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7477  0.1883  0.2227  0.05645  0.1021  0.2409
          x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
          0.5332  0.1094  0.01065  0.2853  0.003332  0.3655
          Q(ilm)
4.04E-05

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0.1009 0.2169 0.1480 0.2460 0.003858 0.003019 0.2813 0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.40    681.5  0.04937  0.1892  0.9437  0.0089920.0006816  0.5071
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7502  0.1869  0.2288  0.05711  0.1019  0.2380
          x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
          0.5341  0.1141  0.01100  0.2806  0.003387  0.3563
          Q(ilm)
3.72E-05

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0.1001 0.2167 0.1494 0.2449 0.003739 0.003056 0.2821 0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.60    679.9  0.04783  0.1883  0.9434  0.0090230.0006233  0.5055
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.7527  0.1855  0.2350  0.05774  0.1017  0.2349
          x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
          0.5350  0.1188  0.01134  0.2757  0.003442  0.3472
          Q(ilm)
3.44E-05

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0.09931 0.2166 0.1509 0.2438 0.003624 0.003093 0.2828 0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

```

12.80 678.2 0.04631 0.1874 0.9430 0.0090480.0005692 0.5038
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7552 0.1841 0.2415 0.05834 0.1014 0.2318
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5358 0.1237 0.01169 0.2707 0.003497 0.3383
Q(ilm)

3.19E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.09853	0.2164	0.1524	0.2426	0.003514	0.003127	0.2835	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 676.5 0.04483 0.1864 0.9426 0.0090660.0005191 0.5020
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7577 0.1827 0.2483 0.05891 0.1012 0.2286
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5366 0.1285 0.01203 0.2655 0.003550 0.3295
Q(ilm)

2.96E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.09776	0.2162	0.1539	0.2414	0.003408	0.003161	0.2843	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 674.7 0.04337 0.1854 0.9423 0.0090780.0004729 0.5001
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7602 0.1812 0.2552 0.05944 0.1009 0.2253
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5374 0.1334 0.01237 0.2601 0.003601 0.3209
Q(ilm)

2.76E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.09699	0.2160	0.1554	0.2401	0.003306	0.003194	0.2850	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 672.8 0.04194 0.1844 0.9420 0.0090830.0004304 0.4982
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7627 0.1797 0.2624 0.05993 0.1006 0.2220
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5382 0.1383 0.01270 0.2546 0.003650 0.3124
Q(ilm)

2.58E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.09623	0.2158	0.1569	0.2388	0.003209	0.003225	0.2858	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 670.9 0.04055 0.1834 0.9417 0.0090800.0003912 0.4962
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7653 0.1783 0.2698 0.06038 0.1002 0.2186
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5389 0.1432 0.01303 0.2489 0.003697 0.3041
Q(ilm)

2.42E-05

mode liq bi g pl ilm ru q H2O
0.09546 0.2156 0.1585 0.2375 0.003116 0.003256 0.2865 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 668.9 0.03918 0.1823 0.9414 0.0090700.0003553 0.4941
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7678 0.1767 0.2773 0.06079 0.09989 0.2152
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5397 0.1481 0.01334 0.2431 0.003740 0.2959
Q(ilm)

2.27E-05

mode liq bi g pl ilm ru q H2O
0.09470 0.2154 0.1601 0.2362 0.003029 0.003285 0.2873 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 666.8 0.03783 0.1811 0.9412 0.0090510.0003223 0.4919
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7703 0.1752 0.2850 0.06115 0.09951 0.2118
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5404 0.1529 0.01364 0.2371 0.003779 0.2879
Q(ilm)

2.14E-05

mode liq bi g pl ilm ru q H2O
0.09393 0.2152 0.1617 0.2348 0.002946 0.003315 0.2881 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 664.6 0.03652 0.1800 0.9410 0.0090250.0002922 0.4897
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7729 0.1737 0.2929 0.06146 0.09910 0.2084
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5411 0.1578 0.01393 0.2310 0.003814 0.2801
Q(ilm)

2.02E-05

mode liq bi g pl ilm ru q H2O
0.09315 0.2150 0.1633 0.2335 0.002869 0.003343 0.2888 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 662.4 0.03523 0.1788 0.9408 0.0089890.0002646 0.4874
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7755 0.1722 0.3009 0.06172 0.09866 0.2049
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5417 0.1626 0.01420 0.2247 0.003844 0.2724
Q(ilm)

1.90E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.09238	0.2149	0.1649	0.2321	0.002796	0.003371	0.2896	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 660.0 0.03396 0.1775 0.9407 0.0089440.0002394 0.4850
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7781 0.1706 0.3090 0.06192 0.09819 0.2015
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5424 0.1673 0.01445 0.2183 0.003867 0.2649
Q(ilm)

1.80E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.09159	0.2147	0.1665	0.2308	0.002730	0.003399	0.2904	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 657.5 0.03272 0.1762 0.9406 0.0088890.0002164 0.4825
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7808 0.1691 0.3173 0.06208 0.09768 0.1980
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5431 0.1721 0.01469 0.2119 0.003884 0.2575
Q(ilm)

1.70E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.09080	0.2145	0.1681	0.2294	0.002668	0.003427	0.2911	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 654.9 0.03150 0.1748 0.9406 0.0088230.0001954 0.4799
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7835 0.1675 0.3256 0.06218 0.09713 0.1946
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5437 0.1767 0.01490 0.2053 0.003893 0.2503
Q(ilm)

1.61E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
	0.08999	0.2143	0.1697	0.2280	0.002613	0.003454	0.2919	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 652.2 0.03030 0.1734 0.9406 0.0087470.0001762 0.4772
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7863 0.1659 0.3341 0.06223 0.09653 0.1912
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5444 0.1813 0.01509 0.1985 0.003893 0.2432
Q(ilm)

1.53E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O	
	0.08917	0.2142	0.1713	0.2266	0.002562	0.003482	0.2927		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 649.3 0.02912 0.1718 0.9407 0.0086580.0001587 0.4744
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7891 0.1644 0.3426 0.06223 0.09589 0.1878
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5451 0.1859 0.01525 0.1917 0.003884 0.2362
Q(ilm)

1.45E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O	
	0.08833	0.2140	0.1728	0.2253	0.002518	0.003510	0.2935		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 646.3 0.02796 0.1702 0.9408 0.0085570.0001428 0.4714
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7920 0.1628 0.3512 0.06217 0.09518 0.1845
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5458 0.1904 0.01538 0.1848 0.003863 0.2293
Q(ilm)

1.38E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O	
	0.08747	0.2139	0.1744	0.2239	0.002479	0.003539	0.2943		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 643.0 0.02681 0.1685 0.9411 0.0084410.0001281 0.4682
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7950 0.1612 0.3599 0.06205 0.09441 0.1812
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5466 0.1949 0.01548 0.1778 0.003830 0.2224
Q(ilm)

1.31E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O	
	0.08658	0.2138	0.1760	0.2226	0.002447	0.003569	0.2950		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 639.5 0.02568 0.1667 0.9414 0.0083090.0001148 0.4649
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7982 0.1595 0.3686 0.06187 0.09356 0.1779
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5474 0.1993 0.01555 0.1707 0.003782 0.2156
Q(ilm)

1.25E-05

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
0.08566 0.2137 0.1775 0.2213 0.002421 0.003600 0.2958    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20  635.7 0.02455 0.1647 0.9418 0.0081600 0.0001025 0.4613
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8015 0.1578 0.3775 0.06163 0.09262 0.1746
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5483 0.2036 0.01558 0.1634 0.003716 0.2089
      Q(ilm)
1.18E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
0.08470 0.2136 0.1790 0.2200 0.002402 0.003633 0.2966    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40  631.5 0.02342 0.1626 0.9424 0.007988 9.118e-5 0.4573
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8050 0.1561 0.3865 0.06133 0.09156 0.1714
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5492 0.2080 0.01556 0.1560 0.003631 0.2021
      Q(ilm)
1.13E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
0.08368 0.2135 0.1805 0.2188 0.002390 0.003668 0.2975    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60  626.8 0.02228 0.1602 0.9431 0.007790 8.066e-5 0.4529
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8088 0.1543 0.3958 0.06094 0.09034 0.1683
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5503 0.2124 0.01550 0.1484 0.003520 0.1952
      Q(ilm)
1.07E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
0.08257 0.2134 0.1820 0.2175 0.002386 0.003707 0.2983    0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80  621.4 0.02112 0.1574 0.9441 0.007557 7.077e-5 0.4478
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.8130 0.1524 0.4054 0.06046 0.08890 0.1651
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.5516 0.2169 0.01537 0.1405 0.003376 0.1880
      Q(ilm)
1.01E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q    H2O
0.08136 0.2134 0.1835 0.2163 0.002392 0.003752 0.2992    0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.00    614.8  0.01989  0.1541  0.9455  0.007270  6.125e-5  0.4417
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.8179  0.1502  0.4156  0.05984  0.08710  0.1620
          x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
          0.5532  0.2216  0.01515  0.1320  0.003184  0.1803
          Q(ilm)
9.52E-06

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0.07995  0.2135  0.1851  0.2152  0.002411  0.003806  0.3001  0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.20    605.9  0.01851  0.1496  0.9476  0.006883  5.150e-5  0.4333
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.8242  0.1476  0.4272  0.05897  0.08461  0.1587
          x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
          0.5554  0.2268  0.01476  0.1225  0.002904  0.1713
          Q(ilm)
8.89E-06

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0.07816  0.2136  0.1867  0.2140  0.002453  0.003878  0.3013  0

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, g, pl, ilm, ru, q, H2O

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.00     710.7  0.1176  0.2187  0.9462  0.005831  0.004509  0.5267
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.6487  0.2138  0.1555  0.03638  0.1084  0.2820
          x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
          0.5015  0.01822  0.003844  0.3070  0.002810  0.6543
          Q(ilm)
-8.11E-05

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0  0.2232  0.1203  0.3133  0.0092310  0.0007371  0.2907  0.04257

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.10     710.0  0.1161  0.2181  0.9466  0.005848  0.004410  0.5267
          h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
          0.6510  0.2138  0.1554  0.03666  0.1081  0.2822
          x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
          0.5023  0.01873  0.003880  0.3067  0.002797  0.6497

```

Q(ilm)

-8.32E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2233	0.1205	0.3131	0.0090	970.0008	057	0.2907	0.04256

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	709.4	0.1146	0.2175	0.9470	0.005866	0.004313	0.5267
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6533	0.2137	0.1553	0.03693	0.1078	0.2823
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5030	0.01926	0.003916	0.3065	0.002784	0.6452

Q(ilm)

-8.54E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2233	0.1207	0.3130	0.0089	670.0008	721	0.2906	0.04255

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.30	708.8	0.1130	0.2170	0.9475	0.005885	0.004218	0.5268
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6556	0.2136	0.1553	0.03721	0.1075	0.2824
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5037	0.01980	0.003954	0.3062	0.002773	0.6407

Q(ilm)

-8.78E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2233	0.1209	0.3129	0.0088	400.0009	366	0.2906	0.04254

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.40	708.2	0.1115	0.2164	0.9479	0.005906	0.004126	0.5268
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6578	0.2135	0.1553	0.03748	0.1072	0.2825
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5044	0.02036	0.003992	0.3059	0.002763	0.6362

Q(ilm)

-9.04E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2233	0.1211	0.3128	0.0087	170.0009	992	0.2906	0.04253

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.50	707.6	0.1100	0.2159	0.9482	0.005927	0.004035	0.5268
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6600	0.2134	0.1553	0.03776	0.1070	0.2826
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5051	0.02093	0.004032	0.3057	0.002753	0.6317

Q(ilm)

-9.32E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2233	0.1213	0.3126	0.008596	0.001060	0.2906	0.04253	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.60	707.0	0.1086	0.2154	0.9486	0.005950	0.003946	0.5268
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6622	0.2133	0.1553	0.03803	0.1067	0.2827	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5057	0.02152	0.004072	0.3054	0.002745	0.6272	
	Q(ilm)						

-9.62E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2233	0.1215	0.3125	0.008478	0.001119	0.2906	0.04252	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.70	706.5	0.1071	0.2149	0.9489	0.005974	0.003859	0.5268
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6643	0.2132	0.1554	0.03830	0.1065	0.2827	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5064	0.02212	0.004113	0.3051	0.002738	0.6227	
	Q(ilm)						

-9.95E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2233	0.1217	0.3124	0.008362	0.001177	0.2906	0.04251	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.80	705.9	0.1057	0.2144	0.9492	0.005998	0.003774	0.5268
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6664	0.2130	0.1555	0.03857	0.1062	0.2827	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5071	0.02275	0.004155	0.3048	0.002731	0.6181	
	Q(ilm)						

-0.0001

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2233	0.1219	0.3122	0.008249	0.001233	0.2906	0.04250	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.90	705.4	0.1043	0.2139	0.9495	0.006024	0.003690	0.5268
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6684	0.2129	0.1556	0.03885	0.1060	0.2827	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5077	0.02339	0.004198	0.3045	0.002726	0.6136	
	Q(ilm)						

-0.00011

mode	liq	bi	g	pl	ilm	ru	q	H2O
------	-----	----	---	----	-----	----	---	-----

0 0.2234 0.1221 0.3121 0.008138 0.001287 0.2906 0.04250

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 704.9 0.1029 0.2134 0.9498 0.006051 0.003607 0.5268
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6705 0.2128 0.1557 0.03912 0.1058 0.2827
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5084 0.02404 0.004242 0.3042 0.002721 0.6091
Q(ilm)
-0.00011

mode liq bi g pl ilm ru q H2O
0 0.2234 0.1223 0.3119 0.008030 0.001340 0.2906 0.04249

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.10 704.4 0.1015 0.2129 0.9501 0.006079 0.003526 0.5268
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6725 0.2126 0.1559 0.03940 0.1056 0.2827
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5090 0.02472 0.004287 0.3038 0.002717 0.6046
Q(ilm)
-0.00012

mode liq bi g pl ilm ru q H2O
0 0.2234 0.1225 0.3118 0.007924 0.001392 0.2906 0.04248

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 703.9 0.1002 0.2125 0.9503 0.006108 0.003447 0.5268
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6744 0.2125 0.1561 0.03967 0.1054 0.2826
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5096 0.02542 0.004333 0.3035 0.002714 0.6001
Q(ilm)
-0.00012

mode liq bi g pl ilm ru q H2O
0 0.2234 0.1227 0.3116 0.007820 0.001442 0.2906 0.04248

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.30 703.4 0.09881 0.2120 0.9505 0.006137 0.003368 0.5268
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6763 0.2123 0.1563 0.03995 0.1052 0.2825
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5103 0.02614 0.004381 0.3031 0.002712 0.5956
Q(ilm)
-0.00013

mode liq bi g pl ilm ru q H2O
0 0.2234 0.1229 0.3115 0.007717 0.001492 0.2906 0.04247

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 702.9 0.09749 0.2116 0.9508 0.006168 0.003292 0.5268
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6783 0.2121 0.1566 0.04022 0.1050 0.2824
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5109 0.02687 0.004429 0.3027 0.002710 0.5910
Q(ilm)
-0.00013

mode liq bi g pl ilm ru q H2O
0 0.2234 0.1231 0.3113 0.007617 0.001540 0.2906 0.04247

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 702.4 0.09618 0.2111 0.9510 0.006199 0.003216 0.5267
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6801 0.2119 0.1568 0.04050 0.1048 0.2823
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5115 0.02763 0.004479 0.3024 0.002709 0.5865
Q(ilm)
-0.00014

mode liq bi g pl ilm ru q H2O
0 0.2234 0.1233 0.3111 0.007518 0.001587 0.2906 0.04246

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 702.0 0.09489 0.2107 0.9512 0.006231 0.003141 0.5267
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6820 0.2117 0.1572 0.04078 0.1047 0.2821
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5121 0.02841 0.004530 0.3020 0.002709 0.5820
Q(ilm)
-0.00015

mode liq bi g pl ilm ru q H2O
0 0.2234 0.1236 0.3110 0.007422 0.001632 0.2906 0.04246

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.70 701.5 0.09361 0.2102 0.9513 0.006264 0.003068 0.5267
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6838 0.2115 0.1575 0.04106 0.1045 0.2819
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5127 0.02922 0.004583 0.3016 0.002710 0.5774
Q(ilm)
-0.00016

mode liq bi g pl ilm ru q H2O
0 0.2234 0.1238 0.3108 0.007326 0.001677 0.2906 0.04245

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 701.0 0.09236 0.2098 0.9515 0.006298 0.002996 0.5266

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6856 0.2113 0.1579 0.04134 0.1043 0.2817
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5133 0.03004 0.004636 0.3011 0.002711 0.5729
Q(ilm)

-0.00017

mode liq bi g pl ilm ru q H2O
0 0.2234 0.1240 0.3106 0.007233 0.001721 0.2906 0.04245

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.90 700.6 0.09112 0.2094 0.9516 0.006332 0.002925 0.5266
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6874 0.2111 0.1583 0.04162 0.1042 0.2815
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5139 0.03089 0.004692 0.3007 0.002713 0.5684
Q(ilm)

-0.00018

mode liq bi g pl ilm ru q H2O
0 0.2233 0.1243 0.3104 0.007141 0.001763 0.2906 0.04244

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 700.1 0.08989 0.2090 0.9518 0.006367 0.002855 0.5265
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6891 0.2109 0.1587 0.04190 0.1040 0.2813
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5145 0.03177 0.004749 0.3003 0.002716 0.5638
Q(ilm)

-0.0002

mode liq bi g pl ilm ru q H2O
0 0.2233 0.1245 0.3102 0.007050 0.001805 0.2906 0.04244

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.10 699.7 0.08868 0.2085 0.9519 0.006403 0.002786 0.5264
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6909 0.2106 0.1591 0.04219 0.1039 0.2810
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5151 0.03267 0.004807 0.2998 0.002719 0.5592
Q(ilm)

-0.00022

mode liq bi g pl ilm ru q H2O
0 0.2233 0.1248 0.3100 0.006961 0.001846 0.2907 0.04243

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 699.3 0.08749 0.2081 0.9520 0.006440 0.002717 0.5264
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6926 0.2104 0.1596 0.04247 0.1038 0.2807

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5157 0.03360 0.004867 0.2993 0.002723 0.5547
Q(ilm)

-0.00024

mode liq bi g pl ilm ru q H2O
0 0.2233 0.1250 0.3098 0.006873 0.001885 0.2907 0.04243

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.30 698.8 0.08631 0.2077 0.9521 0.006477 0.002650 0.5263
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6943 0.2102 0.1602 0.04276 0.1036 0.2804
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5163 0.03455 0.004928 0.2988 0.002728 0.5501
Q(ilm)

-0.00027

mode liq bi g pl ilm ru q H2O
0 0.2233 0.1253 0.3096 0.006786 0.001924 0.2907 0.04243

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 698.4 0.08515 0.2073 0.9521 0.006515 0.002584 0.5262
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6959 0.2099 0.1607 0.04305 0.1035 0.2801
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5169 0.03553 0.004992 0.2983 0.002734 0.5455
Q(ilm)

-0.00031

mode liq bi g pl ilm ru q H2O
0 0.2233 0.1256 0.3093 0.006700 0.001962 0.2907 0.04242

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.50 697.9 0.08400 0.2069 0.9522 0.006553 0.002519 0.5261
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6976 0.2096 0.1613 0.04335 0.1034 0.2797
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5175 0.03653 0.005057 0.2978 0.002740 0.5410
Q(ilm)

-0.00037

mode liq bi g pl ilm ru q H2O
0 0.2233 0.1258 0.3091 0.006616 0.002000 0.2908 0.04242

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 697.5 0.08286 0.2064 0.9523 0.006592 0.002455 0.5260
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6992 0.2093 0.1619 0.04364 0.1033 0.2793
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5180 0.03757 0.005124 0.2972 0.002746 0.5364

Q(ilm)

-0.00045

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2233	0.1261	0.3089	0.006533	0.002036	0.2908	0.04242	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.70	697.1	0.08174	0.2060	0.9523	0.006632	0.002392	0.5258
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7008	0.2091	0.1626	0.04394	0.1032	0.2789	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5186	0.03864	0.005193	0.2967	0.002754	0.5318	
	Q(ilm)						

-0.00058

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2232	0.1264	0.3086	0.006451	0.002072	0.2908	0.04241	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.80	696.6	0.08064	0.2056	0.9523	0.006672	0.002330	0.5257
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7024	0.2088	0.1633	0.04424	0.1031	0.2785	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5192	0.03973	0.005264	0.2961	0.002762	0.5272	
	Q(ilm)						

-0.00081

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2232	0.1267	0.3084	0.006369	0.002107	0.2909	0.04241	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.90	696.2	0.07955	0.2052	0.9524	0.006713	0.002268	0.5256
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7040	0.2084	0.1641	0.04454	0.1030	0.2780	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5198	0.04086	0.005337	0.2955	0.002770	0.5226	
	Q(ilm)						

-0.0014

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2232	0.1270	0.3081	0.006289	0.002141	0.2909	0.04241	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.00	695.8	0.07847	0.2048	0.9524	0.006754	0.002208	0.5254
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7055	0.2081	0.1648	0.04484	0.1029	0.2776	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5204	0.04202	0.005412	0.2948	0.002780	0.5180	
	Q(ilm)						

-0.00515

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2232	0.1273	0.3078	0.006210	0.002175	0.2909	0.04241	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.10	695.3	0.07740	0.2044	0.9524	0.006795	0.002148	0.5252
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7070	0.2078	0.1657	0.04515	0.1028	0.2771	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5209	0.04321	0.005489	0.2942	0.002790	0.5133	
	Q(ilm)						
0.002956							

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2231	0.1276	0.3075	0.006132	0.002208	0.2910	0.04240	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	694.9	0.07635	0.2040	0.9524	0.006837	0.002089	0.5251
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7086	0.2075	0.1665	0.04545	0.1027	0.2765	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5215	0.04443	0.005569	0.2935	0.002800	0.5087	
	Q(ilm)						
0.001134							

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2231	0.1279	0.3073	0.006054	0.002240	0.2910	0.04240	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.30	694.5	0.07531	0.2036	0.9523	0.006879	0.002031	0.5249
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7101	0.2071	0.1675	0.04577	0.1026	0.2760	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5221	0.04569	0.005651	0.2928	0.002811	0.5041	
	Q(ilm)						
0.000696							

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2231	0.1282	0.3070	0.005977	0.002272	0.2911	0.04240	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.40	694.0	0.07428	0.2032	0.9523	0.006922	0.001974	0.5247
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7115	0.2068	0.1684	0.04608	0.1025	0.2754	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5226	0.04699	0.005735	0.2921	0.002823	0.4994	
	Q(ilm)						
0.0005							

mode	liq	bi	g	pl	ilm	ru	q	H2O
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0 0.2231 0.1286 0.3067 0.005901 0.002303 0.2911 0.04240

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.50 693.6 0.07327 0.2028 0.9522 0.006964 0.001918 0.5244
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7130 0.2064 0.1694 0.04639 0.1024 0.2748
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5232 0.04831 0.005822 0.2914 0.002836 0.4948
Q(ilm)
0.000388

mode liq bi g pl ilm ru q H2O
0 0.2230 0.1289 0.3063 0.005826 0.002333 0.2912 0.04240

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 693.2 0.07226 0.2024 0.9522 0.007007 0.001863 0.5242
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7145 0.2060 0.1705 0.04671 0.1023 0.2742
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5238 0.04968 0.005912 0.2906 0.002849 0.4901
Q(ilm)
0.000316

mode liq bi g pl ilm ru q H2O
0 0.2230 0.1293 0.3060 0.005751 0.002363 0.2912 0.04239

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.70 692.7 0.07127 0.2020 0.9521 0.007051 0.001809 0.5240
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7159 0.2056 0.1716 0.04703 0.1023 0.2735
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5244 0.05108 0.006004 0.2898 0.002862 0.4854
Q(ilm)
0.000265

mode liq bi g pl ilm ru q H2O
0 0.2230 0.1296 0.3057 0.005677 0.002392 0.2913 0.04239

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 692.3 0.07029 0.2016 0.9520 0.007094 0.001755 0.5237
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7174 0.2052 0.1727 0.04736 0.1022 0.2728
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5249 0.05251 0.006099 0.2890 0.002877 0.4808
Q(ilm)
0.000228

mode liq bi g pl ilm ru q H2O
0 0.2229 0.1300 0.3053 0.005604 0.002421 0.2913 0.04239

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
9.90    691.8  0.06933  0.2011  0.9520  0.007138  0.001702  0.5234
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7188  0.2048  0.1739  0.04768  0.1021  0.2721
      x(g)  z(g)  f(g)  ca(pl)  k(pl)  x(ilm)
      0.5255  0.05399  0.006196  0.2881  0.002891  0.4761
      Q(ilm)
0.0002

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0  0.2229  0.1304  0.3050  0.005532  0.002449  0.2914  0.04239

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.00    691.3  0.06837  0.2007  0.9519  0.007181  0.001651  0.5231
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7202  0.2044  0.1752  0.04801  0.1020  0.2714
      x(g)  z(g)  f(g)  ca(pl)  k(pl)  x(ilm)
      0.5261  0.05550  0.006297  0.2872  0.002907  0.4714
      Q(ilm)
0.000177

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0  0.2228  0.1308  0.3046  0.005460  0.002477  0.2915  0.04239

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.10    690.9  0.06742  0.2003  0.9518  0.007225  0.001600  0.5228
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7216  0.2040  0.1765  0.04834  0.1020  0.2706
      x(g)  z(g)  f(g)  ca(pl)  k(pl)  x(ilm)
      0.5266  0.05706  0.006400  0.2863  0.002923  0.4667
      Q(ilm)
0.000159

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0  0.2228  0.1312  0.3042  0.005388  0.002504  0.2915  0.04239

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.20    690.4  0.06649  0.1999  0.9516  0.007269  0.001550  0.5225
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.7230  0.2035  0.1778  0.04868  0.1019  0.2698
      x(g)  z(g)  f(g)  ca(pl)  k(pl)  x(ilm)
      0.5272  0.05865  0.006506  0.2854  0.002940  0.4621
      Q(ilm)
0.000144

```

```

mode  liq  bi  g  pl  ilm  ru  q  H2O
0  0.2228  0.1316  0.3038  0.005318  0.002531  0.2916  0.04239

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.30    689.9  0.06556  0.1995  0.9515  0.007312  0.001500  0.5222

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7243 0.2031 0.1793 0.04901 0.1018 0.2690
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5277 0.06028 0.006615 0.2844 0.002957 0.4574
Q(ilm)

0.000131

mode liq bi g pl ilm ru q H2O
0 0.2227 0.1320 0.3034 0.005247 0.002557 0.2917 0.04239

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 689.4 0.06465 0.1991 0.9514 0.007356 0.001452 0.5218
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7257 0.2026 0.1807 0.04935 0.1018 0.2681
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5283 0.06195 0.006728 0.2834 0.002975 0.4527
Q(ilm)

0.00012

mode liq bi g pl ilm ru q H2O
0 0.2227 0.1324 0.3030 0.005178 0.002583 0.2918 0.04239

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50 688.9 0.06374 0.1987 0.9512 0.007399 0.001405 0.5215
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7270 0.2021 0.1823 0.04969 0.1017 0.2672
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5289 0.06366 0.006843 0.2824 0.002993 0.4480
Q(ilm)

0.000111

mode liq bi g pl ilm ru q H2O
0 0.2226 0.1329 0.3026 0.005109 0.002608 0.2919 0.04238

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 688.5 0.06285 0.1982 0.9511 0.007442 0.001358 0.5211
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7284 0.2016 0.1839 0.05003 0.1017 0.2663
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5294 0.06541 0.006962 0.2813 0.003012 0.4433
Q(ilm)

0.000102

mode liq bi g pl ilm ru q H2O
0 0.2226 0.1333 0.3021 0.005040 0.002633 0.2919 0.04238

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70 687.9 0.06196 0.1978 0.9509 0.007485 0.001313 0.5207
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7297 0.2011 0.1855 0.05037 0.1016 0.2654

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5300 0.06720 0.007083 0.2802 0.003032 0.4386
Q(ilm)

9.52E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2225	0.1338	0.3017	0.004972	0.002657	0.2920	0.04238	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.80 687.4 0.06109 0.1974 0.9508 0.007528 0.001268 0.5202
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7310 0.2006 0.1872 0.05072 0.1015 0.2644
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5305 0.06903 0.007208 0.2791 0.003052 0.4339
Q(ilm)

8.88E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2224	0.1343	0.3012	0.004904	0.002681	0.2921	0.04238	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 686.9 0.06022 0.1970 0.9506 0.007570 0.001224 0.5198
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7324 0.2001 0.1890 0.05107 0.1015 0.2634
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5311 0.07090 0.007337 0.2779 0.003073 0.4292
Q(ilm)

8.31E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2224	0.1348	0.3007	0.004837	0.002705	0.2922	0.04238	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 686.4 0.05937 0.1966 0.9504 0.007612 0.001182 0.5193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7337 0.1996 0.1909 0.05141 0.1014 0.2623
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5316 0.07281 0.007468 0.2767 0.003094 0.4245
Q(ilm)

7.80E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2223	0.1353	0.3002	0.004771	0.002728	0.2923	0.04238	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.10 685.8 0.05852 0.1961 0.9502 0.007654 0.001140 0.5189
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7350 0.1990 0.1928 0.05176 0.1014 0.2613
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5322 0.07476 0.007603 0.2754 0.003116 0.4198

Q(ilm)

7.34E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2223	0.1358	0.2997	0.004704	0.002751	0.2924	0.04238	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.20	685.3	0.05768	0.1957	0.9500	0.007695	0.001099	0.5184
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7363	0.1985	0.1948	0.05211	0.1013	0.2602	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5327	0.07676	0.007740	0.2741	0.003138	0.4152	

Q(ilm)

6.93E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2222	0.1363	0.2992	0.004639	0.002773	0.2925	0.04238	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.30	684.7	0.05685	0.1953	0.9498	0.007735	0.001059	0.5178
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7375	0.1979	0.1968	0.05246	0.1012	0.2590	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5332	0.07878	0.007881	0.2728	0.003160	0.4105	

Q(ilm)

6.55E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2221	0.1368	0.2986	0.004574	0.002795	0.2927	0.04238	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.40	684.2	0.05603	0.1948	0.9496	0.007775	0.001020	0.5173
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7388	0.1973	0.1989	0.05281	0.1012	0.2579	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5338	0.08085	0.008026	0.2715	0.003183	0.4058	

Q(ilm)

6.20E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2221	0.1374	0.2981	0.004509	0.002816	0.2928	0.04238	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.50	683.6	0.05521	0.1944	0.9494	0.0078140	0.0009818	0.5167
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7401	0.1967	0.2011	0.05315	0.1011	0.2567	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5343	0.08296	0.008173	0.2700	0.003207	0.4012	

Q(ilm)

5.88E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2220	0.1379	0.2975	0.004445	0.002838	0.2929	0.04238	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.60	683.0	0.05441	0.1939	0.9492	0.0078520	0.0009448	0.5162
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7414	0.1961	0.2034	0.05350	0.1010	0.2554	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5348	0.08510	0.008323	0.2686	0.003231	0.3965	
	Q(ilm)						

5.59E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2219	0.1385	0.2969	0.004382	0.002858	0.2930	0.04238	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.70	682.4	0.05361	0.1935	0.9489	0.0078900	0.0009086	0.5156
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7426	0.1955	0.2057	0.05385	0.1010	0.2542	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5354	0.08728	0.008476	0.2671	0.003255	0.3919	
	Q(ilm)						

5.32E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2218	0.1391	0.2963	0.004319	0.002879	0.2932	0.04238	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	681.8	0.05282	0.1930	0.9487	0.0079270	0.0008735	0.5150
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7439	0.1949	0.2081	0.05419	0.1009	0.2529	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5359	0.08949	0.008633	0.2656	0.003279	0.3873	
	Q(ilm)						

5.07E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
0	0.2218	0.1397	0.2957	0.004257	0.002899	0.2933	0.04238	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.90	681.1	0.05204	0.1926	0.9485	0.0079620	0.0008393	0.5143
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7451	0.1943	0.2106	0.05454	0.1008	0.2516	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5364	0.09174	0.008791	0.2640	0.003304	0.3827	
	Q(ilm)						

4.84E-05

mode	liq	bi	g	pl	ilm	ru	q	H2O
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0 0.2217 0.1403 0.2951 0.004195 0.002919 0.2934 0.04237

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 680.5 0.05126 0.1921 0.9482 0.0079970.0008061 0.5137
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7464 0.1936 0.2131 0.05488 0.1008 0.2502
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5369 0.09402 0.008953 0.2624 0.003329 0.3781
Q(ilm)
4.62E-05

mode liq bi g pl ilm ru q H2O
0 0.2216 0.1409 0.2945 0.004134 0.002938 0.2936 0.04237
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : liq, bi, ep, g, mu, pl, ru, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 679.1 0.05070 0.1928 0.9528 0.0075920.0008629 0.5120
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7468 0.1914 0.1889 0.07181 0.09923 0.2545
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3203 0.2953 0.5388 0.1049 0.01440 0.1751
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9982 0.9741 0.2497 0.003164 0.09298 0.2187

mode liq bi ep g mu pl ru q H2O
0.09298 0.2187 0.01510 0.1465 0.01397 0.2253 0.003626 0.2838 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 677.6 0.04963 0.1927 0.9546 0.0073920.0008751 0.5110
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7482 0.1914 0.1823 0.06728 0.09880 0.2583
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3132 0.2900 0.5412 0.1108 0.01449 0.1743
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9981 0.9754 0.2409 0.003126 0.09028 0.2190

mode liq bi ep g mu pl ru q H2O
0.09028 0.2190 0.01691 0.1465 0.01890 0.2197 0.003636 0.2850 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 676.1 0.04856 0.1926 0.9564 0.0071800.0008877 0.5100
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7497 0.1915 0.1755 0.06311 0.09831 0.2621
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.3066 0.2850 0.5436 0.1171 0.01466 0.1735
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9980 0.9767 0.2318 0.003084 0.08762 0.2194

mode liq bi ep g mu pl ru q H2O
0.08762 0.2194 0.01862 0.1466 0.02383 0.2141 0.003648 0.2862 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 674.5 0.04750 0.1925 0.9582 0.0069590.0009007 0.5090
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7512 0.1915 0.1686 0.05930 0.09779 0.2658
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3005 0.2803 0.5460 0.1235 0.01490 0.1727
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9979 0.9780 0.2224 0.003038 0.08500 0.2198

mode liq bi ep g mu pl ru q H2O
0.08500 0.2198 0.02018 0.1466 0.02872 0.2086 0.003660 0.2874 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 672.9 0.04646 0.1923 0.9600 0.0067300.0009140 0.5080
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7528 0.1914 0.1616 0.05583 0.09722 0.2694
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2951 0.2760 0.5485 0.1301 0.01521 0.1718
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9979 0.9792 0.2130 0.002988 0.08245 0.2202

mode liq bi ep g mu pl ru q H2O
0.08245 0.2202 0.02160 0.1467 0.03354 0.2033 0.003674 0.2885 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 671.2 0.04543 0.1922 0.9618 0.0064970.0009277 0.5069
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7543 0.1914 0.1546 0.05270 0.09663 0.2729
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2904 0.2723 0.5510 0.1368 0.01560 0.1710
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9978 0.9803 0.2034 0.002935 0.07999 0.2206

mode liq bi ep g mu pl ru q H2O
0.07999 0.2206 0.02285 0.1469 0.03825 0.1981 0.003689 0.2896 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 669.5 0.04442 0.1920 0.9635 0.0062620.0009416 0.5059
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7558 0.1913 0.1478 0.04988 0.09601 0.2763
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2863 0.2690 0.5535 0.1436 0.01606 0.1702
y(mu) na(mu) ca(pl) k(pl) liq bi

0.9977 0.9815 0.1940 0.002879 0.07761 0.2210

mode liq bi ep g mu pl ru q H2O
0.07761 0.2210 0.02393 0.1471 0.04283 0.1931 0.003704 0.2907 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.70 667.9 0.04344 0.1917 0.9651 0.0060280.0009558 0.5049
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7573 0.1912 0.1411 0.04734 0.09537 0.2796
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2828 0.2663 0.5560 0.1504 0.01660 0.1695
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9976 0.9825 0.1847 0.002820 0.07535 0.2214

mode liq bi ep g mu pl ru q H2O
0.07535 0.2214 0.02484 0.1474 0.04726 0.1884 0.003720 0.2918 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 666.2 0.04248 0.1915 0.9667 0.0057970.0009701 0.5039
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7588 0.1912 0.1346 0.04507 0.09472 0.2827
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2800 0.2640 0.5584 0.1572 0.01721 0.1687
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9975 0.9835 0.1756 0.002760 0.07319 0.2218

mode liq bi ep g mu pl ru q H2O
0.07319 0.2218 0.02557 0.1476 0.05152 0.1838 0.003737 0.2928 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.90 664.5 0.04154 0.1912 0.9682 0.0055710.0009845 0.5030
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7603 0.1911 0.1283 0.04303 0.09406 0.2857
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2777 0.2622 0.5608 0.1639 0.01789 0.1679
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9974 0.9844 0.1668 0.002698 0.07114 0.2221

mode liq bi ep g mu pl ru q H2O
0.07114 0.2221 0.02614 0.1480 0.05561 0.1796 0.003753 0.2937 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 662.9 0.04064 0.1908 0.9696 0.0053520.0009990 0.5020
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7618 0.1910 0.1223 0.04120 0.09341 0.2885
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2760 0.2608 0.5631 0.1706 0.01864 0.1672
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9973 0.9853 0.1583 0.002635 0.06920 0.2225

mode	liq	bi	ep	g	mu	pl	ru	q	H2O	
	0.06920	0.2225	0.02654	0.1483	0.05953	0.1755	0.003770	0.2946		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
13.10	661.3	0.03976	0.1905	0.9709	0.005139	0.001014	0.5011			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7633	0.1908	0.1166	0.03955	0.09275	0.2912				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2747	0.2598	0.5653	0.1772	0.01945	0.1665				
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi				
	0.9971	0.9861	0.1502	0.002572	0.06737	0.2228				

mode	liq	bi	ep	g	mu	pl	ru	q	H2O	
	0.06737	0.2228	0.02679	0.1487	0.06327	0.1718	0.003787	0.2955		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
13.20	659.7	0.03891	0.1901	0.9722	0.004933	0.001028	0.5002			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7647	0.1907	0.1111	0.03806	0.09210	0.2937				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2739	0.2592	0.5675	0.1837	0.02033	0.1658				
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi				
	0.9970	0.9869	0.1424	0.002508	0.06564	0.2232				

mode	liq	bi	ep	g	mu	pl	ru	q	H2O	
	0.06564	0.2232	0.02690	0.1492	0.06685	0.1682	0.003804	0.2963		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
13.30	658.2	0.03808	0.1897	0.9734	0.004736	0.001042	0.4993			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7662	0.1906	0.1059	0.03671	0.09145	0.2960				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2734	0.2589	0.5696	0.1901	0.02128	0.1651				
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi				
	0.9969	0.9876	0.1350	0.002444	0.06401	0.2235				

mode	liq	bi	ep	g	mu	pl	ru	q	H2O	
	0.06401	0.2235	0.02687	0.1496	0.07027	0.1649	0.003820	0.2970		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)			
13.40	656.7	0.03728	0.1892	0.9745	0.004547	0.001057	0.4985			
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)				
	0.7676	0.1904	0.1010	0.03548	0.09081	0.2982				
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)				
	0.2733	0.2589	0.5716	0.1964	0.02230	0.1645				
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi				
	0.9968	0.9882	0.1279	0.002380	0.06246	0.2238				

mode	liq	bi	ep	g	mu	pl	ru	q	H2O	
	0.06246	0.2238	0.02672	0.1501	0.07355	0.1617	0.003837	0.2978		0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50    655.2 0.03650 0.1887 0.9755 0.004365 0.001071 0.4976
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7691 0.1903 0.09632 0.03436 0.09019 0.3003
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2736 0.2592 0.5736 0.2026 0.02338 0.1638
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9966 0.9888 0.1212 0.002316 0.06100 0.2240

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
        0.06100 0.2240 0.02645 0.1507 0.07670 0.1588 0.003854 0.2985 0

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-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60    653.7 0.03575 0.1882 0.9765 0.004192 0.001085 0.4968
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7705 0.1902 0.09188 0.03334 0.08956 0.3023
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2741 0.2597 0.5755 0.2088 0.02454 0.1632
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9965 0.9894 0.1149 0.002252 0.05961 0.2243

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
        0.05961 0.2243 0.02607 0.1512 0.07972 0.1560 0.003870 0.2991 0

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-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70    652.3 0.03502 0.1877 0.9774 0.004025 0.001100 0.4960
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7719 0.1900 0.08768 0.03239 0.08895 0.3042
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2748 0.2604 0.5774 0.2149 0.02577 0.1626
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9963 0.9899 0.1088 0.002189 0.05830 0.2246

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
        0.05830 0.2246 0.02559 0.1518 0.08263 0.1534 0.003886 0.2998 0

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-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80    650.9 0.03431 0.1872 0.9783 0.003866 0.001114 0.4952
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7734 0.1899 0.08370 0.03152 0.08835 0.3059
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2758 0.2613 0.5792 0.2210 0.02707 0.1620
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9962 0.9904 0.1031 0.002127 0.05704 0.2248

mode     liq  bi  ep  g  mu  pl  ru  q  H2O
        0.05704 0.2248 0.02502 0.1525 0.08544 0.1509 0.003902 0.3004 0

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)

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13.90 649.5 0.03361 0.1866 0.9791 0.003713 0.001128 0.4944
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7748 0.1897 0.07991 0.03071 0.08775 0.3076
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2769 0.2624 0.5809 0.2270 0.02846 0.1614
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9960 0.9908 0.09774 0.002066 0.05585 0.2251

mode liq bi ep g mu pl ru q H2O
 0.05585 0.2251 0.02435 0.1531 0.08817 0.1485 0.003918 0.3010 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.00 648.1 0.03294 0.1860 0.9799 0.003567 0.001142 0.4936
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7762 0.1895 0.07631 0.02995 0.08717 0.3092
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2783 0.2636 0.5826 0.2330 0.02993 0.1608
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9959 0.9913 0.09262 0.002005 0.05470 0.2253

mode liq bi ep g mu pl ru q H2O
 0.05470 0.2253 0.02359 0.1538 0.09082 0.1462 0.003934 0.3016 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.10 646.7 0.03228 0.1854 0.9806 0.003427 0.001156 0.4929
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7776 0.1894 0.07289 0.02925 0.08658 0.3107
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2798 0.2650 0.5843 0.2390 0.03150 0.1602
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9957 0.9917 0.08777 0.001945 0.05361 0.2255

mode liq bi ep g mu pl ru q H2O
 0.05361 0.2255 0.02274 0.1546 0.09340 0.1441 0.003949 0.3021 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.20 645.4 0.03164 0.1848 0.9813 0.003292 0.001170 0.4921
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7790 0.1892 0.06964 0.02858 0.08601 0.3121
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2815 0.2665 0.5859 0.2450 0.03316 0.1597
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9955 0.9920 0.08317 0.001885 0.05255 0.2257

mode liq bi ep g mu pl ru q H2O
 0.05255 0.2257 0.02180 0.1554 0.09593 0.1420 0.003965 0.3027 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.30 644.0 0.03101 0.1841 0.9820 0.003163 0.001185 0.4914
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7804 0.1890 0.06653 0.02796 0.08544 0.3135
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2832 0.2681 0.5875 0.2510 0.03492 0.1591
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9953 0.9924 0.07881 0.001827 0.05154 0.2259

mode liq bi ep g mu pl ru q H2O
0.05154 0.2259 0.02077 0.1562 0.09841 0.1400 0.003980 0.3032 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 642.7 0.03040 0.1835 0.9826 0.003039 0.001199 0.4906
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7818 0.1888 0.06357 0.02736 0.08487 0.3148
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2852 0.2698 0.5890 0.2570 0.03679 0.1585
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9952 0.9927 0.07468 0.001769 0.05056 0.2261

mode liq bi ep g mu pl ru q H2O
0.05056 0.2261 0.01966 0.1570 0.1009 0.1381 0.003996 0.3037 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 641.3 0.02980 0.1828 0.9832 0.002919 0.001213 0.4898
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7832 0.1887 0.06075 0.02680 0.08431 0.3160
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2872 0.2716 0.5905 0.2630 0.03879 0.1580
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9950 0.9931 0.07075 0.001712 0.04961 0.2263

mode liq bi ep g mu pl ru q H2O
0.04961 0.2263 0.01846 0.1579 0.1033 0.1362 0.004011 0.3043 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 640.0 0.02922 0.1821 0.9838 0.002804 0.001227 0.4891
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7846 0.1885 0.05804 0.02626 0.08375 0.3172
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2893 0.2735 0.5920 0.2691 0.04091 0.1574
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9948 0.9934 0.06703 0.001656 0.04868 0.2264

mode liq bi ep g mu pl ru q H2O
0.04868 0.2264 0.01716 0.1589 0.1057 0.1344 0.004026 0.3048 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.70 638.7 0.02864 0.1813 0.9844 0.002693 0.001241 0.4883
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7860 0.1883 0.05546 0.02574 0.08319 0.3183
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2916 0.2754 0.5935 0.2753 0.04317 0.1569
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9945 0.9937 0.06349 0.001601 0.04778 0.2266

mode liq bi ep g mu pl ru q H2O
0.04778 0.2266 0.01577 0.1599 0.1080 0.1326 0.004042 0.3053 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 637.3 0.02808 0.1806 0.9849 0.002586 0.001255 0.4875
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7874 0.1881 0.05298 0.02525 0.08263 0.3194
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2939 0.2775 0.5950 0.2816 0.04559 0.1563
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9943 0.9939 0.06012 0.001547 0.04690 0.2268

mode liq bi ep g mu pl ru q H2O
0.04690 0.2268 0.01427 0.1610 0.1104 0.1308 0.004057 0.3058 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.90 636.0 0.02753 0.1798 0.9854 0.002483 0.001270 0.4867
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7889 0.1879 0.05060 0.02476 0.08207 0.3205
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2963 0.2795 0.5964 0.2880 0.04817 0.1557
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9941 0.9942 0.05692 0.001493 0.04604 0.2269

mode liq bi ep g mu pl ru q H2O
0.04604 0.2269 0.01266 0.1621 0.1128 0.1291 0.004072 0.3063 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 634.6 0.02699 0.1790 0.9859 0.002383 0.001284 0.4859
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7903 0.1877 0.04832 0.02429 0.08151 0.3215
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2987 0.2817 0.5978 0.2945 0.05093 0.1552
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9938 0.9944 0.05388 0.001440 0.04519 0.2271

mode liq bi ep g mu pl ru q H2O
0.04519 0.2271 0.01093 0.1633 0.1152 0.1274 0.004088 0.3068 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.10 633.2 0.02645 0.1782 0.9864 0.002287 0.001298 0.4851
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7917 0.1875 0.04613 0.02383 0.08094 0.3225
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3013 0.2838 0.5992 0.3012 0.05388 0.1546
y(mu) na(mu) ca(pl) k(pl) liq bi

0.9936 0.9947 0.05098 0.001388 0.04436 0.2272

mode liq bi ep g mu pl ru q H2O
0.04436 0.2272 0.009080 0.1646 0.1177 0.1257 0.004104 0.3073 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 631.8 0.02593 0.1773 0.9868 0.002193 0.001313 0.4843
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7932 0.1873 0.04402 0.02338 0.08037 0.3234
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3038 0.2861 0.6006 0.3081 0.05705 0.1540
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9933 0.9949 0.04822 0.001337 0.04353 0.2274

mode liq bi ep g mu pl ru q H2O
0.04353 0.2274 0.007086 0.1660 0.1202 0.1239 0.004119 0.3078 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.30 630.3 0.02541 0.1765 0.9873 0.002102 0.001327 0.4834
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7947 0.1871 0.04198 0.02293 0.07980 0.3244
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3064 0.2883 0.6020 0.3152 0.06046 0.1534
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9931 0.9951 0.04558 0.001286 0.04270 0.2275

mode liq bi ep g mu pl ru q H2O
0.04270 0.2275 0.004939 0.1674 0.1228 0.1222 0.004135 0.3083 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 628.9 0.02490 0.1756 0.9877 0.002015 0.001341 0.4825
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7962 0.1868 0.04002 0.02249 0.07921 0.3253
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3091 0.2906 0.6034 0.3225 0.06412 0.1528
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9928 0.9954 0.04307 0.001236 0.04188 0.2276

mode liq bi ep g mu pl ru q H2O
0.04188 0.2276 0.002624 0.1690 0.1254 0.1205 0.004152 0.3089 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 627.4 0.02439 0.1746 0.9881 0.001929 0.001355 0.4816
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7977 0.1866 0.03812 0.02204 0.07862 0.3262
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3118 0.2928 0.6048 0.3301 0.06806 0.1522
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9925 0.9956 0.04068 0.001187 0.04106 0.2278

```

mode   liq   bi   ep   g   mu   pl   ru   q   H2O
0.04106 0.22780 0.0001217 0.1707 0.1281 0.1187 0.004168 0.3094 0
calcs use:

```

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, ep, g, mu, pl, ru, q, H2O

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 676.4 0.04981 0.1937 0.9562 0.0069560 0.0008952 0.5148
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7476 0.1941 0.1773 0.07577 0.09781 0.2615
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.3348 0.3063 0.5441 0.1030 0.01539 0.1773
      y(mu) na(mu) ca(pl) k(pl) liq bi
      0.9981 0.9764 0.2297 0.003132 0 0.2225

```

```

mode   liq   bi   ep   g   mu   pl   ru   q   H2O
0 0.2225 0.01253 0.1430 0.01563 0.2686 0.003622 0.2952 0.03889

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 675.1 0.04883 0.1934 0.9576 0.0068090 0.0009058 0.5137
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7490 0.1940 0.1718 0.07112 0.09747 0.2647
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.3276 0.3012 0.5461 0.1086 0.01545 0.1764
      y(mu) na(mu) ca(pl) k(pl) liq bi
      0.9981 0.9774 0.2226 0.003094 0 0.2226

```

```

mode   liq   bi   ep   g   mu   pl   ru   q   H2O
0 0.2226 0.01432 0.1431 0.02009 0.2624 0.003633 0.2958 0.03803

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 673.8 0.04785 0.1932 0.9590 0.0066520 0.0009167 0.5126
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7504 0.1939 0.1661 0.06680 0.09708 0.2680
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.3208 0.2962 0.5481 0.1145 0.01558 0.1755
      y(mu) na(mu) ca(pl) k(pl) liq bi
      0.9980 0.9784 0.2153 0.003053 0 0.2228

```

```

mode   liq   bi   ep   g   mu   pl   ru   q   H2O
0 0.2228 0.01601 0.1433 0.02456 0.2561 0.003644 0.2964 0.03716

```

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-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 672.4 0.04688 0.1930 0.9605 0.0064840 0.0009279 0.5115
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7519 0.1938 0.1603 0.06281 0.09666 0.2712

```

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3145 0.2914 0.5501 0.1207 0.01578 0.1746
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9979 0.9794 0.2077 0.003008 0 0.2229

mode liq bi ep g mu pl ru q H2O
0 0.2229 0.01759 0.1436 0.02903 0.2499 0.003657 0.2970 0.03630

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 671.0 0.04591 0.1928 0.9619 0.0063070.0009394 0.5104
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7533 0.1936 0.1544 0.05915 0.09620 0.2743
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3086 0.2870 0.5523 0.1270 0.01606 0.1737
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9978 0.9804 0.1999 0.002960 0 0.2231

mode liq bi ep g mu pl ru q H2O
0 0.2231 0.01904 0.1439 0.03347 0.2438 0.003670 0.2976 0.03546

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 669.6 0.04496 0.1925 0.9634 0.0061240.0009514 0.5093
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7548 0.1935 0.1484 0.05580 0.09571 0.2773
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3033 0.2829 0.5544 0.1335 0.01640 0.1728
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9977 0.9814 0.1920 0.002909 0 0.2233

mode liq bi ep g mu pl ru q H2O
0 0.2233 0.02036 0.1442 0.03786 0.2378 0.003685 0.2982 0.03462

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 668.1 0.04402 0.1923 0.9649 0.0059350.0009636 0.5082
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7562 0.1933 0.1425 0.05276 0.09519 0.2803
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2986 0.2792 0.5566 0.1402 0.01683 0.1720
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9977 0.9823 0.1840 0.002855 0 0.2234

mode liq bi ep g mu pl ru q H2O
0 0.2234 0.02153 0.1446 0.04217 0.2319 0.003700 0.2988 0.03381

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.70 666.6 0.04309 0.1920 0.9663 0.0057430.0009761 0.5071
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7577 0.1931 0.1366 0.05000 0.09464 0.2832
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2945 0.2760 0.5587 0.1468 0.01732 0.1711

y(mu) na(mu) ca(pl) k(pl) liq bi
0.9976 0.9832 0.1760 0.002799 0 0.2236

mode liq bi ep g mu pl ru q H2O
0 0.2236 0.02254 0.1450 0.04638 0.2263 0.003715 0.2994 0.03302

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 665.1 0.04219 0.1916 0.9676 0.0055500.0009888 0.5060
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7591 0.1929 0.1308 0.04750 0.09407 0.2859
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2910 0.2732 0.5609 0.1536 0.01789 0.1702
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9975 0.9841 0.1681 0.002741 0 0.2239

mode liq bi ep g mu pl ru q H2O
0 0.2239 0.02340 0.1454 0.05048 0.2209 0.003731 0.3000 0.03226

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.90 663.6 0.04130 0.1913 0.9690 0.005358 0.001002 0.5050
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7606 0.1927 0.1251 0.04525 0.09349 0.2886
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2880 0.2708 0.5630 0.1603 0.01853 0.1694
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9974 0.9849 0.1604 0.002682 0 0.2241

mode liq bi ep g mu pl ru q H2O
0 0.2241 0.02409 0.1459 0.05445 0.2156 0.003748 0.3006 0.03154

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 662.1 0.04043 0.1909 0.9702 0.005167 0.001015 0.5039
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7620 0.1925 0.1196 0.04321 0.09290 0.2911
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2856 0.2689 0.5651 0.1670 0.01924 0.1686
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9972 0.9857 0.1528 0.002621 0 0.2243

mode liq bi ep g mu pl ru q H2O
0 0.2243 0.02463 0.1464 0.05829 0.2107 0.003764 0.3011 0.03084

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.10 660.6 0.03958 0.1906 0.9715 0.004979 0.001028 0.5029
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7635 0.1923 0.1143 0.04137 0.09231 0.2935
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2836 0.2674 0.5671 0.1737 0.02001 0.1678
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9971 0.9864 0.1455 0.002559 0 0.2245

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0	0.2245	0.02502	0.1469	0.06198	0.2060	0.003781	0.3017	0.03018	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	659.1	0.03876	0.1902	0.9726	0.004796	0.001042	0.5019
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7649	0.1921	0.1092	0.03971	0.09171	0.2958	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2821	0.2662	0.5692	0.1803	0.02086	0.1670	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9970	0.9871	0.1384	0.002497	0	0.2247	

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0	0.2247	0.02527	0.1475	0.06554	0.2015	0.003798	0.3022	0.02954	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.30	657.7	0.03796	0.1897	0.9737	0.004617	0.001055	0.5009
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7664	0.1918	0.1043	0.03820	0.09111	0.2980	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2811	0.2654	0.5711	0.1868	0.02178	0.1663	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9969	0.9878	0.1315	0.002434	0	0.2249	

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0	0.2249	0.02537	0.1481	0.06897	0.1972	0.003814	0.3027	0.02894	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	656.2	0.03717	0.1893	0.9748	0.004444	0.001069	0.5000
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7678	0.1916	0.09967	0.03683	0.09051	0.3000	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2804	0.2649	0.5730	0.1933	0.02277	0.1656	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9968	0.9884	0.1250	0.002371	0	0.2251	

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
0	0.2251	0.02535	0.1487	0.07226	0.1932	0.003831	0.3032	0.02837	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.50	654.8	0.03641	0.1888	0.9758	0.004276	0.001082	0.4991
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7692	0.1914	0.09521	0.03558	0.08992	0.3020	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2801	0.2648	0.5749	0.1997	0.02384	0.1649	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9966	0.9889	0.1187	0.002308	0	0.2253	

mode	liq	bi	ep	g	mu	pl	ru	q	H2O
------	-----	----	----	---	----	----	----	---	-----

0 0.2253 0.02520 0.1493 0.07543 0.1894 0.003848 0.3036 0.02783

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 653.4 0.03567 0.1883 0.9767 0.004114 0.001096 0.4982
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7706 0.1912 0.09096 0.03444 0.08933 0.3038
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2801 0.2648 0.5767 0.2060 0.02497 0.1642
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9965 0.9895 0.1127 0.002246 0 0.2255

mode liq bi ep g mu pl ru q H2O
0 0.2255 0.02493 0.1500 0.07849 0.1858 0.003864 0.3041 0.02732

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 652.0 0.03495 0.1877 0.9776 0.003958 0.001109 0.4973
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7720 0.1910 0.08690 0.03339 0.08874 0.3056
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2804 0.2652 0.5785 0.2122 0.02618 0.1635
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9963 0.9900 0.1070 0.002184 0 0.2257

mode liq bi ep g mu pl ru q H2O
0 0.2257 0.02455 0.1507 0.08145 0.1824 0.003880 0.3045 0.02683

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 650.6 0.03425 0.1872 0.9784 0.003807 0.001123 0.4964
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7735 0.1908 0.08304 0.03242 0.08816 0.3072
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2809 0.2657 0.5802 0.2184 0.02747 0.1628
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9962 0.9904 0.1015 0.002122 0 0.2258

mode liq bi ep g mu pl ru q H2O
0 0.2258 0.02407 0.1514 0.08431 0.1792 0.003896 0.3050 0.02636

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90 649.2 0.03357 0.1866 0.9792 0.003662 0.001136 0.4956
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7749 0.1905 0.07935 0.03153 0.08759 0.3088
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2817 0.2665 0.5819 0.2246 0.02885 0.1622
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9960 0.9909 0.09635 0.002061 0 0.2260

mode liq bi ep g mu pl ru q H2O
0 0.2260 0.02349 0.1521 0.08708 0.1761 0.003912 0.3054 0.02592

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.00    647.9 0.03290 0.1860 0.9800 0.003522 0.001150 0.4947
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7763 0.1903 0.07584 0.03070 0.08702 0.3103
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2827 0.2674 0.5835 0.2308 0.03031 0.1616
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9959 0.9913 0.09142 0.002001 0 0.2262

mode  liq  bi  ep  g  mu  pl  ru  q  H2O
      0 0.2262 0.02281 0.1529 0.08978 0.1731 0.003928 0.3058 0.02549

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.10    646.5 0.03225 0.1854 0.9807 0.003387 0.001164 0.4939
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7777 0.1901 0.07249 0.02992 0.08645 0.3117
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2838 0.2684 0.5851 0.2369 0.03186 0.1609
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9957 0.9917 0.08673 0.001941 0 0.2263

mode  liq  bi  ep  g  mu  pl  ru  q  H2O
      0 0.2263 0.02203 0.1537 0.09241 0.1703 0.003944 0.3062 0.02508

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.20    645.2 0.03161 0.1848 0.9814 0.003257 0.001177 0.4931
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7791 0.1899 0.06929 0.02920 0.08589 0.3131
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2852 0.2697 0.5867 0.2430 0.03351 0.1603
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9955 0.9921 0.08227 0.001882 0 0.2265

mode  liq  bi  ep  g  mu  pl  ru  q  H2O
      0 0.2265 0.02115 0.1546 0.09499 0.1675 0.003960 0.3066 0.02469

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.30    643.9 0.03099 0.1841 0.9821 0.003132 0.001191 0.4922
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7804 0.1897 0.06624 0.02852 0.08533 0.3144
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2867 0.2710 0.5882 0.2491 0.03527 0.1597
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9953 0.9924 0.07803 0.001824 0 0.2266

mode  liq  bi  ep  g  mu  pl  ru  q  H2O
      0 0.2266 0.02019 0.1555 0.09752 0.1649 0.003975 0.3070 0.02431

```

```

P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.40    642.6 0.03038 0.1835 0.9827 0.003012 0.001205 0.4914

```


h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7818 0.1894 0.06332 0.02787 0.08477 0.3156
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2884 0.2725 0.5897 0.2552 0.03714 0.1591
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9951 0.9928 0.07399 0.001767 0 0.2268

mode liq bi ep g mu pl ru q H2O
0 0.2268 0.01913 0.1564 0.1000 0.1624 0.003991 0.3074 0.02395

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 641.2 0.02978 0.1828 0.9833 0.002895 0.001219 0.4906
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7832 0.1892 0.06053 0.02726 0.08422 0.3168
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2902 0.2741 0.5912 0.2614 0.03912 0.1585
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9949 0.9931 0.07016 0.001710 0 0.2269

mode liq bi ep g mu pl ru q H2O
0 0.2269 0.01797 0.1573 0.1025 0.1599 0.004007 0.3078 0.02359

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 639.9 0.02920 0.1821 0.9839 0.002783 0.001233 0.4898
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7846 0.1890 0.05786 0.02668 0.08367 0.3179
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2921 0.2758 0.5926 0.2676 0.04124 0.1579
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9947 0.9934 0.06651 0.001654 0 0.2271

mode liq bi ep g mu pl ru q H2O
0 0.2271 0.01672 0.1583 0.1049 0.1575 0.004022 0.3081 0.02325

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.70 638.6 0.02863 0.1813 0.9844 0.002674 0.001246 0.4890
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7860 0.1888 0.05530 0.02613 0.08312 0.3190
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2941 0.2776 0.5941 0.2739 0.04351 0.1573
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9945 0.9937 0.06303 0.001599 0 0.2272

mode liq bi ep g mu pl ru q H2O
0 0.2272 0.01536 0.1594 0.1073 0.1552 0.004038 0.3085 0.02292

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 637.2 0.02807 0.1806 0.9849 0.002570 0.001260 0.4882
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7875 0.1886 0.05284 0.02560 0.08256 0.3201

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2963 0.2794 0.5955 0.2803 0.04592 0.1567
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9943 0.9939 0.05972 0.001545 0 0.2273

mode liq bi ep g mu pl ru q H2O
 0 0.2273 0.01389 0.1605 0.1098 0.1529 0.004053 0.3089 0.02259

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.90 635.9 0.02752 0.1798 0.9854 0.002468 0.001274 0.4873
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7889 0.1883 0.05048 0.02508 0.08201 0.3211
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2985 0.2814 0.5969 0.2868 0.04850 0.1561
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9941 0.9942 0.05657 0.001492 0 0.2275

mode liq bi ep g mu pl ru q H2O
 0 0.2275 0.01231 0.1617 0.1122 0.1507 0.004069 0.3093 0.02227

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 634.5 0.02698 0.1790 0.9859 0.002370 0.001288 0.4865
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7903 0.1881 0.04822 0.02459 0.08145 0.3221
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3008 0.2834 0.5983 0.2935 0.05126 0.1555
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9938 0.9945 0.05357 0.001439 0 0.2276

mode liq bi ep g mu pl ru q H2O
 0 0.2276 0.01061 0.1630 0.1147 0.1484 0.004084 0.3097 0.02195

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.10 633.1 0.02644 0.1782 0.9864 0.002275 0.001303 0.4856
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7918 0.1879 0.04604 0.02410 0.08089 0.3230
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3031 0.2854 0.5996 0.3002 0.05422 0.1549
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9936 0.9947 0.05071 0.001387 0 0.2277

mode liq bi ep g mu pl ru q H2O
 0 0.2277 0.008777 0.1643 0.1171 0.1462 0.004100 0.3101 0.02164

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 631.7 0.02592 0.1773 0.9869 0.002183 0.001317 0.4848
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7932 0.1876 0.04394 0.02363 0.08033 0.3239
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.3056 0.2875 0.6010 0.3072 0.05740 0.1543

y(mu) na(mu) ca(pl) k(pl) liq bi
0.9933 0.9949 0.04798 0.001336 0 0.2278

mode liq bi ep g mu pl ru q H2O
0 0.2278 0.006801 0.1657 0.1197 0.1440 0.004116 0.3105 0.02132

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.30 630.3 0.02540 0.1765 0.9873 0.002093 0.001331 0.4839
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7947 0.1874 0.04191 0.02316 0.07975 0.3248
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3081 0.2896 0.6024 0.3144 0.06081 0.1537
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9931 0.9951 0.04538 0.001285 0 0.2279

mode liq bi ep g mu pl ru q H2O
0 0.2279 0.004668 0.1672 0.1223 0.1418 0.004132 0.3110 0.02101

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 628.8 0.02489 0.1755 0.9877 0.002006 0.001345 0.4829
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7962 0.1871 0.03996 0.02269 0.07918 0.3257
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3106 0.2918 0.6037 0.3218 0.06447 0.1531
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9928 0.9954 0.04289 0.001235 0 0.2280

mode liq bi ep g mu pl ru q H2O
0 0.2280 0.002363 0.1688 0.1249 0.1396 0.004149 0.3114 0.02070

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 669.5 0.04439 0.1919 0.9635 0.0062540.0009421 0.5059
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7558 0.1913 0.1475 0.04978 0.09599 0.2765
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2861 0.2689 0.5536 0.1438 0.01608 0.1702
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9977 0.9815 0.1937 0.002877 0.3784 4.835e-5

mode liq bi ep g mu pl ilm ru q H2O
0.07753 0.2210 0.02397 0.1471 0.04299 0.1929 0 0.003705 0.2908 0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	665.1	0.04218	0.1916	0.9676	0.0055500	0.0009889	0.5060
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7591	0.1929	0.1307	0.04749	0.09407	0.2859	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2910	0.2732	0.5609	0.1536	0.01789	0.1702	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9975	0.9841	0.1681	0.002741	0.3803	5.025e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q	H2O
	0	0.2239	0.02340	0.1454	0.05050	0.2208		0	0.003731	0.3000 0.03226

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q, H2O

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.26	689.7	0.05883	0.1940	0.9459	0.008719	0.001103	0.5151
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7356	0.1943	0.1980	0.05310	0.1030	0.2536	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5286	0.08835	0.009101	0.3051	0.003078	0.4102	
	Q(ilm)						
	6.37E-05						

mode	liq	bi	g	pl	ilm	ru	ky	q	H2O
	0.1047	0.2177	0.1418	0.2506	0.004465	0.002821		0	0.2779 0

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : bi, g, pl, ilm, ru, q, H2O, (liq, ky)

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.23	685.1	0.05741	0.1956	0.9499	0.007707	0.001086	0.5182
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7367	0.1983	0.1954	0.05222	0.1013	0.2598	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5329	0.07740	0.007785	0.2737	0.003145	0.4137	

Q(ilm)

6.80E-05

mode liq bi g pl ilm ru ky q H2O

0 0.2222 0.1365 0.2990 0.004618 0.002780 0 0.2926 0.04238

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O

6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.23 685.1 0.05741 0.1956 0.9499 0.007707 0.001086 0.5182

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7367 0.1983 0.1954 0.05222 0.1013 0.2598

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5329 0.07740 0.007785 0.2737 0.003145 0.4137

Q(ilm)

6.80E-05

mode liq bi g pl ilm ru ky q H2O

0 0.2222 0.1365 0.2990 0.004618 0.002780 0 0.2926 0.04238

calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O

6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.00 555.3 0.08373 0.1226 0.9869 0.0026500 0.0007166 0.4133

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7885 0.1998 0.1566 0.04120 0.05586 0.3312

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.5489 0.02470 0.001533 0.33030 0.0002545 0.4331

Q(ilm)

0.000777

mode liq bi g pl ilm ru ky q

0.08488 0.2256 0.1204 0.2854 0.006013 0.003807 0 0.2739

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.20 559.2 0.08189 0.1246 0.9863 0.0027660 0.0007220 0.4172

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7883 0.1998 0.1574 0.04156 0.05701 0.3289

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5486 0.02618 0.001625 0.32990.0002762 0.4314
Q(ilm)

0.000538

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08502	0.2255	0.1208	0.2846	0.005969	0.003785	0	0.2742

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 563.2 0.08014 0.1267 0.9856 0.0028870.0007279 0.4210
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7879 0.1997 0.1582 0.04193 0.05820 0.3267
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5482 0.02773 0.001725 0.32960.0003001 0.4299
Q(ilm)

0.000411

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08521	0.2254	0.1212	0.2839	0.005925	0.003763	0	0.2746

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 567.3 0.07847 0.1287 0.9848 0.0030140.0007342 0.4249
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7874 0.1996 0.1591 0.04231 0.05943 0.3244
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5478 0.02936 0.001833 0.32920.0003263 0.4283
Q(ilm)

0.000333

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08543	0.2253	0.1217	0.2830	0.005880	0.003740	0	0.2749

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 571.4 0.07688 0.1308 0.9841 0.0031480.0007409 0.4287
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7868 0.1995 0.1601 0.04269 0.06069 0.3220
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5473 0.03107 0.001950 0.32870.0003551 0.4269
Q(ilm)

0.00028

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08569	0.2251	0.1222	0.2822	0.005835	0.003715	0	0.2753

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 575.6 0.07538 0.1330 0.9832 0.0032890.0007481 0.4326
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7860 0.1993 0.1611 0.04308 0.06200 0.3195
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5469 0.03286 0.002076 0.32820.0003869 0.4255

Q(ilm)

0.000242

mode	liq	bi	g	pl	ilm	ru	ky	q
0.08599	0.2250	0.1227	0.2813	0.005789	0.003689	0	0.2756	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 579.9 0.07395 0.1351 0.9824 0.0034360.0007558 0.4365
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7851 0.1992 0.1622 0.04348 0.06336 0.3170
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5464 0.03474 0.002213 0.32770.0004220 0.4242

Q(ilm)

0.000213

mode	liq	bi	g	pl	ilm	ru	ky	q
0.08633	0.2248	0.1232	0.2803	0.005742	0.003662	0	0.2759	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 584.3 0.07260 0.1374 0.9814 0.0035920.0007641 0.4403
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7841 0.1991 0.1633 0.04389 0.06475 0.3144
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5459 0.03670 0.002362 0.32710.0004609 0.4229

Q(ilm)

0.00019

mode	liq	bi	g	pl	ilm	ru	ky	q
0.08671	0.2247	0.1238	0.2793	0.005695	0.003633	0	0.2761	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 588.8 0.07132 0.1397 0.9804 0.0037550.0007730 0.4442
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7830 0.1989 0.1646 0.04431 0.06620 0.3118
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5454 0.03876 0.002523 0.32650.0005038 0.4217

Q(ilm)

0.000172

mode	liq	bi	g	pl	ilm	ru	ky	q
0.08714	0.2245	0.1244	0.2783	0.005646	0.003603	0	0.2764	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 593.4 0.07011 0.1420 0.9794 0.0039260.0007826 0.4481
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7817 0.1988 0.1658 0.04474 0.06770 0.3091
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5449 0.04089 0.002698 0.32580.0005515 0.4206

Q(ilm)

0.000157

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08761	0.2243	0.1250	0.2773	0.005597	0.003572	0	0.2766

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.00	598.1	0.06898	0.1444	0.9783	0.0041060	0.0007929	0.4521
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7802	0.1986	0.1672	0.04517	0.06925	0.3063	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5443	0.04312	0.002887	0.32510	0.0006043	0.4195	
	Q(ilm)						
	0.000144						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08813	0.2241	0.1257	0.2761	0.005546	0.003539	0	0.2769

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.20	602.9	0.06790	0.1469	0.9771	0.0042960	0.0008039	0.4560
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7786	0.1984	0.1687	0.04562	0.07085	0.3035	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5437	0.04543	0.003093	0.32430	0.0006631	0.4185	
	Q(ilm)						
	0.000133						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08870	0.2239	0.1264	0.2750	0.005494	0.003505	0	0.2771

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	607.8	0.06690	0.1494	0.9758	0.0044950	0.0008157	0.4599
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7769	0.1982	0.1702	0.04607	0.07251	0.3006	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5431	0.04782	0.003316	0.32340	0.0007284	0.4175	
	Q(ilm)						
	0.000124						

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.08932	0.2237	0.1271	0.2738	0.005441	0.003469	0	0.2773

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.60	612.9	0.06596	0.1520	0.9744	0.0047040	0.0008284	0.4639
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7750	0.1980	0.1717	0.04653	0.07423	0.2976	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5424	0.05029	0.003557	0.32250	0.0008010	0.4167	
	Q(ilm)						
	0.000116						

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.08999 0.2234 0.1278 0.2725 0.005386 0.003432 0 0.2774

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 618.0 0.06508 0.1547 0.9730 0.0049240.0008420 0.4678
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7730 0.1978 0.1734 0.04700 0.07601 0.2946
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5417 0.05285 0.003818 0.32160.0008819 0.4159
Q(ilm)
0.000109

mode liq bi g pl ilm ru ky q
0.09071 0.2231 0.1286 0.2712 0.005330 0.003394 0 0.2776

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 623.2 0.06426 0.1575 0.9714 0.0051550.0008565 0.4717
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7708 0.1975 0.1751 0.04747 0.07785 0.2915
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5409 0.05547 0.004100 0.32060.0009721 0.4151
Q(ilm)
0.000103

mode liq bi g pl ilm ru ky q
0.09149 0.2229 0.1295 0.2698 0.005272 0.003354 0 0.2777

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 628.6 0.06350 0.1603 0.9698 0.0053980.0008721 0.4757
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7684 0.1973 0.1769 0.04795 0.07975 0.2883
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5401 0.05816 0.004405 0.3195 0.001073 0.4144
Q(ilm)
9.76E-05

mode liq bi g pl ilm ru ky q
0.09232 0.2225 0.1303 0.2684 0.005212 0.003312 0 0.2779

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 634.1 0.06280 0.1632 0.9680 0.0056540.0008887 0.4796
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7660 0.1971 0.1788 0.04844 0.08171 0.2851
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5392 0.06092 0.004733 0.3184 0.001185 0.4138
Q(ilm)
9.27E-05

mode liq bi g pl ilm ru ky q
0.09322 0.2222 0.1313 0.2669 0.005151 0.003269 0 0.2780

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 639.7 0.06216 0.1662 0.9662 0.0059220.0009065 0.4835
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7633 0.1968 0.1807 0.04893 0.08374 0.2819
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5383 0.06373 0.005086 0.3172 0.001310 0.4133
Q(ilm)
8.83E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.09418	0.2219	0.1322	0.2654	0.005087	0.003225	0	0.2781

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80 645.3 0.06157 0.1693 0.9642 0.0062040.0009254 0.4874
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7605 0.1965 0.1826 0.04943 0.08583 0.2786
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5374 0.06660 0.005465 0.3160 0.001449 0.4127
Q(ilm)
8.44E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.09520	0.2215	0.1332	0.2638	0.005021	0.003180	0	0.2781

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 651.1 0.06104 0.1724 0.9621 0.0064990.0009456 0.4913
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7576 0.1963 0.1846 0.04993 0.08798 0.2752
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5363 0.06950 0.005871 0.3147 0.001604 0.4123
Q(ilm)
8.07E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.09628	0.2211	0.1342	0.2622	0.004953	0.003134	0	0.2782

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 657.0 0.06056 0.1757 0.9599 0.0068100.0009670 0.4952
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7545 0.1960 0.1867 0.05043 0.09020 0.2719
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5353 0.07245 0.006305 0.3133 0.001777 0.4119
Q(ilm)
7.74E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.09743	0.2206	0.1353	0.2605	0.004882	0.003086	0	0.2782

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 663.0 0.06013 0.1790 0.9576 0.0071350.0009897 0.4990

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7512 0.1957 0.1888 0.05093 0.09248 0.2685
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5341 0.07542 0.006768 0.3119 0.001970 0.4115
 Q(ilm)

7.44E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.09865	0.2201	0.1364	0.2587	0.004809	0.003038	0	0.2782	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.60 669.1 0.05975 0.1824 0.9551 0.007477 0.001014 0.5028
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7478 0.1954 0.1909 0.05144 0.09483 0.2650
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5329 0.07842 0.007261 0.3104 0.002185 0.4111
 Q(ilm)

7.16E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.09994	0.2196	0.1376	0.2569	0.004734	0.002988	0	0.2782	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.80 675.2 0.05941 0.1858 0.9525 0.007834 0.001039 0.5066
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7443 0.1951 0.1930 0.05194 0.09723 0.2616
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5317 0.08143 0.007784 0.3089 0.002424 0.4108
 Q(ilm)

6.90E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.1013	0.2191	0.1388	0.2550	0.004655	0.002938	0	0.2781	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.00 681.5 0.05913 0.1893 0.9497 0.008209 0.001066 0.5103
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7406 0.1948 0.1952 0.05245 0.09969 0.2581
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.5304 0.08445 0.008338 0.3073 0.002690 0.4105
 Q(ilm)

6.66E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.1027	0.2185	0.1401	0.2531	0.004574	0.002888	0	0.2781	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.20 687.8 0.05889 0.1929 0.9468 0.008601 0.001095 0.5140
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7368 0.1944 0.1973 0.05295 0.1022 0.2547

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5290 0.08746 0.008924 0.3056 0.002985 0.4103
Q(ilm)

6.43E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1043	0.2179	0.1414	0.2512	0.004490	0.002836	0	0.2780

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 694.2 0.05870 0.1966 0.9437 0.009011 0.001125 0.5176
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7328 0.1941 0.1995 0.05345 0.1048 0.2512
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5275 0.09047 0.009540 0.3039 0.003313 0.4100
Q(ilm)

6.22E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1058	0.2172	0.1428	0.2492	0.004404	0.002785	0	0.2778

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 700.6 0.05855 0.2003 0.9405 0.009440 0.001156 0.5211
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7288 0.1937 0.2016 0.05395 0.1074 0.2477
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5260 0.09346 0.01019 0.3020 0.003678 0.4098
Q(ilm)

6.02E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1075	0.2164	0.1442	0.2471	0.004314	0.002734	0	0.2777

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 707.1 0.05844 0.2041 0.9371 0.009887 0.001189 0.5246
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7246 0.1933 0.2038 0.05444 0.1101 0.2443
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5245 0.09644 0.01087 0.3001 0.004081 0.4095
Q(ilm)

5.84E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1093	0.2157	0.1457	0.2450	0.004221	0.002682	0	0.2775

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 713.6 0.05838 0.2079 0.9336 0.01035 0.001224 0.5280
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7203 0.1929 0.2059 0.05493 0.1129 0.2408
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5228 0.09938 0.01158 0.2982 0.004529 0.4093

Q(ilm)

5.66E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1111	0.2148	0.1472	0.2428	0.004125	0.002631	0	0.2772

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.20	720.2	0.05835	0.2118	0.9298	0.01084	0.001260	0.5313
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7159	0.1925	0.2080	0.05541	0.1157	0.2374
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5211	0.1023	0.01232	0.2961	0.005024	0.4090

Q(ilm)

5.50E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1130	0.2139	0.1488	0.2407	0.004026	0.002581	0	0.2770

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.40	726.8	0.05837	0.2157	0.9259	0.01135	0.001297	0.5345
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7114	0.1920	0.2100	0.05589	0.1185	0.2339
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5193	0.1052	0.01309	0.2940	0.005571	0.4087

Q(ilm)

5.34E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1150	0.2130	0.1505	0.2384	0.003924	0.002531	0	0.2767

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.60	733.4	0.05842	0.2196	0.9219	0.01188	0.001337	0.5376
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7068	0.1916	0.2120	0.05637	0.1214	0.2305
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5175	0.1080	0.01388	0.2917	0.006175	0.4084

Q(ilm)

5.19E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1171	0.2119	0.1522	0.2361	0.003819	0.002483	0	0.2763

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.80	740.0	0.05851	0.2236	0.9176	0.01243	0.001377	0.5406
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7021	0.1910	0.2140	0.05684	0.1243	0.2272
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5156	0.1108	0.01471	0.2894	0.006842	0.4081

Q(ilm)

5.05E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1193	0.2108	0.1540	0.2338	0.003710	0.002436	0	0.2760

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.00	746.7	0.05864	0.2276	0.9131	0.01300	0.001419	0.5435
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6973	0.1905	0.2159	0.05730	0.1272	0.2238	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5136	0.1135	0.01556	0.2869	0.007576	0.4077	
	Q(ilm)						

4.91E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1216	0.2096	0.1558	0.2315	0.003598	0.002390	0	0.2755

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.20	753.3	0.05880	0.2315	0.9085	0.01358	0.001463	0.5463
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6925	0.1899	0.2177	0.05775	0.1302	0.2205	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5115	0.1162	0.01644	0.2844	0.008385	0.4073	
	Q(ilm)						

4.78E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1239	0.2084	0.1577	0.2291	0.003483	0.002346	0	0.2751

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.40	759.9	0.05899	0.2355	0.9036	0.01420	0.001507	0.5490
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6876	0.1893	0.2194	0.05820	0.1333	0.2172	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5094	0.1188	0.01734	0.2817	0.009274	0.4068	
	Q(ilm)						

4.65E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1264	0.2070	0.1597	0.2267	0.003365	0.002305	0	0.2745

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
13.60	766.5	0.05921	0.2395	0.8986	0.01483	0.001553	0.5515
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6827	0.1887	0.2211	0.05864	0.1363	0.2140	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.5072	0.1214	0.01827	0.2788	0.01025	0.4063	
	Q(ilm)						

4.53E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.1289 0.2056 0.1618 0.2242 0.003244 0.002266 0 0.2740

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 773.0 0.05947 0.2434 0.8933 0.01547 0.001600 0.5540
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6778 0.1880 0.2226 0.05908 0.1393 0.2108
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5049 0.1238 0.01921 0.2758 0.01132 0.4057
Q(ilm)

4.42E-05

mode liq bi g pl ilm ru ky q
0.1316 0.2040 0.1640 0.2217 0.003120 0.002229 0 0.2734

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 779.5 0.05975 0.2473 0.8879 0.01614 0.001648 0.5562
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6728 0.1873 0.2241 0.05951 0.1424 0.2077
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5025 0.1262 0.02018 0.2726 0.01249 0.4050
Q(ilm)

4.30E-05

mode liq bi g pl ilm ru ky q
0.1343 0.2024 0.1662 0.2192 0.002993 0.002197 0 0.2727

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 785.9 0.06005 0.2512 0.8822 0.01683 0.001696 0.5584
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6678 0.1865 0.2255 0.05993 0.1455 0.2046
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5001 0.1286 0.02116 0.2693 0.01378 0.4042
Q(ilm)

4.19E-05

mode liq bi g pl ilm ru ky q
0.1371 0.2006 0.1685 0.2167 0.002863 0.002167 0 0.2720

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 792.2 0.06038 0.2550 0.8764 0.01753 0.001745 0.5603
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6629 0.1857 0.2268 0.06035 0.1486 0.2016
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4975 0.1308 0.02215 0.2658 0.01518 0.4034
Q(ilm)

4.09E-05

mode liq bi g pl ilm ru ky q
0.1400 0.1988 0.1709 0.2142 0.002730 0.002142 0 0.2712

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.60 798.5 0.06073 0.2588 0.8704 0.01824 0.001794 0.5622
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6579 0.1848 0.2279 0.06076 0.1516 0.1986
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4950 0.1330 0.02316 0.2620 0.01670 0.4025
 Q(ilm)
 3.98E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1430	0.1968	0.1734	0.2117	0.002594	0.002121	0	0.2704

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 804.7 0.06109 0.2625 0.8642 0.01896 0.001844 0.5639
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6531 0.1839 0.2289 0.06116 0.1547 0.1957
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4923 0.1351 0.02418 0.2581 0.01837 0.4014
 Q(ilm)
 3.88E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1460	0.1947	0.1760	0.2092	0.002456	0.002105	0	0.2695

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.00 810.7 0.06146 0.2661 0.8578 0.01969 0.001893 0.5654
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6483 0.1829 0.2298 0.06156 0.1577 0.1929
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4896 0.1371 0.02520 0.2539 0.02018 0.4003
 Q(ilm)
 3.79E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1491	0.1925	0.1787	0.2067	0.002316	0.002094	0	0.2685

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.20 816.6 0.06184 0.2696 0.8513 0.02043 0.001941 0.5667
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6435 0.1818 0.2306 0.06195 0.1607 0.1901
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4868 0.1391 0.02623 0.2495 0.02214 0.3991
 Q(ilm)
 3.69E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1523	0.1902	0.1815	0.2042	0.002173	0.002088	0	0.2676

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 822.4 0.06223 0.2730 0.8446 0.02117 0.001988 0.5679

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6389 0.1808 0.2313 0.06233 0.1637 0.1875
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4839 0.1409 0.02726 0.2449 0.02426 0.3977
 Q(ilm)

3.60E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.1555	0.1878	0.1844	0.2017	0.002029	0.002088	0	0.2665	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 828.0 0.06261 0.2763 0.8378 0.02190 0.002035 0.5690
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6344 0.1796 0.2318 0.06271 0.1666 0.1848
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4810 0.1427 0.02829 0.2400 0.02655 0.3963
 Q(ilm)

3.51E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.1588	0.1852	0.1873	0.1993	0.001882	0.002094	0	0.2654	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 833.5 0.06298 0.2795 0.8309 0.02263 0.002079 0.5698
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6300 0.1784 0.2321 0.06308 0.1695 0.1823
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4780 0.1444 0.02931 0.2348 0.02903 0.3947
 Q(ilm)

3.43E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.1621	0.1825	0.1904	0.1969	0.001735	0.002106	0	0.2643	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 838.7 0.06334 0.2825 0.8240 0.02335 0.002122 0.5705
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6259 0.1772 0.2324 0.06344 0.1723 0.1799
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4750 0.1460 0.03033 0.2295 0.03169 0.3930
 Q(ilm)

3.34E-05

mode	liq	bi	g	pl	ilm	ru	ky	q	
	0.1654	0.1797	0.1935	0.1945	0.001586	0.002124	0	0.2631	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.20 843.8 0.06369 0.2854 0.8170 0.02406 0.002163 0.5711
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6218 0.1759 0.2325 0.06380 0.1750 0.1775

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4719 0.1475 0.03135 0.2238 0.03455 0.3912
Q(ilm)

3.26E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1686	0.1768	0.1967	0.1923	0.001437	0.002148	0	0.2619

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 848.7 0.06400 0.2882 0.8100 0.02474 0.002202 0.5715
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6180 0.1746 0.2324 0.06415 0.1776 0.1752
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4689 0.1489 0.03234 0.2179 0.03762 0.3894
Q(ilm)

3.18E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1719	0.1739	0.2000	0.1901	0.001287	0.002178	0	0.2607

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 853.4 0.06429 0.2908 0.8031 0.02540 0.002238 0.5718
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6144 0.1733 0.2322 0.06449 0.1802 0.1731
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4658 0.1502 0.03333 0.2119 0.04090 0.3874
Q(ilm)

3.10E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1751	0.1708	0.2033	0.1879	0.001137	0.002215	0	0.2595

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 857.9 0.06455 0.2932 0.7962 0.02603 0.002271 0.5719
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6111 0.1719 0.2319 0.06482 0.1827 0.1710
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4626 0.1514 0.03430 0.2056 0.04441 0.3853
Q(ilm)

3.03E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1783	0.1676	0.2067	0.18590	0.0009872	0.002257	0	0.2582

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 862.2 0.06476 0.2955 0.7895 0.02663 0.002302 0.5720
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6079 0.1706 0.2315 0.06515 0.1850 0.1690
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4595 0.1526 0.03525 0.1991 0.04814 0.3831

Q(ilm)

2.95E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1814	0.1644	0.2101	0.18400	0.008378	0.002305	0	0.2569

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	866.3	0.06493	0.2976	0.7829	0.02719	0.002329	0.5719
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6051	0.1692	0.2310	0.06547	0.1873	0.1671
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4564	0.1537	0.03619	0.1924	0.05212	0.3808

Q(ilm)

2.88E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1845	0.1611	0.2136	0.18220	0.006891	0.002359	0	0.2556

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	870.2	0.06506	0.2996	0.7766	0.02772	0.002354	0.5717
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6024	0.1677	0.2303	0.06577	0.1894	0.1653
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4533	0.1547	0.03710	0.1856	0.05635	0.3785

Q(ilm)

2.81E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1874	0.1578	0.2170	0.18040	0.005414	0.002417	0	0.2544

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.60	873.8	0.06513	0.3014	0.7705	0.02821	0.002375	0.5714
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6000	0.1663	0.2296	0.06607	0.1915	0.1636
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4503	0.1556	0.03800	0.1787	0.06084	0.3760

Q(ilm)

2.75E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1902	0.1545	0.2205	0.17880	0.003950	0.002481	0	0.2531

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.80	877.3	0.06515	0.3031	0.7646	0.02865	0.002394	0.5710
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5979	0.1649	0.2287	0.06636	0.1934	0.1619
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4472	0.1565	0.03887	0.1717	0.06560	0.3736

Q(ilm)

2.69E-05

```
mode  liq  bi   g   pl  ilm  ru   ky   q
      0.1929 0.1511 0.2240 0.17740.0002499 0.002548    0 0.2518
```

```
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00    880.6 0.06511 0.3046 0.7591 0.02905 0.002410 0.5705
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5961 0.1635 0.2277 0.06664 0.1952 0.1604
      x(g)  z(g)  f(g) ca(pl) k(pl) x(ilm)
      0.4442 0.1573 0.03972 0.1647 0.07065 0.3711
      Q(ilm)
2.62E-05
```

```
mode  liq  bi   g   pl  ilm  ru   ky   q
      0.1955 0.1477 0.2275 0.17600.0001065 0.002619    0 0.2506
```

calcs use:

composition (from script)

```
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2   O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
```

<=====>

phases : liq, bi, ep, g, pl, ilm, ru, ky, q

```
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00    713.5 0.04469 0.2135 0.9396 0.0096260.0009422 0.5255
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7303 0.1844 0.1833 0.05661 0.1149 0.2407
      f(ep) Q(ep) x(g)  z(g)  f(g) ca(pl)
      0.2938 0.2717 0.5403 0.1881 0.02749 0.2106
      k(pl) x(ilm) Q(ilm)
      0.005950 0.3624 3.579e-5
```

```
mode  liq  bi   ep   g   pl  ilm  ru   ky   q
      0.1079 0.2156    0 0.1636 0.2149 0.002158 0.002927 0.01139 0.2815
```

```
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10    714.8 0.04433 0.2145 0.9392 0.0096470.0009407 0.5262
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7297 0.1842 0.1831 0.05673 0.1155 0.2401
      f(ep) Q(ep) x(g)  z(g)  f(g) ca(pl)
      0.2945 0.2722 0.5404 0.1909 0.02828 0.2071
      k(pl) x(ilm) Q(ilm)
      0.006124 0.3613 3.530e-5
```

```
mode  liq  bi   ep   g   pl  ilm  ru   ky   q
      0.1082 0.2154    0 0.1644 0.2137 0.002063 0.002926 0.01174 0.2816
```

```
-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20    716.0 0.04397 0.2154 0.9389 0.0096640.0009389 0.5269
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
```

0.7292 0.1840 0.1828 0.05684 0.1161 0.2396
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2952 0.2726 0.5404 0.1936 0.02906 0.2035
k(pl) x(ilm) Q(ilm)
0.006299 0.3601 3.483e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1084	0.2153	0	0.1652	0.2124	0.001967	0.002926	0.01210	0.2817

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.30 717.1 0.04361 0.2162 0.9385 0.0096750.0009369 0.5275
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7286 0.1838 0.1825 0.05695 0.1166 0.2391
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2959 0.2731 0.5405 0.1963 0.02985 0.1999
k(pl) x(ilm) Q(ilm)
0.006474 0.3590 3.436e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1087	0.2151	0	0.1660	0.2112	0.001871	0.002926	0.01246	0.2817

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 718.2 0.04324 0.2171 0.9382 0.0096800.0009347 0.5282
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7282 0.1836 0.1821 0.05706 0.1172 0.2386
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2965 0.2735 0.5406 0.1989 0.03064 0.1963
k(pl) x(ilm) Q(ilm)
0.006650 0.3578 3.391e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1089	0.2150	0	0.1668	0.2100	0.001774	0.002927	0.01282	0.2818

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 719.2 0.04286 0.2179 0.9379 0.0096810.0009323 0.5288
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7278 0.1834 0.1817 0.05715 0.1177 0.2382
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2972 0.2739 0.5406 0.2015 0.03143 0.1926
k(pl) x(ilm) Q(ilm)
0.006825 0.3566 3.347e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1091	0.2149	0	0.1675	0.2088	0.001678	0.002928	0.01318	0.2819

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 720.2 0.04249 0.2187 0.9377 0.0096760.0009296 0.5295
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7274 0.1832 0.1813 0.05725 0.1182 0.2378
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)

0.2979 0.2744 0.5407 0.2041 0.03221 0.1890
k(pl) x(ilm) Q(ilm)
0.007000 0.3554 3.304e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1093	0.2148	0	0.1683	0.2076	0.001582	0.002930	0.01354	0.2820

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.70 721.2 0.04211 0.2195 0.9374 0.0096670.0009267 0.5301
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7270 0.1830 0.1809 0.05734 0.1187 0.2374
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2985 0.2748 0.5408 0.2067 0.03300 0.1854
k(pl) x(ilm) Q(ilm)
0.007173 0.3542 3.262e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1095	0.2147	0	0.1690	0.2065	0.001486	0.002932	0.01390	0.2820

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 722.1 0.04173 0.2202 0.9372 0.0096520.0009237 0.5306
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7267 0.1828 0.1804 0.05742 0.1191 0.2371
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2992 0.2752 0.5410 0.2091 0.03379 0.1817
k(pl) x(ilm) Q(ilm)
0.007346 0.3530 3.221e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1096	0.2146	0	0.1697	0.2053	0.001391	0.002934	0.01426	0.2821

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.90 722.9 0.04134 0.2209 0.9371 0.0096330.0009204 0.5312
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7264 0.1826 0.1799 0.05750 0.1196 0.2368
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2998 0.2756 0.5411 0.2116 0.03457 0.1781
k(pl) x(ilm) Q(ilm)
0.007517 0.3518 3.181e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1098	0.2145	0	0.1704	0.2042	0.001296	0.002936	0.01463	0.2822

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 723.7 0.04096 0.2215 0.9369 0.0096090.0009170 0.5318
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7262 0.1824 0.1794 0.05757 0.1200 0.2365
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3004 0.2760 0.5412 0.2140 0.03534 0.1745
k(pl) x(ilm) Q(ilm)

0.007687 0.3505 3.142e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
0.1099	0.2144		0	0.1711	0.2031	0.001202	0.002939	0.01499	0.2823

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.10 724.5 0.04057 0.2222 0.9368 0.0095800.0009134 0.5323

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7260 0.1823 0.1788 0.05764 0.1204 0.2363

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)

0.3010 0.2764 0.5414 0.2164 0.03612 0.1708

k(pl) x(ilm) Q(ilm)

0.007855 0.3493 3.103e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
0.1100	0.2143		0	0.1718	0.2021	0.001108	0.002942	0.01535	0.2824

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.20 725.2 0.04018 0.2228 0.9367 0.0095470.0009096 0.5328

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7258 0.1821 0.1783 0.05770 0.1208 0.2360

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)

0.3016 0.2768 0.5416 0.2187 0.03688 0.1673

k(pl) x(ilm) Q(ilm)

0.008020 0.3480 3.066e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
0.1102	0.2142		0	0.1725	0.2010	0.001015	0.002945	0.01570	0.2824

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.30 725.9 0.03979 0.2234 0.9366 0.0095100.0009057 0.5334

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7257 0.1819 0.1777 0.05776 0.1212 0.2358

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)

0.3022 0.2772 0.5417 0.2210 0.03764 0.1637

k(pl) x(ilm) Q(ilm)

0.008184 0.3468 3.029e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
0.1102	0.2142		0	0.1731	0.20000	0.0009229	0.002949	0.01606	0.2825

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.40 726.5 0.03939 0.2239 0.9365 0.0094690.0009016 0.5339

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7256 0.1818 0.1771 0.05781 0.1215 0.2357

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)

0.3028 0.2775 0.5419 0.2232 0.03840 0.1601

k(pl) x(ilm) Q(ilm)

0.008344 0.3456 2.994e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1103	0.2141	0	0.1737	0.19900	0.0008318	0.002952	0.01642	0.2826

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.50	727.1	0.03900	0.2244	0.9365	0.0094250	0.0008975	0.5343
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7256	0.1816	0.1764	0.05786	0.1219	0.2355	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3033	0.2779	0.5421	0.2254	0.03915	0.1566	
	k(pl)	x(ilm)	Q(ilm)				
	0.008501	0.3443	2.959e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1104	0.2141	0	0.1744	0.19810	0.0007417	0.002956	0.01677	0.2827

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.60	727.7	0.03860	0.2249	0.9365	0.0093760	0.0008932	0.5348
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7256	0.1815	0.1757	0.05790	0.1222	0.2354	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3039	0.2783	0.5423	0.2275	0.03989	0.1531	
	k(pl)	x(ilm)	Q(ilm)				
	0.008655	0.3430	2.924e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1104	0.2140	0	0.1750	0.19710	0.0006528	0.002960	0.01712	0.2828

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.70	728.2	0.03820	0.2254	0.9365	0.0093240	0.0008887	0.5353
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7256	0.1813	0.1751	0.05794	0.1225	0.2353	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3045	0.2786	0.5425	0.2296	0.04062	0.1497	
	k(pl)	x(ilm)	Q(ilm)				
	0.008806	0.3418	2.891e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1105	0.2140	0	0.1755	0.19620	0.0005649	0.002964	0.01747	0.2829

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.80	728.7	0.03780	0.2258	0.9365	0.0092690	0.0008842	0.5357
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7256	0.1812	0.1743	0.05797	0.1228	0.2352	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3050	0.2790	0.5427	0.2316	0.04134	0.1462	
	k(pl)	x(ilm)	Q(ilm)				
	0.008953	0.3405	2.858e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1105	0.2139	0	0.1761	0.19530	0.0004784	0.002968	0.01781	0.2829

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 729.2 0.03740 0.2262 0.9365 0.0092110.0008796 0.5362
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7257 0.1811 0.1736 0.05800 0.1231 0.2352
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3055 0.2794 0.5430 0.2336 0.04206 0.1428
k(pl) x(ilm) Q(ilm)
0.009096 0.3392 2.826e-5

mode liq bi ep g pl ilm ru ky q
0.1105 0.2139 0 0.1766 0.19440.0003931 0.002972 0.01815 0.2830

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 729.6 0.03701 0.2265 0.9366 0.0091490.0008749 0.5366
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7258 0.1809 0.1729 0.05802 0.1233 0.2352
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3061 0.2797 0.5432 0.2356 0.04276 0.1395
k(pl) x(ilm) Q(ilm)
0.009235 0.3380 2.794e-5

mode liq bi ep g pl ilm ru ky q
0.1105 0.2138 0 0.1772 0.19360.0003091 0.002977 0.01849 0.2831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 729.9 0.03661 0.2269 0.9366 0.0090850.0008701 0.5370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7260 0.1808 0.1721 0.05804 0.1236 0.2352
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3066 0.2801 0.5435 0.2375 0.04346 0.1362
k(pl) x(ilm) Q(ilm)
0.009370 0.3367 2.763e-5

mode liq bi ep g pl ilm ru ky q
0.1105 0.2138 0 0.1777 0.19280.0002265 0.002981 0.01883 0.2832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 730.3 0.03621 0.2272 0.9367 0.0090180.0008652 0.5374
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7261 0.1807 0.1713 0.05805 0.1238 0.2352
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3071 0.2804 0.5437 0.2393 0.04415 0.1330
k(pl) x(ilm) Q(ilm)
0.009500 0.3354 2.733e-5

mode liq bi ep g pl ilm ru ky q
0.1104 0.2138 0 0.1782 0.19200.0001453 0.002986 0.01916 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

```

16.30  730.6 0.03581 0.2275 0.9368 0.0089490.0008602 0.5378
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7263 0.1806 0.1705 0.05806 0.1240 0.2352
      f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
      0.3076 0.2807 0.5440 0.2412 0.04482 0.1297
      k(pl) x(ilm) Q(ilm)
      0.009625 0.3342 2.704e-5

```

```

mode  liq  bi  ep  g  pl  ilm  ru  ky  q
      0.1104 0.2138 0 0.1787 0.1912 6.552e-5 0.002990 0.01949 0.2834
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
  6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>

```

```

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.40    663.5 0.05233 0.1810 0.9587 0.0073130.0008771 0.4974
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7574 0.1910 0.1772 0.05177 0.09343 0.2678
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2724 0.2578 0.5440 0.1148 0.01090 0.1682
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9984 0.9799 0.2799 0.002209 0.3854 5.356e-5

```

```

mode  liq  bi  ep  g  mu  pl  ilm  ru  ky  q
      0.09671 0.2205 0.001113 0.1425 0 0.2471 0.004049 0.003178 0.004634 0.2803

```

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.50    664.8 0.05181 0.1822 0.9584 0.0073270.0008769 0.4984
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7567 0.1910 0.1770 0.05189 0.09400 0.2672
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2731 0.2584 0.5441 0.1165 0.01119 0.1685
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9983 0.9795 0.2749 0.002290 0.3844 5.265e-5

```

```

mode  liq  bi  ep  g  mu  pl  ilm  ru  ky  q
      0.09678 0.2204 0.002300 0.1429 0 0.2451 0.003827 0.003197 0.005024 0.2805

```

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.60    666.1 0.05130 0.1833 0.9582 0.0073400.0008767 0.4995
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7561 0.1909 0.1768 0.05200 0.09457 0.2667
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2738 0.2589 0.5443 0.1182 0.01149 0.1688
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9983 0.9792 0.2700 0.002373 0.3834 5.176e-5

```

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.09686	0.2203	0.003429	0.1434		0	0.2432	0.003613	0.003215	0.005408	0.2806

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.70	667.5	0.05079	0.1845	0.9579	0.0073530	0.0008764	0.5006
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7554	0.1908	0.1766	0.05211	0.09514	0.2661	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2746	0.2594	0.5444	0.1200	0.01179	0.1692	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9983	0.9789	0.2652	0.002458	0.3824	5.089e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.09694	0.2202	0.004501	0.1439		0	0.2413	0.003406	0.003231	0.005784	0.2807

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.80	668.8	0.05030	0.1856	0.9576	0.0073660	0.0008761	0.5016
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7548	0.1907	0.1764	0.05222	0.09570	0.2656	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2753	0.2599	0.5446	0.1217	0.01211	0.1695	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9982	0.9785	0.2605	0.002545	0.3813	5.005e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.09703	0.2201	0.005518	0.1444		0	0.2395	0.003207	0.003247	0.006155	0.2808

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
11.90	670.1	0.04981	0.1867	0.9573	0.0073790	0.0008758	0.5026
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7542	0.1905	0.1762	0.05233	0.09626	0.2650	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2760	0.2604	0.5447	0.1235	0.01243	0.1698	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9982	0.9782	0.2559	0.002633	0.3803	4.923e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.09712	0.2200	0.006481	0.1449		0	0.2377	0.003015	0.003261	0.006518	0.2810

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
12.00	671.4	0.04933	0.1878	0.9570	0.0073920	0.0008755	0.5036
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7536	0.1904	0.1760	0.05244	0.09682	0.2645	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2767	0.2609	0.5448	0.1253	0.01276	0.1701	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9981	0.9778	0.2513	0.002724	0.3792	4.843e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
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0.09722 0.2200 0.007391 0.1454 0 0.2360 0.002830 0.003274 0.006876 0.2811

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 672.7 0.04885 0.1889 0.9568 0.0074040.0008751 0.5046
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7530 0.1903 0.1758 0.05255 0.09738 0.2639
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2774 0.2614 0.5450 0.1271 0.01310 0.1704
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9981 0.9775 0.2469 0.002816 0.3782 4.765e-5

mode liq bi ep g mu pl ilm ru ky q
0.09732 0.2199 0.008251 0.1459 0 0.2343 0.002652 0.003286 0.007228 0.2812

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 674.0 0.04839 0.1900 0.9565 0.0074160.0008747 0.5056
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7524 0.1902 0.1756 0.05266 0.09793 0.2634
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2781 0.2619 0.5451 0.1290 0.01345 0.1707
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9980 0.9771 0.2425 0.002910 0.3771 4.690e-5

mode liq bi ep g mu pl ilm ru ky q
0.09743 0.2198 0.009060 0.1464 0 0.2327 0.002480 0.003297 0.007575 0.2813

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 675.2 0.04793 0.1910 0.9562 0.0074280.0008743 0.5065
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7518 0.1900 0.1753 0.05276 0.09849 0.2629
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2787 0.2624 0.5453 0.1308 0.01380 0.1709
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9980 0.9768 0.2381 0.003006 0.3760 4.616e-5

mode liq bi ep g mu pl ilm ru ky q
0.09755 0.2197 0.009821 0.1469 0 0.2311 0.002315 0.003307 0.007916 0.2814

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 676.5 0.04748 0.1920 0.9559 0.0074400.0008738 0.5075
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7513 0.1899 0.1751 0.05287 0.09904 0.2623
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2794 0.2629 0.5454 0.1327 0.01417 0.1712
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.9764 0.2339 0.003104 0.3750 4.544e-5

mode liq bi ep g mu pl ilm ru ky q
0.09767 0.2196 0.01053 0.1474 0 0.2296 0.002156 0.003316 0.008252 0.2815

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.50    677.7  0.04703  0.1930  0.9556  0.0074510.0008733  0.5084
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7507  0.1898  0.1748  0.05298  0.09959  0.2618
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2801  0.2634  0.5455  0.1346  0.01455  0.1715
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9979  0.9760  0.2297  0.003204  0.3739  4.474e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  ky  q
      0.09779  0.2195  0.01120  0.1479  0  0.2281  0.002004  0.003325  0.008584  0.2816

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.60    679.0  0.04659  0.1940  0.9553  0.0074630.0008728  0.5093
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7501  0.1896  0.1746  0.05308  0.1001  0.2613
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2808  0.2638  0.5456  0.1366  0.01493  0.1717
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9978  0.9756  0.2256  0.003305  0.3728  4.406e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  ky  q
      0.09792  0.2194  0.01182  0.1484  0  0.2266  0.001857  0.003332  0.008912  0.2817

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.70    680.2  0.04616  0.1950  0.9550  0.0074740.0008723  0.5102
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7496  0.1895  0.1743  0.05319  0.1007  0.2608
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2815  0.2643  0.5457  0.1385  0.01533  0.1720
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9978  0.9753  0.2216  0.003409  0.3718  4.340e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  ky  q
      0.09805  0.2193  0.01240  0.1489  0  0.2252  0.001715  0.003338  0.009235  0.2818

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.80    681.4  0.04574  0.1960  0.9548  0.0074850.0008717  0.5111
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7490  0.1893  0.1741  0.05329  0.1012  0.2602
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2822  0.2648  0.5459  0.1405  0.01574  0.1722
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9977  0.9749  0.2177  0.003514  0.3707  4.275e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  ky  q
      0.09819  0.2192  0.01293  0.1494  0  0.2238  0.001580  0.003344  0.009554  0.2819

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.90    682.7  0.04532  0.1970  0.9545  0.0074960.0008711  0.5120

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7485 0.1892 0.1738 0.05340 0.1018 0.2597
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2829 0.2653 0.5460 0.1425 0.01616 0.1725
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9976 0.9745 0.2138 0.003621 0.3696 4.212e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.09834	0.2192	0.01342	0.1500		0	0.2225	0.001449	0.003348	0.009869 0.2820

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.00 683.9 0.04490 0.1979 0.9542 0.0075070.0008704 0.5128
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7480 0.1890 0.1736 0.05350 0.1023 0.2592
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2836 0.2658 0.5461 0.1446 0.01659 0.1727
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9976 0.9741 0.2100 0.003731 0.3685 4.150e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.09848	0.2191	0.01387	0.1505		0	0.2211	0.001324	0.003352	0.01018 0.2821

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.10 685.1 0.04450 0.1988 0.9539 0.0075180.0008697 0.5137
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7475 0.1889 0.1733 0.05361 0.1029 0.2587
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2843 0.2662 0.5462 0.1466 0.01703 0.1729
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9975 0.9737 0.2063 0.003842 0.3674 4.090e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.09864	0.2190	0.01428	0.1510		0	0.2199	0.001204	0.003355	0.01049 0.2822

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.20 686.3 0.04410 0.1997 0.9536 0.0075290.0008690 0.5145
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7470 0.1887 0.1730 0.05371 0.1034 0.2581
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2849 0.2667 0.5463 0.1487 0.01749 0.1731
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9975 0.9732 0.2026 0.003955 0.3663 4.031e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.09879	0.2189	0.01465	0.1516		0	0.2186	0.001089	0.003358	0.01080 0.2822

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.30 687.5 0.04370 0.2006 0.9533 0.0075400.0008682 0.5153
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7464 0.1885 0.1727 0.05381 0.1039 0.2576

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2856 0.2672 0.5464 0.1508 0.01795 0.1733
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9974 0.9728 0.1990 0.004069 0.3653 3.974e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.09895	0.2188	0.01498	0.1521		0	0.21740	0.0009792	0.003359	0.01110 0.2823

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 688.7 0.04331 0.2015 0.9530 0.0075510.0008674 0.5161
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7459 0.1883 0.1725 0.05392 0.1045 0.2571
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2863 0.2676 0.5465 0.1530 0.01843 0.1735
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9973 0.9724 0.1955 0.004186 0.3642 3.918e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.09912	0.2187	0.01527	0.1527		0	0.21620	0.0008738	0.003360	0.01140 0.2824

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50 689.8 0.04293 0.2024 0.9527 0.0075620.0008666 0.5169
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7455 0.1882 0.1722 0.05402 0.1050 0.2566
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2870 0.2681 0.5466 0.1551 0.01892 0.1737
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9973 0.9720 0.1920 0.004305 0.3631 3.863e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.09929	0.2186	0.01552	0.1533		0	0.21500	0.0007729	0.003361	0.01169 0.2825

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 691.0 0.04255 0.2033 0.9524 0.0075730.0008658 0.5177
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7450 0.1880 0.1719 0.05412 0.1056 0.2561
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2877 0.2686 0.5467 0.1573 0.01943 0.1739
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9715 0.1886 0.004426 0.3620 3.810e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.09946	0.2185	0.01574	0.1538		0	0.21390	0.0006764	0.003360	0.01199 0.2826

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 692.2 0.04218 0.2041 0.9521 0.0075840.0008649 0.5185
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7445 0.1878 0.1716 0.05422 0.1061 0.2555
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2883 0.2690 0.5468 0.1595 0.01995 0.1741

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.9711 0.1853 0.004548 0.3609 3.758e-5

mode liq bi ep g mu pl ilm ru ky q
0.09964 0.2184 0.01591 0.1544 0 0.21280.0005843 0.003359 0.01228 0.2826

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 693.3 0.04182 0.2050 0.9518 0.0075950.0008639 0.5193
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7440 0.1876 0.1713 0.05432 0.1066 0.2550
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2890 0.2695 0.5469 0.1617 0.02048 0.1743
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.9706 0.1820 0.004673 0.3598 3.706e-5

mode liq bi ep g mu pl ilm ru ky q
0.09982 0.2183 0.01605 0.1550 0 0.21170.0004963 0.003358 0.01257 0.2827

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90 694.5 0.04145 0.2058 0.9515 0.0076050.0008630 0.5200
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7436 0.1874 0.1710 0.05442 0.1072 0.2545
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2897 0.2699 0.5469 0.1640 0.02103 0.1745
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9970 0.9701 0.1788 0.004799 0.3587 3.657e-5

mode liq bi ep g mu pl ilm ru ky q
0.1000 0.2182 0.01616 0.1556 0 0.21060.0004124 0.003355 0.01286 0.2828

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 695.6 0.04110 0.2066 0.9512 0.0076160.0008620 0.5208
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7431 0.1872 0.1707 0.05453 0.1077 0.2540
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2904 0.2704 0.5470 0.1663 0.02159 0.1747
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9969 0.9697 0.1756 0.004928 0.3576 3.608e-5

mode liq bi ep g mu pl ilm ru ky q
0.1002 0.2181 0.01623 0.1562 0 0.20960.0003325 0.003353 0.01315 0.2828

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 696.8 0.04075 0.2074 0.9509 0.0076270.0008609 0.5215
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7427 0.1870 0.1704 0.05463 0.1082 0.2535
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2910 0.2708 0.5471 0.1686 0.02217 0.1748
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9968 0.9692 0.1725 0.005059 0.3565 3.560e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.1004	0.2180	0.01627	0.1568		0	0.20860	0.0002565	0.003349	0.01343 0.2829

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20    697.9 0.04040 0.2082 0.9506 0.0076380.0008598 0.5222
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7422 0.1868 0.1702 0.05473 0.1088 0.2530
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2917 0.2713 0.5472 0.1709 0.02276 0.1750
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9968 0.9687 0.1695 0.005191 0.3554 3.513e-5

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mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.1006	0.2179	0.01627	0.1574		0	0.20760	0.001841	0.003346	0.01372 0.2830

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.30    699.1 0.04006 0.2090 0.9503 0.0076490.0008587 0.5230
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7418 0.1866 0.1699 0.05483 0.1093 0.2525
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2924 0.2717 0.5472 0.1733 0.02337 0.1751
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9967 0.9682 0.1665 0.005326 0.3543 3.467e-5

```

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.1008	0.2178	0.01623	0.1580		0	0.20660	0.001155	0.003341	0.01400 0.2830

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40    700.2 0.03972 0.2098 0.9499 0.0076610.0008576 0.5237
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7413 0.1864 0.1696 0.05493 0.1098 0.2520
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2930 0.2722 0.5473 0.1757 0.02400 0.1753
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9966 0.9676 0.1636 0.005462 0.3532 3.422e-5

```

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q
	0.1010	0.2177	0.01617	0.1587		0	0.2057	5.030e-5	0.003336	0.01428 0.2831

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20    660.7 0.05340 0.1786 0.9593 0.0072850.0008773 0.4952
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.7587 0.1913 0.1775 0.05154 0.09229 0.2689
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2710 0.2568 0.5438 0.1115 0.01035 0.1675
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9985 0.9805 0.2900 0.002053 0.3875 5.552e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.09134	0.2205	0.001039	0.1418	0.01294	0.2422	0.004137	0.003194	0	0.2829		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.30 662.1 0.05286 0.1798 0.9590 0.0072990.0008772 0.4963
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7580 0.1912 0.1774 0.05166 0.09286 0.2684
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2717 0.2573 0.5439 0.1132 0.01062 0.1679
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9984 0.9802 0.2849 0.002131 0.3865 5.454e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.09086	0.2204	0.002531	0.1423	0.01426	0.2393	0.003870	0.003220	0	0.2833		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.40 663.5 0.05233 0.1810 0.9587 0.0073130.0008770 0.4974
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7574 0.1911 0.1772 0.05177 0.09343 0.2678
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2724 0.2578 0.5441 0.1148 0.01091 0.1682
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9984 0.9798 0.2799 0.002210 0.3855 5.360e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.09040	0.2203	0.003945	0.1428	0.01556	0.2365	0.003614	0.003244	0	0.2837		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.50 664.8 0.05181 0.1822 0.9584 0.0073270.0008768 0.4985
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7567 0.1910 0.1770 0.05188 0.09400 0.2673
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2731 0.2584 0.5442 0.1165 0.01120 0.1686
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9983 0.9795 0.2749 0.002291 0.3845 5.268e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08996	0.2202	0.005282	0.1433	0.01682	0.2337	0.003368	0.003266	0	0.2841		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.60 666.1 0.05130 0.1833 0.9581 0.0073400.0008766 0.4996
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7561 0.1909 0.1768 0.05199 0.09457 0.2667
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2738 0.2589 0.5444 0.1183 0.01149 0.1689
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9983 0.9792 0.2700 0.002374 0.3834 5.179e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.08954	0.2201	0.006548	0.1438	0.01805	0.2311	0.003133	0.003287	0	0.2845	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.70 667.5 0.05079 0.1845 0.9579 0.0073540.0008764 0.5006
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7554 0.1908 0.1766 0.05211 0.09514 0.2662
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2745 0.2594 0.5445 0.1200 0.01180 0.1692
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9983 0.9789 0.2652 0.002459 0.3824 5.092e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.08913	0.2200	0.007743	0.1443	0.01926	0.2285	0.002906	0.003307	0	0.2848	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 668.8 0.05030 0.1856 0.9576 0.0073670.0008761 0.5017
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7548 0.1907 0.1764 0.05222 0.09570 0.2656
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2752 0.2599 0.5447 0.1218 0.01211 0.1695
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9982 0.9785 0.2605 0.002546 0.3814 5.007e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.08874	0.2199	0.008871	0.1448	0.02043	0.2260	0.002690	0.003325	0	0.2852	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.90 670.1 0.04981 0.1867 0.9573 0.0073790.0008758 0.5027
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7542 0.1906 0.1762 0.05233 0.09626 0.2651
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2760 0.2604 0.5448 0.1235 0.01243 0.1698
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9982 0.9782 0.2559 0.002634 0.3803 4.925e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.08836	0.2198	0.009933	0.1453	0.02159	0.2236	0.002482	0.003341	0	0.2855	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 671.4 0.04933 0.1878 0.9570 0.0073920.0008754 0.5037
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7536 0.1905 0.1760 0.05244 0.09682 0.2645
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2767 0.2609 0.5449 0.1253 0.01276 0.1701
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9981 0.9778 0.2513 0.002725 0.3793 4.845e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.08800	0.2197	0.01093	0.1458	0.02271	0.2213	0.002282	0.003356	0	0.2859	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 672.7 0.04885 0.1889 0.9567 0.0074040.0008751 0.5047
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7530 0.1903 0.1758 0.05255 0.09738 0.2640
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2773 0.2614 0.5451 0.1272 0.01310 0.1704
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9981 0.9775 0.2469 0.002817 0.3782 4.767e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.08766	0.2196	0.01187	0.1464	0.02382	0.2190	0.002091	0.003370	0	0.2862	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 674.0 0.04839 0.1900 0.9565 0.0074160.0008747 0.5056
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7524 0.1902 0.1756 0.05265 0.09793 0.2634
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2780 0.2619 0.5452 0.1290 0.01345 0.1707
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9980 0.9771 0.2425 0.002911 0.3771 4.691e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.08732	0.2195	0.01275	0.1469	0.02490	0.2168	0.001908	0.003383	0	0.2865	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 675.2 0.04793 0.1910 0.9562 0.0074280.0008743 0.5066
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7518 0.1901 0.1753 0.05276 0.09849 0.2629
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2787 0.2624 0.5453 0.1309 0.01380 0.1710
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9980 0.9768 0.2381 0.003007 0.3761 4.617e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q	
	0.08700	0.2194	0.01358	0.1474	0.02597	0.2147	0.001733	0.003395	0	0.2869	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 676.5 0.04748 0.1920 0.9559 0.0074400.0008738 0.5075
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7513 0.1899 0.1751 0.05287 0.09904 0.2624
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2794 0.2629 0.5454 0.1327 0.01417 0.1712
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.9764 0.2339 0.003104 0.3750 4.545e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08670	0.2193	0.01435	0.1479	0.02701	0.2126	0.001564	0.003405	0	0.2872		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.50 677.7 0.04703 0.1930 0.9556 0.0074510.0008733 0.5084

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7507 0.1898 0.1748 0.05298 0.09959 0.2618

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2801 0.2634 0.5455 0.1347 0.01455 0.1715

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9979 0.9760 0.2297 0.003204 0.3739 4.475e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08640	0.2192	0.01506	0.1485	0.02804	0.2106	0.001403	0.003414	0	0.2875		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.60 679.0 0.04659 0.1940 0.9553 0.0074630.0008728 0.5093

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7501 0.1896 0.1746 0.05308 0.1001 0.2613

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2808 0.2638 0.5456 0.1366 0.01493 0.1717

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9978 0.9756 0.2256 0.003305 0.3728 4.406e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08612	0.2191	0.01572	0.1490	0.02905	0.2086	0.001249	0.003422	0	0.2878		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.70 680.2 0.04616 0.1950 0.9550 0.0074740.0008723 0.5102

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7496 0.1895 0.1743 0.05319 0.1007 0.2607

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2815 0.2643 0.5457 0.1385 0.01533 0.1720

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9978 0.9753 0.2216 0.003409 0.3718 4.340e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08584	0.2190	0.01634	0.1495	0.03004	0.2067	0.001102	0.003430	0	0.2880		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.80 681.4 0.04574 0.1960 0.9548 0.0074850.0008717 0.5111

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7490 0.1893 0.1741 0.05330 0.1012 0.2602

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2822 0.2648 0.5458 0.1405 0.01574 0.1722

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9977 0.9749 0.2177 0.003514 0.3707 4.275e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08558	0.2189	0.01690	0.1501	0.03102	0.20480	0.0009607	0.003436	0	0.2883		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.90 682.7 0.04532 0.1970 0.9545 0.0074960.0008711 0.5119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7485 0.1891 0.1738 0.05340 0.1018 0.2597
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2829 0.2653 0.5459 0.1425 0.01616 0.1724
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9976 0.9745 0.2138 0.003621 0.3696 4.211e-5

mode liq bi ep g mu pl ilm ru ky q
0.08533 0.2188 0.01742 0.1506 0.03198 0.20300.0008258 0.003441 0 0.2886

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 683.9 0.04490 0.1979 0.9542 0.0075070.0008704 0.5128
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7480 0.1890 0.1735 0.05351 0.1023 0.2591
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2836 0.2658 0.5460 0.1445 0.01659 0.1726
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9976 0.9741 0.2100 0.003730 0.3685 4.149e-5

mode liq bi ep g mu pl ilm ru ky q
0.08509 0.2186 0.01789 0.1512 0.03293 0.20130.0006969 0.003446 0 0.2889

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.10 685.1 0.04450 0.1988 0.9539 0.0075180.0008698 0.5136
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7475 0.1888 0.1733 0.05361 0.1029 0.2586
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2843 0.2662 0.5461 0.1466 0.01703 0.1729
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9975 0.9737 0.2062 0.003840 0.3674 4.088e-5

mode liq bi ep g mu pl ilm ru ky q
0.08485 0.2185 0.01831 0.1517 0.03387 0.19960.0005737 0.003449 0 0.2891

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 686.3 0.04410 0.1997 0.9536 0.0075290.0008690 0.5144
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7470 0.1886 0.1730 0.05371 0.1034 0.2581
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2849 0.2667 0.5462 0.1487 0.01748 0.1731
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9975 0.9733 0.2026 0.003953 0.3663 4.029e-5

mode liq bi ep g mu pl ilm ru ky q
0.08463 0.2184 0.01869 0.1523 0.03480 0.19790.0004561 0.003452 0 0.2894

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.30 687.5 0.04370 0.2006 0.9533 0.0075400.0008683 0.5152
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7464 0.1884 0.1727 0.05382 0.1039 0.2576
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2856 0.2672 0.5462 0.1508 0.01795 0.1733
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9974 0.9728 0.1990 0.004067 0.3652 3.972e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08441	0.2183	0.01903	0.1529	0.03572	0.19630	0.0003439	0.003454	0	0.2896		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.40 688.7 0.04331 0.2015 0.9530 0.0075510.0008675 0.5160
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7460 0.1883 0.1724 0.05392 0.1045 0.2570
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2863 0.2676 0.5463 0.1529 0.01843 0.1735
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9973 0.9724 0.1955 0.004184 0.3641 3.915e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08420	0.2182	0.01933	0.1534	0.03662	0.19470	0.0002369	0.003455	0	0.2899		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.50 689.8 0.04293 0.2024 0.9527 0.0075620.0008667 0.5168
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7455 0.1881 0.1721 0.05402 0.1050 0.2565
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2870 0.2681 0.5464 0.1550 0.01892 0.1736
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9973 0.9720 0.1920 0.004302 0.3630 3.860e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08400	0.2181	0.01958	0.1540	0.03752	0.19310	0.0001349	0.003456	0	0.2901		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 13.60 691.0 0.04255 0.2033 0.9524 0.0075720.0008659 0.5176
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7450 0.1879 0.1719 0.05413 0.1056 0.2560
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2877 0.2686 0.5464 0.1572 0.01942 0.1738
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9972 0.9715 0.1886 0.004422 0.3619 3.806e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	ky	q		
	0.08381	0.2180	0.01980	0.1546	0.03841	0.1916	3.787e-5	0.003455	0	0.2903		

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
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6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

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phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 692.2 0.04218 0.2041 0.9521 0.0075830.0008650 0.5183
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7445 0.1877 0.1716 0.05423 0.1061 0.2554
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2884 0.2690 0.5465 0.1594 0.01994 0.1740
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.9711 0.1853 0.004544 0.3608 3.754e-5

mode liq bi ep g mu pl ilm ru ky q
0.08499 0.2179 0.01963 0.1551 0.03594 0.1920 0 0.003446 0.001047 0.2899

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 693.3 0.04181 0.2050 0.9518 0.0075940.0008640 0.5191
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7440 0.1875 0.1713 0.05433 0.1066 0.2549
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2890 0.2695 0.5466 0.1617 0.02047 0.1742
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9971 0.9706 0.1820 0.004669 0.3597 3.703e-5

mode liq bi ep g mu pl ilm ru ky q
0.08709 0.2178 0.01921 0.1556 0.03121 0.1938 0 0.003432 0.002800 0.2890

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90 694.5 0.04145 0.2058 0.9515 0.0076050.0008630 0.5199
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7436 0.1873 0.1710 0.05443 0.1072 0.2544
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2897 0.2699 0.5467 0.1639 0.02102 0.1744
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9970 0.9702 0.1788 0.004796 0.3586 3.654e-5

mode liq bi ep g mu pl ilm ru ky q
0.08919 0.2178 0.01878 0.1561 0.02652 0.1955 0 0.003417 0.004547 0.2881

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 695.6 0.04110 0.2066 0.9512 0.0076160.0008620 0.5206
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7431 0.1871 0.1707 0.05453 0.1077 0.2539
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2904 0.2704 0.5468 0.1662 0.02159 0.1746
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9969 0.9697 0.1756 0.004925 0.3575 3.605e-5

mode liq bi ep g mu pl ilm ru ky q

0.09128 0.2178 0.01834 0.1566 0.02186 0.1972 0 0.003402 0.006286 0.2872

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 696.8 0.04075 0.2074 0.9509 0.0076270.0008610 0.5214
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7427 0.1870 0.1704 0.05463 0.1082 0.2534
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2910 0.2708 0.5469 0.1685 0.02216 0.1747
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9968 0.9692 0.1725 0.005056 0.3564 3.558e-5

mode liq bi ep g mu pl ilm ru ky q
0.09336 0.2177 0.01789 0.1571 0.01723 0.1989 0 0.003388 0.008017 0.2864

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 697.9 0.04040 0.2082 0.9506 0.0076380.0008599 0.5221
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7422 0.1868 0.1701 0.05473 0.1088 0.2529
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2917 0.2713 0.5471 0.1709 0.02276 0.1749
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9968 0.9687 0.1695 0.005189 0.3553 3.511e-5

mode liq bi ep g mu pl ilm ru ky q
0.09543 0.2177 0.01743 0.1577 0.01265 0.2005 0 0.003373 0.009738 0.2855

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.30 699.1 0.04006 0.2090 0.9503 0.0076490.0008587 0.5229
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7418 0.1866 0.1698 0.05483 0.1093 0.2524
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2924 0.2717 0.5472 0.1733 0.02337 0.1751
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9967 0.9682 0.1665 0.005324 0.3542 3.466e-5

mode liq bi ep g mu pl ilm ru ky q
0.09748 0.2177 0.01696 0.1582 0.008107 0.2021 0 0.003359 0.01145 0.2846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 700.2 0.03972 0.2098 0.9499 0.0076610.0008576 0.5236
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7413 0.1864 0.1696 0.05493 0.1098 0.2519
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2930 0.2722 0.5473 0.1757 0.02399 0.1753
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9966 0.9677 0.1636 0.005462 0.3531 3.422e-5

mode liq bi ep g mu pl ilm ru ky q
0.09953 0.2176 0.01649 0.1587 0.003610 0.2037 0 0.003344 0.01315 0.2838

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	609.1	0.05104	0.1609	0.9849	0.003562	0.001261	0.4647
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7829	0.1986	0.08483	0.03574	0.07128	0.3329	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2843	0.2714	0.5713	0.1151	0.009751	0.1560	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9984	0.9946	0.19880	0.007644	0.42900	0.001612	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06267	0.2267	0.03334	0.1314	0.05751	0.1925	0	0.004380	0.2916

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.10	611.5	0.05072	0.1621	0.9843	0.003647	0.001244	0.4666
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7819	0.1983	0.08706	0.03634	0.07221	0.3307	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2843	0.2713	0.5706	0.1161	0.009944	0.1567	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9984	0.9943	0.19890	0.008095	0.42680	0.001480	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06319	0.2265	0.03300	0.1319	0.05694	0.1926	0	0.004354	0.2915

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	613.9	0.05041	0.1633	0.9837	0.003733	0.001227	0.4685
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7810	0.1981	0.08931	0.03693	0.07314	0.3285	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2843	0.2711	0.5700	0.1171	0.01014	0.1574	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9984	0.9940	0.19890	0.008568	0.42470	0.001367	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06371	0.2263	0.03266	0.1324	0.05636	0.1927	0	0.004328	0.2915

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.30	616.3	0.05011	0.1645	0.9830	0.003821	0.001211	0.4703
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7800	0.1979	0.09158	0.03752	0.07407	0.3264	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2844	0.2710	0.5693	0.1180	0.01034	0.1580	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	

0.9984 0.9937 0.19890.0009063 0.42250.0001271

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06424	0.2261	0.03232	0.1329	0.05577	0.1928		0 0.004301	0.2915

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.40 618.7 0.04981 0.1657 0.9823 0.003910 0.001195 0.4722

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7790 0.1976 0.09388 0.03810 0.07501 0.3242

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2844 0.2709 0.5687 0.1190 0.01054 0.1587

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9983 0.9934 0.19890.0009582 0.42040.0001187

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06477	0.2260	0.03197	0.1335	0.05519	0.1929		0 0.004275	0.2915

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.50 621.1 0.04951 0.1669 0.9817 0.004001 0.001180 0.4739

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7779 0.1974 0.09620 0.03869 0.07595 0.3220

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2844 0.2707 0.5680 0.1200 0.01075 0.1593

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9983 0.9930 0.1988 0.001013 0.41830.0001113

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06531	0.2258	0.03162	0.1340	0.05461	0.1930		0 0.004249	0.2914

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.60 623.5 0.04922 0.1682 0.9810 0.004093 0.001166 0.4757

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7769 0.1971 0.09854 0.03926 0.07689 0.3198

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2844 0.2706 0.5673 0.1210 0.01096 0.1599

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9983 0.9927 0.1988 0.001069 0.41620.0001049

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06586	0.2256	0.03127	0.1346	0.05402	0.1931		0 0.004223	0.2914

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.70 625.9 0.04894 0.1694 0.9802 0.004187 0.001151 0.4775

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7759 0.1969 0.1009 0.03984 0.07783 0.3176

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2845 0.2705 0.5667 0.1220 0.01118 0.1605

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9983 0.9923 0.1987 0.001129 0.4141 9.907e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06641	0.2254	0.03092	0.1351	0.05343	0.1931		0	0.004196 0.2914

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.80 628.3 0.04866 0.1706 0.9795 0.004282 0.001137 0.4792

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7749 0.1966 0.1033 0.04041 0.07878 0.3154

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2845 0.2704 0.5660 0.1231 0.01139 0.1611

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9982 0.9919 0.1987 0.001191 0.4121 9.390e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06696	0.2252	0.03057	0.1357	0.05285	0.1932		0	0.004170 0.2913

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.90 630.7 0.04839 0.1718 0.9788 0.004379 0.001124 0.4809

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7739 0.1964 0.1057 0.04098 0.07973 0.3132

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2846 0.2703 0.5653 0.1241 0.01162 0.1617

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9982 0.9915 0.1986 0.001256 0.4100 8.923e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06752	0.2250	0.03022	0.1362	0.05226	0.1933		0	0.004144 0.2913

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.00 633.0 0.04812 0.1730 0.9780 0.004477 0.001111 0.4825

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7728 0.1961 0.1081 0.04154 0.08068 0.3110

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2846 0.2701 0.5646 0.1252 0.01184 0.1623

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9982 0.9911 0.1984 0.001324 0.4080 8.501e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06808	0.2248	0.02986	0.1368	0.05168	0.1933		0	0.004118 0.2913

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

11.10 635.4 0.04786 0.1742 0.9772 0.004577 0.001098 0.4842

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7718 0.1958 0.1105 0.04210 0.08163 0.3088

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2847 0.2700 0.5640 0.1262 0.01207 0.1629

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9982 0.9907 0.1983 0.001394 0.4060 8.117e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.06865	0.2246	0.02951	0.1374	0.05110	0.1934		0	0.004091 0.2913

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.20    637.7  0.04760  0.1754  0.9764  0.004678  0.001085  0.4858
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7707  0.1956  0.1129  0.04265  0.08258  0.3066
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2847  0.2699  0.5633  0.1273  0.01230  0.1634
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9981  0.9902  0.1982  0.001468  0.4041  7.766e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.06922  0.2244  0.02915  0.1380  0.05052  0.1934  0 0.004065  0.2912
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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.30    640.0  0.04735  0.1766  0.9756  0.004781  0.001073  0.4874
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7697  0.1953  0.1154  0.04320  0.08353  0.3044
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2848  0.2698  0.5626  0.1284  0.01254  0.1640
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9981  0.9897  0.1980  0.001545  0.4021  7.445e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.06980  0.2242  0.02879  0.1386  0.04995  0.1935  0 0.004039  0.2912
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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.40    642.4  0.04710  0.1778  0.9748  0.004885  0.001061  0.4889
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7686  0.1950  0.1178  0.04374  0.08449  0.3022
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2849  0.2697  0.5619  0.1295  0.01279  0.1645
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9981  0.9892  0.1978  0.001625  0.4002  7.148e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.07038  0.2240  0.02843  0.1392  0.04937  0.1935  0 0.004013  0.2912
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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
11.50    644.7  0.04685  0.1790  0.9739  0.004991  0.001050  0.4905
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7676  0.1947  0.1203  0.04428  0.08544  0.3001
        f(ep)  Q(ep)  x(g)  z(g)  f(g)  fe(mu)
        0.2849  0.2696  0.5612  0.1306  0.01303  0.1651
        y(mu)  na(mu)  ca(pl)  k(pl)  x(ilm)  Q(ilm)
        0.9981  0.9887  0.1976  0.001708  0.3983  6.875e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.07096  0.2237  0.02807  0.1398  0.04881  0.1935  0 0.003987  0.2911
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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

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11.60 647.0 0.04661 0.1802 0.9730 0.005099 0.001039 0.4920
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7665 0.1944 0.1228 0.04481 0.08640 0.2979
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2850 0.2696 0.5605 0.1317 0.01328 0.1656
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9980 0.9882 0.1973 0.001795 0.3964 6.621e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07154	0.2235	0.02770	0.1404	0.04824	0.1935		0	0.003961 0.2911

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.70 649.2 0.04637 0.1814 0.9722 0.005207 0.001028 0.4935
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7655 0.1941 0.1252 0.04534 0.08735 0.2957
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2851 0.2695 0.5599 0.1329 0.01354 0.1661
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9980 0.9876 0.1971 0.001886 0.3945 6.386e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07213	0.2233	0.02734	0.1411	0.04769	0.1935		0	0.003935 0.2911

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.80 651.5 0.04614 0.1826 0.9713 0.005318 0.001017 0.4950
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7644 0.1938 0.1277 0.04585 0.08831 0.2935
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2852 0.2694 0.5592 0.1340 0.01380 0.1666
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9980 0.9870 0.1968 0.001979 0.3927 6.167e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07272	0.2231	0.02697	0.1417	0.04714	0.1935		0	0.003909 0.2910

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 11.90 653.8 0.04591 0.1837 0.9704 0.005429 0.001007 0.4964
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7634 0.1935 0.1302 0.04637 0.08927 0.2914
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2853 0.2693 0.5585 0.1352 0.01406 0.1671
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9979 0.9864 0.1965 0.002077 0.3908 5.962e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07331	0.2228	0.02660	0.1424	0.04659	0.1934		0	0.003883 0.2910

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 12.00 656.1 0.04568 0.1849 0.9694 0.005542 0.0009972 0.4978
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7623 0.1932 0.1327 0.04687 0.09022 0.2892
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2854 0.2692 0.5578 0.1364 0.01434 0.1675
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.9858 0.1961 0.002178 0.3890 5.771e-5

mode liq bi ep g mu pl ilm ru q
0.07391 0.2226 0.02624 0.1430 0.04605 0.1934 0 0.003858 0.2910

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 658.3 0.04546 0.1861 0.9685 0.0056570.0009875 0.4992
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7612 0.1929 0.1352 0.04737 0.09118 0.2871
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2855 0.2692 0.5571 0.1376 0.01461 0.1680
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9979 0.9852 0.1958 0.002284 0.3872 5.591e-5

mode liq bi ep g mu pl ilm ru q
0.07451 0.2223 0.02586 0.1437 0.04552 0.1934 0 0.003832 0.2909

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 660.5 0.04524 0.1873 0.9675 0.0057730.0009780 0.5006
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7602 0.1926 0.1376 0.04786 0.09213 0.2850
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2856 0.2691 0.5564 0.1388 0.01489 0.1685
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9978 0.9845 0.1954 0.002393 0.3854 5.423e-5

mode liq bi ep g mu pl ilm ru q
0.07510 0.2221 0.02549 0.1443 0.04500 0.1933 0 0.003807 0.2909

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 662.8 0.04502 0.1884 0.9666 0.0058900.0009688 0.5019
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7591 0.1923 0.1401 0.04835 0.09309 0.2828
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2857 0.2691 0.5557 0.1400 0.01518 0.1689
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9978 0.9838 0.1950 0.002506 0.3836 5.264e-5

mode liq bi ep g mu pl ilm ru q
0.07570 0.2218 0.02512 0.1450 0.04449 0.1932 0 0.003781 0.2909

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 665.0 0.04481 0.1896 0.9656 0.0060080.0009598 0.5033
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7580 0.1920 0.1426 0.04883 0.09404 0.2807
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2859 0.2690 0.5550 0.1412 0.01547 0.1693
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9978 0.9831 0.1946 0.002624 0.3819 5.115e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07631	0.2215	0.02474		0.1457	0.04398	0.1931		0 0.003756 0.2908

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.50 667.2 0.04460 0.1908 0.9646 0.0061280.0009510 0.5046
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7569 0.1917 0.1450 0.04930 0.09500 0.2786
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2860 0.2690 0.5543 0.1425 0.01577 0.1698
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9977 0.9823 0.1942 0.002746 0.3802 4.973e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07691	0.2213	0.02436		0.1464	0.04349	0.1931		0 0.003731 0.2908

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.60 669.4 0.04439 0.1919 0.9636 0.0062490.0009424 0.5059
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7559 0.1913 0.1474 0.04976 0.09595 0.2765
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2861 0.2689 0.5536 0.1438 0.01607 0.1702
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9977 0.9815 0.1937 0.002872 0.3784 4.840e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07751	0.2210	0.02398		0.1471	0.04301	0.1929		0 0.003706 0.2908

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.70 671.6 0.04419 0.1931 0.9625 0.0063720.0009341 0.5071
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7548 0.1910 0.1499 0.05022 0.09690 0.2745
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2863 0.2689 0.5529 0.1451 0.01638 0.1706
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9976 0.9807 0.1932 0.003003 0.3767 4.713e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07811	0.2207	0.02360		0.1478	0.04254	0.1928		0 0.003681 0.2907

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.80 673.7 0.04399 0.1942 0.9615 0.0064950.0009260 0.5083
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7537 0.1907 0.1523 0.05067 0.09785 0.2724
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2864 0.2688 0.5523 0.1464 0.01670 0.1710
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9976 0.9799 0.1927 0.003138 0.3750 4.593e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07871	0.2204	0.02322	0.1485	0.04208	0.1927		0	0.003656 0.2907

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.90 675.9 0.04379 0.1953 0.9605 0.0066200.0009181 0.5096
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7527 0.1903 0.1547 0.05112 0.09880 0.2704
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2866 0.2688 0.5516 0.1477 0.01702 0.1714
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9976 0.9790 0.1921 0.003278 0.3734 4.479e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07932	0.2202	0.02283	0.1492	0.04163	0.1925		0	0.003632 0.2907

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.00 678.0 0.04360 0.1965 0.9594 0.0067460.0009104 0.5108
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7516 0.1900 0.1571 0.05155 0.09975 0.2683
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2867 0.2688 0.5509 0.1490 0.01735 0.1717
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9975 0.9781 0.1915 0.003423 0.3717 4.370e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.07992	0.2199	0.02244	0.1500	0.04119	0.1924		0	0.003607 0.2906

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.10 680.2 0.04340 0.1976 0.9583 0.0068730.0009029 0.5119
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7505 0.1897 0.1594 0.05198 0.1007 0.2663
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2869 0.2688 0.5502 0.1504 0.01769 0.1721
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9975 0.9771 0.1909 0.003573 0.3701 4.267e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08052	0.2196	0.02205	0.1507	0.04077	0.1922		0	0.003583 0.2906

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 682.3 0.04321 0.1987 0.9572 0.0070010.0008956 0.5131
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7495 0.1893 0.1617 0.05240 0.1016 0.2643
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2871 0.2688 0.5495 0.1518 0.01803 0.1725
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9974 0.9762 0.1903 0.003728 0.3684 4.169e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08112	0.2193	0.02165	0.1515	0.04037	0.1920		0	0.003559 0.2906

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.30 684.4 0.04302 0.1998 0.9561 0.0071300.0008885 0.5142

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7484 0.1890 0.1641 0.05281 0.1026 0.2623

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2873 0.2687 0.5488 0.1532 0.01838 0.1728

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9974 0.9751 0.1897 0.003887 0.3668 4.075e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08172	0.2190	0.02125	0.1522	0.03998	0.1918		0	0.003535 0.2905

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.40 686.5 0.04284 0.2010 0.9550 0.0072600.0008815 0.5153

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7473 0.1886 0.1664 0.05322 0.1035 0.2604

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2875 0.2687 0.5481 0.1546 0.01874 0.1731

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9973 0.9741 0.1890 0.004053 0.3652 3.985e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08231	0.2187	0.02085	0.1530	0.03960	0.1916		0	0.003511 0.2905

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.50 688.6 0.04266 0.2021 0.9539 0.0073910.0008747 0.5164

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7463 0.1883 0.1686 0.05362 0.1045 0.2584

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2877 0.2687 0.5474 0.1560 0.01910 0.1735

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9973 0.9730 0.1883 0.004223 0.3636 3.899e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08290	0.2184	0.02045	0.1537	0.03924	0.1913		0	0.003488 0.2905

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

13.60 690.7 0.04247 0.2032 0.9528 0.0075230.0008681 0.5174

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7452 0.1879 0.1708 0.05401 0.1054 0.2565

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2879 0.2688 0.5467 0.1575 0.01948 0.1738

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9972 0.9718 0.1875 0.004399 0.3621 3.817e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.08349	0.2180	0.02004	0.1545	0.03890	0.1911		0	0.003464 0.2904

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
13.70    692.7 0.04230 0.2043 0.9516 0.0076560.0008617 0.5185
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7442 0.1876 0.1730 0.05440 0.1063 0.2546
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2881 0.2688 0.5461 0.1590 0.01986 0.1741
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9971 0.9707 0.1868 0.004580 0.3605 3.739e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08408 0.2177 0.01963 0.1553 0.03857 0.1908 0 0.003441 0.2904

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
13.80    694.8 0.04212 0.2054 0.9505 0.0077890.0008554 0.5195
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7431 0.1872 0.1752 0.05477 0.1073 0.2527
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2883 0.2688 0.5454 0.1605 0.02025 0.1744
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9971 0.9694 0.1860 0.004766 0.3590 3.663e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08467 0.2174 0.01921 0.1561 0.03826 0.1905 0 0.003418 0.2904

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
13.90    696.8 0.04194 0.2064 0.9494 0.0079230.0008493 0.5205
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7421 0.1869 0.1774 0.05515 0.1082 0.2509
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2885 0.2688 0.5447 0.1620 0.02065 0.1746
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9970 0.9681 0.1852 0.004959 0.3574 3.591e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08525 0.2171 0.01879 0.1569 0.03797 0.1902 0 0.003396 0.2904

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
14.00    698.8 0.04177 0.2075 0.9482 0.0080570.0008433 0.5215
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7410 0.1865 0.1795 0.05551 0.1091 0.2491
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2888 0.2688 0.5440 0.1636 0.02106 0.1749
        y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
        0.9970 0.9668 0.1843 0.005157 0.3559 3.521e-5

mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.08582 0.2167 0.01836 0.1578 0.03770 0.1899 0 0.003373 0.2903

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)

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14.10 700.8 0.04160 0.2086 0.9470 0.0081920.0008375 0.5224
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7400 0.1861 0.1815 0.05586 0.1100 0.2472
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2890 0.2689 0.5433 0.1651 0.02147 0.1752
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9969 0.9654 0.1834 0.005361 0.3544 3.455e-5

mode liq bi ep g mu pl ilm ru q
 0.08640 0.2164 0.01793 0.1586 0.03745 0.1896 0 0.003351 0.2903

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.20 702.8 0.04142 0.2096 0.9459 0.0083280.0008319 0.5234
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7390 0.1858 0.1835 0.05621 0.1109 0.2455
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2892 0.2689 0.5427 0.1667 0.02190 0.1754
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9968 0.9640 0.1825 0.005570 0.3529 3.390e-5

mode liq bi ep g mu pl ilm ru q
 0.08696 0.2160 0.01749 0.1594 0.03723 0.1892 0 0.003330 0.2903

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.30 704.7 0.04125 0.2107 0.9447 0.0084630.0008264 0.5243
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7379 0.1854 0.1855 0.05656 0.1118 0.2437
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2895 0.2690 0.5420 0.1683 0.02234 0.1756
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9967 0.9624 0.1816 0.005786 0.3514 3.329e-5

mode liq bi ep g mu pl ilm ru q
 0.08753 0.2157 0.01705 0.1603 0.03702 0.1889 0 0.003308 0.2903

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.40 706.7 0.04109 0.2118 0.9435 0.0085990.0008210 0.5252
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7369 0.1850 0.1874 0.05689 0.1128 0.2420
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2898 0.2690 0.5413 0.1700 0.02279 0.1759
 y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
 0.9967 0.9609 0.1806 0.006008 0.3500 3.269e-5

mode liq bi ep g mu pl ilm ru q
 0.08808 0.2153 0.01660 0.1611 0.03683 0.1885 0 0.003287 0.2903

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.50 708.6 0.04092 0.2128 0.9423 0.0087350.0008158 0.5261
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7359 0.1846 0.1893 0.05722 0.1137 0.2402
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2901 0.2691 0.5407 0.1717 0.02325 0.1761
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9966 0.9592 0.1796 0.006235 0.3485 3.212e-5

mode liq bi ep g mu pl ilm ru q
0.08863 0.2150 0.01615 0.1620 0.03667 0.1881 0 0.003266 0.2902

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 710.6 0.04075 0.2138 0.9411 0.0088700.0008108 0.5269
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7349 0.1843 0.1912 0.05754 0.1146 0.2386
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2903 0.2692 0.5400 0.1734 0.02372 0.1763
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9965 0.9575 0.1786 0.006469 0.3471 3.157e-5

mode liq bi ep g mu pl ilm ru q
0.08918 0.2146 0.01569 0.1629 0.03653 0.1877 0 0.003245 0.2902

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.70 712.5 0.04059 0.2148 0.9400 0.0090060.0008058 0.5278
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7339 0.1839 0.1930 0.05786 0.1154 0.2369
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2906 0.2693 0.5393 0.1751 0.02420 0.1765
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9964 0.9557 0.1775 0.006709 0.3457 3.103e-5

mode liq bi ep g mu pl ilm ru q
0.08971 0.2142 0.01522 0.1638 0.03642 0.1872 0 0.003225 0.2902

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80 714.3 0.04042 0.2159 0.9388 0.0091410.0008010 0.5286
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7329 0.1835 0.1947 0.05816 0.1163 0.2353
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2909 0.2694 0.5387 0.1769 0.02469 0.1767
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9963 0.9539 0.1764 0.006955 0.3442 3.052e-5

mode liq bi ep g mu pl ilm ru q
0.09024 0.2138 0.01474 0.1647 0.03633 0.1868 0 0.003204 0.2902

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.90 716.2 0.04026 0.2169 0.9376 0.0092750.0007964 0.5294
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7319 0.1831 0.1964 0.05847 0.1172 0.2337
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2913 0.2695 0.5380 0.1786 0.02520 0.1768
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9962 0.9519 0.1752 0.007206 0.3428 3.002e-5

mode liq bi ep g mu pl ilm ru q
0.09076 0.2134 0.01426 0.1656 0.03626 0.1863 0 0.003185 0.2902

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 718.1 0.04009 0.2179 0.9364 0.009409 0.0007919 0.5301
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7310 0.1827 0.1980 0.05876 0.1181 0.2321
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2916 0.2696 0.5374 0.1805 0.02572 0.1770
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9961 0.9499 0.1741 0.007464 0.3414 2.954e-5

mode liq bi ep g mu pl ilm ru q
0.09128 0.2131 0.01377 0.1665 0.03623 0.1858 0 0.003165 0.2901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.10 719.9 0.03993 0.2188 0.9352 0.009542 0.0007875 0.5309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7300 0.1823 0.1996 0.05905 0.1190 0.2306
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2919 0.2697 0.5367 0.1823 0.02625 0.1771
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9960 0.9477 0.1729 0.007728 0.3401 2.908e-5

mode liq bi ep g mu pl ilm ru q
0.09178 0.2127 0.01327 0.1675 0.03622 0.1853 0 0.003146 0.2901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 721.7 0.03976 0.2198 0.9341 0.009674 0.0007832 0.5316
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7291 0.1819 0.2011 0.05933 0.1198 0.2291
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2923 0.2698 0.5361 0.1842 0.02680 0.1773
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9959 0.9455 0.1716 0.007998 0.3387 2.863e-5

mode liq bi ep g mu pl ilm ru q
0.09228 0.2122 0.01275 0.1684 0.03624 0.1848 0 0.003128 0.2901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.30 723.5 0.03960 0.2208 0.9329 0.009805 0.0007791 0.5323
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7281 0.1815 0.2025 0.05961 0.1207 0.2276
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2926 0.2699 0.5354 0.1861 0.02736 0.1774
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9958 0.9431 0.1703 0.008274 0.3373 2.820e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09276	0.2118	0.01223	0.1694	0.03629	0.1842		0	0.003110 0.2901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.40 725.3 0.03943 0.2217 0.9317 0.0099330.0007751 0.5330

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7272 0.1811 0.2039 0.05987 0.1215 0.2261

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2930 0.2701 0.5348 0.1880 0.02794 0.1775

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9956 0.9406 0.1690 0.008555 0.3360 2.778e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09323	0.2114	0.01170	0.1704	0.03637	0.1837		0	0.003092 0.2901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.50 727.0 0.03926 0.2227 0.9306 0.010060.0007713 0.5336

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7263 0.1807 0.2052 0.06014 0.1224 0.2247

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2934 0.2702 0.5341 0.1900 0.02854 0.1776

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9955 0.9380 0.1676 0.008842 0.3347 2.737e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09369	0.2110	0.01116	0.1714	0.03648	0.1831		0	0.003075 0.2901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.60 728.7 0.03910 0.2236 0.9295 0.010190.0007676 0.5343

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7254 0.1803 0.2064 0.06039 0.1232 0.2234

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2938 0.2704 0.5335 0.1920 0.02915 0.1777

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9954 0.9352 0.1662 0.009134 0.3333 2.698e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09414	0.2106	0.01061	0.1724	0.03663	0.1825		0	0.003058 0.2901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.70 730.4 0.03893 0.2245 0.9283 0.010310.0007640 0.5349

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7246 0.1798 0.2075 0.06064 0.1240 0.2220

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2942 0.2706 0.5328 0.1941 0.02978 0.1778

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)

0.9952 0.9323 0.1648 0.009431 0.3320 2.660e-5

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09458	0.2101	0.01004	0.1734	0.03681	0.1819		0	0.003042 0.2901

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.80	732.1	0.03876	0.2254	0.9273	0.010430	0.0007606	0.5355
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7237	0.1794	0.2086	0.06088	0.1248	0.2207	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2946	0.2708	0.5322	0.1962	0.03042	0.1778	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9950	0.9292	0.1633	0.009733	0.3307	2.623e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09500	0.2097	0.009458	0.1745	0.03703	0.1812		0	0.003026 0.2901

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.90	733.7	0.03858	0.2263	0.9262	0.010540	0.0007573	0.5360
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7229	0.1790	0.2096	0.06111	0.1256	0.2195	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2951	0.2710	0.5316	0.1983	0.03109	0.1778	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9948	0.9259	0.1618	0.01004	0.3294	2.587e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09541	0.2092	0.008863	0.1756	0.03729	0.1806		0	0.003011 0.2901

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.00	735.3	0.03841	0.2272	0.9251	0.010660	0.0007541	0.5365
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7221	0.1786	0.2105	0.06134	0.1264	0.2182	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2955	0.2712	0.5309	0.2005	0.03178	0.1779	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9946	0.9224	0.1602	0.01035	0.3282	2.552e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09580	0.2087	0.008254	0.1766	0.03758	0.1799		0	0.002996 0.2901

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.10	736.9	0.03823	0.2281	0.9241	0.010770	0.0007511	0.5370
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7213	0.1781	0.2112	0.06156	0.1272	0.2171	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2960	0.2714	0.5303	0.2027	0.03249	0.1779	
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)	
	0.9944	0.9186	0.1585	0.01066	0.3269	2.518e-5	

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09617	0.2082	0.007628	0.1778	0.03792	0.1792		0	0.002983 0.2901

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
16.20	738.5	0.03805	0.2289	0.9232	0.010870	0.0007483	0.5375		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7205	0.1777	0.2119	0.06177	0.1280	0.2159			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2965	0.2717	0.5297	0.2050	0.03322	0.1778			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9942	0.9146	0.1568	0.01098	0.3256	2.486e-5			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09653	0.2077	0.006985	0.1789	0.03830	0.1785		0.002970	0.2901

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
16.30	740.0	0.03786	0.2298	0.9222	0.010970	0.0007456	0.5379		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7198	0.1772	0.2125	0.06198	0.1287	0.2148			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2970	0.2719	0.5290	0.2073	0.03398	0.1778			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9939	0.9102	0.1551	0.01129	0.3244	2.454e-5			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09687	0.2072	0.006324	0.1801	0.03873	0.1777		0.002958	0.2901

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
16.40	741.4	0.03767	0.2306	0.9213	0.011060	0.0007430	0.5383		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7190	0.1767	0.2129	0.06218	0.1294	0.2138			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2975	0.2722	0.5284	0.2097	0.03476	0.1777			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9937	0.9055	0.1533	0.01161	0.3231	2.423e-5			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09719	0.2067	0.005644	0.1813	0.03921	0.1769		0.002946	0.2901

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
16.50	742.9	0.03747	0.2314	0.9205	0.011140	0.0007407	0.5386		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.7184	0.1762	0.2132	0.06236	0.1301	0.2128			
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)			
	0.2981	0.2725	0.5277	0.2121	0.03557	0.1776			
	y(mu)	na(mu)	ca(pl)	k(pl)	x(ilm)	Q(ilm)			
	0.9933	0.9003	0.1514	0.01192	0.3219	2.393e-5			

mode	liq	bi	ep	g	mu	pl	ilm	ru	q
	0.09748	0.2061	0.004943	0.1825	0.03974	0.1762		0.002936	0.2901

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
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16.60  744.2 0.03727 0.2322 0.9198 0.011220.0007385 0.5389
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7177 0.1757 0.2133 0.06254 0.1308 0.2119
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2987 0.2728 0.5271 0.2146 0.03641 0.1775
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9930 0.8946 0.1494 0.01223 0.3206 2.364e-5

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mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.09775 0.2055 0.004220 0.1837 0.04033 0.1753 0 0.002927 0.2902

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.70  745.6 0.03705 0.2329 0.9191 0.011280.0007365 0.5392
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7171 0.1752 0.2133 0.06271 0.1315 0.2110
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.2993 0.2732 0.5264 0.2171 0.03729 0.1773
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9926 0.8882 0.1473 0.01254 0.3194 2.336e-5

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mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.09800 0.2049 0.003473 0.1851 0.04098 0.1745 0 0.002920 0.2902

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80  746.8 0.03683 0.2336 0.9186 0.011340.0007348 0.5393
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7166 0.1746 0.2131 0.06286 0.1321 0.2102
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.3000 0.2736 0.5257 0.2197 0.03820 0.1771
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9921 0.8809 0.1452 0.01283 0.3182 2.308e-5

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mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.09821 0.2043 0.002700 0.1864 0.04171 0.1736 0 0.002914 0.2902

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90  748.0 0.03659 0.2343 0.9182 0.011370.0007333 0.5394
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.7161 0.1741 0.2126 0.06300 0.1327 0.2095
      f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
      0.3007 0.2740 0.5250 0.2224 0.03914 0.1769
      y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
      0.9915 0.8725 0.1429 0.01311 0.3169 2.281e-5

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mode  liq  bi  ep  g  mu  pl  ilm  ru  q
      0.09840 0.2035 0.001899 0.1878 0.04251 0.1728 0 0.002911 0.2902

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```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00  749.0 0.03632 0.2350 0.9179 0.011390.0007321 0.5393
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

```

0.7157 0.1734 0.2118 0.06312 0.1333 0.2088
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3014 0.2744 0.5242 0.2251 0.04013 0.1765
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9908 0.8625 0.1404 0.01337 0.3157 2.255e-5

mode liq bi ep g mu pl ilm ru q
0.09854 0.2027 0.001067 0.1894 0.04341 0.1719 0 0.002910 0.2901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 749.9 0.03603 0.2356 0.9180 0.011370.0007313 0.5391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7155 0.1727 0.2106 0.06321 0.1337 0.2083
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3022 0.2750 0.5233 0.2279 0.04117 0.1760
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9899 0.8498 0.1377 0.01358 0.3144 2.230e-5

mode liq bi ep g mu pl ilm ru q
0.09864 0.20180.0002033 0.1910 0.04443 0.1709 0 0.002915 0.2901

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.64 691.5 0.04240 0.2036 0.9523 0.0075770.0008655 0.5179
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7448 0.1878 0.1717 0.05417 0.1058 0.2558
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2879 0.2688 0.5465 0.1581 0.01963 0.1739

y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9972 0.9714 0.1872 0.004471 0.3614 3.785e-5

mode liq bi ep g mu pl ilm ru ky q
0.08373 0.2179 0.01987 0.1549 0.03876 0.1910 0 0.003455 0 0.2904
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : liq, bi, ep, g, mu, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.48 701.1 0.03945 0.2104 0.9497 0.0076700.0008566 0.5242
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7410 0.1863 0.1693 0.05501 0.1102 0.2515
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2936 0.2725 0.5474 0.1777 0.02451 0.1754
y(mu) na(mu) ca(pl) k(pl) x(ilm) Q(ilm)
0.9965 0.9672 0.1613 0.005575 0.3523 3.387e-5

mode liq bi ep g mu pl ilm ru ky q
0.1012 0.2176 0.01609 0.1592 0 0.2049 0 0.003332 0.01451 0.2831
calcs use:

composition (from script)
H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : liq, bi, ep, g, pl, ilm, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 691.9 0.04039 0.2050 0.9533 0.0072480.0008455 0.5196
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7458 0.1877 0.1681 0.05408 0.1062 0.2568
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2897 0.2701 0.5483 0.1620 0.02052 0.1689
k(pl) x(ilm) Q(ilm)
0.004723 0.3564 3.609e-5

mode liq bi ep g pl ilm ru ky q
0.09871 0.2186 0.01924 0.1548 0.2087 0 0.003435 0.01350 0.2831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 693.8 0.04020 0.2062 0.9525 0.0073390.0008482 0.5206
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7448 0.1874 0.1684 0.05428 0.1070 0.2557
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2905 0.2706 0.5481 0.1652 0.02130 0.1674

k(pl) x(ilm) Q(ilm)
0.004893 0.3556 3.561e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.09922	0.2184	0.01862	0.1557	0.2079		0	0.003413	0.01370 0.2831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 695.8 0.04000 0.2073 0.9518 0.0074290.0008507 0.5216
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7438 0.1871 0.1687 0.05447 0.1079 0.2546
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2913 0.2711 0.5479 0.1684 0.02211 0.1658
k(pl) x(ilm) Q(ilm)
0.005067 0.3547 3.514e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.09974	0.2182	0.01797	0.1566	0.2071		0	0.003392	0.01390 0.2831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.30 697.7 0.03981 0.2084 0.9510 0.0075160.0008530 0.5226
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7427 0.1868 0.1689 0.05466 0.1087 0.2535
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2921 0.2716 0.5477 0.1717 0.02295 0.1642
k(pl) x(ilm) Q(ilm)
0.005244 0.3539 3.468e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1003	0.2180	0.01732	0.1575	0.2064		0	0.003370	0.01411 0.2831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 699.6 0.03961 0.2095 0.9503 0.0076020.0008551 0.5235
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7418 0.1865 0.1691 0.05485 0.1096 0.2524
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2929 0.2721 0.5475 0.1750 0.02380 0.1626
k(pl) x(ilm) Q(ilm)
0.005425 0.3530 3.423e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1008	0.2178	0.01665	0.1584	0.2056		0	0.003349	0.01433 0.2831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 701.4 0.03941 0.2106 0.9495 0.0076850.0008569 0.5244
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7408 0.1862 0.1694 0.05504 0.1104 0.2513
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2937 0.2726 0.5473 0.1783 0.02468 0.1610
k(pl) x(ilm) Q(ilm)
0.005610 0.3521 3.378e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1013	0.2176	0.01596	0.1594	0.2048			0.003328	0.01456 0.2831

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	703.3	0.03922	0.2116	0.9488	0.0077670	0.0008586	0.5253
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7399	0.1859	0.1695	0.05522	0.1112	0.2503	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2945	0.2731	0.5471	0.1816	0.02559	0.1593	
	k(pl)	x(ilm)	Q(ilm)				
	0.005798	0.3512	3.335e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1018	0.2174	0.01526	0.1603	0.2040			0.003308	0.01479 0.2832

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.70	705.1	0.03901	0.2127	0.9481	0.0078470	0.0008600	0.5261
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7389	0.1856	0.1697	0.05541	0.1120	0.2493	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2953	0.2736	0.5470	0.1850	0.02651	0.1576	
	k(pl)	x(ilm)	Q(ilm)				
	0.005990	0.3503	3.292e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1023	0.2172	0.01454	0.1613	0.2032			0.003288	0.01502 0.2832

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	706.8	0.03881	0.2137	0.9474	0.0079250	0.0008613	0.5270
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7380	0.1853	0.1699	0.05558	0.1128	0.2483	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2961	0.2740	0.5468	0.1884	0.02746	0.1559	
	k(pl)	x(ilm)	Q(ilm)				
	0.006185	0.3493	3.250e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1028	0.2170	0.01380	0.1623	0.2024			0.003268	0.01527 0.2832

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.90	708.5	0.03861	0.2147	0.9467	0.0080010	0.0008623	0.5278
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7372	0.1850	0.1700	0.05576	0.1136	0.2474	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2969	0.2745	0.5466	0.1917	0.02844	0.1541	
	k(pl)	x(ilm)	Q(ilm)				
	0.006384	0.3484	3.209e-5				

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
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0.1033 0.2168 0.01305 0.1632 0.2017 0 0.003249 0.01551 0.2832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 710.2 0.03840 0.2157 0.9460 0.0080740.0008631 0.5286
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7363 0.1846 0.1701 0.05593 0.1144 0.2464
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2977 0.2750 0.5464 0.1951 0.02943 0.1524
k(pl) x(ilm) Q(ilm)
0.006586 0.3474 3.168e-5

mode liq bi ep g pl ilm ru ky q
0.1038 0.2166 0.01229 0.1642 0.2009 0 0.003229 0.01577 0.2832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.10 711.9 0.03820 0.2167 0.9453 0.0081460.0008638 0.5294
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7355 0.1843 0.1702 0.05610 0.1151 0.2455
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2985 0.2754 0.5463 0.1986 0.03045 0.1506
k(pl) x(ilm) Q(ilm)
0.006792 0.3464 3.129e-5

mode liq bi ep g pl ilm ru ky q
0.1043 0.2164 0.01150 0.1653 0.2001 0 0.003210 0.01603 0.2832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 713.5 0.03799 0.2177 0.9446 0.0082160.0008642 0.5302
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7347 0.1840 0.1702 0.05627 0.1159 0.2446
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2992 0.2759 0.5461 0.2020 0.03149 0.1488
k(pl) x(ilm) Q(ilm)
0.007001 0.3455 3.090e-5

mode liq bi ep g pl ilm ru ky q
0.1048 0.2162 0.01070 0.1663 0.1993 0 0.003192 0.01629 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.30 715.1 0.03778 0.2186 0.9439 0.0082830.0008645 0.5309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7339 0.1837 0.1703 0.05644 0.1166 0.2437
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3000 0.2764 0.5459 0.2054 0.03256 0.1470
k(pl) x(ilm) Q(ilm)
0.007213 0.3445 3.051e-5

mode liq bi ep g pl ilm ru ky q
0.1052 0.2160 0.009889 0.1673 0.1986 0 0.003174 0.01656 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.40 716.7 0.03757 0.2195 0.9432 0.0083490.0008645 0.5317
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7331 0.1834 0.1703 0.05660 0.1174 0.2428
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.3008 0.2768 0.5458 0.2089 0.03364 0.1452
 k(pl) x(ilm) Q(ilm)
 0.007429 0.3434 3.014e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1057	0.2158	0.009057	0.1683	0.1978		0	0.003156	0.01684 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.50 718.3 0.03736 0.2204 0.9426 0.0084120.0008644 0.5324
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7323 0.1831 0.1703 0.05676 0.1181 0.2420
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.3015 0.2773 0.5456 0.2123 0.03475 0.1434
 k(pl) x(ilm) Q(ilm)
 0.007649 0.3424 2.977e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1062	0.2156	0.008208	0.1694	0.1971		0	0.003138	0.01712 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.60 719.8 0.03715 0.2213 0.9419 0.0084740.0008641 0.5331
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7316 0.1828 0.1703 0.05691 0.1188 0.2412
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.3023 0.2777 0.5454 0.2157 0.03588 0.1415
 k(pl) x(ilm) Q(ilm)
 0.007871 0.3414 2.941e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1067	0.2154	0.007343	0.1704	0.1963		0	0.003121	0.01740 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.70 721.3 0.03694 0.2222 0.9412 0.0085340.0008637 0.5338
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7309 0.1825 0.1703 0.05707 0.1195 0.2404
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.3030 0.2781 0.5453 0.2192 0.03702 0.1397
 k(pl) x(ilm) Q(ilm)
 0.008097 0.3404 2.905e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1072	0.2152	0.006462	0.1715	0.1956		0	0.003104	0.01769 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 722.8 0.03673 0.2230 0.9406 0.0085910.0008630 0.5345

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7302 0.1822 0.1703 0.05722 0.1202 0.2396
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3038 0.2786 0.5451 0.2226 0.03819 0.1379
k(pl) x(ilm) Q(ilm)
0.008326 0.3393 2.870e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1076	0.2150	0.005564		0.1726	0.1948		0 0.003087	0.01798 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 724.2 0.03651 0.2239 0.9400 0.0086470.0008622 0.5351
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7295 0.1819 0.1702 0.05737 0.1209 0.2388
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3045 0.2790 0.5450 0.2261 0.03938 0.1360
k(pl) x(ilm) Q(ilm)
0.008558 0.3383 2.836e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1081	0.2148	0.004650		0.1737	0.1941		0 0.003070	0.01828 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 725.6 0.03630 0.2247 0.9393 0.0087010.0008612 0.5358
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7289 0.1816 0.1702 0.05752 0.1216 0.2380
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3052 0.2794 0.5448 0.2295 0.04059 0.1342
k(pl) x(ilm) Q(ilm)
0.008794 0.3372 2.803e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1086	0.2146	0.003719		0.1748	0.1934		0 0.003054	0.01858 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 727.0 0.03608 0.2255 0.9387 0.0087520.0008601 0.5364
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7282 0.1813 0.1701 0.05767 0.1223 0.2373
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3060 0.2798 0.5447 0.2330 0.04181 0.1323
k(pl) x(ilm) Q(ilm)
0.009033 0.3361 2.770e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1090	0.2144	0.002772		0.1759	0.1926		0 0.003038	0.01888 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 728.4 0.03587 0.2263 0.9380 0.0088030.0008588 0.5370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7276 0.1810 0.1700 0.05781 0.1230 0.2366

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.3067 0.2803 0.5445 0.2364 0.04305 0.1305
 k(pl) x(ilm) Q(ilm)
 0.009274 0.3351 2.737e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1095	0.2142	0.001809	0.1770	0.1919		0	0.003022	0.01919 0.2834

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.30 729.7 0.03566 0.2271 0.9374 0.0088510.0008574 0.5376
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7270 0.1807 0.1699 0.05795 0.1236 0.2359
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.3074 0.2807 0.5443 0.2398 0.04432 0.1286
 k(pl) x(ilm) Q(ilm)
 0.009519 0.3340 2.705e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1099	0.21400	0.008301	0.1781	0.1912		0	0.003007	0.01950 0.2835

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, ep, g, pl, ilm, ru, ky, q

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.38 730.8 0.03548 0.2277 0.9369 0.0088900.0008560 0.5381
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7265 0.1805 0.1698 0.05807 0.1242 0.2353
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.3080 0.2810 0.5442 0.2427 0.04538 0.1271
 k(pl) x(ilm) Q(ilm)
 0.009727 0.3331 2.679e-5

mode	liq	bi	ep	g	pl	ilm	ru	ky	q
	0.1103	0.2138	0	0.1790	0.1906		0	0.002994	0.01976 0.2835

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.30 710.8 0.03267 0.2166 0.9468 0.0074380.0007396 0.5280
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7422 0.1800 0.1583 0.05642 0.1160 0.2454

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5539 0.2540 0.04636 0.1143 0.007501 0.3228
Q(ilm)

2.58E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1040	0.2166	0.1775	0.1915		0	0.003186	0.02222 0.2849

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 733.8 0.03590 0.2293 0.9353 0.0091220.0008749 0.5396
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7242 0.1805 0.1715 0.05830 0.1254 0.2338
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5428 0.2410 0.04525 0.1289 0.01011 0.3345
Q(ilm)

2.69E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1113	0.2133	0.1793	0.1905		0	0.002966	0.01940 0.2832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 749.4 0.03815 0.2380 0.9262 0.010410.0009802 0.5466
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7118 0.1806 0.1798 0.05941 0.1320 0.2260
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5351 0.2324 0.04457 0.1378 0.01232 0.3417
Q(ilm)

2.75E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1167	0.2106	0.1810	0.1895		0	0.002823	0.01754 0.2818

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 762.4 0.04012 0.2452 0.9177 0.01160 0.001078 0.5521
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7012 0.1805 0.1865 0.06028 0.1377 0.2196
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5285 0.2253 0.04404 0.1447 0.01453 0.3472
Q(ilm)

2.79E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1216	0.2080	0.1826	0.1886		0	0.002709	0.01600 0.2805

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.70 774.1 0.04195 0.2516 0.9093 0.01275 0.001174 0.5566
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6916 0.1802 0.1922 0.06099 0.1428 0.2138
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.5224 0.2190 0.04360 0.1503 0.01682 0.3518

Q(ilm)

2.82E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1263	0.2054	0.1844	0.1876		0	0.002613	0.01464 0.2791

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.80	784.8	0.04369	0.2574	0.9008	0.01389	0.001268	0.5604
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6826	0.1798	0.1971	0.06161	0.1477	0.2086
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5166	0.2133	0.04321	0.1550	0.01925	0.3557

Q(ilm)

2.84E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1309	0.2026	0.1863	0.1866		0	0.002531	0.01338 0.2777

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.90	794.8	0.04540	0.2628	0.8920	0.01503	0.001363	0.5635
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6742	0.1793	0.2015	0.06216	0.1523	0.2037
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5110	0.2079	0.04287	0.1589	0.02183	0.3591

Q(ilm)

2.85E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1355	0.1997	0.1884	0.1855		0	0.002462	0.01221 0.2762

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	804.2	0.04707	0.2679	0.8830	0.01618	0.001458	0.5662
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6661	0.1786	0.2054	0.06266	0.1567	0.1991
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5055	0.2029	0.04256	0.1621	0.02460	0.3620

Q(ilm)

2.85E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1401	0.1967	0.1906	0.1845		0	0.002406	0.01110 0.2747

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.10	813.1	0.04873	0.2726	0.8737	0.01734	0.001553	0.5684
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6584	0.1778	0.2089	0.06312	0.1609	0.1948
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.5001	0.1981	0.04228	0.1647	0.02757	0.3644

Q(ilm)

2.85E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1448	0.1934	0.1929	0.1835		0	0.002361	0.01003 0.2730

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	821.5	0.05038	0.2770	0.8640	0.01850	0.001648	0.5703
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6509	0.1769	0.2120	0.06354	0.1650	0.1907	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4947	0.1935	0.04202	0.1668	0.03076	0.3665	
	Q(ilm)						

2.85E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1495	0.1900	0.1955	0.1824		0	0.002328	0.009001 0.2713

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.30	829.6	0.05201	0.2811	0.8539	0.01968	0.001742	0.5717
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6438	0.1759	0.2148	0.06394	0.1689	0.1867	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4893	0.1892	0.04178	0.1682	0.03418	0.3681	
	Q(ilm)						

2.83E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1543	0.1863	0.1982	0.1814		0	0.002307	0.007998 0.2694

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	837.2	0.05364	0.2849	0.8434	0.02086	0.001835	0.5727
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6369	0.1747	0.2172	0.06432	0.1727	0.1830	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4839	0.1850	0.04156	0.1692	0.03785	0.3695	
	Q(ilm)						

2.82E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1591	0.1824	0.2012	0.1804		0	0.002299	0.007018 0.2675

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.50	844.5	0.05525	0.2885	0.8326	0.02204	0.001925	0.5734
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6303	0.1735	0.2194	0.06469	0.1764	0.1794	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4785	0.1809	0.04135	0.1695	0.04177	0.3704	
	Q(ilm)						

2.80E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
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0.1641 0.1783 0.2043 0.1795 0 0.002304 0.006057 0.2654

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 851.4 0.05685 0.2918 0.8214 0.02321 0.002013 0.5737
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6241 0.1720 0.2213 0.06504 0.1799 0.1759
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4730 0.1770 0.04116 0.1693 0.04597 0.3711
Q(ilm)

2.77E-05

mode liq bi g pl ilm ru ky q
0.1691 0.1739 0.2077 0.1786 0 0.002323 0.005109 0.2633

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.70 857.9 0.05842 0.2948 0.8099 0.02437 0.002098 0.5738
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6181 0.1705 0.2228 0.06538 0.1833 0.1726
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4674 0.1733 0.04098 0.1686 0.05046 0.3714
Q(ilm)

2.74E-05

mode liq bi g pl ilm ru ky q
0.1741 0.1693 0.2113 0.1778 0 0.002355 0.004171 0.2610

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 864.0 0.05996 0.2976 0.7981 0.02552 0.002178 0.5735
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6124 0.1689 0.2242 0.06571 0.1865 0.1695
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4619 0.1697 0.04082 0.1674 0.05525 0.3714
Q(ilm)

2.71E-05

mode liq bi g pl ilm ru ky q
0.1792 0.1644 0.2151 0.1770 0 0.002401 0.003241 0.2587

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 869.8 0.06147 0.3002 0.7860 0.02664 0.002254 0.5729
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6070 0.1672 0.2252 0.06604 0.1895 0.1664
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4563 0.1661 0.04067 0.1657 0.06035 0.3711
Q(ilm)

2.68E-05

mode liq bi g pl ilm ru ky q
0.1843 0.1592 0.2191 0.1763 0 0.002462 0.002315 0.2562

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.00    875.3  0.06294  0.3025  0.7738  0.02774 0.002325 0.5720
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.6019  0.1653  0.2261  0.06636  0.1925  0.1635
        x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
        0.4506  0.1628  0.04053  0.1635  0.06579  0.3705
        Q(ilm)
2.64E-05

```

```

mode  liq  bi  g  pl  ilm  ru  ky  q
0.1895 0.1538 0.2233 0.1757 0 0.002536 0.001391 0.2537

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.10    880.4  0.06436  0.3047  0.7614  0.02880 0.002389 0.5708
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5971  0.1634  0.2267  0.06669  0.1952  0.1606
        x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
        0.4449  0.1595  0.04040  0.1609  0.07159  0.3697
        Q(ilm)
2.60E-05

```

```

mode  liq  bi  g  pl  ilm  ru  ky  q
0.1947 0.1481 0.2278 0.1753 0 0.0026250.0004642 0.2511

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, ep, g, mu, pl, ru, ky, q

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
13.00    684.2  0.04489  0.1987  0.9545  0.0073770.0008783 0.5142
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7473  0.1895  0.1725  0.05683  0.1023  0.2593
        f(ep)  Q(ep)  x(g)   z(g)   f(g)  fe(mu)
        0.2936  0.2739  0.5457  0.1400  0.01706  0.1736
        y(mu)  na(mu)  ca(pl)  k(pl)  liq  bi
        0.9976  0.9742  0.2057  0.003776  0.08492  0.2187

```

```

mode  liq  bi  ep  g  mu  pl  ru  ky  q
0.08492 0.2187 0.02019 0.1508 0.03288 0.2002 0.003544 0 0.2888

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
13.10    685.4  0.04448  0.1994  0.9542  0.0074100.0008764 0.5148
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.7470  0.1893  0.1724  0.05634  0.1028  0.2588
        f(ep)  Q(ep)  x(g)   z(g)   f(g)  fe(mu)
        0.2925  0.2729  0.5458  0.1428  0.01742  0.1736
        y(mu)  na(mu)  ca(pl)  k(pl)  liq  bi

```

0.9975 0.9738 0.2027 0.003879 0.08472 0.2186

mode liq bi ep g mu pl ru ky q
0.08472 0.2186 0.02021 0.1514 0.03380 0.1987 0.003530 0 0.2890

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.20 686.5 0.04409 0.2002 0.9538 0.0074430.0008744 0.5153
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7466 0.1890 0.1723 0.05588 0.1034 0.2582
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2915 0.2720 0.5460 0.1456 0.01780 0.1737
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9975 0.9733 0.1998 0.003983 0.08452 0.2185

mode liq bi ep g mu pl ru ky q
0.08452 0.2185 0.02020 0.1520 0.03473 0.1972 0.003516 0 0.2893

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.30 687.6 0.04369 0.2010 0.9535 0.0074740.0008724 0.5159
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7462 0.1887 0.1722 0.05545 0.1039 0.2577
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2906 0.2712 0.5461 0.1484 0.01819 0.1737
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9974 0.9729 0.1969 0.004090 0.08434 0.2183

mode liq bi ep g mu pl ru ky q
0.08434 0.2183 0.02017 0.1527 0.03565 0.1958 0.003502 0 0.2896

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 688.8 0.04331 0.2018 0.9532 0.0075050.0008704 0.5165
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7457 0.1884 0.1721 0.05504 0.1045 0.2571
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2897 0.2704 0.5462 0.1513 0.01860 0.1738
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9973 0.9725 0.1941 0.004199 0.08415 0.2182

mode liq bi ep g mu pl ru ky q
0.08415 0.2182 0.02011 0.1533 0.03657 0.1944 0.003488 0 0.2898

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50 689.9 0.04293 0.2025 0.9528 0.0075360.0008684 0.5171
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7453 0.1882 0.1719 0.05466 0.1050 0.2565
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2889 0.2697 0.5463 0.1541 0.01902 0.1738
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9973 0.9720 0.1912 0.004311 0.08397 0.2181

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08397	0.2181	0.02003	0.1539	0.03748	0.1929	0.003474	0	0.2901		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.60	691.0	0.04255	0.2033	0.9525	0.0075650	0.0008663	0.5176				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7449	0.1879	0.1718	0.05431	0.1056	0.2560					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2882	0.2690	0.5464	0.1569	0.01945	0.1739					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9972	0.9716	0.1884	0.004424	0.08380	0.2180					

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08380	0.2180	0.01992	0.1546	0.03839	0.1915	0.003461	0	0.2903		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.70	692.2	0.04218	0.2041	0.9521	0.0075940	0.0008643	0.5182				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7445	0.1876	0.1716	0.05397	0.1061	0.2554					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2876	0.2684	0.5465	0.1598	0.01990	0.1739					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9971	0.9711	0.1856	0.004540	0.08363	0.2178					

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08363	0.2178	0.01979	0.1552	0.03930	0.1902	0.003447	0	0.2906		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.80	693.3	0.04182	0.2048	0.9518	0.0076220	0.0008622	0.5188				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7441	0.1873	0.1715	0.05366	0.1066	0.2549					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2870	0.2678	0.5466	0.1627	0.02036	0.1740					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9971	0.9706	0.1828	0.004659	0.08347	0.2177					

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08347	0.2177	0.01964	0.1559	0.04021	0.1888	0.003433	0	0.2908		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
13.90	694.4	0.04146	0.2056	0.9514	0.0076490	0.0008601	0.5193				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7437	0.1871	0.1713	0.05338	0.1072	0.2543					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2864	0.2673	0.5467	0.1655	0.02084	0.1740					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9970	0.9701	0.1800	0.004779	0.08331	0.2176					

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08331	0.2176	0.01946	0.1566	0.04111	0.1874	0.003420	0	0.2911		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
14.00	695.5	0.04110	0.2063	0.9511	0.0076760	0.0008580	0.5199						
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)							
	0.7433	0.1868	0.1712	0.05311	0.1077	0.2537							
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)							
	0.2860	0.2668	0.5468	0.1684	0.02134	0.1741							
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi							
	0.9969	0.9696	0.1772	0.004902	0.08316	0.2174							
mode	liq	bi	ep	g	mu	pl	ru	ky	q				
	0.08316	0.2174	0.01925	0.1573	0.04201	0.1861	0.003406	0	0.2913				

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
14.10	696.6	0.04075	0.2071	0.9507	0.0077020	0.0008559	0.5205						
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)							
	0.7429	0.1865	0.1710	0.05286	0.1083	0.2532							
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)							
	0.2855	0.2664	0.5469	0.1713	0.02185	0.1741							
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi							
	0.9968	0.9691	0.1745	0.005028	0.08301	0.2173							
mode	liq	bi	ep	g	mu	pl	ru	ky	q				
	0.08301	0.2173	0.01902	0.1580	0.04291	0.1848	0.003393	0	0.2916				

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
14.20	697.7	0.04041	0.2078	0.9504	0.0077280	0.0008538	0.5210						
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)							
	0.7425	0.1862	0.1708	0.05264	0.1088	0.2526							
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)							
	0.2852	0.2660	0.5470	0.1742	0.02237	0.1742							
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi							
	0.9968	0.9686	0.1718	0.005155	0.08287	0.2172							
mode	liq	bi	ep	g	mu	pl	ru	ky	q				
	0.08287	0.2172	0.01877	0.1587	0.04381	0.1835	0.003379	0	0.2918				

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
14.30	698.9	0.04007	0.2085	0.9500	0.0077530	0.0008517	0.5216						
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)							
	0.7421	0.1860	0.1706	0.05243	0.1093	0.2520							
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)							
	0.2849	0.2657	0.5470	0.1771	0.02291	0.1742							
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi							
	0.9967	0.9681	0.1692	0.005285	0.08273	0.2170							
mode	liq	bi	ep	g	mu	pl	ru	ky	q				
	0.08273	0.2170	0.01849	0.1594	0.04470	0.1822	0.003366	0	0.2920				

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)						
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14.40 700.0 0.03973 0.2092 0.9497 0.0077780.0008496 0.5221
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7417 0.1857 0.1704 0.05224 0.1099 0.2515
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2846 0.2654 0.5471 0.1800 0.02347 0.1742
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9966 0.9675 0.1665 0.005418 0.08259 0.2169

mode liq bi ep g mu pl ru ky q
 0.08259 0.2169 0.01819 0.1602 0.04559 0.1810 0.003352 0 0.2922

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.50 701.1 0.03940 0.2099 0.9493 0.0078020.0008474 0.5227
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7414 0.1854 0.1702 0.05207 0.1104 0.2509
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2844 0.2652 0.5471 0.1829 0.02405 0.1743
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9965 0.9670 0.1639 0.005553 0.08246 0.2167

mode liq bi ep g mu pl ru ky q
 0.08246 0.2167 0.01787 0.1609 0.04648 0.1797 0.003339 0 0.2925

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.60 702.2 0.03907 0.2107 0.9490 0.0078250.0008453 0.5232
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7410 0.1851 0.1700 0.05191 0.1110 0.2503
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2843 0.2650 0.5472 0.1859 0.02464 0.1743
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9964 0.9664 0.1613 0.005690 0.08234 0.2166

mode liq bi ep g mu pl ru ky q
 0.08234 0.2166 0.01752 0.1617 0.04736 0.1785 0.003326 0 0.2927

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.70 703.3 0.03875 0.2114 0.9486 0.0078480.0008431 0.5238
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7406 0.1848 0.1698 0.05177 0.1115 0.2498
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2842 0.2648 0.5472 0.1888 0.02524 0.1744
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9964 0.9659 0.1588 0.005829 0.08221 0.2164

mode liq bi ep g mu pl ru ky q
 0.08221 0.2164 0.01715 0.1624 0.04825 0.1773 0.003313 0 0.2929

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 14.80 704.4 0.03843 0.2121 0.9482 0.0078710.0008409 0.5243
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7402 0.1845 0.1695 0.05165 0.1120 0.2492
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2841 0.2647 0.5472 0.1917 0.02587 0.1744
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9963 0.9653 0.1563 0.005972 0.08210 0.2163

mode liq bi ep g mu pl ru ky q
0.08210 0.2163 0.01675 0.1632 0.04913 0.1761 0.003300 0 0.2931

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.90 705.4 0.03812 0.2128 0.9479 0.0078930.0008387 0.5249
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7398 0.1843 0.1693 0.05154 0.1126 0.2487
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2841 0.2646 0.5473 0.1946 0.02651 0.1745
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9962 0.9647 0.1538 0.006116 0.08198 0.2161

mode liq bi ep g mu pl ru ky q
0.08198 0.2161 0.01634 0.1640 0.05001 0.1749 0.003287 0 0.2933

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00 706.5 0.03781 0.2134 0.9475 0.0079140.0008365 0.5254
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7394 0.1840 0.1691 0.05145 0.1131 0.2481
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2842 0.2645 0.5473 0.1975 0.02717 0.1745
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9961 0.9641 0.1513 0.006263 0.08188 0.2160

mode liq bi ep g mu pl ru ky q
0.08188 0.2160 0.01590 0.1648 0.05089 0.1738 0.003274 0 0.2935

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.10 707.6 0.03751 0.2141 0.9471 0.0079360.0008343 0.5259
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7390 0.1837 0.1688 0.05137 0.1137 0.2475
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2843 0.2645 0.5473 0.2004 0.02785 0.1745
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9960 0.9635 0.1489 0.006413 0.08177 0.2158

mode liq bi ep g mu pl ru ky q
0.08177 0.2158 0.01543 0.1656 0.05176 0.1726 0.003261 0 0.2938

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20 708.7 0.03720 0.2148 0.9468 0.0079570.0008321 0.5265
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7386 0.1834 0.1686 0.05130 0.1142 0.2470
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2844 0.2645 0.5473 0.2034 0.02854 0.1746
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9959 0.9628 0.1465 0.006565 0.08167 0.2157

mode liq bi ep g mu pl ru ky q
0.08167 0.2157 0.01495 0.1664 0.05264 0.1715 0.003249 0 0.2940

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.30 709.8 0.03691 0.2155 0.9464 0.0079770.0008299 0.5270
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7383 0.1831 0.1683 0.05124 0.1147 0.2464
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2846 0.2646 0.5473 0.2063 0.02925 0.1746
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9958 0.9622 0.1441 0.006720 0.08157 0.2155

mode liq bi ep g mu pl ru ky q
0.08157 0.2155 0.01444 0.1672 0.05351 0.1704 0.003236 0 0.2942

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 710.9 0.03662 0.2161 0.9460 0.0079970.0008276 0.5275
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7379 0.1829 0.1681 0.05120 0.1153 0.2459
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2848 0.2646 0.5473 0.2092 0.02999 0.1747
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9957 0.9615 0.1418 0.006877 0.08148 0.2153

mode liq bi ep g mu pl ru ky q
0.08148 0.2153 0.01391 0.1680 0.05439 0.1693 0.003223 0 0.2944

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 711.9 0.03633 0.2168 0.9457 0.0080170.0008254 0.5280
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7375 0.1826 0.1678 0.05117 0.1158 0.2453
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2850 0.2648 0.5472 0.2121 0.03073 0.1747
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9956 0.9608 0.1395 0.007037 0.08139 0.2152

mode liq bi ep g mu pl ru ky q
0.08139 0.2152 0.01336 0.1689 0.05526 0.1682 0.003211 0 0.2946

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 713.0 0.03604 0.2174 0.9453 0.0080370.0008231 0.5286
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7371 0.1823 0.1676 0.05116 0.1163 0.2448
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2853 0.2649 0.5472 0.2151 0.03150 0.1747
y(mu) na(mu) ca(pl) k(pl) liq bi

0.9955 0.9601 0.1372 0.007199 0.08131 0.2150

mode liq bi ep g mu pl ru ky q
0.08131 0.2150 0.01278 0.1698 0.05613 0.1671 0.003198 0 0.2948

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.70 714.1 0.03576 0.2181 0.9449 0.0080560.0008208 0.5291
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7368 0.1820 0.1673 0.05115 0.1169 0.2442
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2856 0.2651 0.5471 0.2180 0.03229 0.1748
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9954 0.9594 0.1349 0.007364 0.08123 0.2148

mode liq bi ep g mu pl ru ky q
0.08123 0.2148 0.01218 0.1706 0.05700 0.1660 0.003186 0 0.2949

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.80 715.2 0.03548 0.2187 0.9445 0.0080750.0008186 0.5296
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7364 0.1817 0.1671 0.05116 0.1174 0.2437
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2860 0.2653 0.5471 0.2209 0.03310 0.1748
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9953 0.9586 0.1327 0.007532 0.08115 0.2146

mode liq bi ep g mu pl ru ky q
0.08115 0.2146 0.01156 0.1715 0.05787 0.1650 0.003174 0 0.2951

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 716.2 0.03521 0.2193 0.9441 0.0080940.0008163 0.5301
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7360 0.1814 0.1668 0.05117 0.1179 0.2431
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2863 0.2655 0.5470 0.2238 0.03392 0.1749
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9952 0.9579 0.1306 0.007703 0.08108 0.2144

mode liq bi ep g mu pl ru ky q
0.08108 0.2144 0.01092 0.1724 0.05874 0.1639 0.003162 0 0.2953

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 717.3 0.03494 0.2200 0.9437 0.0081120.0008140 0.5306
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7357 0.1811 0.1665 0.05120 0.1185 0.2425
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2868 0.2657 0.5470 0.2267 0.03477 0.1749
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9950 0.9571 0.1284 0.007876 0.08101 0.2142

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08101	0.2142	0.01025	0.1733	0.05962	0.1629	0.003150	0	0.2955		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.10	718.3	0.03467	0.2206	0.9433	0.0081310	0.0008116	0.5311				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7353	0.1809	0.1663	0.05123	0.1190	0.2420					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2872	0.2660	0.5469	0.2296	0.03564	0.1749					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9949	0.9563	0.1263	0.008051	0.08094	0.2141					

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08094	0.2141	0.009565	0.1742	0.06049	0.1619	0.003138	0	0.2957		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.20	719.4	0.03441	0.2212	0.9429	0.0081490	0.0008093	0.5316				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7349	0.1806	0.1660	0.05128	0.1195	0.2414					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2877	0.2663	0.5468	0.2326	0.03652	0.1750					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9948	0.9554	0.1242	0.008230	0.08088	0.2139					

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08088	0.2139	0.008855	0.1751	0.06136	0.1609	0.003126	0	0.2959		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.30	720.5	0.03415	0.2218	0.9425	0.0081670	0.0008070	0.5321				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7346	0.1803	0.1657	0.05133	0.1201	0.2409					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2882	0.2666	0.5467	0.2355	0.03743	0.1750					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9947	0.9546	0.1222	0.008411	0.08082	0.2137					

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08082	0.2137	0.008122	0.1761	0.06223	0.1599	0.003114	0	0.2960		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.40	721.5	0.03390	0.2224	0.9421	0.0081850	0.0008046	0.5326				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7342	0.1800	0.1654	0.05140	0.1206	0.2403					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2887	0.2669	0.5466	0.2384	0.03836	0.1750					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9945	0.9537	0.1202	0.008595	0.08077	0.2134					

mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08077	0.2134	0.007367	0.1770	0.06311	0.1590	0.003103	0	0.2962		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.50	722.6	0.03364	0.2230	0.9417	0.0082020	0.0008023	0.5331				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7339	0.1797	0.1651	0.05147	0.1211	0.2398					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2893	0.2673	0.5465	0.2413	0.03931	0.1750					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9944	0.9528	0.1182	0.008782	0.08072	0.2132					
mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08072	0.2132	0.006589	0.1780	0.06398	0.1580	0.003091	0	0.2964		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.60	723.6	0.03339	0.2236	0.9413	0.0082200	0.0007999	0.5336				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7335	0.1794	0.1648	0.05155	0.1217	0.2392					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2899	0.2677	0.5463	0.2442	0.04028	0.1751					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9943	0.9519	0.1162	0.008972	0.08067	0.2130					
mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08067	0.2130	0.005788	0.1790	0.06486	0.1570	0.003080	0	0.2966		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.70	724.7	0.03315	0.2242	0.9409	0.0082370	0.0007975	0.5341				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7332	0.1791	0.1646	0.05164	0.1222	0.2387					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2905	0.2681	0.5462	0.2471	0.04127	0.1751					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9941	0.9509	0.1143	0.009164	0.08063	0.2128					
mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08063	0.2128	0.004964	0.1800	0.06573	0.1561	0.003068	0	0.2967		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
16.80	725.7	0.03291	0.2248	0.9405	0.0082540	0.0007951	0.5345				
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)					
	0.7328	0.1788	0.1643	0.05174	0.1227	0.2381					
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)					
	0.2912	0.2685	0.5460	0.2500	0.04229	0.1751					
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi					
	0.9940	0.9499	0.1124	0.009360	0.08059	0.2126					
mode	liq	bi	ep	g	mu	pl	ru	ky	q		
	0.08059	0.2126	0.004117	0.1810	0.06661	0.1552	0.003057	0	0.2969		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)				
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16.90 726.8 0.03267 0.2254 0.9401 0.0082720.0007927 0.5350
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7325 0.1785 0.1640 0.05184 0.1233 0.2375
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2918 0.2689 0.5459 0.2529 0.04332 0.1751
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9938 0.9489 0.1105 0.009558 0.08056 0.2123

mode liq bi ep g mu pl ru ky q
 0.08056 0.2123 0.003247 0.1820 0.06750 0.1542 0.003046 0 0.2970

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.00 727.8 0.03243 0.2259 0.9396 0.0082890.0007903 0.5355
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7321 0.1782 0.1637 0.05196 0.1238 0.2370
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2925 0.2694 0.5457 0.2558 0.04438 0.1751
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9937 0.9478 0.1087 0.009759 0.08052 0.2121

mode liq bi ep g mu pl ru ky q
 0.08052 0.2121 0.002353 0.1831 0.06838 0.1533 0.003035 0 0.2972

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.10 728.8 0.03220 0.2265 0.9392 0.0083060.0007878 0.5359
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7318 0.1779 0.1634 0.05208 0.1243 0.2364
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2933 0.2699 0.5455 0.2587 0.04547 0.1751
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9935 0.9467 0.1069 0.009964 0.08050 0.2118

mode liq bi ep g mu pl ru ky q
 0.08050 0.2118 0.001435 0.1841 0.06927 0.1524 0.003025 0 0.2974

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.20 729.9 0.03197 0.2271 0.9388 0.0083230.0007854 0.5364
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7315 0.1776 0.1631 0.05221 0.1249 0.2358
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2940 0.2703 0.5453 0.2616 0.04657 0.1751
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9933 0.9456 0.1051 0.01017 0.08047 0.2116

mode liq bi ep g mu pl ru ky q
 0.08047 0.21160.0004930 0.1852 0.07015 0.1515 0.003014 0 0.2975

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O

6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 695.8 0.04109 0.2069 0.9514 0.0075510.0008663 0.5214
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7429 0.1875 0.1702 0.05608 0.1077 0.2541
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2951 0.2742 0.5469 0.1639 0.02185 0.1751
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9969 0.9697 0.1739 0.004949 0.1001 0.2181

mode liq bi ep g mu pl ru ky q
0.1001 0.2181 0.01738 0.1559 0 0.2092 0.003399 0.01311 0.2828

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 696.9 0.04074 0.2077 0.9510 0.0075770.0008643 0.5220
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7425 0.1872 0.1700 0.05583 0.1082 0.2536
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2947 0.2737 0.5470 0.1667 0.02237 0.1752
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9968 0.9692 0.1712 0.005074 0.1003 0.2180

mode liq bi ep g mu pl ru ky q
0.1003 0.2180 0.01715 0.1566 0 0.2083 0.003385 0.01340 0.2829

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 698.0 0.04040 0.2084 0.9507 0.0076020.0008623 0.5226
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7421 0.1870 0.1699 0.05559 0.1087 0.2531
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2943 0.2734 0.5471 0.1696 0.02291 0.1752
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9968 0.9687 0.1686 0.005202 0.1005 0.2179

mode liq bi ep g mu pl ru ky q
0.1005 0.2179 0.01690 0.1572 0 0.2074 0.003371 0.01370 0.2829

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.30 699.1 0.04006 0.2091 0.9503 0.0076260.0008603 0.5232
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7417 0.1867 0.1697 0.05536 0.1093 0.2525
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2940 0.2730 0.5472 0.1724 0.02347 0.1753
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9967 0.9682 0.1660 0.005333 0.1008 0.2178

mode liq bi ep g mu pl ru ky q

0.1008 0.2178 0.01663 0.1579 0 0.2065 0.003357 0.01399 0.2830

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 700.2 0.03972 0.2098 0.9500 0.0076510.0008582 0.5238
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7413 0.1865 0.1695 0.05516 0.1098 0.2520
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2938 0.2727 0.5473 0.1753 0.02404 0.1754
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9966 0.9677 0.1634 0.005465 0.1010 0.2177

mode liq bi ep g mu pl ru ky q
0.1010 0.2177 0.01634 0.1586 0 0.2056 0.003343 0.01428 0.2831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 701.3 0.03939 0.2105 0.9496 0.0076740.0008562 0.5243
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7409 0.1862 0.1693 0.05497 0.1103 0.2514
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2935 0.2725 0.5474 0.1782 0.02463 0.1754
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9965 0.9671 0.1608 0.005600 0.1012 0.2176

mode liq bi ep g mu pl ru ky q
0.1012 0.2176 0.01603 0.1593 0 0.2048 0.003330 0.01457 0.2832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.60 702.4 0.03906 0.2112 0.9493 0.0076970.0008541 0.5249
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7405 0.1860 0.1691 0.05480 0.1109 0.2509
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2934 0.2722 0.5475 0.1811 0.02523 0.1755
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9964 0.9666 0.1583 0.005738 0.1015 0.2175

mode liq bi ep g mu pl ru ky q
0.1015 0.2175 0.01569 0.1600 0 0.2039 0.003316 0.01486 0.2832

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.70 703.5 0.03874 0.2119 0.9489 0.0077200.0008521 0.5255
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7401 0.1857 0.1689 0.05464 0.1114 0.2504
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2933 0.2720 0.5476 0.1840 0.02586 0.1756
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9964 0.9660 0.1558 0.005878 0.1017 0.2174

mode liq bi ep g mu pl ru ky q
0.1017 0.2174 0.01533 0.1607 0 0.2031 0.003302 0.01515 0.2833

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.80    704.6 0.03842 0.2126 0.9485 0.0077430.0008500 0.5261
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7398 0.1854 0.1686 0.05450 0.1119 0.2498
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2932 0.2719 0.5476 0.1869 0.02650 0.1756
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9963 0.9654 0.1533 0.006020 0.1019 0.2173

mode     liq  bi  ep  g  mu  pl  ru  ky  q
        0.1019 0.2173 0.01495 0.1615 0 0.2023 0.003289 0.01544 0.2834

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.90    705.7 0.03811 0.2133 0.9482 0.0077650.0008478 0.5266
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7394 0.1852 0.1684 0.05438 0.1125 0.2493
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2931 0.2718 0.5477 0.1899 0.02716 0.1757
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9962 0.9648 0.1509 0.006165 0.1022 0.2172

mode     liq  bi  ep  g  mu  pl  ru  ky  q
        0.1022 0.2172 0.01455 0.1622 0 0.2015 0.003275 0.01573 0.2834

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.00    706.8 0.03780 0.2140 0.9478 0.0077860.0008457 0.5272
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7390 0.1849 0.1682 0.05426 0.1130 0.2488
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2932 0.2717 0.5478 0.1928 0.02783 0.1758
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9961 0.9642 0.1485 0.006313 0.1024 0.2170

mode     liq  bi  ep  g  mu  pl  ru  ky  q
        0.1024 0.2170 0.01412 0.1629 0 0.2007 0.003262 0.01602 0.2835

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.10    707.8 0.03750 0.2146 0.9474 0.0078080.0008436 0.5278
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7386 0.1847 0.1680 0.05416 0.1136 0.2482
        f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
        0.2932 0.2716 0.5478 0.1957 0.02853 0.1758
        y(mu) na(mu) ca(pl) k(pl) liq bi
        0.9960 0.9636 0.1461 0.006463 0.1027 0.2169

mode     liq  bi  ep  g  mu  pl  ru  ky  q
        0.1027 0.2169 0.01368 0.1637 0 0.1999 0.003248 0.01631 0.2835

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P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.20    708.9 0.03720 0.2153 0.9470 0.0078290.0008414 0.5283

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h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7383 0.1844 0.1677 0.05408 0.1141 0.2477
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2933 0.2716 0.5479 0.1987 0.02924 0.1759
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9959 0.9629 0.1438 0.006616 0.1030 0.2168

mode liq bi ep g mu pl ru ky q
0.1030 0.2168 0.01321 0.1645 0 0.1992 0.003235 0.01660 0.2836

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.30 710.0 0.03690 0.2160 0.9467 0.0078490.0008392 0.5289
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7379 0.1841 0.1675 0.05400 0.1146 0.2472
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2934 0.2716 0.5479 0.2016 0.02998 0.1759
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9958 0.9623 0.1415 0.006771 0.1032 0.2167

mode liq bi ep g mu pl ru ky q
0.1032 0.2167 0.01272 0.1652 0 0.1984 0.003222 0.01689 0.2836

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.40 711.1 0.03661 0.2166 0.9463 0.0078700.0008371 0.5294
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7375 0.1839 0.1673 0.05394 0.1152 0.2466
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2936 0.2716 0.5480 0.2046 0.03073 0.1760
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9957 0.9616 0.1392 0.006929 0.1035 0.2166

mode liq bi ep g mu pl ru ky q
0.1035 0.2166 0.01220 0.1660 0 0.1977 0.003208 0.01718 0.2837

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.50 712.1 0.03632 0.2173 0.9459 0.0078900.0008349 0.5300
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7371 0.1836 0.1670 0.05389 0.1157 0.2461
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2938 0.2717 0.5480 0.2075 0.03150 0.1761
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9956 0.9609 0.1369 0.007090 0.1037 0.2164

mode liq bi ep g mu pl ru ky q
0.1037 0.2164 0.01167 0.1668 0 0.1969 0.003195 0.01747 0.2838

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.60 713.2 0.03604 0.2179 0.9455 0.0079100.0008326 0.5305
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7368 0.1834 0.1668 0.05385 0.1162 0.2456

f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2940 0.2718 0.5481 0.2105 0.03229 0.1761
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9955 0.9602 0.1347 0.007253 0.1040 0.2163

mode liq bi ep g mu pl ru ky q
 0.1040 0.2163 0.01111 0.1676 0 0.1962 0.003182 0.01776 0.2838

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.70 714.3 0.03576 0.2185 0.9451 0.0079290.0008304 0.5311
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7364 0.1831 0.1665 0.05383 0.1168 0.2451
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2942 0.2719 0.5481 0.2135 0.03310 0.1762
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9954 0.9594 0.1325 0.007419 0.1043 0.2162

mode liq bi ep g mu pl ru ky q
 0.1043 0.2162 0.01053 0.1684 0 0.1955 0.003169 0.01805 0.2839

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.80 715.3 0.03548 0.2192 0.9447 0.0079490.0008281 0.5317
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7361 0.1829 0.1663 0.05381 0.1173 0.2445
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2945 0.2720 0.5481 0.2164 0.03393 0.1763
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9953 0.9587 0.1304 0.007588 0.1046 0.2161

mode liq bi ep g mu pl ru ky q
 0.1046 0.2161 0.009933 0.1692 0 0.1948 0.003156 0.01834 0.2839

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 15.90 716.4 0.03521 0.2198 0.9443 0.0079680.0008259 0.5322
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7357 0.1826 0.1660 0.05380 0.1178 0.2440
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2948 0.2722 0.5481 0.2194 0.03478 0.1763
 y(mu) na(mu) ca(pl) k(pl) liq bi
 0.9952 0.9579 0.1283 0.007759 0.1049 0.2159

mode liq bi ep g mu pl ru ky q
 0.1049 0.2159 0.009312 0.1701 0 0.1941 0.003142 0.01863 0.2839

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 16.00 717.5 0.03494 0.2204 0.9439 0.0079870.0008236 0.5328
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7353 0.1824 0.1658 0.05380 0.1184 0.2435
 f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
 0.2952 0.2724 0.5481 0.2224 0.03566 0.1764

y(mu) na(mu) ca(pl) k(pl) liq bi
0.9950 0.9571 0.1262 0.007934 0.1052 0.2158

mode liq bi ep g mu pl ru ky q
0.1052 0.2158 0.008668 0.1709 0 0.1934 0.003129 0.01892 0.2840

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 718.5 0.03467 0.2210 0.9435 0.0080060.0008213 0.5333
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7350 0.1821 0.1655 0.05382 0.1189 0.2430
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2956 0.2726 0.5481 0.2254 0.03655 0.1765
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9949 0.9563 0.1241 0.008111 0.1054 0.2157

mode liq bi ep g mu pl ru ky q
0.1054 0.2157 0.008003 0.1718 0 0.1927 0.003116 0.01921 0.2840

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 719.6 0.03441 0.2216 0.9431 0.0080250.0008190 0.5339
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7346 0.1819 0.1653 0.05384 0.1194 0.2424
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2960 0.2728 0.5481 0.2283 0.03746 0.1765
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9948 0.9555 0.1221 0.008292 0.1057 0.2155

mode liq bi ep g mu pl ru ky q
0.1057 0.2155 0.007317 0.1727 0 0.1921 0.003104 0.01950 0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.30 720.6 0.03415 0.2222 0.9427 0.0080430.0008166 0.5344
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7343 0.1816 0.1650 0.05387 0.1200 0.2419
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2964 0.2731 0.5481 0.2313 0.03840 0.1766
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9947 0.9546 0.1201 0.008475 0.1060 0.2154

mode liq bi ep g mu pl ru ky q
0.1060 0.2154 0.006608 0.1735 0 0.1914 0.003091 0.01980 0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 721.7 0.03389 0.2228 0.9423 0.0080620.0008143 0.5349
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7339 0.1814 0.1647 0.05390 0.1205 0.2414
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2969 0.2733 0.5481 0.2343 0.03935 0.1767
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9945 0.9537 0.1181 0.008662 0.1063 0.2153

mode	liq	bi	ep	g	mu	pl	ru	ky	q
	0.1063	0.2153	0.005878	0.1744		0	0.1908	0.003078	0.02009 0.2842

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.50	722.7	0.03364	0.2234	0.9418	0.0080810	0.0008119	0.5355
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7336	0.1811	0.1645	0.05395	0.1210	0.2409	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2974	0.2736	0.5481	0.2373	0.04033	0.1767	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9944	0.9528	0.1162	0.008851	0.1066	0.2151	

mode	liq	bi	ep	g	mu	pl	ru	ky	q
	0.1066	0.2151	0.005125	0.1753		0	0.1901	0.003065	0.02039 0.2842

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	723.8	0.03339	0.2240	0.9414	0.0080990	0.0008095	0.5360
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7332	0.1808	0.1642	0.05400	0.1215	0.2404	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2979	0.2739	0.5480	0.2403	0.04133	0.1768	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9943	0.9518	0.1143	0.009044	0.1070	0.2150	

mode	liq	bi	ep	g	mu	pl	ru	ky	q
	0.1070	0.2150	0.004351	0.1762		0	0.1895	0.003052	0.02068 0.2842

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.70	724.8	0.03315	0.2246	0.9410	0.0081180	0.0008071	0.5366
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7329	0.1806	0.1639	0.05407	0.1221	0.2399	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2984	0.2742	0.5480	0.2433	0.04235	0.1769	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9941	0.9508	0.1124	0.009240	0.1073	0.2148	

mode	liq	bi	ep	g	mu	pl	ru	ky	q
	0.1073	0.2148	0.003554	0.1772		0	0.1889	0.003040	0.02098 0.2843

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.80	725.9	0.03291	0.2251	0.9405	0.0081360	0.0008047	0.5371
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7326	0.1803	0.1637	0.05413	0.1226	0.2393	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	fe(mu)	
	0.2990	0.2745	0.5480	0.2463	0.04339	0.1769	
	y(mu)	na(mu)	ca(pl)	k(pl)	liq	bi	
	0.9940	0.9498	0.1106	0.009439	0.1076	0.2147	

mode	liq	bi	ep	g	mu	pl	ru	ky	q
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0.1076 0.2147 0.002736 0.1781 0 0.1883 0.003027 0.02127 0.2843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90 726.9 0.03267 0.2257 0.9401 0.0081550.0008022 0.5376
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7322 0.1801 0.1634 0.05421 0.1231 0.2388
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2995 0.2749 0.5479 0.2493 0.04446 0.1770
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9938 0.9487 0.1087 0.009642 0.1079 0.2145

mode liq bi ep g mu pl ru ky q
0.1079 0.2145 0.001895 0.1790 0 0.1877 0.003014 0.02157 0.2843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 727.9 0.03243 0.2263 0.9396 0.0081730.0007998 0.5382
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7319 0.1798 0.1631 0.05429 0.1237 0.2383
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3001 0.2752 0.5479 0.2523 0.04554 0.1771
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9937 0.9476 0.1070 0.009848 0.1082 0.2144

mode liq bi ep g mu pl ru ky q
0.1082 0.2144 0.001031 0.1800 0 0.1871 0.003002 0.02187 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 729.0 0.03220 0.2268 0.9391 0.0081920.0007973 0.5387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7315 0.1796 0.1629 0.05438 0.1242 0.2378
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3007 0.2756 0.5478 0.2553 0.04666 0.1771
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9935 0.9464 0.1052 0.01006 0.1086 0.2142

mode liq bi ep g mu pl ru ky q
0.1086 0.21420.0001455 0.1810 0 0.1865 0.002989 0.02217 0.2844

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.25 730.4 0.03185 0.2273 0.9385 0.0083320.0007841 0.5366
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7313 0.1774 0.1629 0.05228 0.1251 0.2356
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)

0.2944 0.2706 0.5452 0.2631 0.04715 0.1751
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9932 0.9450 0.1042 0.01028 0.08046 0.2115

mode liq bi ep g mu pl ru ky q
0.08046 0.2115 0 0.1858 0.07061 0.1511 0.003009 0 0.2976
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.12 729.1 0.03217 0.2269 0.9391 0.0081950.0007969 0.5388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7315 0.1796 0.1628 0.05440 0.1243 0.2377
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3008 0.2757 0.5478 0.2558 0.04684 0.1771
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9935 0.9462 0.1049 0.01009 0.1086 0.2142

mode liq bi ep g mu pl ru ky q
0.1086 0.2142 0 0.1811 0 0.1864 0.002987 0.02222 0.2844
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, mu, pl, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 717.1 0.03496 0.2194 0.9429 0.0082860.0007806 0.5280
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7361 0.1789 0.1654 0.05644 0.1184 0.2400
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5484 0.2531 0.04587 0.1731 0.9950 0.9564
ca(pl) k(pl)
0.1315 0.007877

mode liq bi g mu pl ru ky q
0.08037 0.2139 0.1807 0.06522 0.1599 0.003157 0 0.2967

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 718.1 0.03469 0.2201 0.9425 0.0082920.0007805 0.5287
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7357 0.1788 0.1652 0.05605 0.1189 0.2397
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5481 0.2541 0.04600 0.1733 0.9949 0.9556
ca(pl) k(pl)
0.1291 0.008057

mode liq bi g mu pl ru ky q
0.08035 0.2138 0.1812 0.06573 0.1590 0.003145 0 0.2968

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 719.2 0.03443 0.2207 0.9422 0.0082970.0007805 0.5294
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7353 0.1787 0.1651 0.05568 0.1195 0.2393
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5479 0.2551 0.04612 0.1734 0.9948 0.9548
ca(pl) k(pl)
0.1267 0.008239

mode liq bi g mu pl ru ky q
0.08033 0.2136 0.1816 0.06622 0.1582 0.003132 0 0.2969

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.30 720.3 0.03417 0.2214 0.9418 0.0083010.0007806 0.5301
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7349 0.1786 0.1649 0.05531 0.1200 0.2389
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5477 0.2560 0.04624 0.1736 0.9947 0.9540
ca(pl) k(pl)
0.1244 0.008423

mode liq bi g mu pl ru ky q
0.08032 0.2134 0.1820 0.06670 0.1575 0.003120 0 0.2970

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 721.4 0.03391 0.2220 0.9415 0.0083060.0007807 0.5308
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7345 0.1785 0.1647 0.05496 0.1206 0.2386
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5474 0.2569 0.04635 0.1738 0.9945 0.9531
ca(pl) k(pl)
0.1221 0.008610

mode liq bi g mu pl ru ky q
0.08031 0.2132 0.1824 0.06717 0.1567 0.003108 0 0.2971

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 722.4 0.03366 0.2227 0.9411 0.0083100.0007809 0.5315
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7341 0.1783 0.1645 0.05461 0.1211 0.2382
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5472 0.2578 0.04646 0.1739 0.9944 0.9522
ca(pl) k(pl)

0.1199 0.008798

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08031	0.2130	0.1828	0.06762	0.1560	0.003096	0	0.2972

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	723.5	0.03341	0.2233	0.9408	0.0083130	0.0007811	0.5322
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7337	0.1782	0.1643	0.05427	0.1217	0.2378	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5469	0.2586	0.04656	0.1741	0.9943	0.9514	
	ca(pl)	k(pl)					
	0.1176	0.008989					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08032	0.2128	0.1832	0.06806	0.1553	0.003084	0	0.2972

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.70	724.6	0.03316	0.2240	0.9404	0.0083170	0.0007814	0.5329
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7333	0.1781	0.1641	0.05394	0.1222	0.2375	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5467	0.2594	0.04666	0.1742	0.9941	0.9504	
	ca(pl)	k(pl)					
	0.1155	0.009182					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08033	0.2126	0.1836	0.06849	0.1546	0.003072	0	0.2973

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.80	725.6	0.03292	0.2246	0.9401	0.0083200	0.0007818	0.5336
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7329	0.1780	0.1639	0.05362	0.1227	0.2371	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5464	0.2601	0.04676	0.1744	0.9940	0.9495	
	ca(pl)	k(pl)					
	0.1134	0.009376					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08034	0.2124	0.1840	0.06890	0.1539	0.003060	0	0.2974

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.90	726.7	0.03267	0.2252	0.9397	0.0083230	0.0007822	0.5342
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7326	0.1779	0.1637	0.05331	0.1233	0.2368	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5462	0.2608	0.04685	0.1746	0.9938	0.9485	
	ca(pl)	k(pl)					
	0.1113	0.009573					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08036	0.2122	0.1844	0.06930	0.1532	0.003049	0	0.2974

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.00	727.8	0.03244	0.2258	0.9394	0.0083260	0.0007827	0.5349
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7322	0.1777	0.1635	0.05301	0.1238	0.2364	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5459	0.2615	0.04694	0.1747	0.9937	0.9476	
	ca(pl)	k(pl)					
	0.1092	0.009771					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08038	0.2120	0.1848	0.06969	0.1526	0.003037	0	0.2975

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.10	728.8	0.03220	0.2264	0.9391	0.0083280	0.0007832	0.5356
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7318	0.1776	0.1633	0.05271	0.1243	0.2361	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5456	0.2622	0.04702	0.1749	0.9935	0.9465	
	ca(pl)	k(pl)					
	0.1072	0.009972					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08041	0.2118	0.1852	0.07007	0.1520	0.003026	0	0.2975

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	729.9	0.03197	0.2270	0.9387	0.0083310	0.0007838	0.5362
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7315	0.1775	0.1631	0.05242	0.1249	0.2357	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5453	0.2628	0.04711	0.1751	0.9933	0.9455	
	ca(pl)	k(pl)					
	0.1052	0.01017					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08045	0.2116	0.1856	0.07043	0.1514	0.003014	0	0.2976

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.30	730.9	0.03174	0.2276	0.9384	0.0083330	0.0007844	0.5369
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7311	0.1774	0.1628	0.05214	0.1254	0.2354	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5450	0.2634	0.04719	0.1752	0.9932	0.9444	
	ca(pl)	k(pl)					
	0.1033	0.01038					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08048	0.2113	0.1860	0.07078	0.1508	0.003003	0	0.2976

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.40	732.0	0.03151	0.2282	0.9380	0.0083350	0.0007851	0.5376
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7307	0.1772	0.1626	0.05187	0.1259	0.2350	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5447	0.2640	0.04726	0.1754	0.9930	0.9433	
	ca(pl)	k(pl)					
	0.1014	0.01058					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08053	0.2111	0.1863	0.07112	0.1502	0.002992	0	0.2976

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.50	733.0	0.03129	0.2288	0.9377	0.0083370	0.0007859	0.5382
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7304	0.1771	0.1624	0.05160	0.1265	0.2347	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5444	0.2645	0.04734	0.1755	0.9928	0.9422	
	ca(pl)	k(pl)					
	0.09950	0.01079					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08058	0.2109	0.1867	0.07145	0.1497	0.002981	0	0.2977

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.60	734.1	0.03107	0.2294	0.9374	0.0083390	0.0007867	0.5389
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7300	0.1770	0.1621	0.05133	0.1270	0.2343	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5441	0.2650	0.04741	0.1757	0.9926	0.9410	
	ca(pl)	k(pl)					
	0.09766	0.01100					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08063	0.2107	0.1871	0.07177	0.1492	0.002970	0	0.2977

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.70	735.1	0.03085	0.2299	0.9370	0.0083400	0.0007876	0.5395
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7297	0.1769	0.1619	0.05108	0.1275	0.2340	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5438	0.2655	0.04747	0.1758	0.9924	0.9398	
	ca(pl)	k(pl)					
	0.09586	0.01121					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08069	0.2104	0.1875	0.07208	0.1487	0.002960	0	0.2977

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

17.80 736.1 0.03063 0.2305 0.9367 0.0083420.0007885 0.5402
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7293 0.1767 0.1616 0.05083 0.1280 0.2337
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5435 0.2659 0.04754 0.1760 0.9922 0.9385
ca(pl) k(pl)
0.09409 0.01143

mode liq bi g mu pl ru ky q
0.08075 0.2102 0.1878 0.07238 0.1482 0.002949 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 737.2 0.03042 0.2311 0.9364 0.0083440.0007895 0.5408
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7290 0.1766 0.1614 0.05059 0.1286 0.2333
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5431 0.2664 0.04760 0.1761 0.9920 0.9372
ca(pl) k(pl)
0.09235 0.01164

mode liq bi g mu pl ru ky q
0.08082 0.2100 0.1882 0.07266 0.1477 0.002939 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 738.2 0.03021 0.2316 0.9360 0.0083450.0007905 0.5414
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7287 0.1765 0.1611 0.05035 0.1291 0.2330
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5428 0.2668 0.04766 0.1763 0.9918 0.9359
ca(pl) k(pl)
0.09065 0.01186

mode liq bi g mu pl ru ky q
0.08089 0.2097 0.1886 0.07294 0.1472 0.002928 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10 739.2 0.03000 0.2322 0.9357 0.0083460.0007916 0.5421
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7283 0.1763 0.1608 0.05012 0.1296 0.2326
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5424 0.2672 0.04772 0.1764 0.9916 0.9345
ca(pl) k(pl)
0.08898 0.01208

mode liq bi g mu pl ru ky q
0.08097 0.2095 0.1889 0.07320 0.1468 0.002918 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 740.3 0.02980 0.2327 0.9354 0.0083480.0007927 0.5427
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7280 0.1762 0.1606 0.04989 0.1301 0.2323
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5421 0.2675 0.04777 0.1765 0.9914 0.9330
ca(pl) k(pl)
0.08734 0.01230

mode liq bi g mu pl ru ky q
0.08106 0.2092 0.1893 0.07346 0.1463 0.002908 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.30 741.3 0.02959 0.2333 0.9351 0.0083490.0007939 0.5433
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7276 0.1760 0.1603 0.04967 0.1307 0.2319
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5417 0.2678 0.04783 0.1767 0.9911 0.9315
ca(pl) k(pl)
0.08573 0.01252

mode liq bi g mu pl ru ky q
0.08115 0.2089 0.1897 0.07370 0.1459 0.002898 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 742.3 0.02939 0.2338 0.9348 0.0083500.0007951 0.5439
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7273 0.1759 0.1600 0.04945 0.1312 0.2316
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5413 0.2682 0.04787 0.1768 0.9909 0.9299
ca(pl) k(pl)
0.08416 0.01274

mode liq bi g mu pl ru ky q
0.08124 0.2087 0.1900 0.07394 0.1455 0.002889 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50 743.4 0.02920 0.2343 0.9344 0.0083510.0007964 0.5445
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7270 0.1758 0.1597 0.04924 0.1317 0.2312
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5410 0.2684 0.04792 0.1769 0.9906 0.9282
ca(pl) k(pl)
0.08261 0.01297

mode liq bi g mu pl ru ky q
0.08135 0.2084 0.1904 0.07416 0.1451 0.002879 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 744.4 0.02900 0.2349 0.9341 0.0083530.0007978 0.5451
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7266 0.1756 0.1595 0.04903 0.1322 0.2309
x(g) z(g) f(g) fe(mu) y(mu) na(mu)

0.5406 0.2687 0.04797 0.1770 0.9903 0.9265
ca(pl) k(pl)
0.08109 0.01319

mode liq bi g mu pl ru ky q
0.08145 0.2081 0.1908 0.07438 0.1448 0.002870 0 0.2977

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.70 745.4 0.02881 0.2354 0.9338 0.0083540.0007992 0.5457
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7263 0.1754 0.1592 0.04883 0.1327 0.2305
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5401 0.2689 0.04801 0.1772 0.9901 0.9246
ca(pl) k(pl)
0.07960 0.01342

mode liq bi g mu pl ru ky q
0.08157 0.2078 0.1911 0.07458 0.1444 0.002861 0 0.2976

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 746.5 0.02862 0.2359 0.9335 0.0083550.0008007 0.5462
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7260 0.1753 0.1589 0.04864 0.1333 0.2301
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5397 0.2691 0.04805 0.1773 0.9898 0.9227
ca(pl) k(pl)
0.07814 0.01365

mode liq bi g mu pl ru ky q
0.08169 0.2075 0.1915 0.07477 0.1441 0.002852 0 0.2976

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.90 747.5 0.02843 0.2364 0.9332 0.0083560.0008022 0.5468
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7257 0.1751 0.1586 0.04845 0.1338 0.2298
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5393 0.2693 0.04808 0.1774 0.9895 0.9206
ca(pl) k(pl)
0.07671 0.01388

mode liq bi g mu pl ru ky q
0.08182 0.2072 0.1919 0.07495 0.1437 0.002844 0 0.2976

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 748.5 0.02824 0.2369 0.9329 0.0083570.0008038 0.5473
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7253 0.1749 0.1583 0.04826 0.1343 0.2294
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5388 0.2694 0.04812 0.1775 0.9891 0.9185
ca(pl) k(pl)

0.07530 0.01411

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08196	0.2068	0.1923	0.07512	0.1434	0.002836	0	0.2975

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.10 749.5 0.02806 0.2374 0.9326 0.0083580.0008054 0.5479
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7250 0.1748 0.1580 0.04808 0.1348 0.2290
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5383 0.2695 0.04815 0.1776 0.9888 0.9161
ca(pl) k(pl)
0.07392 0.01434

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08210	0.2065	0.1927	0.07528	0.1431	0.002828	0	0.2975

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 750.6 0.02788 0.2380 0.9323 0.0083580.0008071 0.5484
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7247 0.1746 0.1577 0.04790 0.1353 0.2286
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5378 0.2696 0.04817 0.1776 0.9884 0.9136
ca(pl) k(pl)
0.07257 0.01457

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08226	0.2061	0.1931	0.07543	0.1429	0.002820	0	0.2974

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.30 751.6 0.02770 0.2385 0.9321 0.0083590.0008089 0.5489
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7244 0.1744 0.1574 0.04773 0.1358 0.2282
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5373 0.2697 0.04819 0.1777 0.9880 0.9110
ca(pl) k(pl)
0.07124 0.01480

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08243	0.2058	0.1935	0.07556	0.1426	0.002813	0	0.2973

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40 752.6 0.02752 0.2390 0.9318 0.0083600.0008108 0.5494
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7241 0.1742 0.1570 0.04756 0.1364 0.2278
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5368 0.2697 0.04821 0.1778 0.9876 0.9080
ca(pl) k(pl)
0.06994 0.01504

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08261	0.2054	0.1939	0.07568	0.1424	0.002806	0	0.2972

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.50	753.6	0.02734	0.2395	0.9315	0.0083600	0.0008127	0.5499
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7237	0.1739	0.1567	0.04740	0.1369	0.2274	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5362	0.2697	0.04823	0.1778	0.9872	0.9048	
	ca(pl)	k(pl)					
	0.06866	0.01527					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08280	0.2049	0.1944	0.07578	0.1422	0.002800	0	0.2971

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.60	754.7	0.02717	0.2399	0.9313	0.0083600	0.0008147	0.5503
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7234	0.1737	0.1564	0.04725	0.1374	0.2270	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5356	0.2696	0.04824	0.1778	0.9867	0.9013	
	ca(pl)	k(pl)					
	0.06740	0.01550					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08302	0.2045	0.1949	0.07586	0.1420	0.002794	0	0.2970

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.70	755.7	0.02700	0.2404	0.9311	0.0083600	0.0008168	0.5507
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7231	0.1734	0.1560	0.04710	0.1379	0.2266	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5349	0.2694	0.04824	0.1778	0.9861	0.8973	
	ca(pl)	k(pl)					
	0.06617	0.01573					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08325	0.2040	0.1954	0.07592	0.1418	0.002790	0	0.2969

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.80	756.7	0.02683	0.2409	0.9309	0.0083580	0.0008190	0.5511
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7228	0.1731	0.1557	0.04696	0.1384	0.2261	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5341	0.2692	0.04824	0.1778	0.9855	0.8927	
	ca(pl)	k(pl)					
	0.06495	0.01595					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.08351	0.2034	0.1959	0.07596	0.1417	0.002786	0	0.2967

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
19.90    757.7 0.02666 0.2414 0.9307 0.0083560.0008214 0.5514
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7224 0.1728 0.1553 0.04684 0.1389 0.2256
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5333 0.2689 0.04822 0.1777 0.9848 0.8872
        ca(pl) k(pl)
        0.06375 0.01617

```

```

mode  liq  bi  g  mu  pl  ru  ky  q
      0.08381 0.2028 0.1965 0.07596 0.1417 0.002784 0 0.2965

```

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
20.00    758.8 0.02649 0.2419 0.9306 0.0083520.0008239 0.5516
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7221 0.1724 0.1549 0.04672 0.1394 0.2250
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5323 0.2685 0.04819 0.1775 0.9839 0.8805
        ca(pl) k(pl)
        0.06257 0.01638

```

```

mode  liq  bi  g  mu  pl  ru  ky  q
      0.08416 0.2020 0.1972 0.07591 0.1417 0.002784 0 0.2963

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, g, mu, pl, ru, ky, q

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-----
P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.00    717.3 0.03495 0.2200 0.9433 0.0081180.0007965 0.5308
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7356 0.1806 0.1646 0.05869 0.1183 0.2414
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5495 0.2444 0.04535 0.1750 0.9950 0.9566
        ca(pl) k(pl)
        0.1284 0.007935

```

```

mode  liq  bi  g  mu  pl  ru  ky  q
      0.1065 0.2157 0.1769 0 0.1933 0.003134 0.02036 0.2841

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P(kbar)  T(iC)  q(L) fsp(L)  na(L)  an(L)  ol(L)  x(L)
16.10    718.4 0.03469 0.2206 0.9429 0.0081260.0007963 0.5315
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.7353 0.1805 0.1645 0.05826 0.1188 0.2411
        x(g)  z(g)  f(g) fe(mu) y(mu) na(mu)
        0.5494 0.2456 0.04551 0.1752 0.9949 0.9558

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ca(pl) k(pl)
0.1262 0.008117

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1067	0.2156	0.1773		0	0.1926	0.003120	0.02055 0.2842

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 719.4 0.03442 0.2213 0.9425 0.0081340.0007961 0.5322
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7349 0.1804 0.1644 0.05783 0.1194 0.2408
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5492 0.2468 0.04566 0.1754 0.9948 0.9550
ca(pl) k(pl)
0.1239 0.008300

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1069	0.2154	0.1777		0	0.1920	0.003107	0.02073 0.2842

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.30 720.5 0.03416 0.2219 0.9422 0.0081410.0007960 0.5330
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7345 0.1803 0.1642 0.05742 0.1199 0.2404
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5491 0.2479 0.04580 0.1756 0.9947 0.9541
ca(pl) k(pl)
0.1217 0.008486

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1071	0.2153	0.1781		0	0.1913	0.003094	0.02091 0.2842

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 721.6 0.03391 0.2226 0.9418 0.0081490.0007959 0.5337
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7341 0.1802 0.1641 0.05702 0.1204 0.2401
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5490 0.2490 0.04595 0.1758 0.9945 0.9532
ca(pl) k(pl)
0.1195 0.008675

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1073	0.2152	0.1785		0	0.1907	0.003080	0.02109 0.2843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 722.6 0.03365 0.2232 0.9414 0.0081560.0007959 0.5344
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7337 0.1801 0.1639 0.05662 0.1210 0.2397
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5488 0.2500 0.04608 0.1760 0.9944 0.9524
ca(pl) k(pl)
0.1174 0.008865

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1074	0.2151	0.1789		0	0.1900	0.003067	0.02126 0.2843

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	723.7	0.03340	0.2238	0.9410	0.0081630	0.0007959	0.5351
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7334	0.1800	0.1637	0.05624	0.1215	0.2394	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5486	0.2510	0.04622	0.1761	0.9943	0.9514	
	ca(pl)	k(pl)					
	0.1152	0.009058					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1076	0.2149	0.1792		0	0.1894	0.003054	0.02142 0.2843

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.70	724.8	0.03316	0.2244	0.9406	0.0081690	0.0007960	0.5358
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7330	0.1799	0.1636	0.05586	0.1221	0.2391	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5485	0.2520	0.04635	0.1763	0.9941	0.9505	
	ca(pl)	k(pl)					
	0.1132	0.009253					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1078	0.2148	0.1796		0	0.1888	0.003041	0.02159 0.2843

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.80	725.8	0.03291	0.2250	0.9403	0.0081760	0.0007961	0.5365
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7326	0.1798	0.1634	0.05550	0.1226	0.2387	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5483	0.2530	0.04647	0.1765	0.9940	0.9495	
	ca(pl)	k(pl)					
	0.1111	0.009451					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1080	0.2146	0.1800		0	0.1882	0.003028	0.02174 0.2843

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.90	726.9	0.03267	0.2256	0.9399	0.0081820	0.0007963	0.5372
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7323	0.1797	0.1632	0.05514	0.1231	0.2384	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5482	0.2539	0.04659	0.1767	0.9938	0.9485	
	ca(pl)	k(pl)					
	0.1091	0.009651					

mode	liq	bi	g	mu	pl	ru	ky	q
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0.1082 0.2145 0.1804 0 0.1876 0.003015 0.02190 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 727.9 0.03244 0.2262 0.9395 0.0081880.0007965 0.5379
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7319 0.1797 0.1631 0.05479 0.1237 0.2381
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5480 0.2548 0.04671 0.1769 0.9937 0.9475
ca(pl) k(pl)
0.1072 0.009853

mode liq bi g mu pl ru ky q
0.1084 0.2144 0.1807 0 0.1871 0.003002 0.02205 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 729.0 0.03220 0.2268 0.9391 0.0081940.0007968 0.5387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7315 0.1796 0.1629 0.05445 0.1242 0.2378
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5478 0.2557 0.04682 0.1771 0.9935 0.9464
ca(pl) k(pl)
0.1052 0.01006

mode liq bi g mu pl ru ky q
0.1086 0.2142 0.1811 0 0.1865 0.002989 0.02220 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 730.0 0.03197 0.2274 0.9387 0.0082000.0007972 0.5394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7312 0.1795 0.1627 0.05412 0.1248 0.2375
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5476 0.2565 0.04693 0.1773 0.9933 0.9453
ca(pl) k(pl)
0.1033 0.01027

mode liq bi g mu pl ru ky q
0.1088 0.2141 0.1814 0 0.1860 0.002976 0.02234 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.30 731.1 0.03174 0.2280 0.9384 0.0082050.0007976 0.5401
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7308 0.1794 0.1625 0.05379 0.1253 0.2371
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5475 0.2573 0.04704 0.1775 0.9932 0.9442
ca(pl) k(pl)
0.1015 0.01047

mode liq bi g mu pl ru ky q
0.1090 0.2140 0.1818 0 0.1854 0.002964 0.02248 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 732.1 0.03152 0.2286 0.9380 0.0082110.0007980 0.5408
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7305 0.1793 0.1623 0.05347 0.1258 0.2368
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5473 0.2581 0.04714 0.1777 0.9930 0.9430
ca(pl) k(pl)
0.09966 0.01069

mode liq bi g mu pl ru ky q
0.1092 0.2138 0.1821 0 0.1849 0.002951 0.02262 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.50 733.2 0.03130 0.2291 0.9376 0.0082170.0007985 0.5415
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7301 0.1792 0.1621 0.05316 0.1264 0.2365
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5471 0.2589 0.04724 0.1779 0.9928 0.9418
ca(pl) k(pl)
0.09786 0.01090

mode liq bi g mu pl ru ky q
0.1093 0.2137 0.1824 0 0.1844 0.002938 0.02275 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.60 734.2 0.03108 0.2297 0.9372 0.0082220.0007990 0.5422
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7298 0.1791 0.1619 0.05286 0.1269 0.2362
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5469 0.2596 0.04734 0.1781 0.9926 0.9405
ca(pl) k(pl)
0.09610 0.01112

mode liq bi g mu pl ru ky q
0.1095 0.2135 0.1828 0 0.1839 0.002926 0.02288 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.70 735.2 0.03086 0.2303 0.9368 0.0082280.0007996 0.5429
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7295 0.1791 0.1617 0.05256 0.1274 0.2359
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5467 0.2603 0.04743 0.1783 0.9924 0.9392
ca(pl) k(pl)
0.09437 0.01134

mode liq bi g mu pl ru ky q
0.1097 0.2134 0.1831 0 0.1834 0.002913 0.02300 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 736.3 0.03065 0.2308 0.9364 0.0082330.0008003 0.5436

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7291 0.1790 0.1615 0.05227 0.1280 0.2356
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5465 0.2610 0.04752 0.1785 0.9922 0.9378
ca(pl) k(pl)
0.09267 0.01156

mode liq bi g mu pl ru ky q
0.1099 0.2133 0.1834 0 0.1829 0.002901 0.02313 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 737.3 0.03043 0.2314 0.9361 0.0082390.0008010 0.5443
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7288 0.1789 0.1613 0.05198 0.1285 0.2353
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5463 0.2616 0.04761 0.1787 0.9920 0.9364
ca(pl) k(pl)
0.09101 0.01178

mode liq bi g mu pl ru ky q
0.1101 0.2131 0.1837 0 0.1824 0.002888 0.02325 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 738.3 0.03023 0.2319 0.9357 0.0082440.0008017 0.5450
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7284 0.1788 0.1610 0.05170 0.1290 0.2350
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5461 0.2623 0.04770 0.1788 0.9918 0.9349
ca(pl) k(pl)
0.08937 0.01201

mode liq bi g mu pl ru ky q
0.1103 0.2130 0.1841 0 0.1819 0.002876 0.02336 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.10 739.4 0.03002 0.2324 0.9353 0.0082500.0008025 0.5457
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7281 0.1787 0.1608 0.05143 0.1295 0.2346
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5459 0.2629 0.04778 0.1790 0.9916 0.9334
ca(pl) k(pl)
0.08777 0.01223

mode liq bi g mu pl ru ky q
0.1105 0.2128 0.1844 0 0.1815 0.002864 0.02348 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 740.4 0.02982 0.2330 0.9349 0.0082550.0008034 0.5464
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7278 0.1786 0.1606 0.05116 0.1301 0.2343

x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5457 0.2635 0.04786 0.1792 0.9913 0.9317
 ca(pl) k(pl)
 0.08619 0.01247

mode liq bi g mu pl ru ky q
 0.1107 0.2127 0.1847 0 0.1810 0.002851 0.02359 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.30 741.4 0.02962 0.2335 0.9345 0.0082610.0008043 0.5470
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7275 0.1786 0.1604 0.05089 0.1306 0.2340
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5455 0.2641 0.04794 0.1794 0.9911 0.9300
 ca(pl) k(pl)
 0.08465 0.01270

mode liq bi g mu pl ru ky q
 0.1108 0.2125 0.1850 0 0.1806 0.002839 0.02370 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.40 742.5 0.02942 0.2340 0.9341 0.0082670.0008053 0.5477
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7271 0.1785 0.1602 0.05064 0.1311 0.2337
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5453 0.2646 0.04802 0.1796 0.9908 0.9282
 ca(pl) k(pl)
 0.08313 0.01294

mode liq bi g mu pl ru ky q
 0.1110 0.2124 0.1853 0 0.1802 0.002827 0.02380 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.50 743.5 0.02922 0.2346 0.9337 0.0082730.0008063 0.5484
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7268 0.1784 0.1599 0.05038 0.1317 0.2334
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5451 0.2652 0.04809 0.1798 0.9905 0.9263
 ca(pl) k(pl)
 0.08164 0.01317

mode liq bi g mu pl ru ky q
 0.1112 0.2122 0.1856 0 0.1798 0.002815 0.02390 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.60 744.5 0.02903 0.2351 0.9333 0.0082790.0008073 0.5491
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7265 0.1783 0.1597 0.05014 0.1322 0.2331
 x(g) z(g) f(g) fe(mu) y(mu) na(mu)
 0.5449 0.2657 0.04817 0.1800 0.9902 0.9243

ca(pl) k(pl)
0.08019 0.01342

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1114	0.2121	0.1859		0	0.1793	0.002802	0.02400 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.70 745.6 0.02884 0.2356 0.9329 0.0082850.0008084 0.5498
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7261 0.1782 0.1595 0.04989 0.1327 0.2328
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5446 0.2662 0.04824 0.1802 0.9899 0.9221
ca(pl) k(pl)
0.07876 0.01366

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1116	0.2119	0.1862		0	0.1789	0.002790	0.02410 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 746.6 0.02865 0.2361 0.9325 0.0082910.0008096 0.5505
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7258 0.1781 0.1592 0.04966 0.1332 0.2325
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5444 0.2666 0.04831 0.1804 0.9896 0.9198
ca(pl) k(pl)
0.07735 0.01391

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1118	0.2118	0.1865		0	0.1785	0.002778	0.02419 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.90 747.6 0.02847 0.2366 0.9321 0.0082980.0008108 0.5512
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7255 0.1781 0.1590 0.04942 0.1338 0.2322
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5442 0.2671 0.04837 0.1806 0.9893 0.9172
ca(pl) k(pl)
0.07598 0.01416

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1120	0.2116	0.1867		0	0.1781	0.002766	0.02428 0.2845

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 748.6 0.02828 0.2371 0.9317 0.0083050.0008121 0.5518
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7252 0.1780 0.1588 0.04919 0.1343 0.2319
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5440 0.2675 0.04844 0.1808 0.9889 0.9145
ca(pl) k(pl)
0.07463 0.01441

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1122	0.2115	0.1870		0	0.1778	0.002754	0.02437 0.2845

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.10	749.7	0.02810	0.2376	0.9313	0.0083120	0.0008135	0.5525
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7249	0.1779	0.1585	0.04897	0.1348	0.2316	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5437	0.2680	0.04850	0.1810	0.9885	0.9115	
	ca(pl)	k(pl)					
	0.07331	0.01466					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1123	0.2113	0.1873		0	0.1774	0.002742	0.02446 0.2844

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.20	750.7	0.02793	0.2381	0.9309	0.0083190	0.0008149	0.5532
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7245	0.1778	0.1583	0.04875	0.1354	0.2313	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5435	0.2684	0.04856	0.1812	0.9881	0.9081	
	ca(pl)	k(pl)					
	0.07201	0.01492					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1125	0.2112	0.1876		0	0.1770	0.002730	0.02454 0.2844

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.30	751.7	0.02775	0.2386	0.9305	0.0083270	0.0008163	0.5539
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7242	0.1777	0.1581	0.04853	0.1359	0.2310	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5433	0.2688	0.04862	0.1814	0.9876	0.9043	
	ca(pl)	k(pl)					
	0.07074	0.01519					

mode	liq	bi	g	mu	pl	ru	ky	q
	0.1127	0.2110	0.1879		0	0.1767	0.002718	0.02462 0.2844

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.40	752.8	0.02758	0.2391	0.9301	0.0083350	0.0008179	0.5545
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7239	0.1777	0.1578	0.04832	0.1364	0.2307	
	x(g)	z(g)	f(g)	fe(mu)	y(mu)	na(mu)	
	0.5430	0.2691	0.04868	0.1816	0.9871	0.8999	
	ca(pl)	k(pl)					
	0.06949	0.01545					

mode	liq	bi	g	mu	pl	ru	ky	q
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0.1129 0.2109 0.1881 0 0.1763 0.002706 0.02470 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.50 753.8 0.02741 0.2396 0.9297 0.0083430.0008195 0.5552
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7236 0.1776 0.1576 0.04811 0.1370 0.2304
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5428 0.2695 0.04874 0.1818 0.9864 0.8946
ca(pl) k(pl)
0.06828 0.01572

mode liq bi g mu pl ru ky q
0.1131 0.2107 0.1884 0 0.1760 0.002694 0.02477 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 754.9 0.02724 0.2401 0.9293 0.0083530.0008211 0.5559
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7232 0.1775 0.1574 0.04791 0.1375 0.2301
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5425 0.2698 0.04879 0.1820 0.9856 0.8878
ca(pl) k(pl)
0.06708 0.01599

mode liq bi g mu pl ru ky q
0.1133 0.2105 0.1887 0 0.1756 0.002683 0.02484 0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.70 755.9 0.02708 0.2406 0.9288 0.0083630.0008229 0.5566
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7229 0.1774 0.1571 0.04771 0.1380 0.2298
x(g) z(g) f(g) fe(mu) y(mu) na(mu)
0.5422 0.2701 0.04884 0.1822 0.9845 0.8775
ca(pl) k(pl)
0.06592 0.01627

mode liq bi g mu pl ru ky q
0.1135 0.2104 0.1889 0 0.1753 0.002671 0.02491 0.2843

calcs use:

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, pl, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 731.4 0.03730 0.2277 0.9358 0.0092350.0008888 0.5378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7243 0.1810 0.1732 0.06030 0.1240 0.2342

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3125 0.2844 0.5424 0.2348 0.04450 0.1399
k(pl)

0.009445

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1111	0.2136	0	0.1777	0.1933	0.003002	0.01836	0.2829

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.02 731.4 0.03720 0.2277 0.9359 0.0092180.0008871 0.5378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7244 0.1810 0.1730 0.06018 0.1240 0.2342
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3123 0.2842 0.5425 0.2352 0.04455 0.1392
k(pl)

0.009461

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1111	0.2136	0	0.1778	0.1932	0.003002	0.01843	0.2830

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.04 731.3 0.03711 0.2277 0.9359 0.0092000.0008853 0.5378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7245 0.1809 0.1728 0.06006 0.1240 0.2343
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3120 0.2840 0.5426 0.2356 0.04459 0.1386
k(pl)

0.009477

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1110	0.2136	0	0.1778	0.1930	0.003001	0.01851	0.2830

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.06 731.3 0.03701 0.2277 0.9360 0.0091820.0008836 0.5378
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7246 0.1809 0.1727 0.05994 0.1240 0.2344
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3118 0.2838 0.5427 0.2361 0.04464 0.1379
k(pl)

0.009493

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1110	0.2136	0	0.1779	0.1929	0.003001	0.01858	0.2830

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.08 731.3 0.03691 0.2277 0.9360 0.0091650.0008819 0.5379
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7247 0.1809 0.1725 0.05982 0.1240 0.2344
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3116 0.2836 0.5428 0.2365 0.04469 0.1372

k(pl)

0.009509

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1109	0.2136	0	0.1780	0.1927	0.003000	0.01866	0.2831

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.10	731.3	0.03682	0.2277	0.9361	0.0091470	0.0008801	0.5379
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7248	0.1809	0.1723	0.05970	0.1240	0.2345	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3113	0.2835	0.5429	0.2369	0.04474	0.1365	

k(pl)

0.009524

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1109	0.2137	0	0.1781	0.1926	0.003000	0.01873	0.2831

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.12	731.2	0.03672	0.2277	0.9362	0.0091290	0.0008784	0.5379
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7249	0.1808	0.1722	0.05958	0.1240	0.2345	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3111	0.2833	0.5430	0.2373	0.04478	0.1358	

k(pl)

0.00954

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1109	0.2137	0	0.1781	0.1924	0.002999	0.01880	0.2831

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.14	731.2	0.03663	0.2277	0.9362	0.0091110	0.0008767	0.5379
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7251	0.1808	0.1720	0.05946	0.1241	0.2346	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3108	0.2831	0.5431	0.2377	0.04483	0.1352	

k(pl)

0.009555

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1108	0.2137	0	0.1782	0.1923	0.002999	0.01888	0.2831

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.16	731.2	0.03653	0.2277	0.9363	0.0090930	0.0008750	0.5379
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7252	0.1808	0.1718	0.05934	0.1241	0.2346	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3106	0.2829	0.5432	0.2382	0.04488	0.1345	

k(pl)

0.00957

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1108	0.2137	0	0.1783	0.1921	0.002998	0.01895	0.2832

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.18	731.2	0.03644	0.2277	0.9363	0.0090750	0.0008733	0.5379
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7253	0.1807	0.1716	0.05922	0.1241	0.2347	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3103	0.2827	0.5433	0.2386	0.04492	0.1338	
	k(pl)						

0.009585

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1107	0.2137	0	0.1783	0.1920	0.002998	0.01903	0.2832

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	731.1	0.03634	0.2277	0.9364	0.0090570	0.0008716	0.5380
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7254	0.1807	0.1715	0.05911	0.1241	0.2347	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3101	0.2826	0.5433	0.2390	0.04497	0.1331	
	k(pl)						

0.009599

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1107	0.2137	0	0.1784	0.1919	0.002998	0.01910	0.2832

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.22	731.1	0.03625	0.2277	0.9364	0.0090390	0.0008699	0.5380
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7255	0.1807	0.1713	0.05899	0.1241	0.2348	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3099	0.2824	0.5434	0.2394	0.04502	0.1325	
	k(pl)						

0.009614

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1107	0.2137	0	0.1785	0.1917	0.002997	0.01917	0.2832

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.24	731.1	0.03615	0.2277	0.9365	0.0090210	0.0008682	0.5380
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7257	0.1807	0.1711	0.05888	0.1241	0.2348	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3096	0.2822	0.5435	0.2398	0.04506	0.1318	
	k(pl)						

0.009628

mode	liq	bi	ep	g	pl	ru	ky	q
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0.1106 0.2137 0 0.1786 0.1916 0.002997 0.01924 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.26 731.0 0.03606 0.2277 0.9365 0.0090030.0008665 0.5380
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7258 0.1806 0.1709 0.05876 0.1241 0.2349
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3094 0.2821 0.5436 0.2402 0.04511 0.1311
k(pl)
0.009643

mode liq bi ep g pl ru ky q
0.1106 0.2137 0 0.1786 0.1914 0.002996 0.01932 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.28 731.0 0.03596 0.2277 0.9366 0.0089850.0008648 0.5380
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7259 0.1806 0.1708 0.05865 0.1241 0.2350
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3092 0.2819 0.5437 0.2406 0.04515 0.1305
k(pl)
0.009657

mode liq bi ep g pl ru ky q
0.1105 0.2137 0 0.1787 0.1913 0.002996 0.01939 0.2833

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.30 731.0 0.03587 0.2277 0.9367 0.0089660.0008631 0.5381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7260 0.1806 0.1706 0.05853 0.1242 0.2350
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3090 0.2817 0.5438 0.2410 0.04520 0.1298
k(pl)
0.00967

mode liq bi ep g pl ru ky q
0.1105 0.2137 0 0.1788 0.1912 0.002996 0.01946 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.32 731.0 0.03577 0.2277 0.9367 0.0089480.0008614 0.5381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7262 0.1805 0.1704 0.05842 0.1242 0.2351
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3087 0.2815 0.5439 0.2414 0.04524 0.1292
k(pl)
0.009684

mode liq bi ep g pl ru ky q
0.1105 0.2138 0 0.1788 0.1910 0.002995 0.01953 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.34 730.9 0.03568 0.2277 0.9368 0.0089300.0008597 0.5381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7263 0.1805 0.1702 0.05831 0.1242 0.2351
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3085 0.2814 0.5440 0.2418 0.04529 0.1285
k(pl)
0.009698

mode liq bi ep g pl ru ky q
0.1104 0.2138 0 0.1789 0.1909 0.002995 0.01960 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.36 730.9 0.03559 0.2277 0.9368 0.0089110.0008580 0.5381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7264 0.1805 0.1700 0.05820 0.1242 0.2352
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3083 0.2812 0.5441 0.2422 0.04533 0.1279
k(pl)
0.009711

mode liq bi ep g pl ru ky q
0.1104 0.2138 0 0.1790 0.1908 0.002995 0.01968 0.2834

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.38 730.8 0.03549 0.2277 0.9369 0.0088930.0008563 0.5381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7265 0.1805 0.1699 0.05809 0.1242 0.2353
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3081 0.2810 0.5442 0.2426 0.04537 0.1272
k(pl)
0.009724

mode liq bi ep g pl ru ky q
0.1103 0.2138 0 0.1790 0.1906 0.002994 0.01975 0.2835

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 730.8 0.03540 0.2277 0.9369 0.0088750.0008547 0.5381
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7266 0.1804 0.1697 0.05798 0.1242 0.2353
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3078 0.2809 0.5443 0.2430 0.04542 0.1266
k(pl)
0.009737

mode liq bi ep g pl ru ky q
0.1103 0.2138 0 0.1791 0.1905 0.002994 0.01982 0.2835

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.42 730.8 0.03531 0.2277 0.9370 0.0088560.0008530 0.5382

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7268 0.1804 0.1695 0.05787 0.1242 0.2354
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3076 0.2807 0.5444 0.2434 0.04546 0.1259
k(pl)

0.00975

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1102	0.2138	0	0.1792	0.1904	0.002994	0.01989	0.2835

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.44 730.7 0.03521 0.2277 0.9371 0.0088370.0008513 0.5382
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7269 0.1804 0.1693 0.05776 0.1242 0.2354
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3074 0.2806 0.5445 0.2438 0.04550 0.1253
k(pl)

0.009763

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1102	0.2138	0	0.1792	0.1903	0.002993	0.01996	0.2835

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.46 730.7 0.03512 0.2276 0.9371 0.0088190.0008496 0.5382
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7270 0.1804 0.1691 0.05765 0.1242 0.2355
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3072 0.2804 0.5446 0.2441 0.04555 0.1246
k(pl)

0.009775

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1102	0.2138	0	0.1793	0.1901	0.002993	0.02003	0.2836

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.48 730.7 0.03503 0.2276 0.9372 0.0088000.0008480 0.5382
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7272 0.1803 0.1689 0.05754 0.1242 0.2356
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3070 0.2802 0.5447 0.2445 0.04559 0.1240
k(pl)

0.009788

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1101	0.2138	0	0.1794	0.1900	0.002993	0.02010	0.2836

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 730.6 0.03493 0.2276 0.9372 0.0087820.0008463 0.5382
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7273 0.1803 0.1688 0.05744 0.1242 0.2356

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3067 0.2801 0.5448 0.2449 0.04563 0.1234
k(pl)

0.0098

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1101	0.2138	0	0.1794	0.1899	0.002992	0.02017	0.2836

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.52 730.6 0.03484 0.2276 0.9373 0.0087630.0008447 0.5383
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7274 0.1803 0.1686 0.05733 0.1242 0.2357
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3065 0.2799 0.5449 0.2453 0.04567 0.1227
k(pl)

0.009812

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1100	0.2139	0	0.1795	0.1897	0.002992	0.02024	0.2836

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.54 730.6 0.03475 0.2276 0.9374 0.0087440.0008430 0.5383
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7275 0.1802 0.1684 0.05722 0.1243 0.2358
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3063 0.2798 0.5450 0.2457 0.04572 0.1221
k(pl)

0.009824

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1100	0.2139	0	0.1796	0.1896	0.002992	0.02031	0.2837

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.56 730.5 0.03466 0.2276 0.9374 0.0087260.0008414 0.5383
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7277 0.1802 0.1682 0.05712 0.1243 0.2358
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3061 0.2796 0.5451 0.2460 0.04576 0.1215
k(pl)

0.009836

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1099	0.2139	0	0.1796	0.1895	0.002992	0.02038	0.2837

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.58 730.5 0.03457 0.2276 0.9375 0.0087070.0008397 0.5383
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7278 0.1802 0.1680 0.05701 0.1243 0.2359
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3059 0.2795 0.5452 0.2464 0.04580 0.1209

k(pl)

0.009847

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1099	0.2139	0	0.1797	0.1894	0.002991	0.02045	0.2837

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.60	730.4	0.03447	0.2276	0.9375	0.0086880	0.0008381	0.5383
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7279	0.1802	0.1678	0.05691	0.1243	0.2359
		f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)
		0.3057	0.2793	0.5453	0.2468	0.04584	0.1202

k(pl)

0.009858

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1099	0.2139	0	0.1797	0.1893	0.002991	0.02052	0.2838

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.62	730.4	0.03438	0.2275	0.9376	0.0086690	0.0008364	0.5383
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7281	0.1801	0.1676	0.05680	0.1243	0.2360
		f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)
		0.3055	0.2791	0.5454	0.2472	0.04588	0.1196

k(pl)

0.00987

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1098	0.2139	0	0.1798	0.1891	0.002991	0.02059	0.2838

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.64	730.3	0.03429	0.2275	0.9376	0.0086500	0.0008348	0.5384
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7282	0.1801	0.1675	0.05670	0.1243	0.2361
		f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)
		0.3053	0.2790	0.5455	0.2475	0.04592	0.1190

k(pl)

0.009881

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1098	0.2139	0	0.1799	0.1890	0.002991	0.02065	0.2838

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.66	730.3	0.03420	0.2275	0.9377	0.0086310	0.0008332	0.5384
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.7283	0.1801	0.1673	0.05660	0.1243	0.2361
		f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)
		0.3051	0.2788	0.5455	0.2479	0.04596	0.1184

k(pl)

0.009891

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1097	0.2139	0	0.1799	0.1889	0.002990	0.02072	0.2838

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.68	730.3	0.03411	0.2275	0.9378	0.0086120	0.0008315	0.5384
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7285	0.1801	0.1671	0.05650	0.1243	0.2362	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3049	0.2787	0.5456	0.2483	0.04600	0.1178	
	k(pl)						

0.009902

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1097	0.2139	0	0.1800	0.1888	0.002990	0.02079	0.2839

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.70	730.2	0.03402	0.2275	0.9378	0.0085940	0.0008299	0.5384
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7286	0.1800	0.1669	0.05639	0.1243	0.2363	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3047	0.2785	0.5457	0.2486	0.04604	0.1171	
	k(pl)						

0.009913

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1096	0.2140	0	0.1800	0.1887	0.002990	0.02086	0.2839

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.72	730.2	0.03393	0.2275	0.9379	0.0085750	0.0008283	0.5384
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7287	0.1800	0.1667	0.05629	0.1243	0.2363	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3045	0.2784	0.5458	0.2490	0.04608	0.1165	
	k(pl)						

0.009923

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1096	0.2140	0	0.1801	0.1885	0.002990	0.02093	0.2839

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.74	730.1	0.03384	0.2274	0.9379	0.0085560	0.0008267	0.5384
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7289	0.1800	0.1665	0.05619	0.1243	0.2364	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3043	0.2783	0.5459	0.2493	0.04612	0.1159	
	k(pl)						

0.009933

mode	liq	bi	ep	g	pl	ru	ky	q
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0.1095 0.2140 0 0.1801 0.1884 0.002990 0.02099 0.2839

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.76 730.1 0.03375 0.2274 0.9380 0.0085370.0008251 0.5385
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7290 0.1800 0.1663 0.05609 0.1243 0.2365
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3041 0.2781 0.5460 0.2497 0.04616 0.1153
k(pl)
0.009943

mode liq bi ep g pl ru ky q
0.1095 0.2140 0 0.1802 0.1883 0.002989 0.02106 0.2840

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.78 730.0 0.03366 0.2274 0.9381 0.0085180.0008234 0.5385
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7291 0.1799 0.1661 0.05599 0.1243 0.2365
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3039 0.2780 0.5461 0.2501 0.04620 0.1147
k(pl)
0.009953

mode liq bi ep g pl ru ky q
0.1094 0.2140 0 0.1803 0.1882 0.002989 0.02113 0.2840

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 730.0 0.03357 0.2274 0.9381 0.0084980.0008218 0.5385
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7293 0.1799 0.1659 0.05589 0.1243 0.2366
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3037 0.2778 0.5462 0.2504 0.04624 0.1141
k(pl)
0.009962

mode liq bi ep g pl ru ky q
0.1094 0.2140 0 0.1803 0.1881 0.002989 0.02119 0.2840

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.82 729.9 0.03348 0.2273 0.9382 0.0084790.0008202 0.5385
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7294 0.1799 0.1657 0.05580 0.1243 0.2367
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3035 0.2777 0.5463 0.2508 0.04628 0.1135
k(pl)
0.009972

mode liq bi ep g pl ru ky q
0.1093 0.2140 0 0.1804 0.1880 0.002989 0.02126 0.2840

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.84 729.9 0.03339 0.2273 0.9382 0.0084600.0008186 0.5385
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7295 0.1799 0.1655 0.05570 0.1243 0.2367
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3033 0.2775 0.5464 0.2511 0.04632 0.1129
k(pl)
0.009981

mode liq bi ep g pl ru ky q
0.1093 0.2140 0 0.1804 0.1879 0.002989 0.02133 0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.86 729.8 0.03330 0.2273 0.9383 0.0084410.0008170 0.5386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7297 0.1799 0.1654 0.05560 0.1243 0.2368
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3031 0.2774 0.5465 0.2515 0.04636 0.1123
k(pl)
0.00999

mode liq bi ep g pl ru ky q
0.1092 0.2141 0 0.1805 0.1878 0.002989 0.02139 0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.88 729.8 0.03321 0.2273 0.9384 0.0084220.0008154 0.5386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7298 0.1798 0.1652 0.05550 0.1243 0.2369
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3029 0.2773 0.5466 0.2518 0.04640 0.1117
k(pl)
0.009999

mode liq bi ep g pl ru ky q
0.1092 0.2141 0 0.1805 0.1876 0.002988 0.02146 0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90 729.7 0.03312 0.2272 0.9384 0.0084030.0008138 0.5386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7300 0.1798 0.1650 0.05541 0.1243 0.2369
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3028 0.2771 0.5467 0.2522 0.04644 0.1111
k(pl)
0.01001

mode liq bi ep g pl ru ky q
0.1092 0.2141 0 0.1806 0.1875 0.002988 0.02152 0.2841

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.92 729.7 0.03303 0.2272 0.9385 0.0083840.0008123 0.5386

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7301 0.1798 0.1648 0.05531 0.1243 0.2370
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3026 0.2770 0.5468 0.2525 0.04647 0.1106
k(pl)

0.01002

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1091	0.2141	0	0.1806	0.1874	0.002988	0.02159	0.2842

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.94 729.6 0.03294 0.2272 0.9385 0.0083650.0008107 0.5386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7302 0.1798 0.1646 0.05522 0.1243 0.2371
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3024 0.2768 0.5469 0.2529 0.04651 0.1100
k(pl)

0.01002

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1091	0.2141	0	0.1807	0.1873	0.002988	0.02165	0.2842

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.96 729.6 0.03285 0.2272 0.9386 0.0083450.0008091 0.5386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7304 0.1797 0.1644 0.05512 0.1243 0.2372
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3022 0.2767 0.5470 0.2532 0.04655 0.1094
k(pl)

0.01003

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1090	0.2141	0	0.1807	0.1872	0.002988	0.02172	0.2842

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.98 729.5 0.03276 0.2271 0.9387 0.0083260.0008075 0.5387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7305 0.1797 0.1642 0.05503 0.1243 0.2372
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3020 0.2766 0.5471 0.2535 0.04659 0.1088
k(pl)

0.01004

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1090	0.2141	0	0.1808	0.1871	0.002988	0.02178	0.2842

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 729.5 0.03267 0.2271 0.9387 0.0083070.0008059 0.5387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7307 0.1797 0.1640 0.05493 0.1243 0.2373

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3018 0.2764 0.5472 0.2539 0.04662 0.1082
k(pl)

0.01005

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1089	0.2141	0	0.1808	0.1870	0.002988	0.02185	0.2843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.02 729.4 0.03259 0.2271 0.9388 0.0082880.0008044 0.5387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7308 0.1797 0.1638 0.05484 0.1243 0.2374
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3017 0.2763 0.5473 0.2542 0.04666 0.1077
k(pl)

0.01006

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1089	0.2142	0	0.1809	0.1869	0.002988	0.02191	0.2843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.04 729.4 0.03250 0.2270 0.9388 0.0082680.0008028 0.5387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7309 0.1796 0.1636 0.05475 0.1243 0.2374
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3015 0.2762 0.5474 0.2545 0.04670 0.1071
k(pl)

0.01006

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1088	0.2142	0	0.1809	0.1868	0.002987	0.02198	0.2843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.06 729.3 0.03241 0.2270 0.9389 0.0082490.0008012 0.5387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7311 0.1796 0.1634 0.05465 0.1243 0.2375
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3013 0.2760 0.5475 0.2549 0.04674 0.1065
k(pl)

0.01007

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1088	0.2142	0	0.1810	0.1867	0.002987	0.02204	0.2843

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.08 729.2 0.03232 0.2270 0.9390 0.0082300.0007997 0.5387
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7312 0.1796 0.1632 0.05456 0.1243 0.2376
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3011 0.2759 0.5476 0.2552 0.04677 0.1060

k(pl)

0.01008

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1087	0.2142	0	0.1810	0.1866	0.002987	0.02211	0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 729.2 0.03224 0.2270 0.9390 0.0082100.0007981 0.5388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7314 0.1796 0.1630 0.05447 0.1243 0.2377
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3010 0.2758 0.5477 0.2555 0.04681 0.1054
k(pl)

0.01009

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1087	0.2142	0	0.1811	0.1865	0.002987	0.02217	0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.12 729.1 0.03215 0.2269 0.9391 0.0081910.0007966 0.5388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7315 0.1796 0.1628 0.05438 0.1243 0.2377
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3008 0.2756 0.5478 0.2559 0.04685 0.1048
k(pl)

0.01009

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1086	0.2142	0	0.1811	0.1864	0.002987	0.02223	0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.14 729.1 0.03206 0.2269 0.9391 0.0081720.0007950 0.5388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7317 0.1795 0.1626 0.05429 0.1243 0.2378
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3006 0.2755 0.5479 0.2562 0.04688 0.1043
k(pl)

0.0101

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1086	0.2142	0	0.1812	0.1863	0.002987	0.02230	0.2844

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.16 729.0 0.03197 0.2269 0.9392 0.0081520.0007935 0.5388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7318 0.1795 0.1624 0.05420 0.1243 0.2379
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.3005 0.2754 0.5480 0.2565 0.04692 0.1037
k(pl)

0.01011

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1085	0.2143	0	0.1812	0.1862	0.002987	0.02236	0.2845

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.18	729.0	0.03189	0.2268	0.9393	0.0081330	0.0007919	0.5388
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7320	0.1795	0.1622	0.05411	0.1243	0.2380	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3003	0.2753	0.5481	0.2568	0.04695	0.1031	
	k(pl)						
	0.01011						

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1085	0.2143	0	0.1813	0.1861	0.002987	0.02242	0.2845

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.20	728.9	0.03180	0.2268	0.9393	0.0081140	0.0007904	0.5388
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7321	0.1795	0.1620	0.05402	0.1243	0.2380	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3001	0.2751	0.5482	0.2572	0.04699	0.1026	
	k(pl)						
	0.01012						

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1084	0.2143	0	0.1813	0.1860	0.002987	0.02248	0.2845

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.22	728.8	0.03171	0.2267	0.9394	0.0080940	0.0007889	0.5389
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7322	0.1794	0.1618	0.05393	0.1243	0.2381	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.3000	0.2750	0.5483	0.2575	0.04702	0.1020	
	k(pl)						
	0.01012						

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1084	0.2143	0	0.1814	0.1859	0.002987	0.02255	0.2845

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.24	728.8	0.03163	0.2267	0.9394	0.0080750	0.0007873	0.5389
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7324	0.1794	0.1616	0.05384	0.1243	0.2382	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2998	0.2749	0.5484	0.2578	0.04706	0.1015	
	k(pl)						
	0.01013						

mode	liq	bi	ep	g	pl	ru	ky	q
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0.1083 0.2143 0 0.1814 0.1858 0.002987 0.02261 0.2846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.26 728.7 0.03154 0.2267 0.9395 0.0080560.0007858 0.5389
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7325 0.1794 0.1614 0.05375 0.1243 0.2383
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2996 0.2748 0.5485 0.2581 0.04710 0.1009
k(pl)
0.01014

mode liq bi ep g pl ru ky q
0.1083 0.2143 0 0.1815 0.1857 0.002987 0.02267 0.2846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.28 728.7 0.03146 0.2266 0.9396 0.0080360.0007843 0.5389
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7327 0.1794 0.1612 0.05367 0.1243 0.2383
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2995 0.2747 0.5486 0.2584 0.04713 0.1004
k(pl)
0.01014

mode liq bi ep g pl ru ky q
0.1082 0.2143 0 0.1815 0.1856 0.002987 0.02273 0.2846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.30 728.6 0.03137 0.2266 0.9396 0.0080170.0007828 0.5389
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7328 0.1794 0.1610 0.05358 0.1243 0.2384
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2993 0.2745 0.5487 0.2587 0.04717 0.09986
k(pl)
0.01015

mode liq bi ep g pl ru ky q
0.1082 0.2143 0 0.1816 0.1855 0.002987 0.02279 0.2846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.32 728.5 0.03129 0.2266 0.9397 0.0079970.0007812 0.5389
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7330 0.1793 0.1608 0.05349 0.1243 0.2385
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2991 0.2744 0.5488 0.2591 0.04720 0.09932
k(pl)
0.01015

mode liq bi ep g pl ru ky q
0.1081 0.2144 0 0.1816 0.1854 0.002987 0.02286 0.2846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.34 728.5 0.03120 0.2265 0.9397 0.0079780.0007797 0.5390
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7331 0.1793 0.1606 0.05341 0.1243 0.2386
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.2990 0.2743 0.5489 0.2594 0.04724 0.09879
 k(pl)
 0.01016

mode liq bi ep g pl ru ky q
 0.1081 0.2144 0 0.1816 0.1853 0.002987 0.02292 0.2847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.36 728.4 0.03111 0.2265 0.9398 0.0079590.0007782 0.5390
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7333 0.1793 0.1604 0.05332 0.1243 0.2386
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.2988 0.2742 0.5490 0.2597 0.04727 0.09825
 k(pl)
 0.01016

mode liq bi ep g pl ru ky q
 0.1080 0.2144 0 0.1817 0.1853 0.002987 0.02298 0.2847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.38 728.3 0.03103 0.2264 0.9399 0.0079390.0007767 0.5390
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7334 0.1793 0.1602 0.05324 0.1242 0.2387
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.2987 0.2741 0.5491 0.2600 0.04730 0.09772
 k(pl)
 0.01017

mode liq bi ep g pl ru ky q
 0.1080 0.2144 0 0.1817 0.1852 0.002987 0.02304 0.2847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.40 728.3 0.03094 0.2264 0.9399 0.0079200.0007752 0.5390
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.7336 0.1793 0.1600 0.05315 0.1242 0.2388
 f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
 0.2985 0.2739 0.5492 0.2603 0.04734 0.09719
 k(pl)
 0.01017

mode liq bi ep g pl ru ky q
 0.1079 0.2144 0 0.1818 0.1851 0.002987 0.02310 0.2847

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 17.42 728.2 0.03086 0.2263 0.9400 0.0079000.0007737 0.5390

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7337 0.1792 0.1598 0.05307 0.1242 0.2389
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2984 0.2738 0.5493 0.2606 0.04737 0.09666
k(pl)

0.01017

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1078	0.2144	0	0.1818	0.1850	0.002987	0.02316	0.2848

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.44 728.2 0.03078 0.2263 0.9400 0.0078810.0007722 0.5390
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7339 0.1792 0.1596 0.05298 0.1242 0.2389
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2982 0.2737 0.5494 0.2609 0.04741 0.09613
k(pl)

0.01018

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1078	0.2145	0	0.1819	0.1849	0.002987	0.02322	0.2848

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.46 728.1 0.03069 0.2263 0.9401 0.0078620.0007707 0.5391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7340 0.1792 0.1594 0.05290 0.1242 0.2390
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2981 0.2736 0.5495 0.2612 0.04744 0.09561
k(pl)

0.01018

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1077	0.2145	0	0.1819	0.1848	0.002987	0.02328	0.2848

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.48 728.0 0.03061 0.2262 0.9402 0.0078420.0007692 0.5391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7342 0.1792 0.1592 0.05281 0.1242 0.2391
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2979 0.2735 0.5496 0.2615 0.04748 0.09509
k(pl)

0.01019

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1077	0.2145	0	0.1819	0.1847	0.002987	0.02334	0.2848

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.50 728.0 0.03052 0.2262 0.9402 0.0078230.0007677 0.5391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7343 0.1792 0.1589 0.05273 0.1242 0.2392

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2978 0.2734 0.5497 0.2618 0.04751 0.09457
k(pl)

0.01019

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1076	0.2145	0	0.1820	0.1846	0.002987	0.02340	0.2849

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.52 727.9 0.03044 0.2261 0.9403 0.0078030.0007663 0.5391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7345 0.1791 0.1587 0.05265 0.1242 0.2393
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2976 0.2733 0.5498 0.2621 0.04754 0.09405
k(pl)

0.01019

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1076	0.2145	0	0.1820	0.1846	0.002987	0.02346	0.2849

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.54 727.8 0.03036 0.2261 0.9403 0.0077840.0007648 0.5391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7347 0.1791 0.1585 0.05257 0.1242 0.2393
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2975 0.2732 0.5499 0.2624 0.04758 0.09354
k(pl)

0.0102

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1075	0.2145	0	0.1821	0.1845	0.002987	0.02352	0.2849

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.56 727.7 0.03027 0.2260 0.9404 0.0077650.0007633 0.5391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7348 0.1791 0.1583 0.05249 0.1242 0.2394
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2973 0.2731 0.5500 0.2627 0.04761 0.09303
k(pl)

0.0102

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1075	0.2145	0	0.1821	0.1844	0.002987	0.02358	0.2849

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.58 727.7 0.03019 0.2260 0.9405 0.0077450.0007618 0.5391
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7350 0.1791 0.1581 0.05240 0.1242 0.2395
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2972 0.2729 0.5501 0.2630 0.04764 0.09252

k(pl)

0.0102

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1074	0.2146	0	0.1821	0.1843	0.002987	0.02364	0.2849

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.60	727.6	0.03011	0.2259	0.9405	0.0077260	0.0007604	0.5392
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7351	0.1791	0.1579	0.05232	0.1242	0.2396	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2970	0.2728	0.5502	0.2633	0.04768	0.09201	

k(pl)

0.0102

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1074	0.2146	0	0.1822	0.1842	0.002988	0.02370	0.2850

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.62	727.5	0.03002	0.2259	0.9406	0.0077060	0.0007589	0.5392
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7353	0.1790	0.1577	0.05224	0.1242	0.2397	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2969	0.2727	0.5503	0.2636	0.04771	0.09150	

k(pl)

0.01021

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1073	0.2146	0	0.1822	0.1841	0.002988	0.02376	0.2850

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.64	727.5	0.02994	0.2258	0.9406	0.0076870	0.0007574	0.5392
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7354	0.1790	0.1575	0.05216	0.1241	0.2397	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2967	0.2726	0.5504	0.2639	0.04774	0.09100	

k(pl)

0.01021

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1073	0.2146	0	0.1822	0.1841	0.002988	0.02382	0.2850

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.66	727.4	0.02986	0.2258	0.9407	0.0076680	0.0007560	0.5392
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7356	0.1790	0.1573	0.05208	0.1241	0.2398	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2966	0.2725	0.5505	0.2641	0.04777	0.09050	

k(pl)

0.01021

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1072	0.2146	0	0.1823	0.1840	0.002988	0.02387	0.2850

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.68	727.3	0.02977	0.2257	0.9408	0.0076480	0.0007545	0.5392
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7357	0.1790	0.1571	0.05200	0.1241	0.2399	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2965	0.2724	0.5506	0.2644	0.04781	0.09000	
	k(pl)						
	0.01021						

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1072	0.2146	0	0.1823	0.1839	0.002988	0.02393	0.2851

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.70	727.2	0.02969	0.2257	0.9408	0.0076290	0.0007531	0.5392
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7359	0.1790	0.1569	0.05192	0.1241	0.2400	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2963	0.2723	0.5507	0.2647	0.04784	0.08951	
	k(pl)						
	0.01022						

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1071	0.2147	0	0.1824	0.1838	0.002988	0.02399	0.2851

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.72	727.2	0.02961	0.2256	0.9409	0.0076090	0.0007516	0.5393
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7361	0.1789	0.1567	0.05184	0.1241	0.2401	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2962	0.2722	0.5508	0.2650	0.04787	0.08901	
	k(pl)						
	0.01022						

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1070	0.2147	0	0.1824	0.1838	0.002988	0.02405	0.2851

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.74	727.1	0.02953	0.2256	0.9409	0.0075900	0.0007502	0.5393
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7362	0.1789	0.1564	0.05177	0.1241	0.2401	
	f(ep)	Q(ep)	x(g)	z(g)	f(g)	ca(pl)	
	0.2961	0.2721	0.5509	0.2653	0.04790	0.08852	
	k(pl)						
	0.01022						

mode	liq	bi	ep	g	pl	ru	ky	q
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0.1070 0.2147 0 0.1824 0.1837 0.002988 0.02411 0.2851

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.76 727.0 0.02945 0.2255 0.9410 0.0075710.0007487 0.5393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7364 0.1789 0.1562 0.05169 0.1241 0.2402
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2959 0.2720 0.5510 0.2656 0.04794 0.08803
k(pl)
0.01022

mode liq bi ep g pl ru ky q
0.1069 0.2147 0 0.1825 0.1836 0.002988 0.02416 0.2851

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.78 727.0 0.02936 0.2255 0.9411 0.0075510.0007473 0.5393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7365 0.1789 0.1560 0.05161 0.1241 0.2403
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2958 0.2719 0.5511 0.2658 0.04797 0.08754
k(pl)
0.01022

mode liq bi ep g pl ru ky q
0.1069 0.2147 0 0.1825 0.1835 0.002989 0.02422 0.2852

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.80 726.9 0.02928 0.2254 0.9411 0.0075320.0007459 0.5393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7367 0.1789 0.1558 0.05153 0.1241 0.2404
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2957 0.2718 0.5512 0.2661 0.04800 0.08706
k(pl)
0.01022

mode liq bi ep g pl ru ky q
0.1068 0.2147 0 0.1825 0.1835 0.002989 0.02428 0.2852

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.82 726.8 0.02920 0.2254 0.9412 0.0075130.0007444 0.5393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7368 0.1789 0.1556 0.05146 0.1241 0.2405
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2955 0.2717 0.5513 0.2664 0.04803 0.08658
k(pl)
0.01022

mode liq bi ep g pl ru ky q
0.1068 0.2148 0 0.1826 0.1834 0.002989 0.02433 0.2852

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.84 726.7 0.02912 0.2253 0.9412 0.0074930.0007430 0.5393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7370 0.1788 0.1554 0.05138 0.1240 0.2406
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2954 0.2716 0.5514 0.2667 0.04806 0.08610
k(pl)
0.01022

mode liq bi ep g pl ru ky q
0.1067 0.2148 0 0.1826 0.1833 0.002989 0.02439 0.2852

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.86 726.7 0.02904 0.2253 0.9413 0.0074740.0007416 0.5394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7372 0.1788 0.1552 0.05130 0.1240 0.2406
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2953 0.2715 0.5515 0.2670 0.04810 0.08562
k(pl)
0.01022

mode liq bi ep g pl ru ky q
0.1067 0.2148 0 0.1826 0.1832 0.002989 0.02445 0.2853

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.88 726.6 0.02896 0.2252 0.9413 0.0074550.0007401 0.5394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7373 0.1788 0.1550 0.05123 0.1240 0.2407
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2951 0.2714 0.5516 0.2672 0.04813 0.08514
k(pl)
0.01022

mode liq bi ep g pl ru ky q
0.1066 0.2148 0 0.1827 0.1832 0.002989 0.02450 0.2853

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.90 726.5 0.02888 0.2251 0.9414 0.0074350.0007387 0.5394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7375 0.1788 0.1547 0.05115 0.1240 0.2408
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2950 0.2713 0.5517 0.2675 0.04816 0.08467
k(pl)
0.01022

mode liq bi ep g pl ru ky q
0.1065 0.2148 0 0.1827 0.1831 0.002990 0.02456 0.2853

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.92 726.4 0.02880 0.2251 0.9415 0.0074160.0007373 0.5394

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7376 0.1788 0.1545 0.05108 0.1240 0.2409
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2949 0.2712 0.5518 0.2678 0.04819 0.08420
k(pl)

0.01022

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1065	0.2148	0	0.1827	0.1830	0.002990	0.02462	0.2853

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.94 726.3 0.02872 0.2250 0.9415 0.0073970.0007359 0.5394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7378 0.1787 0.1543 0.05100 0.1240 0.2410
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2948 0.2711 0.5519 0.2680 0.04822 0.08373
k(pl)

0.01022

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1064	0.2149	0	0.1828	0.1830	0.002990	0.02467	0.2853

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.96 726.3 0.02864 0.2250 0.9416 0.0073780.0007345 0.5394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7380 0.1787 0.1541 0.05093 0.1240 0.2411
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2946 0.2711 0.5521 0.2683 0.04825 0.08326
k(pl)

0.01022

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1064	0.2149	0	0.1828	0.1829	0.002990	0.02473	0.2854

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.98 726.2 0.02856 0.2249 0.9416 0.0073580.0007331 0.5394
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7381 0.1787 0.1539 0.05085 0.1240 0.2411
f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2945 0.2710 0.5522 0.2686 0.04828 0.08279
k(pl)

0.01022

mode	liq	bi	ep	g	pl	ru	ky	q
	0.1063	0.2149	0	0.1828	0.1828	0.002990	0.02478	0.2854

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.00 726.1 0.02848 0.2248 0.9417 0.0073390.0007317 0.5395
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7383 0.1787 0.1537 0.05078 0.1239 0.2412

f(ep) Q(ep) x(g) z(g) f(g) ca(pl)
0.2944 0.2709 0.5523 0.2688 0.04832 0.08233
k(pl)

0.01022

mode liq bi ep g pl ru ky q
0.1063 0.2149 0 0.1828 0.1827 0.002991 0.02484 0.2854

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, ep, g, mu, pl, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.15 749.2 0.03567 0.2353 0.9189 0.011200.0007330 0.5395
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7163 0.1732 0.2077 0.06234 0.1335 0.2100
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.3013 0.2743 0.5252 0.2316 0.04183 0.1763
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9908 0.8684 0.1348 0.01353 0.09720 0.2028

mode liq bi ep g mu pl ru q
0.09720 0.2028 0 0.1907 0.04663 0.1689 0.002905 0.2909

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 746.2 0.03489 0.2342 0.9223 0.010660.0007400 0.5396
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7188 0.1741 0.1998 0.06024 0.1322 0.2146
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2991 0.2729 0.5294 0.2385 0.04285 0.1764
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9920 0.8964 0.1285 0.01306 0.09374 0.2049

mode liq bi ep g mu pl ru q
0.09374 0.2049 0 0.1896 0.05150 0.1649 0.002906 0.2924

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.25 739.4 0.03342 0.2313 0.9298 0.0095670.0007579 0.5386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7244 0.1757 0.1830 0.05644 0.1292 0.2241
f(ep) Q(ep) x(g) z(g) f(g) fe(mu)
0.2963 0.2713 0.5368 0.2505 0.04481 0.1760
y(mu) na(mu) ca(pl) k(pl) liq bi
0.9929 0.9250 0.1167 0.01185 0.08741 0.2081

mode liq bi ep g mu pl ru q
0.08741 0.2081 0 0.1878 0.06059 0.1581 0.002941 0.2950

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, ky, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.15	882.9	0.06505	0.3056	0.7552	0.02932	0.002420	0.5702
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5948	0.1624	0.2270	0.06685	0.1965	0.1593	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4420	0.1579	0.04034	0.1594	0.07464	0.3691	
	Q(ilm)						

2.58E-05

mode	liq	bi	g	pl	ilm	ru	ky	q
	0.1973	0.1451	0.2301	0.1751		0	0.002675	0 0.2497

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ru, ky, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.00	880.8	0.06520	0.3048	0.7588	0.02905	0.002414	0.5706
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5957	0.1634	0.2275	0.06742	0.1953	0.1602	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq	
	0.4440	0.1573	0.04026	0.1643	0.07099	0.1958	

mode	liq	bi	g	pl	ru	ky	q
	0.1958	0.1474	0.2278	0.1759	0.002639	0	0.2505

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.05	881.5	0.06515	0.3051	0.7576	0.02914	0.002416	0.5705
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5954	0.1631	0.2273	0.06723	0.1957	0.1599	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq	
	0.4434	0.1575	0.04029	0.1627	0.07219	0.1963	

mode	liq	bi	g	pl	ru	ky	q
	0.1963	0.1467	0.2286	0.1756	0.002651	0	0.2502

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.10	882.2	0.06510	0.3054	0.7564	0.02923	0.002418	0.5703

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5951 0.1628 0.2271 0.06704 0.1962 0.1596
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4427 0.1577 0.04032 0.1610 0.07341 0.1968

mode liq bi g pl ru ky q
0.1968 0.1459 0.2294 0.1753 0.002663 0 0.2500

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.15 882.9 0.06505 0.3056 0.7552 0.02932 0.002420 0.5702
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5948 0.1624 0.2270 0.06685 0.1965 0.1593
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4420 0.1579 0.04034 0.1594 0.07464 0.1973

mode liq bi g pl ru ky q
0.1973 0.1451 0.2301 0.1751 0.002675 0 0.2497

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.20 883.6 0.06499 0.3059 0.7541 0.02940 0.002421 0.5700
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5945 0.1621 0.2268 0.06666 0.1969 0.1590
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4413 0.1581 0.04037 0.1577 0.07588 0.1978

mode liq bi g pl ru ky q
0.1978 0.1444 0.2309 0.1748 0.002687 0 0.2495

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.25 884.2 0.06493 0.3062 0.7530 0.02948 0.002422 0.5698
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5943 0.1618 0.2266 0.06647 0.1973 0.1587
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4407 0.1583 0.04040 0.1561 0.07715 0.1983

mode liq bi g pl ru ky q
0.1983 0.1436 0.2316 0.1745 0.002700 0 0.2492

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.30 884.9 0.06486 0.3064 0.7519 0.02956 0.002424 0.5697
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5940 0.1614 0.2264 0.06629 0.1977 0.1583
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4400 0.1585 0.04042 0.1544 0.07842 0.1988

mode liq bi g pl ru ky q
0.1988 0.1428 0.2324 0.1743 0.002712 0 0.2490

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.35 885.5 0.06480 0.3067 0.7508 0.02964 0.002425 0.5695

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.5938	0.1611	0.2262	0.06610	0.1981	0.1581
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq
0.4393	0.1586	0.04044	0.1528	0.07972	0.1993

mode	liq	bi	g	pl	ru	ky	q
	0.1993	0.1421	0.2331	0.1741	0.002725	0	0.2487

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.40	886.1	0.06472	0.3069	0.7498	0.02971	0.002426	0.5694
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5935	0.1608	0.2260	0.06592	0.1985	0.1578		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4387	0.1588	0.04047	0.1511	0.08103	0.1997		

mode	liq	bi	g	pl	ru	ky	q
	0.1997	0.1413	0.2339	0.1738	0.002738	0	0.2485

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.45	886.8	0.06465	0.3071	0.7488	0.02978	0.002427	0.5692
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5933	0.1605	0.2258	0.06574	0.1988	0.1575		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4380	0.1590	0.04049	0.1495	0.08236	0.2002		

mode	liq	bi	g	pl	ru	ky	q
	0.2002	0.1405	0.2346	0.1736	0.002751	0	0.2483

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.50	887.4	0.06457	0.3074	0.7478	0.02985	0.002427	0.5690
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5931	0.1601	0.2256	0.06556	0.1992	0.1572		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4374	0.1592	0.04051	0.1479	0.08370	0.2006		

mode	liq	bi	g	pl	ru	ky	q
	0.2006	0.1398	0.2354	0.1734	0.002764	0	0.2480

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.55	888.0	0.06449	0.3076	0.7468	0.02992	0.002428	0.5688
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5929	0.1598	0.2254	0.06538	0.1995	0.1569		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4367	0.1594	0.04053	0.1462	0.08507	0.2011		

mode	liq	bi	g	pl	ru	ky	q
	0.2011	0.1390	0.2361	0.1732	0.002778	0	0.2478

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.60	888.6	0.06441	0.3078	0.7459	0.02998	0.002428	0.5687

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5927 0.1595 0.2252 0.06520 0.1999 0.1566
 x(g) z(g) f(g) ca(pl) k(pl) liq
 0.4361 0.1595 0.04055 0.1446 0.08645 0.2015

mode liq bi g pl ru ky q
 0.2015 0.1383 0.2369 0.1730 0.002792 0 0.2476

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.65 889.1 0.06432 0.3080 0.7450 0.03004 0.002428 0.5685
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5926 0.1592 0.2249 0.06502 0.2002 0.1564
 x(g) z(g) f(g) ca(pl) k(pl) liq
 0.4355 0.1597 0.04057 0.1429 0.08784 0.2019

mode liq bi g pl ru ky q
 0.2019 0.1375 0.2376 0.1728 0.002805 0 0.2473

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.70 889.7 0.06423 0.3082 0.7441 0.03010 0.002429 0.5683
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5924 0.1588 0.2247 0.06484 0.2006 0.1561
 x(g) z(g) f(g) ca(pl) k(pl) liq
 0.4348 0.1599 0.04058 0.1413 0.08926 0.2024

mode liq bi g pl ru ky q
 0.2024 0.1367 0.2384 0.1726 0.002819 0 0.2471

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.75 890.3 0.06414 0.3084 0.7432 0.03016 0.002429 0.5681
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5923 0.1585 0.2245 0.06467 0.2009 0.1558
 x(g) z(g) f(g) ca(pl) k(pl) liq
 0.4342 0.1600 0.04060 0.1397 0.09069 0.2028

mode liq bi g pl ru ky q
 0.2028 0.1360 0.2391 0.1724 0.002833 0 0.2469

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.80 890.8 0.06404 0.3086 0.7424 0.03021 0.002428 0.5679
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5922 0.1582 0.2242 0.06449 0.2012 0.1556
 x(g) z(g) f(g) ca(pl) k(pl) liq
 0.4335 0.1602 0.04062 0.1380 0.09215 0.2032

mode liq bi g pl ru ky q
 0.2032 0.1352 0.2398 0.1722 0.002847 0 0.2467

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.85 891.4 0.06394 0.3088 0.7416 0.03026 0.002428 0.5678

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
0.5920	0.1579	0.2240	0.06432	0.2015	0.1553	
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq	
0.4329	0.1604	0.04063	0.1364	0.09362	0.2036	

mode	liq	bi	g	pl	ru	ky	q
	0.2036	0.1345	0.2406	0.1721	0.002861	0	0.2464

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.90	891.9	0.06384	0.3089	0.7408	0.03031	0.002428	0.5676
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5919	0.1576	0.2237	0.06415	0.2018	0.1551		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4323	0.1605	0.04064	0.1348	0.09511	0.2039		

mode	liq	bi	g	pl	ru	ky	q
	0.2039	0.1337	0.2413	0.1719	0.002876	0	0.2462

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.95	892.4	0.06373	0.3091	0.7401	0.03035	0.002427	0.5674
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5918	0.1572	0.2235	0.06398	0.2021	0.1548		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4317	0.1607	0.04066	0.1332	0.09663	0.2043		

mode	liq	bi	g	pl	ru	ky	q
	0.2043	0.1330	0.2421	0.1717	0.002890	0	0.2460

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.00	892.9	0.06362	0.3093	0.7394	0.03039	0.002427	0.5672
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5918	0.1569	0.2232	0.06381	0.2024	0.1546		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4311	0.1608	0.04067	0.1316	0.09816	0.2047		

mode	liq	bi	g	pl	ru	ky	q
	0.2047	0.1322	0.2428	0.1716	0.002905	0	0.2458

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.05	893.4	0.06351	0.3094	0.7387	0.03043	0.002426	0.5670
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5917	0.1566	0.2230	0.06364	0.2027	0.1543		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4304	0.1610	0.04068	0.1300	0.09971	0.2050		

mode	liq	bi	g	pl	ru	ky	q
	0.2050	0.1315	0.2435	0.1714	0.002920	0	0.2456

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.10	893.9	0.06339	0.3096	0.7381	0.03047	0.002425	0.5668

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.5916	0.1563	0.2227	0.06347	0.2030	0.1541
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq
0.4298	0.1611	0.04069	0.1283	0.1013	0.2054

mode	liq	bi	g	pl	ru	ky	q
	0.2054	0.1308	0.2442	0.1713	0.002935	0	0.2454

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.15	894.4	0.06327	0.3097	0.7375	0.03051	0.002424	0.5666
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5916	0.1560	0.2225	0.06330	0.2033	0.1538		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4292	0.1613	0.04070	0.1267	0.1029	0.2057		

mode	liq	bi	g	pl	ru	ky	q
	0.2057	0.1300	0.2450	0.1712	0.002949	0	0.2452

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.20	894.9	0.06315	0.3099	0.7369	0.03054	0.002423	0.5664
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5916	0.1557	0.2222	0.06314	0.2036	0.1536		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4286	0.1614	0.04071	0.1251	0.1045	0.2061		

mode	liq	bi	g	pl	ru	ky	q
	0.2061	0.1293	0.2457	0.1710	0.002965	0	0.2450

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.25	895.4	0.06302	0.3100	0.7364	0.03057	0.002422	0.5662
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5915	0.1554	0.2219	0.06297	0.2039	0.1534		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4280	0.1616	0.04072	0.1236	0.1061	0.2064		

mode	liq	bi	g	pl	ru	ky	q
	0.2064	0.1285	0.2464	0.1709	0.002980	0	0.2448

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.30	895.9	0.06289	0.3102	0.7358	0.03059	0.002420	0.5660
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5915	0.1550	0.2216	0.06281	0.2042	0.1531		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4274	0.1617	0.04073	0.1220	0.1078	0.2067		

mode	liq	bi	g	pl	ru	ky	q
	0.2067	0.1278	0.2471	0.1708	0.002995	0	0.2446

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.35	896.3	0.06276	0.3103	0.7354	0.03062	0.002419	0.5658

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.5915	0.1547	0.2214	0.06264	0.2044	0.1529
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq
0.4268	0.1619	0.04074	0.1204	0.1095	0.2070

mode	liq	bi	g	pl	ru	ky	q
	0.2070	0.1271	0.2479	0.1707	0.003010	0	0.2444

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.40	896.8	0.06262	0.3104	0.7349	0.03064	0.002417	0.5656
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5915	0.1544	0.2211	0.06248	0.2047	0.1527		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4262	0.1620	0.04075	0.1188	0.1112	0.2073		

mode	liq	bi	g	pl	ru	ky	q
	0.2073	0.1263	0.2486	0.1705	0.003026	0	0.2442

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.45	897.2	0.06248	0.3105	0.7345	0.03066	0.002415	0.5654
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5915	0.1541	0.2208	0.06232	0.2049	0.1525		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4256	0.1622	0.04076	0.1172	0.1130	0.2076		

mode	liq	bi	g	pl	ru	ky	q
	0.2076	0.1256	0.2493	0.1704	0.003041	0	0.2440

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.50	897.6	0.06234	0.3106	0.7342	0.03067	0.002414	0.5652
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5916	0.1538	0.2205	0.06216	0.2052	0.1523		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4250	0.1623	0.04076	0.1157	0.1147	0.2079		

mode	liq	bi	g	pl	ru	ky	q
	0.2079	0.1249	0.2500	0.1703	0.003057	0	0.2438

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.55	898.1	0.06219	0.3108	0.7339	0.03069	0.002412	0.5650
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5916	0.1535	0.2202	0.06200	0.2054	0.1520		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4245	0.1624	0.04077	0.1141	0.1165	0.2082		

mode	liq	bi	g	pl	ru	ky	q
	0.2082	0.1241	0.2507	0.1702	0.003073	0	0.2436

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.60	898.5	0.06204	0.3109	0.7336	0.03070	0.002410	0.5648

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5917 0.1532 0.2199 0.06184 0.2057 0.1518
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4239 0.1626 0.04077 0.1126 0.1183 0.2084

mode liq bi g pl ru ky q
0.2084 0.1234 0.2514 0.1702 0.003088 0 0.2435

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.65 898.9 0.06189 0.3110 0.7333 0.03070 0.002407 0.5646
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5917 0.1529 0.2196 0.06168 0.2059 0.1516
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4233 0.1627 0.04078 0.1110 0.1202 0.2087

mode liq bi g pl ru ky q
0.2087 0.1227 0.2521 0.1701 0.003104 0 0.2433

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.70 899.3 0.06173 0.3111 0.7331 0.03071 0.002405 0.5644
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5918 0.1526 0.2193 0.06152 0.2061 0.1514
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4227 0.1629 0.04078 0.1095 0.1220 0.2090

mode liq bi g pl ru ky q
0.2090 0.1220 0.2528 0.1700 0.003120 0 0.2431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.75 899.7 0.06157 0.3112 0.7330 0.03071 0.002403 0.5642
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5919 0.1523 0.2190 0.06136 0.2064 0.1512
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4222 0.1630 0.04078 0.1079 0.1240 0.2092

mode liq bi g pl ru ky q
0.2092 0.1212 0.2536 0.1699 0.003137 0 0.2429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.80 900.1 0.06141 0.3113 0.7329 0.03071 0.002400 0.5640
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5920 0.1520 0.2187 0.06121 0.2066 0.1510
x(g) z(g) f(g) ca(pl) k(pl) liq
0.4216 0.1631 0.04079 0.1064 0.1259 0.2095

mode liq bi g pl ru ky q
0.2095 0.1205 0.2543 0.1698 0.003153 0 0.2428

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.85 900.5 0.06124 0.3114 0.7328 0.03070 0.002398 0.5637

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.5921	0.1517	0.2184	0.06105	0.2068	0.1508
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq
0.4210	0.1633	0.04079	0.1049	0.1279	0.2097

mode	liq	bi	g	pl	ru	ky	q
	0.2097	0.1198	0.2550	0.1698	0.003169	0	0.2426

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.90	900.8	0.06107	0.3114	0.7328	0.03070	0.002395	0.5635
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5922	0.1514	0.2181	0.06090	0.2070	0.1506		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4204	0.1634	0.04079	0.1033	0.1299	0.2099		

mode	liq	bi	g	pl	ru	ky	q
	0.2099	0.1191	0.2557	0.1697	0.003185	0	0.2424

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.95	901.2	0.06089	0.3115	0.7328	0.03069	0.002392	0.5633
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5923	0.1511	0.2177	0.06074	0.2072	0.1504		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4199	0.1635	0.04079	0.1018	0.1319	0.2101		

mode	liq	bi	g	pl	ru	ky	q
	0.2101	0.1184	0.2564	0.1697	0.003202	0	0.2423

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
20.00	901.5	0.06071	0.3116	0.7329	0.03067	0.002389	0.5631
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5924	0.1508	0.2174	0.06059	0.2074	0.1503		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq		
0.4193	0.1637	0.04079	0.1003	0.1340	0.2104		

mode	liq	bi	g	pl	ru	ky	q
	0.2104	0.1176	0.2571	0.1696	0.003218	0	0.2421

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, ksp, pl, ilm, ru, q

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 992.6 0.1883 0.3735 0.6396 0.04957 0.05176 0.4810
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3327 0.1151 0.07039 0.03450 0.2735 0.1357
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2816 0.1073 0.06046 0.4332 0.03568 0.6249
Q(ilm)
0.000226

mode liq bi g pl ilm ru q
0.6269 0.01137 0.2268 0.04351 0 0.006034 0.08539

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.10 992.2 0.1865 0.3742 0.6416 0.04922 0.05099 0.4838
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3349 0.1163 0.07113 0.03464 0.2729 0.1368
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2845 0.1078 0.06016 0.4271 0.03653 0.6249
Q(ilm)
0.000227

mode liq bi g pl ilm ru q
0.6186 0.01419 0.2272 0.04514 0 0.005934 0.08901

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 991.8 0.1847 0.3748 0.6436 0.04887 0.05023 0.4865
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3372 0.1175 0.07187 0.03479 0.2723 0.1380
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2875 0.1083 0.05986 0.4211 0.03740 0.6248
Q(ilm)
0.000228

mode liq bi g pl ilm ru q
0.6103 0.01699 0.2275 0.04679 0 0.005835 0.09256

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.30 991.3 0.1830 0.3754 0.6456 0.04853 0.04946 0.4892
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3394 0.1188 0.07263 0.03494 0.2717 0.1391
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2904 0.1089 0.05956 0.4151 0.03828 0.6246
Q(ilm)
0.000228

mode liq bi g pl ilm ru q
0.6021 0.01975 0.2279 0.04846 0 0.005739 0.09605

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40 990.9 0.1813 0.3760 0.6476 0.04819 0.04869 0.4919
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3418 0.1200 0.07341 0.03510 0.2711 0.1402
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2933 0.1094 0.05927 0.4091 0.03918 0.6243
Q(ilm)
0.000228

mode liq bi g pl ilm ru q
0.5941 0.02248 0.2282 0.05016 0 0.005643 0.09948

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.50 990.4 0.1795 0.3765 0.6496 0.04785 0.04791 0.4945
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3441 0.1212 0.07419 0.03526 0.2705 0.1413
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2963 0.1099 0.05898 0.4032 0.04009 0.6240
Q(ilm)
0.000227

mode liq bi g pl ilm ru q
0.5860 0.02518 0.2285 0.05188 0 0.005550 0.1029

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.60 989.9 0.1778 0.3770 0.6515 0.04752 0.04713 0.4971
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3465 0.1224 0.07499 0.03543 0.2699 0.1425
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2992 0.1104 0.05870 0.3973 0.04102 0.6236
Q(ilm)
0.000227

mode liq bi g pl ilm ru q
0.5781 0.02786 0.2288 0.05362 0 0.005457 0.1062

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.70 989.4 0.1761 0.3774 0.6534 0.04718 0.04635 0.4997
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3489 0.1236 0.07581 0.03561 0.2692 0.1435
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3021 0.1109 0.05842 0.3915 0.04196 0.6232
Q(ilm)
0.000226

mode liq bi g pl ilm ru q
0.5702 0.03051 0.2291 0.05539 0 0.005367 0.1095

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.80 988.9 0.1744 0.3778 0.6553 0.04685 0.04556 0.5023
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3514 0.1248 0.07664 0.03579 0.2686 0.1446
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3050 0.1115 0.05814 0.3858 0.04291 0.6226
Q(ilm)

0.000224

mode	liq	bi	g	pl	ilm	ru	q
	0.5623	0.03313	0.2294	0.05719		0	0.005277 0.1127

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.90 988.4 0.1728 0.3781 0.6572 0.04652 0.04477 0.5048
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3539 0.1260 0.07748 0.03598 0.2679 0.1457
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3079 0.1120 0.05786 0.3801 0.04387 0.6220
Q(ilm)

0.000222

mode	liq	bi	g	pl	ilm	ru	q
	0.5545	0.03573	0.2297	0.05901		0	0.005189 0.1159

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.00 987.8 0.1711 0.3784 0.6591 0.04619 0.04398 0.5073
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3564 0.1272 0.07835 0.03617 0.2672 0.1468
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3108 0.1125 0.05759 0.3745 0.04484 0.6213
Q(ilm)

0.00022

mode	liq	bi	g	pl	ilm	ru	q
	0.5468	0.03831	0.2299	0.06085		0	0.005102 0.1190

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.10 987.2 0.1694 0.3786 0.6610 0.04587 0.04318 0.5098
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3590 0.1284 0.07923 0.03638 0.2665 0.1479
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3137 0.1130 0.05732 0.3690 0.04583 0.6206
Q(ilm)

0.000218

mode	liq	bi	g	pl	ilm	ru	q
	0.5391	0.04086	0.2302	0.06273		0	0.005017 0.1221

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.20 986.6 0.1678 0.3788 0.6628 0.04554 0.04237 0.5122
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3616 0.1296 0.08013 0.03659 0.2658 0.1489
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3166 0.1135 0.05705 0.3635 0.04681 0.6198
Q(ilm)

0.000215

mode	liq	bi	g	pl	ilm	ru	q
	0.5314	0.04340	0.2304	0.06463		0	0.004932 0.1252

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.30 986.0 0.1661 0.3789 0.6647 0.04522 0.04156 0.5146
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3643 0.1308 0.08105 0.03681 0.2651 0.1500
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3195 0.1140 0.05678 0.3581 0.04781 0.6188
Q(ilm)

0.000213

mode	liq	bi	g	pl	ilm	ru	q
	0.5238	0.04591	0.2307	0.06655		0	0.004850 0.1282

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.40 985.3 0.1645 0.3790 0.6665 0.04490 0.04075 0.5170
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3670 0.1320 0.08199 0.03703 0.2643 0.1510
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3223 0.1145 0.05651 0.3528 0.04881 0.6178
Q(ilm)

0.00021

mode	liq	bi	g	pl	ilm	ru	q
	0.5163	0.04841	0.2309	0.06850		0	0.004768 0.1312

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.50 984.6 0.1628 0.3791 0.6684 0.04458 0.03992 0.5194
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3698 0.1332 0.08296 0.03727 0.2635 0.1520
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3252 0.1150 0.05625 0.3476 0.04981 0.6168
Q(ilm)

0.000207

mode	liq	bi	g	pl	ilm	ru	q
	0.5087	0.05089	0.2311	0.07048		0	0.004687 0.1341

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.60 983.9 0.1612 0.3790 0.6703 0.04427 0.03910 0.5217
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3726 0.1343 0.08395 0.03751 0.2627 0.1530
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3281 0.1155 0.05598 0.3424 0.05081 0.6156
Q(ilm)

0.000203

mode	liq	bi	g	pl	ilm	ru	q
	0.5012	0.05335	0.2313	0.07248		0	0.004608 0.1370

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.70 983.1 0.1595 0.3790 0.6721 0.04395 0.03826 0.5240
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3755 0.1355 0.08497 0.03776 0.2619 0.1540
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3309 0.1160 0.05572 0.3374 0.05181 0.6144
Q(ilm)

0.0002

mode	liq	bi	g	pl	ilm	ru	q
	0.4938	0.05579	0.2315	0.07450		0	0.004530 0.1399

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.80 982.4 0.1579 0.3789 0.6740 0.04363 0.03742 0.5262
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3785 0.1367 0.08601 0.03802 0.2611 0.1550
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3338 0.1165 0.05545 0.3324 0.05281 0.6130
Q(ilm)

0.000196

mode	liq	bi	g	pl	ilm	ru	q
	0.4863	0.05821	0.2317	0.07654		0	0.004454 0.1428

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
11.90 981.5 0.1562 0.3787 0.6758 0.04332 0.03658 0.5285
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3814 0.1379 0.08708 0.03829 0.2602 0.1560
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3366 0.1170 0.05519 0.3275 0.05381 0.6116
Q(ilm)

0.000192

mode	liq	bi	g	pl	ilm	ru	q
	0.4789	0.06062	0.2319	0.07861		0	0.004378 0.1456

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.00 980.7 0.1546 0.3785 0.6777 0.04301 0.03572 0.5307
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3845 0.1390 0.08818 0.03857 0.2593 0.1570
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3395 0.1176 0.05493 0.3227 0.05479 0.6100
Q(ilm)

0.000188

mode	liq	bi	g	pl	ilm	ru	q
	0.4716	0.06301	0.2320	0.08070		0	0.004304 0.1484

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.10 979.8 0.1529 0.3782 0.6795 0.04270 0.03487 0.5328
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3876 0.1402 0.08931 0.03886 0.2584 0.1579
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3423 0.1181 0.05467 0.3180 0.05577 0.6084
Q(ilm)

0.000184

mode	liq	bi	g	pl	ilm	ru	q
	0.4643	0.06538	0.2322	0.08280		0	0.004232 0.1511

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.20 978.9 0.1513 0.3779 0.6814 0.04239 0.03400 0.5349
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3908 0.1413 0.09047 0.03916 0.2575 0.1589
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3451 0.1186 0.05440 0.3134 0.05674 0.6067
Q(ilm)

0.000179

mode	liq	bi	g	pl	ilm	ru	q
	0.4570	0.06773	0.2323	0.08493		0	0.004160 0.1539

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.30 977.9 0.1496 0.3776 0.6833 0.04208 0.03314 0.5370
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3940 0.1424 0.09166 0.03947 0.2565 0.1598
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3480 0.1191 0.05414 0.3089 0.05769 0.6049
Q(ilm)

0.000175

mode	liq	bi	g	pl	ilm	ru	q
	0.4498	0.07006	0.2325	0.08707		0	0.004091 0.1565

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
12.40 976.9 0.1480 0.3771 0.6852 0.04177 0.03226 0.5390
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3972 0.1436 0.09289 0.03979 0.2556 0.1607
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3508 0.1196 0.05388 0.3045 0.05862 0.6029
Q(ilm)

0.00017

mode	liq	bi	g	pl	ilm	ru	q
	0.4426	0.07238	0.2326	0.08922		0	0.004022 0.1592

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.50 975.8 0.1463 0.3767 0.6871 0.04146 0.03139 0.5410

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4006 0.1447 0.09416 0.04013 0.2546 0.1616

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3535 0.1202 0.05362 0.3002 0.05954 0.6009

Q(ilm)

0.000166

mode	liq	bi	g	pl	ilm	ru	q
	0.4354	0.07467	0.2327	0.09139		0	0.003955 0.1618

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.60 974.7 0.1447 0.3761 0.6890 0.04115 0.03051 0.5429

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4040 0.1458 0.09546 0.04047 0.2536 0.1625

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3563 0.1207 0.05335 0.2959 0.06044 0.5987

Q(ilm)

0.000161

mode	liq	bi	g	pl	ilm	ru	q
	0.4284	0.07693	0.2328	0.09356		0	0.003890 0.1644

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.70 973.6 0.1430 0.3756 0.6909 0.04085 0.02962 0.5448

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4074 0.1469 0.09680 0.04083 0.2525 0.1634

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3590 0.1212 0.05309 0.2918 0.06131 0.5964

Q(ilm)

0.000157

mode	liq	bi	g	pl	ilm	ru	q
	0.4213	0.07918	0.2329	0.09574		0	0.003826 0.1670

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

12.80 972.4 0.1414 0.3749 0.6928 0.04054 0.02874 0.5467

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4109 0.1479 0.09818 0.04120 0.2515 0.1642

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3618 0.1218 0.05283 0.2878 0.06216 0.5940

Q(ilm)

0.000152

mode	liq	bi	g	pl	ilm	ru	q
	0.4144	0.08140	0.2330	0.09793		0	0.003764 0.1695

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
12.90    971.2  0.1397  0.3742  0.6947  0.04024 0.02786 0.5485
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.4144  0.1490  0.09961 0.04158 0.2504 0.1650
        x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
        0.3645  0.1223  0.05256 0.2839 0.06298 0.5915
        Q(ilm)
0.000147

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mode  liq  bi  g  pl  ilm  ru  q
      0.4075 0.08359 0.2331 0.1001 0 0.003704 0.1720

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
13.00    969.9  0.1381  0.3735  0.6966  0.03994 0.02697 0.5502
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.4180  0.1500  0.1011 0.04197 0.2493 0.1658
        x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
        0.3671  0.1228  0.05230 0.2801 0.06378 0.5888
        Q(ilm)
0.000143

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mode  liq  bi  g  pl  ilm  ru  q
      0.4007 0.08575 0.2331 0.1023 0 0.003645 0.1745

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
13.10    968.6  0.1364  0.3727  0.6985  0.03964 0.02609 0.5519
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.4217  0.1510  0.1026 0.04238 0.2482 0.1665
        x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
        0.3698  0.1234  0.05203 0.2764 0.06454 0.5860
        Q(ilm)
0.000138

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mode  liq  bi  g  pl  ilm  ru  q
      0.3940 0.08788 0.2332 0.1045 0 0.003589 0.1769

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
13.20    967.3  0.1347  0.3719  0.7004  0.03934 0.02522 0.5535
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.4254  0.1520  0.1041 0.04280 0.2470 0.1673
        x(g)   z(g)   f(g)   ca(pl)  k(pl)  x(ilm)
        0.3724  0.1239  0.05177 0.2727 0.06528 0.5831
        Q(ilm)
0.000133

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mode  liq  bi  g  pl  ilm  ru  q
      0.3873 0.08998 0.2332 0.1067 0 0.003534 0.1793

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P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)

```

13.30 965.9 0.1331 0.3710 0.7023 0.03904 0.02434 0.5551
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4291 0.1529 0.1057 0.04323 0.2459 0.1679
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3749 0.1245 0.05151 0.2692 0.06598 0.5801
Q(ilm)

0.000129

mode	liq	bi	g	pl	ilm	ru	q
	0.3808	0.09204	0.2332	0.1088		0	0.003481 0.1816

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.40 964.4 0.1314 0.3701 0.7042 0.03875 0.02348 0.5566
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4329 0.1538 0.1074 0.04367 0.2447 0.1686
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3774 0.1250 0.05124 0.2658 0.06665 0.5769
Q(ilm)

0.000124

mode	liq	bi	g	pl	ilm	ru	q
	0.3743	0.09407	0.2333	0.1110		0	0.003430 0.1839

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.50 963.0 0.1298 0.3691 0.7060 0.03845 0.02262 0.5580
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4367 0.1547 0.1091 0.04412 0.2435 0.1692
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3799 0.1256 0.05098 0.2624 0.06728 0.5736
Q(ilm)

0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.3680	0.09606	0.2333	0.1132		0	0.003380 0.1862

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.60 961.4 0.1281 0.3681 0.7079 0.03816 0.02177 0.5594
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4405 0.1556 0.1108 0.04459 0.2424 0.1698
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3824 0.1262 0.05071 0.2592 0.06788 0.5702
Q(ilm)

0.000116

mode	liq	bi	g	pl	ilm	ru	q
	0.3617	0.09801	0.2332	0.1153		0	0.003333 0.1884

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.70 959.9 0.1265 0.3670 0.7097 0.03788 0.02094 0.5607
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4443 0.1564 0.1126 0.04507 0.2412 0.1704
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3847 0.1267 0.05045 0.2560 0.06845 0.5667
Q(ilm)

0.000111

mode liq bi g pl ilm ru q
0.3556 0.09992 0.2332 0.1174 0 0.003288 0.1906

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.80 958.3 0.1248 0.3659 0.7115 0.03759 0.02011 0.5619
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4482 0.1572 0.1144 0.04555 0.2400 0.1709
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3871 0.1273 0.05019 0.2529 0.06898 0.5630
Q(ilm)

0.000107

mode liq bi g pl ilm ru q
0.3496 0.1018 0.2332 0.1195 0 0.003245 0.1927

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
13.90 956.7 0.1232 0.3648 0.7133 0.03731 0.01930 0.5631
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4521 0.1579 0.1162 0.04605 0.2388 0.1713
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3893 0.1279 0.04992 0.2499 0.06948 0.5592
Q(ilm)

0.000103

mode liq bi g pl ilm ru q
0.3437 0.1036 0.2331 0.1215 0 0.003204 0.1948

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.00 955.0 0.1215 0.3636 0.7151 0.03703 0.01851 0.5642
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4560 0.1587 0.1182 0.04656 0.2376 0.1718
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3916 0.1285 0.04966 0.2470 0.06995 0.5553
Q(ilm)

9.93E-05

mode liq bi g pl ilm ru q
0.3379 0.1054 0.2331 0.1236 0 0.003165 0.1969

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.10 953.3 0.1199 0.3624 0.7168 0.03675 0.01773 0.5653
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4599 0.1593 0.1201 0.04707 0.2363 0.1722
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.3937 0.1290 0.04940 0.2442 0.07038 0.5513
Q(ilm)

9.55E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3323	0.1071	0.2330	0.1256		0	0.003128 0.1989

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.20 951.6 0.1183 0.3611 0.7185 0.03648 0.01698 0.5662
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4638 0.1600 0.1221 0.04760 0.2351 0.1725
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3958 0.1296 0.04914 0.2414 0.07079 0.5472
Q(ilm)

9.19E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3268	0.1088	0.2330	0.1276		0	0.003093 0.2008

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.30 949.9 0.1167 0.3598 0.7201 0.03621 0.01624 0.5672
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4677 0.1606 0.1242 0.04813 0.2339 0.1728
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3979 0.1302 0.04888 0.2387 0.07116 0.5430
Q(ilm)

8.84E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3214	0.1104	0.2329	0.1295		0	0.003059 0.2027

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.40 948.1 0.1151 0.3585 0.7218 0.03595 0.01552 0.5680
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4716 0.1611 0.1262 0.04866 0.2327 0.1731
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3999 0.1308 0.04862 0.2361 0.07150 0.5387
Q(ilm)

8.50E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3162	0.1120	0.2328	0.1314		0	0.003028 0.2046

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
14.50 946.3 0.1136 0.3572 0.7233 0.03569 0.01482 0.5688
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4755 0.1617 0.1284 0.04921 0.2315 0.1733
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4018 0.1314 0.04836 0.2335 0.07182 0.5343
Q(ilm)

8.17E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3111	0.1136	0.2327	0.1333		0	0.002999 0.2064

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.60	944.5	0.1120	0.3558	0.7249	0.03543	0.01414	0.5695
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4794	0.1622	0.1305	0.04976	0.2303	0.1735
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4037	0.1320	0.04810	0.2310	0.07211	0.5299
		Q(ilm)					

7.86E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3061	0.1150	0.2326	0.1351		0	0.002971 0.2082

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.70	942.7	0.1105	0.3544	0.7263	0.03518	0.01349	0.5701
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4833	0.1626	0.1328	0.05031	0.2291	0.1736
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4055	0.1326	0.04785	0.2285	0.07237	0.5253
		Q(ilm)					

7.56E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.3012	0.1165	0.2325	0.1370		0	0.002945 0.2099

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.80	940.8	0.1089	0.3530	0.7278	0.03493	0.01286	0.5707
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4871	0.1630	0.1350	0.05086	0.2279	0.1737
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4073	0.1333	0.04759	0.2261	0.07261	0.5207
		Q(ilm)					

7.28E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2965	0.1179	0.2324	0.1387		0	0.002921 0.2116

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
14.90	939.0	0.1074	0.3515	0.7291	0.03469	0.01225	0.5713
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4909	0.1634	0.1373	0.05142	0.2268	0.1738
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4090	0.1339	0.04734	0.2237	0.07283	0.5161
		Q(ilm)					

7.00E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2920	0.1192	0.2323	0.1404		0	0.002899 0.2132

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.00 937.1 0.1059 0.3501 0.7305 0.03445 0.01166 0.5717

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4947 0.1637 0.1396 0.05198 0.2256 0.1738

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4106 0.1345 0.04709 0.2214 0.07303 0.5113

Q(ilm)

6.74E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2875	0.1205	0.2322	0.1421		0	0.002878 0.2148

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.10 935.2 0.1044 0.3486 0.7318 0.03421 0.01110 0.5722

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.4985 0.1640 0.1420 0.05254 0.2244 0.1738

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4122 0.1351 0.04684 0.2191 0.07321 0.5066

Q(ilm)

6.49E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2832	0.1218	0.2321	0.1438		0	0.002859 0.2163

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.20 933.4 0.1029 0.3471 0.7330 0.03399 0.01056 0.5725

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5022 0.1643 0.1444 0.05310 0.2233 0.1737

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4137 0.1358 0.04659 0.2169 0.07338 0.5018

Q(ilm)

6.25E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2790	0.1230	0.2319	0.1454		0	0.002841 0.2178

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

15.30 931.6 0.1014 0.3457 0.7342 0.03378 0.01005 0.5729

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5059 0.1645 0.1468 0.05366 0.2222 0.1736

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4152 0.1364 0.04635 0.2147 0.07354 0.4971

Q(ilm)

6.03E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2749	0.1242	0.2318	0.1469		0	0.002824 0.2193

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.40	929.7	0.09996	0.3442	0.7354	0.03357	0.009560	0.5732
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5096	0.1647	0.1493	0.05422	0.2211	0.1734	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4166	0.1371	0.04610	0.2125	0.07368	0.4923	
	Q(ilm)						

5.81E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2710	0.1253	0.2317	0.1484		0	0.002809 0.2208

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.50	927.9	0.09848	0.3428	0.7366	0.03337	0.009094	0.5734
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5132	0.1649	0.1518	0.05477	0.2200	0.1732	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4180	0.1378	0.04586	0.2104	0.07382	0.4875	
	Q(ilm)						

5.61E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2672	0.1264	0.2316	0.1498		0	0.002794 0.2222

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.60	926.1	0.09701	0.3413	0.7377	0.03317	0.008649	0.5736
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5168	0.1651	0.1544	0.05532	0.2190	0.1730	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4193	0.1384	0.04562	0.2083	0.07394	0.4827	
	Q(ilm)						

5.41E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2635	0.1274	0.2315	0.1512		0	0.002781 0.2236

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
15.70	924.3	0.09555	0.3398	0.7388	0.03298	0.008225	0.5738
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5203	0.1652	0.1570	0.05587	0.2179	0.1727	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4206	0.1391	0.04538	0.2063	0.07405	0.4780	
	Q(ilm)						

5.23E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2599	0.1285	0.2314	0.1526		0	0.002769 0.2249

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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15.80 922.5 0.09411 0.3384 0.7399 0.03279 0.007820 0.5739
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5238 0.1653 0.1596 0.05641 0.2169 0.1725
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4218 0.1398 0.04515 0.2042 0.07415 0.4732
Q(ilm)

5.05E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2564	0.1294	0.2312	0.1539		0	0.002757 0.2263

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
15.90 920.7 0.09268 0.3369 0.7409 0.03261 0.007435 0.5740
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5273 0.1653 0.1623 0.05695 0.2159 0.1721
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4230 0.1405 0.04492 0.2022 0.07423 0.4684
Q(ilm)

4.88E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2530	0.1304	0.2311	0.1552		0	0.002747 0.2275

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.00 918.9 0.09127 0.3355 0.7419 0.03243 0.007068 0.5741
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5307 0.1654 0.1649 0.05748 0.2148 0.1718
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4241 0.1412 0.04468 0.2002 0.07431 0.4637
Q(ilm)

4.72E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2497	0.1313	0.2310	0.1564		0	0.002737 0.2288

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.10 917.2 0.08987 0.3340 0.7428 0.03225 0.006718 0.5742
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5341 0.1654 0.1677 0.05801 0.2139 0.1714
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4253 0.1419 0.04446 0.1982 0.07438 0.4589
Q(ilm)

4.57E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2465	0.1322	0.2309	0.1576		0	0.002729 0.2300

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.20 915.4 0.08848 0.3326 0.7437 0.03208 0.006386 0.5742
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5374 0.1654 0.1704 0.05853 0.2129 0.1710
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4264 0.1426 0.04423 0.1963 0.07444 0.4542
Q(ilm)

4.43E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2434	0.1331	0.2308	0.1588		0	0.002721 0.2312

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.30 913.6 0.08712 0.3311 0.7446 0.03191 0.006070 0.5741
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5407 0.1654 0.1732 0.05904 0.2119 0.1706
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4274 0.1433 0.04400 0.1943 0.07449 0.4495
Q(ilm)

4.29E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2404	0.1339	0.2307	0.1599		0	0.002713 0.2324

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 911.9 0.08577 0.3297 0.7455 0.03175 0.005769 0.5741
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5440 0.1654 0.1760 0.05955 0.2110 0.1701
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4284 0.1441 0.04378 0.1924 0.07454 0.4448
Q(ilm)

4.16E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2375	0.1347	0.2306	0.1610		0	0.002707 0.2335

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.50 910.1 0.08444 0.3283 0.7463 0.03159 0.005483 0.5740
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5472 0.1653 0.1788 0.06004 0.2100 0.1696
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4294 0.1448 0.04356 0.1904 0.07457 0.4402
Q(ilm)

4.03E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2346	0.1355	0.2305	0.1620		0	0.002701 0.2347

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.60 908.4 0.08312 0.3268 0.7471 0.03143 0.005212 0.5739
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5504 0.1652 0.1816 0.06053 0.2091 0.1691
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4304 0.1456 0.04335 0.1885 0.07460 0.4355
Q(ilm)

3.91E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2318	0.1362	0.2305	0.1631		0	0.002696 0.2357

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.70 906.6 0.08182 0.3254 0.7478 0.03128 0.004954 0.5738
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5536 0.1652 0.1845 0.06101 0.2082 0.1686
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4313 0.1463 0.04313 0.1866 0.07463 0.4309
Q(ilm)

3.79E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2291	0.1370	0.2304	0.1640		0	0.002691 0.2368

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.80 904.9 0.08054 0.3240 0.7485 0.03113 0.004710 0.5737
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5567 0.1650 0.1873 0.06148 0.2073 0.1680
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4322 0.1471 0.04292 0.1847 0.07464 0.4264
Q(ilm)

3.68E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2265	0.1377	0.2303	0.1650		0	0.002687 0.2378

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.90 903.2 0.07928 0.3226 0.7492 0.03098 0.004478 0.5735
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5598 0.1649 0.1902 0.06194 0.2064 0.1675
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4331 0.1479 0.04271 0.1828 0.07466 0.4219
Q(ilm)

3.58E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2239	0.1383	0.2302	0.1659		0	0.002684 0.2389

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.00 901.5 0.07803 0.3211 0.7499 0.03083 0.004258 0.5733
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5628 0.1648 0.1931 0.06240 0.2056 0.1669
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4339 0.1486 0.04250 0.1809 0.07467 0.4174
Q(ilm)

3.48E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2215	0.1390	0.2302	0.1668		0	0.002681 0.2399

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 899.8 0.07681 0.3197 0.7505 0.03069 0.004049 0.5731
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5658 0.1646 0.1960 0.06284 0.2047 0.1663
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4347 0.1494 0.04230 0.1790 0.07467 0.4129
Q(ilm)

3.38E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2190	0.1396	0.2301	0.1677		0	0.002678 0.2408

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.20 898.1 0.07560 0.3184 0.7511 0.03055 0.003851 0.5729
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5687 0.1645 0.1989 0.06327 0.2039 0.1657
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4355 0.1502 0.04210 0.1772 0.07467 0.4085
Q(ilm)

3.29E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2167	0.1403	0.2301	0.1685		0	0.002676 0.2418

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.30 896.5 0.07441 0.3170 0.7517 0.03041 0.003663 0.5727
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5717 0.1643 0.2019 0.06369 0.2030 0.1651
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4363 0.1510 0.04190 0.1753 0.07467 0.4042
Q(ilm)

3.20E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2144	0.1409	0.2301	0.1693		0	0.002674 0.2427

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.40 894.8 0.07324 0.3156 0.7522 0.03027 0.003486 0.5724
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5745 0.1641 0.2048 0.06410 0.2022 0.1644
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4371 0.1518 0.04171 0.1734 0.07467 0.3999
Q(ilm)

3.11E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2122	0.1414	0.2300	0.1701		0	0.002673 0.2436

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.50 893.2 0.07208 0.3142 0.7527 0.03014 0.003317 0.5722

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5774 0.1639 0.2078 0.06450 0.2014 0.1638

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4378 0.1526 0.04151 0.1715 0.07466 0.3956

Q(ilm)

3.03E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2100	0.1420	0.2300	0.1708		0	0.002672 0.2445

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.60 891.5 0.07095 0.3129 0.7532 0.03000 0.003157 0.5719

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5802 0.1637 0.2107 0.06489 0.2006 0.1631

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4385 0.1534 0.04133 0.1697 0.07466 0.3914

Q(ilm)

2.95E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2079	0.1425	0.2300	0.1716		0	0.002672 0.2453

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.70 889.9 0.06983 0.3115 0.7536 0.02987 0.003006 0.5716

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5829 0.1635 0.2137 0.06527 0.1999 0.1624

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4392 0.1542 0.04114 0.1678 0.07465 0.3872

Q(ilm)

2.88E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2058	0.1430	0.2300	0.1722		0	0.002671 0.2462

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

17.80 888.3 0.06874 0.3102 0.7540 0.02975 0.002863 0.5713

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5856 0.1633 0.2166 0.06564 0.1991 0.1617

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4398 0.1550 0.04096 0.1659 0.07465 0.3831

Q(ilm)

2.81E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2039	0.1435	0.2300	0.1729		0	0.002672 0.2470

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
17.90	886.8	0.06766	0.3089	0.7544	0.02962	0.002728	0.5710
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5883	0.1630	0.2196	0.06600	0.1983	0.1610	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4405	0.1558	0.04078	0.1641	0.07464	0.3791	
	Q(ilm)						

2.74E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2019	0.1440	0.2300	0.1736		0	0.002672 0.2478

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.00	885.2	0.06660	0.3076	0.7548	0.02950	0.002599	0.5707
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5909	0.1628	0.2226	0.06635	0.1976	0.1603	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4411	0.1567	0.04060	0.1622	0.07464	0.3750	
	Q(ilm)						

2.67E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.2000	0.1445	0.2301	0.1742		0	0.002673 0.2486

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.10	883.7	0.06556	0.3063	0.7551	0.02938	0.002478	0.5703
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5935	0.1626	0.2255	0.06668	0.1969	0.1596	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4417	0.1575	0.04043	0.1603	0.07464	0.3711	
	Q(ilm)						

2.61E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1982	0.1449	0.2301	0.1748		0	0.002674 0.2493

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
18.20	882.1	0.06454	0.3050	0.7554	0.02926	0.002363	0.5700
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5961	0.1623	0.2284	0.06701	0.1962	0.1589	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4423	0.1583	0.04026	0.1585	0.07464	0.3672	
	Q(ilm)						

2.55E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1964	0.1453	0.2301	0.1753		0	0.002675 0.2501

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

18.30 880.6 0.06353 0.3037 0.7556 0.02914 0.002254 0.5696
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5986 0.1620 0.2314 0.06732 0.1955 0.1582
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4429 0.1591 0.04009 0.1566 0.07464 0.3633
Q(ilm)

2.49E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1947	0.1457	0.2302	0.1759		0	0.002677 0.2508

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.40 879.2 0.06255 0.3025 0.7559 0.02903 0.002151 0.5693
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6011 0.1618 0.2343 0.06763 0.1948 0.1574
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4434 0.1600 0.03993 0.1547 0.07465 0.3595
Q(ilm)

2.43E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1930	0.1461	0.2303	0.1764		0	0.002679 0.2515

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.50 877.7 0.06158 0.3013 0.7560 0.02892 0.002054 0.5689
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6035 0.1615 0.2372 0.06792 0.1942 0.1567
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4439 0.1608 0.03977 0.1528 0.07466 0.3558
Q(ilm)

2.38E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1914	0.1465	0.2303	0.1769		0	0.002681 0.2522

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.60 876.3 0.06064 0.3000 0.7562 0.02881 0.001961 0.5686
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6059 0.1612 0.2401 0.06820 0.1935 0.1560
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4444 0.1616 0.03962 0.1510 0.07468 0.3521
Q(ilm)

2.33E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1898	0.1468	0.2304	0.1774		0	0.002684 0.2529

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.70 874.9 0.05971 0.2988 0.7563 0.02870 0.001874 0.5682
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6082 0.1609 0.2429 0.06848 0.1929 0.1552
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4449 0.1624 0.03947 0.1491 0.07471 0.3485
Q(ilm)

2.28E-05

mode liq bi g pl ilm ru q
0.1883 0.1472 0.2305 0.1778 0 0.002686 0.2535

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 873.5 0.05880 0.2977 0.7564 0.02859 0.001792 0.5678
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6105 0.1606 0.2458 0.06874 0.1923 0.1545
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4454 0.1632 0.03932 0.1472 0.07474 0.3449
Q(ilm)

2.23E-05

mode liq bi g pl ilm ru q
0.1868 0.1475 0.2306 0.1783 0 0.002689 0.2541

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.90 872.1 0.05791 0.2965 0.7564 0.02849 0.001714 0.5674
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6128 0.1603 0.2486 0.06899 0.1917 0.1537
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4458 0.1640 0.03917 0.1454 0.07478 0.3414
Q(ilm)

2.18E-05

mode liq bi g pl ilm ru q
0.1853 0.1478 0.2308 0.1787 0 0.002692 0.2548

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 870.8 0.05703 0.2953 0.7564 0.02839 0.001640 0.5670
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6150 0.1600 0.2514 0.06923 0.1911 0.1530
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4463 0.1648 0.03903 0.1435 0.07483 0.3380
Q(ilm)

2.14E-05

mode liq bi g pl ilm ru q
0.1839 0.1481 0.2309 0.1791 0 0.002696 0.2554

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.10 869.4 0.05618 0.2942 0.7564 0.02829 0.001570 0.5667
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6172 0.1597 0.2542 0.06946 0.1906 0.1522
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4467 0.1656 0.03889 0.1416 0.07489 0.3346
Q(ilm)

2.09E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1825	0.1483	0.2310	0.1795		0	0.002699 0.2559

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 868.2 0.05534 0.2931 0.7563 0.02819 0.001504 0.5663
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6193 0.1594 0.2569 0.06969 0.1900 0.1515
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4470 0.1664 0.03876 0.1398 0.07495 0.3313
Q(ilm)

2.05E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1812	0.1485	0.2312	0.1799		0	0.002703 0.2565

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.30 866.9 0.05452 0.2920 0.7562 0.02810 0.001441 0.5659
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6214 0.1590 0.2596 0.06990 0.1895 0.1507
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4474 0.1672 0.03863 0.1379 0.07503 0.3280
Q(ilm)

2.01E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1799	0.1488	0.2314	0.1802		0	0.002707 0.2570

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40 865.7 0.05372 0.2909 0.7561 0.02801 0.001382 0.5655
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6235 0.1587 0.2623 0.07011 0.1890 0.1500
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4477 0.1680 0.03850 0.1360 0.07511 0.3248
Q(ilm)

1.97E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1787	0.1490	0.2315	0.1805		0	0.002711 0.2576

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.50 864.5 0.05294 0.2899 0.7559 0.02792 0.001326 0.5651
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6255 0.1584 0.2650 0.07030 0.1885 0.1492
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4481 0.1688 0.03838 0.1342 0.07521 0.3216
Q(ilm)

1.94E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1775	0.1491	0.2317	0.1809		0	0.002715 0.2581

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.60 863.3 0.05217 0.2888 0.7556 0.02783 0.001273 0.5647
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6275 0.1581 0.2676 0.07049 0.1880 0.1485
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4484 0.1695 0.03826 0.1323 0.07532 0.3186
Q(ilm)

1.90E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1763	0.1493	0.2319	0.1812		0	0.002720 0.2586

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.70 862.1 0.05142 0.2878 0.7553 0.02775 0.001223 0.5643
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6294 0.1577 0.2701 0.07067 0.1875 0.1477
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4487 0.1703 0.03814 0.1305 0.07544 0.3155
Q(ilm)

1.87E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1752	0.1494	0.2321	0.1815		0	0.002724 0.2590

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.80 861.0 0.05069 0.2868 0.7550 0.02767 0.001176 0.5639
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6313 0.1574 0.2727 0.07084 0.1871 0.1470
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4489 0.1710 0.03803 0.1286 0.07557 0.3125
Q(ilm)

1.83E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1741	0.1496	0.2324	0.1817		0	0.002729 0.2595

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.90 859.9 0.04998 0.2858 0.7546 0.02759 0.001131 0.5635
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6331 0.1570 0.2752 0.07100 0.1866 0.1463
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4492 0.1717 0.03792 0.1268 0.07571 0.3096
Q(ilm)

1.80E-05

```

mode   liq   bi    g    pl   ilm   ru    q
      0.1731 0.1497 0.2326 0.1820    0 0.002734 0.2599
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00  858.9 0.04928 0.2848 0.7542 0.02751 0.001088 0.5631
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6349 0.1567 0.2776 0.07116 0.1862 0.1455
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4494 0.1725 0.03781 0.1250 0.07587 0.3068
      Q(ilm)
1.77E-05

```

```

mode   liq   bi    g    pl   ilm   ru    q
      0.1720 0.1498 0.2328 0.1823    0 0.002740 0.2603

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : liq, bi, g, pl, ilm, ru, q

```

```

P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.61   994.2 0.1953 0.3705 0.6314 0.05094 0.05472 0.4699
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.3242 0.1103 0.06761 0.03401 0.2756 0.1311
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.2699 0.1051 0.06169 0.4573 0.03253 0.6243
      Q(ilm)
0.00022

```

```

mode   liq   bi    g    pl   ilm   ru    q
      0.6602    0 0.2253 0.03737    0 0.006440 0.07067
calcs use:

```

```

composition (from script)
  H2O SiO2 Al2O3  CaO  MgO  FeO  K2O  Na2O TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195
<=====>
phases : liq, bi, g, pl, ilm, ru, q

```

```

P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00   971.5 0.2458 0.3298 0.6194 0.04801 0.07127 0.4241
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.2977 0.09820 0.06561 0.03046 0.2665 0.1222
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.2284 0.04225 0.03476 0.5990 0.01512 0.6709
      Q(ilm)
-0.00158

```


mode	liq	bi	g	pl	ilm	ru	q
	0.7440	0	0.1556	0.07464	0.008397	0.004021	0.01339

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.05	972.0	0.2450	0.3302	0.6194	0.04814	0.07116	0.4246
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.2981	0.09830	0.06555	0.03050	0.2667	0.1223
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.2288	0.04284	0.03503	0.5979	0.01524	0.6702
		Q(ilm)					
		-0.0018					

mode	liq	bi	g	pl	ilm	ru	q
	0.7428	0	0.1562	0.07433	0.008318	0.004047	0.01431

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.10	972.4	0.2443	0.3307	0.6195	0.04826	0.07104	0.4251
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.2985	0.09840	0.06549	0.03053	0.2668	0.1223
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.2291	0.04345	0.03531	0.5968	0.01536	0.6695
		Q(ilm)					
		-0.00209					

mode	liq	bi	g	pl	ilm	ru	q
	0.7416	0	0.1568	0.07402	0.008238	0.004073	0.01523

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.15	972.9	0.2435	0.3311	0.6196	0.04838	0.07092	0.4256
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.2988	0.09850	0.06543	0.03057	0.2670	0.1224
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.2295	0.04406	0.03559	0.5957	0.01548	0.6688
		Q(ilm)					
		-0.00249					

mode	liq	bi	g	pl	ilm	ru	q
	0.7404	0	0.1574	0.07371	0.008158	0.004099	0.01614

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	973.3	0.2428	0.3316	0.6196	0.04850	0.07080	0.4261
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.2992	0.09861	0.06538	0.03061	0.2671	0.1224
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.2298	0.04469	0.03588	0.5946	0.01560	0.6681
		Q(ilm)					
		-0.00307					

mode	liq	bi	g	pl	ilm	ru	q
	0.7393	0	0.1581	0.07339	0.008076	0.004126	0.01705

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.25	973.8	0.2420	0.3320	0.6197	0.04862	0.07068	0.4266
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.2995	0.09871	0.06532	0.03064	0.2673	0.1225	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2302	0.04533	0.03617	0.5934	0.01573	0.6675	
	Q(ilm)						
	-0.00401						

mode	liq	bi	g	pl	ilm	ru	q
	0.7381	0	0.1587	0.07306	0.007994	0.004152	0.01796

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.30	974.2	0.2413	0.3325	0.6198	0.04874	0.07056	0.4271
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.2999	0.09881	0.06527	0.03068	0.2674	0.1226	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2306	0.04597	0.03646	0.5923	0.01586	0.6668	
	Q(ilm)						
	-0.00577						

mode	liq	bi	g	pl	ilm	ru	q
	0.7369	0	0.1594	0.07273	0.007911	0.004179	0.01886

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.35	974.7	0.2406	0.3329	0.6199	0.04886	0.07041	0.4276
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3003	0.09888	0.06521	0.03073	0.2676	0.1226	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2309	0.04663	0.03678	0.5911	0.01599	0.6682	
	Q(ilm)						
	0.08167						

mode	liq	bi	g	pl	ilm	ru	q
	0.7357	0	0.1601	0.07239	0.007865	0.004186	0.01975

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.45	975.5	0.2391	0.3338	0.6200	0.04909	0.07016	0.4287
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3010	0.09914	0.06511	0.03079	0.2679	0.1227	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2318	0.04798	0.03737	0.5887	0.01625	0.6649	
	Q(ilm)						
	0.01739						

mode	liq	bi	g	pl	ilm	ru	q
	0.7334	0	0.1614	0.07170	0.007657	0.004259	0.02152

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.50 976.0 0.2383 0.3343 0.6201 0.04920 0.07003 0.4293
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3013 0.09925 0.06506 0.03083 0.2680 0.1228
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2322 0.04867 0.03768 0.5875 0.01638 0.6642
Q(ilm)

0.007782

mode	liq	bi	g	pl	ilm	ru	q
	0.7323	0	0.1621	0.07135	0.007568	0.004288	0.02241

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.55 976.4 0.2376 0.3348 0.6202 0.04932 0.06989 0.4298
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3017 0.09937 0.06501 0.03086 0.2682 0.1229
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2326 0.04937 0.03799 0.5863 0.01652 0.6635
Q(ilm)

0.004935

mode	liq	bi	g	pl	ilm	ru	q
	0.7311	0	0.1628	0.07099	0.007480	0.004316	0.02328

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 976.8 0.2369 0.3352 0.6203 0.04943 0.06975 0.4303
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3020 0.09948 0.06497 0.03090 0.2683 0.1230
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2330 0.05008 0.03831 0.5850 0.01666 0.6628
Q(ilm)

0.003612

mode	liq	bi	g	pl	ilm	ru	q
	0.7299	0	0.1635	0.07063	0.007390	0.004344	0.02415

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.65 977.2 0.2362 0.3357 0.6204 0.04953 0.06960 0.4309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3024 0.09960 0.06492 0.03094 0.2685 0.1230
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2334 0.05081 0.03863 0.5837 0.01680 0.6622
Q(ilm)

0.002849

mode	liq	bi	g	pl	ilm	ru	q
	0.7288	0	0.1643	0.07026	0.007300	0.004372	0.02502

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 977.6 0.2354 0.3362 0.6205 0.04964 0.06945 0.4314
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3028 0.09972 0.06488 0.03097 0.2686 0.1231
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2339 0.05154 0.03895 0.5824 0.01694 0.6615
Q(ilm)

0.002353

mode	liq	bi	g	pl	ilm	ru	q
	0.7276	0	0.1650	0.06988	0.007208	0.004400	0.02589

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.75 978.0 0.2347 0.3366 0.6206 0.04975 0.06930 0.4320
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3031 0.09984 0.06484 0.03101 0.2687 0.1232
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2343 0.05229 0.03928 0.5811 0.01709 0.6609
Q(ilm)

0.002006

mode	liq	bi	g	pl	ilm	ru	q
	0.7265	0	0.1657	0.06949	0.007116	0.004429	0.02675

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 978.4 0.2340 0.3371 0.6207 0.04985 0.06914 0.4325
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3035 0.09997 0.06480 0.03105 0.2689 0.1233
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2348 0.05304 0.03962 0.5798 0.01723 0.6602
Q(ilm)

0.001748

mode	liq	bi	g	pl	ilm	ru	q
	0.7253	0	0.1665	0.06910	0.007022	0.004458	0.02760

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.85 978.8 0.2333 0.3376 0.6208 0.04995 0.06898 0.4331
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3038 0.1001 0.06476 0.03108 0.2690 0.1234
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2352 0.05381 0.03996 0.5784 0.01738 0.6596
Q(ilm)

0.00155

mode	liq	bi	g	pl	ilm	ru	q
	0.7242	0	0.1673	0.06871	0.006927	0.004488	0.02846

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 979.2 0.2325 0.3381 0.6209 0.05005 0.06882 0.4337
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3042 0.1002 0.06472 0.03112 0.2692 0.1235
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2357 0.05459 0.04030 0.5770 0.01753 0.6589
Q(ilm)

0.001393

mode	liq	bi	g	pl	ilm	ru	q
	0.7230	0	0.1680	0.06830	0.006830	0.004517	0.02931

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.95 979.6 0.2318 0.3385 0.6210 0.05015 0.06865 0.4342
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3045 0.1004 0.06469 0.03116 0.2693 0.1235
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2362 0.05539 0.04065 0.5756 0.01769 0.6583
Q(ilm)

0.001265

mode	liq	bi	g	pl	ilm	ru	q
	0.7219	0	0.1688	0.06789	0.006733	0.004547	0.03015

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 980.0 0.2311 0.3390 0.6211 0.05024 0.06848 0.4348
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3049 0.1005 0.06466 0.03120 0.2694 0.1236
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2366 0.05619 0.04100 0.5742 0.01784 0.6577
Q(ilm)

0.001159

mode	liq	bi	g	pl	ilm	ru	q
	0.7207	0	0.1696	0.06748	0.006634	0.004577	0.03099

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.05 980.4 0.2304 0.3395 0.6212 0.05033 0.06831 0.4354
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3053 0.1006 0.06463 0.03123 0.2696 0.1237
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2371 0.05700 0.04135 0.5728 0.01800 0.6570
Q(ilm)

0.00107

mode	liq	bi	g	pl	ilm	ru	q
	0.7195	0	0.1704	0.06705	0.006534	0.004607	0.03183

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.10 980.8 0.2297 0.3400 0.6213 0.05042 0.06813 0.4360
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3056 0.1008 0.06461 0.03127 0.2697 0.1238
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2376 0.05783 0.04171 0.5713 0.01816 0.6564
Q(ilm)

0.000994

mode	liq	bi	g	pl	ilm	ru	q
0.7184	0	0.1712	0.06662	0.006432	0.004638	0.03267	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.15 981.1 0.2290 0.3405 0.6215 0.05051 0.06795 0.4366
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3060 0.1009 0.06458 0.03131 0.2699 0.1239
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2381 0.05867 0.04207 0.5698 0.01833 0.6558
Q(ilm)

0.000928

mode	liq	bi	g	pl	ilm	ru	q
0.7172	0	0.1721	0.06618	0.006329	0.004669	0.03350	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 981.5 0.2282 0.3410 0.6216 0.05060 0.06776 0.4371
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3063 0.1010 0.06456 0.03135 0.2700 0.1240
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2386 0.05952 0.04244 0.5683 0.01850 0.6551
Q(ilm)

0.00087

mode	liq	bi	g	pl	ilm	ru	q
0.7161	0	0.1729	0.06574	0.006225	0.004700	0.03433	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.25 981.9 0.2275 0.3415 0.6217 0.05068 0.06757 0.4377
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3067 0.1012 0.06454 0.03139 0.2701 0.1241
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2391 0.06038 0.04281 0.5667 0.01867 0.6545
Q(ilm)

0.00082

mode	liq	bi	g	pl	ilm	ru	q
0.7149	0	0.1738	0.06528	0.006119	0.004732	0.03516	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.30 982.2 0.2268 0.3420 0.6218 0.05076 0.06738 0.4383
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3071 0.1013 0.06453 0.03143 0.2703 0.1242
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2397 0.06125 0.04319 0.5651 0.01884 0.6539
Q(ilm)

0.000775

mode	liq	bi	g	pl	ilm	ru	q
0.7138	0	0.1747	0.06482	0.006012	0.004764	0.03598	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.35 982.6 0.2261 0.3426 0.6220 0.05084 0.06718 0.4389

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3074 0.1015 0.06452 0.03147 0.2704 0.1244

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2402 0.06213 0.04356 0.5635 0.01902 0.6533

Q(ilm)

0.000735

mode	liq	bi	g	pl	ilm	ru	q
0.7126	0	0.1755	0.06436	0.005904	0.004796	0.03680	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.40 982.9 0.2254 0.3431 0.6221 0.05091 0.06698 0.4396

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3078 0.1016 0.06451 0.03151 0.2705 0.1245

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2408 0.06302 0.04395 0.5619 0.01920 0.6526

Q(ilm)

0.000699

mode	liq	bi	g	pl	ilm	ru	q
0.7114	0	0.1764	0.06388	0.005794	0.004829	0.03762	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.45 983.3 0.2247 0.3436 0.6223 0.05098 0.06677 0.4402

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3081 0.1018 0.06450 0.03155 0.2707 0.1246

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2413 0.06393 0.04433 0.5602 0.01938 0.6520

Q(ilm)

0.000666

mode	liq	bi	g	pl	ilm	ru	q
0.7103	0	0.1774	0.06340	0.005683	0.004862	0.03843	

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.50 983.6 0.2240 0.3441 0.6224 0.05105 0.06656 0.4408

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3085 0.1019 0.06450 0.03159 0.2708 0.1247

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2419 0.06484 0.04472 0.5585 0.01957 0.6514

Q(ilm)

0.000637

mode	liq	bi	g	pl	ilm	ru	q
0.7091	0	0.1783	0.06291	0.005570	0.004895	0.03924	

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.55	983.9	0.2233	0.3447	0.6225	0.05112	0.06634	0.4414
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3089	0.1021	0.06450	0.03163	0.2709	0.1248	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2424	0.06576	0.04512	0.5568	0.01976	0.6508	
	Q(ilm)						
	0.00061						

mode	liq	bi	g	pl	ilm	ru	q
	0.7079	0	0.1792	0.06241	0.005456	0.004928	0.04005

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	984.3	0.2226	0.3452	0.6227	0.05118	0.06613	0.4420
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3092	0.1023	0.06450	0.03167	0.2710	0.1250	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2430	0.06669	0.04551	0.5551	0.01996	0.6502	
	Q(ilm)						
	0.000585						

mode	liq	bi	g	pl	ilm	ru	q
	0.7068	0	0.1802	0.06190	0.005341	0.004962	0.04086

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.65	984.6	0.2219	0.3458	0.6229	0.05124	0.06590	0.4427
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3096	0.1024	0.06451	0.03172	0.2712	0.1251	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2436	0.06764	0.04591	0.5533	0.02016	0.6496	
	Q(ilm)						
	0.000562						

mode	liq	bi	g	pl	ilm	ru	q
	0.7056	0	0.1811	0.06139	0.005224	0.004996	0.04166

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.70	984.9	0.2212	0.3463	0.6230	0.05130	0.06568	0.4433
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3100	0.1026	0.06452	0.03176	0.2713	0.1252	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2442	0.06859	0.04631	0.5515	0.02036	0.6490	
	Q(ilm)						
	0.000541						

mode	liq	bi	g	pl	ilm	ru	q
	0.7044	0	0.1821	0.06087	0.005105	0.005030	0.04246

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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7.75 985.2 0.2205 0.3469 0.6232 0.05135 0.06544 0.4440
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3103 0.1028 0.06453 0.03180 0.2714 0.1253
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2448 0.06954 0.04672 0.5496 0.02056 0.6483
Q(ilm)

0.000522

mode	liq	bi	g	pl	ilm	ru	q
	0.7032	0	0.1831	0.06034	0.004985	0.005065	0.04326

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 985.5 0.2198 0.3474 0.6233 0.05140 0.06521 0.4446
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3107 0.1030 0.06455 0.03185 0.2715 0.1255
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2454 0.07051 0.04713 0.5478 0.02078 0.6477
Q(ilm)

0.000504

mode	liq	bi	g	pl	ilm	ru	q
	0.7021	0	0.1841	0.05981	0.004864	0.005100	0.04406

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.85 985.8 0.2191 0.3480 0.6235 0.05145 0.06497 0.4453
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3111 0.1031 0.06457 0.03189 0.2717 0.1256
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2460 0.07148 0.04754 0.5459 0.02099 0.6471
Q(ilm)

0.000487

mode	liq	bi	g	pl	ilm	ru	q
	0.7009	0	0.1851	0.05927	0.004742	0.005136	0.04485

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.90 986.1 0.2184 0.3486 0.6237 0.05149 0.06472 0.4459
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3115 0.1033 0.06460 0.03194 0.2718 0.1257
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2466 0.07246 0.04795 0.5439 0.02121 0.6465
Q(ilm)

0.000472

mode	liq	bi	g	pl	ilm	ru	q
	0.6997	0	0.1861	0.05872	0.004618	0.005171	0.04564

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.95 986.4 0.2177 0.3491 0.6238 0.05153 0.06448 0.4466
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3118 0.1035 0.06463 0.03199 0.2719 0.1259
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2473 0.07345 0.04836 0.5419 0.02144 0.6459
Q(ilm)

0.000457

mode	liq	bi	g	pl	ilm	ru	q
	0.6985	0	0.1872	0.05816	0.004493	0.005207	0.04643

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 986.7 0.2170 0.3497 0.6240 0.05157 0.06422 0.4473
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3122 0.1037 0.06466 0.03203 0.2720 0.1260
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2479 0.07444 0.04878 0.5399 0.02167 0.6453
Q(ilm)

0.000443

mode	liq	bi	g	pl	ilm	ru	q
	0.6973	0	0.1882	0.05759	0.004366	0.005243	0.04721

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.05 987.0 0.2163 0.3503 0.6242 0.05160 0.06397 0.4479
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3126 0.1039 0.06470 0.03208 0.2721 0.1262
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2486 0.07543 0.04920 0.5379 0.02190 0.6447
Q(ilm)

0.00043

mode	liq	bi	g	pl	ilm	ru	q
	0.6962	0	0.1893	0.05702	0.004238	0.005280	0.04800

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.10 987.3 0.2156 0.3509 0.6244 0.05163 0.06371 0.4486
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3129 0.1041 0.06474 0.03213 0.2722 0.1263
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2492 0.07643 0.04962 0.5358 0.02214 0.6441
Q(ilm)

0.000418

mode	liq	bi	g	pl	ilm	ru	q
	0.6950	0	0.1904	0.05645	0.004109	0.005316	0.04878

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.15 987.6 0.2149 0.3515 0.6246 0.05165 0.06344 0.4493
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3133 0.1042 0.06479 0.03218 0.2724 0.1265
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2499 0.07744 0.05004 0.5337 0.02238 0.6435
Q(ilm)

0.000407

mode	liq	bi	g	pl	ilm	ru	q
	0.6938	0	0.1915	0.05586	0.003979	0.005353	0.04955

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 987.8 0.2142 0.3521 0.6248 0.05168 0.06317 0.4500
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3137 0.1044 0.06483 0.03223 0.2725 0.1266
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2505 0.07845 0.05046 0.5316 0.02263 0.6428
Q(ilm)

0.000396

mode	liq	bi	g	pl	ilm	ru	q
	0.6926	0	0.1926	0.05527	0.003848	0.005390	0.05033

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.25 988.1 0.2135 0.3527 0.6250 0.05170 0.06290 0.4507
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3141 0.1046 0.06489 0.03228 0.2726 0.1268
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2512 0.07945 0.05088 0.5294 0.02289 0.6422
Q(ilm)

0.000385

mode	liq	bi	g	pl	ilm	ru	q
	0.6914	0	0.1937	0.05468	0.003716	0.005427	0.05110

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.30 988.4 0.2128 0.3533 0.6252 0.05171 0.06263 0.4514
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3144 0.1048 0.06494 0.03234 0.2727 0.1269
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2519 0.08046 0.05130 0.5272 0.02315 0.6416
Q(ilm)

0.000376

mode	liq	bi	g	pl	ilm	ru	q
	0.6902	0	0.1948	0.05407	0.003583	0.005465	0.05186

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.35 988.6 0.2121 0.3539 0.6254 0.05172 0.06235 0.4521
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3148 0.1050 0.06501 0.03239 0.2728 0.1271
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2526 0.08148 0.05173 0.5249 0.02342 0.6410
Q(ilm)

0.000366

mode	liq	bi	g	pl	ilm	ru	q
	0.6890	0	0.1959	0.05347	0.003449	0.005503	0.05263

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.40	988.9	0.2114	0.3545	0.6256	0.05173	0.06207	0.4528
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3152	0.1052	0.06507	0.03244	0.2729	0.1273	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2532	0.08249	0.05215	0.5226	0.02369	0.6404	
	Q(ilm)						

0.000357

mode	liq	bi	g	pl	ilm	ru	q
	0.6879	0	0.1970	0.05285	0.003314	0.005540	0.05339

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.45	989.1	0.2107	0.3552	0.6258	0.05173	0.06178	0.4535
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3156	0.1054	0.06514	0.03250	0.2730	0.1274	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2539	0.08350	0.05257	0.5203	0.02397	0.6398	
	Q(ilm)						

0.000349

mode	liq	bi	g	pl	ilm	ru	q
	0.6867	0	0.1982	0.05223	0.003178	0.005578	0.05415

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.50	989.4	0.2100	0.3558	0.6260	0.05173	0.06149	0.4542
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3160	0.1056	0.06521	0.03255	0.2731	0.1276	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2546	0.08450	0.05299	0.5180	0.02425	0.6391	
	Q(ilm)						

0.000341

mode	liq	bi	g	pl	ilm	ru	q
	0.6855	0	0.1993	0.05161	0.003042	0.005616	0.05491

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.55	989.6	0.2094	0.3564	0.6262	0.05173	0.06120	0.4549
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3163	0.1059	0.06529	0.03261	0.2733	0.1277	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2553	0.08551	0.05341	0.5156	0.02455	0.6385	
	Q(ilm)						

0.000333

mode	liq	bi	g	pl	ilm	ru	q
	0.6843	0	0.2005	0.05099	0.002905	0.005654	0.05566

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.60 989.9 0.2087 0.3571 0.6265 0.05173 0.06091 0.4556

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3167 0.1061 0.06537 0.03267 0.2734 0.1279

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2560 0.08651 0.05383 0.5132 0.02484 0.6379

Q(ilm)

0.000326

mode	liq	bi	g	pl	ilm	ru	q
	0.6831	0	0.2016	0.05035	0.002767	0.005692	0.05641

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.65 990.1 0.2080 0.3577 0.6267 0.05172 0.06061 0.4563

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3171 0.1063 0.06545 0.03273 0.2735 0.1281

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2567 0.08751 0.05425 0.5107 0.02515 0.6373

Q(ilm)

0.000318

mode	liq	bi	g	pl	ilm	ru	q
	0.6820	0	0.2028	0.04972	0.002629	0.005731	0.05715

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.70 990.3 0.2073 0.3584 0.6269 0.05170 0.06032 0.4570

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3175 0.1065 0.06554 0.03279 0.2736 0.1282

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2574 0.08851 0.05466 0.5082 0.02546 0.6366

Q(ilm)

0.000312

mode	liq	bi	g	pl	ilm	ru	q
	0.6808	0	0.2040	0.04908	0.002491	0.005769	0.05789

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.75 990.6 0.2066 0.3590 0.6271 0.05169 0.06002 0.4577

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3178 0.1067 0.06563 0.03285 0.2737 0.1284

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2581 0.08950 0.05508 0.5057 0.02578 0.6360

Q(ilm)

0.000305

mode	liq	bi	g	pl	ilm	ru	q
	0.6796	0	0.2052	0.04844	0.002352	0.005807	0.05863

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.80	990.8	0.2060	0.3597	0.6274	0.05167	0.05971	0.4585
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3182	0.1069	0.06572	0.03291	0.2738	0.1286	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2588	0.09048	0.05549	0.5031	0.02611	0.6353	
	Q(ilm)						
0.000299							

mode	liq	bi	g	pl	ilm	ru	q
	0.6784	0	0.2063	0.04780	0.002213	0.005845	0.05937

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.85	991.0	0.2053	0.3603	0.6276	0.05164	0.05941	0.4592
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3186	0.1071	0.06582	0.03297	0.2739	0.1287	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2595	0.09146	0.05590	0.5005	0.02644	0.6347	
	Q(ilm)						
0.000292							

mode	liq	bi	g	pl	ilm	ru	q
	0.6773	0	0.2075	0.04715	0.002074	0.005883	0.06010

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.90	991.2	0.2046	0.3610	0.6278	0.05162	0.05910	0.4599
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3190	0.1073	0.06592	0.03303	0.2740	0.1289	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2602	0.09243	0.05630	0.4979	0.02678	0.6340	
	Q(ilm)						
0.000287							

mode	liq	bi	g	pl	ilm	ru	q
	0.6761	0	0.2087	0.04651	0.001935	0.005921	0.06082

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.95	991.4	0.2039	0.3616	0.6281	0.05159	0.05880	0.4606
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3193	0.1075	0.06602	0.03310	0.2741	0.1290	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.2609	0.09339	0.05671	0.4952	0.02713	0.6334	
	Q(ilm)						
0.000281							

mode	liq	bi	g	pl	ilm	ru	q
	0.6749	0	0.2099	0.04586	0.001795	0.005959	0.06155

P(kbar)	T(°C)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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9.00 991.7 0.2033 0.3623 0.6283 0.05156 0.05849 0.4613
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3197 0.1077 0.06613 0.03316 0.2742 0.1292
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2616 0.09434 0.05711 0.4925 0.02748 0.6327
Q(ilm)

0.000275

mode	liq	bi	g	pl	ilm	ru	q
	0.6738	0	0.2111	0.04521	0.001656	0.005997	0.06227

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.05 991.9 0.2026 0.3630 0.6286 0.05152 0.05818 0.4620
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3201 0.1080 0.06624 0.03323 0.2743 0.1294
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2623 0.09528 0.05750 0.4898 0.02785 0.6321
Q(ilm)

0.00027

mode	liq	bi	g	pl	ilm	ru	q
	0.6726	0	0.2123	0.04456	0.001518	0.006035	0.06298

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.10 992.1 0.2019 0.3636 0.6288 0.05148 0.05787 0.4627
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3205 0.1082 0.06635 0.03329 0.2745 0.1295
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2630 0.09622 0.05790 0.4871 0.02822 0.6314
Q(ilm)

0.000265

mode	liq	bi	g	pl	ilm	ru	q
	0.6715	0	0.2135	0.04391	0.001379	0.006072	0.06369

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.15 992.3 0.2013 0.3643 0.6291 0.05144 0.05756 0.4634
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3208 0.1084 0.06647 0.03336 0.2746 0.1297
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2637 0.09714 0.05829 0.4843 0.02860 0.6307
Q(ilm)

0.00026

mode	liq	bi	g	pl	ilm	ru	q
	0.6704	0	0.2146	0.04326	0.001241	0.006109	0.06440

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 992.5 0.2006 0.3650 0.6293 0.05140 0.05725 0.4642
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.3212 0.1086 0.06658 0.03343 0.2747 0.1298
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2644 0.09805 0.05867 0.4815 0.02899 0.6301
Q(ilm)

0.000255

mode	liq	bi	g	pl	ilm	ru	q
	0.6692	0	0.2158	0.04262	0.001103	0.006146	0.06510

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.25 992.7 0.2000 0.3656 0.6296 0.05135 0.05694 0.4649
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3216 0.1088 0.06670 0.03350 0.2748 0.1300
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2651 0.09896 0.05906 0.4786 0.02939 0.6294
Q(ilm)

0.00025

mode	liq	bi	g	pl	ilm	ru	q
	0.6681	0	0.2170	0.041970	0.0009663	0.006183	0.06579

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.30 992.9 0.1993 0.3663 0.6298 0.05130 0.05663 0.4656
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3219 0.1090 0.06682 0.03356 0.2749 0.1302
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2658 0.09985 0.05944 0.4757 0.02980 0.6287
Q(ilm)

0.000246

mode	liq	bi	g	pl	ilm	ru	q
	0.6670	0	0.2182	0.041320	0.0008297	0.006220	0.06648

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.35 993.1 0.1987 0.3670 0.6301 0.05125 0.05632 0.4663
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3223 0.1092 0.06694 0.03363 0.2750 0.1303
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.2665 0.1007 0.05981 0.4728 0.03021 0.6280
Q(ilm)

0.000241

mode	liq	bi	g	pl	ilm	ru	q
	0.6659	0	0.2193	0.040680	0.0006939	0.006256	0.06717

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 993.3 0.1980 0.3677 0.6303 0.05119 0.05601 0.4670
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.3227 0.1094 0.06707 0.03370 0.2751 0.1305
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.2671 0.1016 0.06018 0.4699 0.03064 0.6273

Q(ilm)

0.000237

mode	liq	bi	g	pl	ilm	ru	q
	0.6648	0	0.2205	0.040040	0.0005588	0.006292	0.06785

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.45	993.5	0.1974	0.3683	0.6306	0.05114	0.05570	0.4677
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3230	0.1096	0.06720	0.03377	0.2752	0.1306
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.2678	0.1024	0.06055	0.4670	0.03107	0.6266
		Q(ilm)					

0.000233

mode	liq	bi	g	pl	ilm	ru	q
	0.6637	0	0.2217	0.039400	0.0004245	0.006328	0.06853

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.50	993.7	0.1967	0.3690	0.6308	0.05108	0.05539	0.4684
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3234	0.1099	0.06732	0.03385	0.2753	0.1308
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.2685	0.1033	0.06091	0.4640	0.03151	0.6259
		Q(ilm)					

0.000229

mode	liq	bi	g	pl	ilm	ru	q
	0.6626	0	0.2228	0.038760	0.0002911	0.006363	0.06920

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.55	993.9	0.1961	0.3697	0.6311	0.05102	0.05509	0.4690
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3237	0.1101	0.06745	0.03392	0.2755	0.1309
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.2691	0.1041	0.06127	0.4610	0.03197	0.6252
		Q(ilm)					

0.000225

mode	liq	bi	g	pl	ilm	ru	q
	0.6615	0	0.2240	0.038130	0.0001587	0.006398	0.06987

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.60	994.1	0.1955	0.3704	0.6314	0.05095	0.05478	0.4697
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3241	0.1103	0.06758	0.03399	0.2756	0.1310
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.2698	0.1049	0.06162	0.4579	0.03243	0.6244
		Q(ilm)					

0.000221

mode	liq	bi	g	pl	ilm	ru	q
	0.6604	0	0.2251	0.03750	2.726e-5	0.006432	0.07053

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, q

<== nothing in range ==>

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.00	990.0	0.2023	0.3644	0.6289	0.05051	0.05708	0.4658
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3210	0.1098	0.06691	0.03699	0.2732	0.1311	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq	
	0.2664	0.09793	0.06404	0.4849	0.02830	0.6696	

mode	liq	bi	g	pl	ru	q
	0.6696	0	0.2172	0.04356	0.006440	0.06316

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	991.4	0.2000	0.3664	0.6297	0.05068	0.05631	0.4671
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3221	0.1100	0.06713	0.03596	0.2740	0.1311	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq	
	0.2675	0.1003	0.06325	0.4762	0.02958	0.6665	

mode	liq	bi	g	pl	ru	q
	0.6665	0	0.2199	0.04154	0.006440	0.06568

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.40	992.8	0.1977	0.3684	0.6305	0.05082	0.05553	0.4685
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.3231	0.1101	0.06736	0.03498	0.2748	0.1311	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	liq	
	0.2687	0.1027	0.06248	0.4671	0.03096	0.6634	

mode	liq	bi	g	pl	ru	q
	0.6634	0	0.2225	0.03951	0.006440	0.06815

```

P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60    994.1  0.1955 0.3704 0.6314 0.05094 0.05476 0.4698
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.3241 0.1103 0.06760 0.03405 0.2756 0.1311
        x(g)  z(g)  f(g) ca(pl) k(pl)  liq
        0.2699 0.1050 0.06173 0.4578 0.03245 0.6603

```

```

mode  liq  bi  g  pl  ru  q
0.6603  0  0.2252 0.03748 0.006440 0.07055

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.80    995.4  0.1932 0.3724 0.6322 0.05102 0.05398 0.4712
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.3251 0.1105 0.06783 0.03318 0.2764 0.1311
        x(g)  z(g)  f(g) ca(pl) k(pl)  liq
        0.2710 0.1072 0.06101 0.4481 0.03405 0.6574

```

```

mode  liq  bi  g  pl  ru  q
0.6574  0  0.2278 0.03545 0.006440 0.07289

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00   996.8  0.1911 0.3744 0.6331 0.05108 0.05322 0.4725
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.3261 0.1106 0.06806 0.03236 0.2772 0.1310
        x(g)  z(g)  f(g) ca(pl) k(pl)  liq
        0.2721 0.1094 0.06031 0.4382 0.03577 0.6546

```

```

mode  liq  bi  g  pl  ru  q
0.6546  0  0.2304 0.03344 0.006440 0.07517

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20   998.1  0.1889 0.3765 0.6340 0.05111 0.05246 0.4739
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.3270 0.1108 0.06829 0.03159 0.2780 0.1310
        x(g)  z(g)  f(g) ca(pl) k(pl)  liq
        0.2732 0.1114 0.05965 0.4279 0.03762 0.6518

```

```

mode  liq  bi  g  pl  ru  q
0.6518  0  0.2329 0.03146 0.006440 0.07739

```

```

-----
P(kbar)  T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.40   999.4  0.1868 0.3785 0.6349 0.05111 0.05171 0.4752
        h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
        0.3279 0.1109 0.06851 0.03087 0.2788 0.1310
        x(g)  z(g)  f(g) ca(pl) k(pl)  liq
        0.2742 0.1134 0.05901 0.4173 0.03963 0.6491

```

```

mode  liq  bi  g  pl  ru  q
0.6491  0  0.2354 0.02951 0.006440 0.07956

```

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, g, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.00	714.7	0.1382	0.2838	0.4827	0.004840	0.04913	0.3637
	h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.5239	0.3346	0.1463	0.04741	0.1200	0.1896	
	x(ilm)	Q(ilm)					
	0.7495-5.421e-5						

mode	liq	g	pl	ilm	ru	q
	0.3293	0.2920	0.2097		0 0.006440	0.1625

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.10	721.6	0.1392	0.2880	0.4812	0.005116	0.04959	0.3681
	h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.5180	0.3333	0.1451	0.04772	0.1260	0.1815	
	x(ilm)	Q(ilm)					
	0.7496-5.527e-5						

mode	liq	g	pl	ilm	ru	q
	0.3356	0.2901	0.2067		0 0.006440	0.1612

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	728.5	0.1402	0.2920	0.4803	0.005404	0.05003	0.3724
	h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.5122	0.3321	0.1438	0.04803	0.1321	0.1736	
	x(ilm)	Q(ilm)					
	0.7493-5.641e-5						

mode	liq	g	pl	ilm	ru	q
	0.3418	0.2883	0.2037		0 0.006440	0.1598

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.30	735.3	0.1411	0.2959	0.4799	0.005708	0.05046	0.3765
	h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	
	0.5066	0.3308	0.1426	0.04834	0.1382	0.1660	
	x(ilm)	Q(ilm)					
	0.7488-5.764e-5						

mode	liq	g	pl	ilm	ru	q
	0.3480	0.2865	0.2007		0 0.006440	0.1585

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.40	742.2	0.1421	0.2998	0.4800	0.006032	0.05088	0.3806
	h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)	

0.5011 0.3295 0.1414 0.04866 0.1445 0.1585
x(ilm) Q(ilm)
0.7481-5.897e-5

mode	liq	g	pl	ilm	ru	q
	0.3542	0.2846	0.1976		0 0.006440	0.1571

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 749.0 0.1431 0.3035 0.4807 0.006378 0.05128 0.3846
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4956 0.3281 0.1402 0.04898 0.1510 0.1512
x(ilm) Q(ilm)
0.7471-6.042e-5

mode	liq	g	pl	ilm	ru	q
	0.3605	0.2828	0.1946		0 0.006440	0.1557

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 755.9 0.1441 0.3071 0.4820 0.006749 0.05166 0.3885
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4902 0.3267 0.1389 0.04930 0.1575 0.1443
x(ilm) Q(ilm)
0.7458-6.200e-5

mode	liq	g	pl	ilm	ru	q
	0.3668	0.2810	0.1915		0 0.006440	0.1543

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 762.9 0.1451 0.3107 0.4838 0.007150 0.05204 0.3924
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4848 0.3253 0.1377 0.04963 0.1642 0.1376
x(ilm) Q(ilm)
0.7443-6.373e-5

mode	liq	g	pl	ilm	ru	q
	0.3733	0.2791	0.1884		0 0.006440	0.1528

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 770.0 0.1461 0.3142 0.4860 0.007582 0.05239 0.3962
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4795 0.3238 0.1364 0.04996 0.1710 0.1312
x(ilm) Q(ilm)
0.7426-6.563e-5

mode	liq	g	pl	ilm	ru	q
	0.3798	0.2773	0.1852		0 0.006440	0.1513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 777.1 0.1472 0.3176 0.4888 0.008049 0.05273 0.3999
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)

0.4742 0.3223 0.1351 0.05030 0.1780 0.1251
x(ilm) Q(ilm)
0.7407-6.774e-5

mode	liq	g	pl	ilm	ru	q
	0.3864	0.2755	0.1819		0 0.006440	0.1498

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 784.4 0.1483 0.3209 0.4920 0.008553 0.05305 0.4036
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4689 0.3207 0.1338 0.05064 0.1851 0.1193
x(ilm) Q(ilm)
0.7385-7.006e-5

mode	liq	g	pl	ilm	ru	q
	0.3932	0.2736	0.1786		0 0.006440	0.1482

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.10 791.6 0.1495 0.3242 0.4956 0.009097 0.05334 0.4073
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4636 0.3191 0.1325 0.05099 0.1923 0.1138
x(ilm) Q(ilm)
0.7361-7.264e-5

mode	liq	g	pl	ilm	ru	q
	0.4000	0.2718	0.1752		0 0.006440	0.1465

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 799.0 0.1506 0.3274 0.4995 0.009683 0.05362 0.4108
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4584 0.3175 0.1312 0.05133 0.1997 0.1086
x(ilm) Q(ilm)
0.7335-7.552e-5

mode	liq	g	pl	ilm	ru	q
	0.4070	0.2700	0.1717		0 0.006440	0.1448

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.30 806.4 0.1518 0.3305 0.5038 0.01032 0.05388 0.4143
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4532 0.3159 0.1299 0.05168 0.2072 0.1037
x(ilm) Q(ilm)
0.7307-7.873e-5

mode	liq	g	pl	ilm	ru	q
	0.4142	0.2682	0.1681		0 0.006440	0.1431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 813.8 0.1531 0.3335 0.5083 0.01099 0.05411 0.4177
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)

0.4479 0.3142 0.1286 0.05204 0.2149 0.09906
x(ilm) Q(ilm)
0.7277-8.234e-5

mode	liq	g	pl	ilm	ru	q
	0.4215	0.2664	0.1645		0 0.006440	0.1412

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 821.3 0.1543 0.3365 0.5131 0.01173 0.05432 0.4210
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4427 0.3125 0.1273 0.05239 0.2227 0.09466
x(ilm) Q(ilm)
0.7245-8.641e-5

mode	liq	g	pl	ilm	ru	q
	0.4289	0.2646	0.1607		0 0.006440	0.1394

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 828.9 0.1557 0.3393 0.5181 0.01251 0.05451 0.4243
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4375 0.3108 0.1260 0.05275 0.2307 0.09048
x(ilm) Q(ilm)
0.7211-9.103e-5

mode	liq	g	pl	ilm	ru	q
	0.4365	0.2629	0.1568		0 0.006440	0.1374

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.70 836.4 0.1570 0.3421 0.5232 0.01335 0.05467 0.4274
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4323 0.3091 0.1247 0.05311 0.2388 0.08651
x(ilm) Q(ilm)
0.7175-9.630e-5

mode	liq	g	pl	ilm	ru	q
	0.4442	0.2611	0.1528		0 0.006440	0.1354

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 844.0 0.1584 0.3449 0.5285 0.01425 0.05481 0.4305
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4271 0.3073 0.1234 0.05347 0.2471 0.08274
x(ilm) Q(ilm)
0.7138-0.0001024

mode	liq	g	pl	ilm	ru	q
	0.4522	0.2594	0.1487		0 0.006440	0.1333

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.90 851.7 0.1598 0.3475 0.5339 0.01522 0.05493 0.4335
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)

0.4219 0.3056 0.1222 0.05383 0.2555 0.07915
x(ilm) Q(ilm)
0.7100-0.0001095

mode	liq	g	pl	ilm	ru	q
	0.4603	0.2577	0.1444		0 0.006440	0.1312

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 859.3 0.1613 0.3500 0.5394 0.01626 0.05502 0.4364
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4167 0.3038 0.1209 0.05419 0.2642 0.07572
x(ilm) Q(ilm)
0.7060-0.0001178

mode	liq	g	pl	ilm	ru	q
	0.4686	0.2560	0.1400		0 0.006440	0.1289

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.10 867.0 0.1628 0.3525 0.5450 0.01737 0.05509 0.4392
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4115 0.3020 0.1197 0.05455 0.2730 0.07244
x(ilm) Q(ilm)
0.7018-0.0001277

mode	liq	g	pl	ilm	ru	q
	0.4772	0.2543	0.1355		0 0.006440	0.1266

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 874.7 0.1643 0.3549 0.5506 0.01856 0.05514 0.4419
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4063 0.3002 0.1185 0.05492 0.2821 0.06929
x(ilm) Q(ilm)
0.6976-0.0001397

mode	liq	g	pl	ilm	ru	q
	0.4860	0.2526	0.1308		0 0.006440	0.1242

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.30 882.5 0.1659 0.3571 0.5563 0.01984 0.05517 0.4445
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.4010 0.2984 0.1174 0.05529 0.2915 0.06626
x(ilm) Q(ilm)
0.6932-0.0001546

mode	liq	g	pl	ilm	ru	q
	0.4950	0.2510	0.1259		0 0.006440	0.1217

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 890.3 0.1676 0.3593 0.5620 0.02121 0.05517 0.4471
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)

0.3957 0.2965 0.1162 0.05567 0.3011 0.06333
x(ilm) Q(ilm)
0.6887-0.0001735

mode	liq	g	pl	ilm	ru	q
	0.5044	0.2493	0.1209		0 0.006440	0.1190

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.50 898.1 0.1693 0.3613 0.5677 0.02268 0.05516 0.4495
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3904 0.2947 0.1151 0.05605 0.3110 0.06050
x(ilm) Q(ilm)
0.6841-0.0001982

mode	liq	g	pl	ilm	ru	q
	0.5140	0.2476	0.1156		0 0.006440	0.1163

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 906.1 0.1710 0.3633 0.5735 0.02427 0.05513 0.4519
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3850 0.2928 0.1140 0.05643 0.3213 0.05775
x(ilm) Q(ilm)
0.6793-0.0002321

mode	liq	g	pl	ilm	ru	q
	0.5241	0.2460	0.1102		0 0.006440	0.1134

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.70 914.1 0.1729 0.3650 0.5792 0.02598 0.05509 0.4542
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3796 0.2909 0.1129 0.05683 0.3320 0.05507
x(ilm) Q(ilm)
0.6745-0.0002814

mode	liq	g	pl	ilm	ru	q
	0.5345	0.2443	0.1045		0 0.006440	0.1103

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 922.1 0.1748 0.3667 0.5850 0.02783 0.05504 0.4564
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3741 0.2889 0.1119 0.05724 0.3431 0.05245
x(ilm) Q(ilm)
0.6696-0.0003598

mode	liq	g	pl	ilm	ru	q
	0.5453	0.2426	0.09854		0 0.006440	0.1071

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.90 930.3 0.1768 0.3681 0.5907 0.02984 0.05498 0.4585
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)

0.3685 0.2869 0.1109 0.05766 0.3547 0.04989
x(ilm) Q(ilm)
0.6645-0.0005039

mode liq g pl ilm ru q
0.5567 0.2408 0.09234 0 0.006440 0.1037

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 938.7 0.1789 0.3693 0.5965 0.03202 0.05491 0.4605
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3628 0.2848 0.1099 0.05810 0.3668 0.04737
x(ilm) Q(ilm)
0.6593-0.0008576

mode liq g pl ilm ru q
0.5686 0.2390 0.08585 0 0.006440 0.1001

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.10 947.1 0.1812 0.3704 0.6022 0.03440 0.05484 0.4624
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3569 0.2827 0.1090 0.05857 0.3795 0.04488
x(ilm) Q(ilm)
0.6540-0.003112

mode liq g pl ilm ru q
0.5812 0.2371 0.07903 0 0.006440 0.09624

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 955.8 0.1835 0.3711 0.6080 0.03701 0.05478 0.4642
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3509 0.2805 0.1081 0.05907 0.3930 0.04243
x(ilm) Q(ilm)
0.6486 0.001811

mode liq g pl ilm ru q
0.5945 0.2352 0.07185 0 0.006440 0.09208

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.30 964.7 0.1861 0.3716 0.6137 0.03988 0.05473 0.4658
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3448 0.2782 0.1073 0.05961 0.4072 0.04000
x(ilm) Q(ilm)
0.64300.0006856

mode liq g pl ilm ru q
0.6087 0.2331 0.06425 0 0.006440 0.08757

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.40 973.8 0.1888 0.3717 0.6194 0.04304 0.05469 0.4673
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)

0.3384 0.2757 0.1065 0.06020 0.4222 0.03758
x(ilm) Q(ilm)
0.63720.0004161

mode	liq	g	pl	ilm	ru	q
	0.6239	0.2308	0.05620		0	0.006440 0.08267

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.50 983.3 0.1918 0.3714 0.6251 0.04657 0.05468 0.4687
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3318 0.2731 0.1058 0.06086 0.4383 0.03518
x(ilm) Q(ilm)
0.63120.0002947

mode	liq	g	pl	ilm	ru	q
	0.6403	0.2284	0.04760		0	0.006440 0.07729

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 993.1 0.1950 0.3706 0.6308 0.05050 0.05471 0.4698
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3249 0.2702 0.1052 0.06161 0.4554 0.03278
x(ilm) Q(ilm)
0.62500.0002254

mode	liq	g	pl	ilm	ru	q
	0.6582	0.2256	0.03837		0	0.006440 0.07133

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 938.7 0.1789 0.3693 0.5965 0.03202 0.05491 0.4605
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3628 0.2848 0.1099 0.05810 0.3668 0.04737
x(ilm) Q(ilm)
0.6593-0.0008576

mode	liq	g	pl	ilm	ru	q
	0.5686	0.2390	0.08585		0	0.006440 0.1001

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.20 955.8 0.1835 0.3711 0.6080 0.03701 0.05478 0.4642
h2o(L) x(g) z(g) f(g) ca(pl) k(pl)
0.3509 0.2805 0.1081 0.05907 0.3930 0.04243
x(ilm) Q(ilm)
0.6486 0.001812

mode	liq	g	pl	ilm	ru	q
	0.5945	0.2352	0.07185		0	0.006440 0.09208

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.40	973.8	0.1888	0.3717	0.6194	0.04304	0.05469	0.4673
		h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)
		0.3384	0.2757	0.1065	0.06020	0.4222	0.03758
		x(ilm)	Q(ilm)				
		0.63720	0.004161				

mode	liq	g	pl	ilm	ru	q
	0.6239	0.2308	0.05620		0	0.006440 0.08267

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.60	993.1	0.1950	0.3706	0.6308	0.05050	0.05471	0.4698
		h2o(L)	x(g)	z(g)	f(g)	ca(pl)	k(pl)
		0.3249	0.2702	0.1052	0.06161	0.4554	0.03278
		x(ilm)	Q(ilm)				
		0.62500	0.002254				

mode	liq	g	pl	ilm	ru	q
	0.6582	0.2256	0.03837		0	0.006440 0.07133

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, ksp, pl, ru, q

<== nothing in range ==>

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, ksp, pl, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
16.20	998.1	0.1208	0.3855	0.6992	0.04069	0.02403	0.5452
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4268	0.1372	0.09489	0.02995	0.2653	0.1519
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.3485	0.1447	0.04811	0.5344	0.05337	0.1077
		k(pl)					
		0.2288					

mode	liq	bi	g	ksp	pl	ru	q
------	-----	----	---	-----	----	----	---

0.4092 0.05369 0.2723 0 0.08549 0.004576 0.1747

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.30 995.1 0.1186 0.3835 0.7020 0.04021 0.02271 0.5475
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4327 0.1386 0.09743 0.03073 0.2630 0.1532
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.3525 0.1452 0.04788 0.5288 0.05114 0.1085
k(pl)
0.2237

mode liq bi g ksp pl ru q
0.3984 0.05709 0.2722 0 0.08979 0.004475 0.1781

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
16.40 992.1 0.1165 0.3815 0.7047 0.03975 0.02143 0.5496
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4386 0.1400 0.1000 0.03153 0.2607 0.1543
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.3563 0.1457 0.04766 0.5232 0.04905 0.1093
k(pl)
0.2188

mode liq bi g ksp pl ru q
0.3880 0.06034 0.2720 0 0.09392 0.004380 0.1814

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.10 970.6 0.1024 0.3663 0.7190 0.03689 0.01377 0.5600
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4783 0.1473 0.1204 0.03775 0.2459 0.1598
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.3785 0.1488 0.04620 0.4849 0.03701 0.1132
k(pl)
0.1887

mode liq bi g ksp pl ru q
0.3273 0.07980 0.2693 0 0.1191 0.003869 0.2007

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
17.30 964.5 0.09857 0.3618 0.7218 0.03621 0.01202 0.5618
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4891 0.1487 0.1271 0.03973 0.2420 0.1605
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.3838 0.1497 0.04579 0.4740 0.03426 0.1140
k(pl)
0.1812

mode liq bi g ksp pl ru q
0.3129 0.08453 0.2681 0 0.1252 0.003759 0.2055

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.80    949.4  0.08936  0.3505  0.7270  0.03471 0.008481 0.5648
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5147  0.1512  0.1450  0.04485  0.2328  0.1608
        x(g)   z(g)   f(g)   na(ksp)  ca(ksp)  ca(pl)
        0.3950  0.1518  0.04476  0.4479  0.02847  0.1154
        k(pl)
0.1643

```

```

mode  liq  bi  g  ksp  pl  ru  q
      0.2820 0.09498 0.2648  0  0.1387 0.003539 0.2160

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
17.90    946.4  0.08761  0.3482  0.7278  0.03444 0.007907 0.5652
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5195  0.1516  0.1488  0.04588  0.2311  0.1607
        x(g)   z(g)   f(g)   na(ksp)  ca(ksp)  ca(pl)
        0.3970  0.1523  0.04455  0.4429  0.02747  0.1155
        k(pl)
0.1613

```

```

mode  liq  bi  g  ksp  pl  ru  q
      0.2766 0.09685 0.2641  0  0.1411 0.003503 0.2178

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.00    943.5  0.08590  0.3460  0.7285  0.03418 0.007373 0.5655
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5243  0.1519  0.1526  0.04689  0.2294  0.1605
        x(g)   z(g)   f(g)   na(ksp)  ca(ksp)  ca(pl)
        0.3989  0.1528  0.04434  0.4381  0.02652  0.1156
        k(pl)
0.1584

```

```

mode  liq  bi  g  ksp  pl  ru  q
      0.2714 0.09866 0.2634  0  0.1434 0.003469 0.2197

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.10    940.6  0.08422  0.3437  0.7291  0.03393 0.006876 0.5657
        h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
        0.5289  0.1521  0.1564  0.04790  0.2277  0.1602
        x(g)   z(g)   f(g)   na(ksp)  ca(ksp)  ca(pl)
        0.4007  0.1533  0.04413  0.4333  0.02562  0.1156
        k(pl)
0.1556

```

```

mode  liq  bi  g  ksp  pl  ru  q
      0.2665 0.1004 0.2627  0  0.1455 0.003437 0.2214

```

```

P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
18.20    937.8  0.08257  0.3415  0.7297  0.03369 0.006415 0.5659

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5335 0.1523 0.1603 0.04890 0.2261 0.1599
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4025 0.1538 0.04391 0.4286 0.02475 0.1156
 k(pl)

0.1529

mode	liq	bi	g	ksp	pl	ru	q
	0.2617	0.1021	0.2620	0	0.1476	0.003407	0.2231

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.30 934.9 0.08096 0.3393 0.7302 0.03345 0.005986 0.5660
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5380 0.1525 0.1642 0.04988 0.2246 0.1596
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4041 0.1543 0.04370 0.4240 0.02393 0.1155
 k(pl)

0.1503

mode	liq	bi	g	ksp	pl	ru	q
	0.2571	0.1037	0.2614	0	0.1496	0.003379	0.2248

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.40 932.2 0.07939 0.3371 0.7306 0.03322 0.005589 0.5661
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5423 0.1527 0.1681 0.05085 0.2231 0.1592
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4057 0.1548 0.04349 0.4196 0.02314 0.1154
 k(pl)

0.1478

mode	liq	bi	g	ksp	pl	ru	q
	0.2528	0.1053	0.2607	0	0.1516	0.003353	0.2263

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.50 929.4 0.07784 0.3350 0.7310 0.03300 0.005221 0.5661
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5466 0.1528 0.1720 0.05180 0.2216 0.1587
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4073 0.1553 0.04327 0.4152 0.02239 0.1152
 k(pl)

0.1454

mode	liq	bi	g	ksp	pl	ru	q
	0.2486	0.1068	0.2600	0	0.1534	0.003328	0.2279

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 18.60 926.7 0.07634 0.3329 0.7314 0.03279 0.004880 0.5661
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5508 0.1529 0.1759 0.05272 0.2201 0.1583

x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4088 0.1559 0.04306 0.4110 0.02168 0.1149
k(pl)

0.1431

mode	liq	bi	g	ksp	pl	ru	q
	0.2446	0.1083	0.2593	0	0.1551	0.003305	0.2294

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.70 924.1 0.07486 0.3308 0.7317 0.03258 0.004563 0.5661
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5549 0.1530 0.1799 0.05363 0.2187 0.1578
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4103 0.1565 0.04285 0.4068 0.02099 0.1146
k(pl)

0.1409

mode	liq	bi	g	ksp	pl	ru	q
	0.2407	0.1097	0.2587	0	0.1568	0.003283	0.2308

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.80 921.4 0.07342 0.3287 0.7320 0.03237 0.004270 0.5660
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5589 0.1530 0.1838 0.05451 0.2173 0.1572
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4117 0.1570 0.04264 0.4028 0.02033 0.1143
k(pl)

0.1388

mode	liq	bi	g	ksp	pl	ru	q
	0.2370	0.1111	0.2581	0	0.1584	0.003263	0.2322

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
18.90 918.9 0.07201 0.3266 0.7322 0.03217 0.003999 0.5659
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5629 0.1530 0.1877 0.05538 0.2160 0.1567
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4130 0.1576 0.04243 0.3988 0.01970 0.1139
k(pl)

0.1367

mode	liq	bi	g	ksp	pl	ru	q
	0.2335	0.1124	0.2574	0	0.1599	0.003243	0.2335

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.00 916.3 0.07063 0.3246 0.7324 0.03198 0.003747 0.5658
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5667 0.1530 0.1917 0.05621 0.2147 0.1561
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4143 0.1582 0.04222 0.3950 0.01910 0.1134

k(pl)

0.1347

mode	liq	bi	g	ksp	pl	ru	q
	0.2300	0.1137	0.2568		0	0.1614	0.003225 0.2348

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.10 913.8 0.06929 0.3226 0.7326 0.03179 0.003513 0.5657
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5705 0.1530 0.1956 0.05703 0.2134 0.1555
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4156 0.1589 0.04201 0.3912 0.01852 0.1130
k(pl)

0.1328

mode	liq	bi	g	ksp	pl	ru	q
	0.2267	0.1150	0.2562		0	0.1628	0.003208 0.2361

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.20 911.4 0.06797 0.3207 0.7327 0.03160 0.003296 0.5655
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5741 0.1529 0.1995 0.05782 0.2121 0.1548
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4168 0.1595 0.04181 0.3876 0.01796 0.1124
k(pl)

0.131

mode	liq	bi	g	ksp	pl	ru	q
	0.2236	0.1162	0.2557		0	0.1641	0.003192 0.2373

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.30 909.0 0.06669 0.3188 0.7329 0.03142 0.003095 0.5653
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5777 0.1529 0.2034 0.05858 0.2109 0.1542
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4180 0.1601 0.04160 0.3840 0.01742 0.1119
k(pl)

0.1292

mode	liq	bi	g	ksp	pl	ru	q
	0.2205	0.1173	0.2551		0	0.1654	0.003177 0.2385

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.40 906.6 0.06543 0.3169 0.7330 0.03124 0.002908 0.5651
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5813 0.1528 0.2072 0.05932 0.2097 0.1535
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4192 0.1608 0.04140 0.3805 0.01691 0.1112
k(pl)

0.1275

mode	liq	bi	g	ksp	pl	ru	q
	0.2176	0.1185	0.2546		0	0.1666	0.003163 0.2397

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.50	904.2	0.06421	0.3150	0.7330	0.03107	0.002734	0.5649
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5847	0.1527	0.2111	0.06004	0.2086	0.1529	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4203	0.1615	0.04120	0.3771	0.01641	0.1106	
	k(pl)						
	0.1259						

mode	liq	bi	g	ksp	pl	ru	q
	0.2147	0.1196	0.2541		0	0.1677	0.003150 0.2408

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.60	901.9	0.06301	0.3131	0.7331	0.03090	0.002573	0.5646
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5881	0.1526	0.2149	0.06073	0.2074	0.1522	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4214	0.1621	0.04100	0.3737	0.01593	0.1099	
	k(pl)						
	0.1243						

mode	liq	bi	g	ksp	pl	ru	q
	0.2120	0.1206	0.2536		0	0.1688	0.003138 0.2419

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.70	899.7	0.06183	0.3113	0.7331	0.03073	0.002423	0.5644
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5914	0.1525	0.2187	0.06140	0.2063	0.1515	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4225	0.1628	0.04081	0.3705	0.01547	0.1092	
	k(pl)						
	0.1227						

mode	liq	bi	g	ksp	pl	ru	q
	0.2094	0.1217	0.2531		0	0.1698	0.003126 0.2429

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.80	897.5	0.06069	0.3095	0.7331	0.03056	0.002283	0.5641
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5947	0.1524	0.2225	0.06204	0.2053	0.1508	
	x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)	
	0.4235	0.1635	0.04061	0.3673	0.01503	0.1084	
	k(pl)						
	0.1212						

mode	liq	bi	g	ksp	pl	ru	q
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0.2068 0.1227 0.2526 0 0.1708 0.003115 0.2440

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.90 895.3 0.05957 0.3078 0.7331 0.03040 0.002153 0.5638
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5978 0.1523 0.2263 0.06267 0.2042 0.1500
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4245 0.1642 0.04042 0.3642 0.01460 0.1076
k(pl)
0.1198

mode liq bi g ksp pl ru q
0.2043 0.1236 0.2522 0 0.1718 0.003105 0.2450

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
20.00 893.1 0.05848 0.3060 0.7330 0.03024 0.002031 0.5635
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6010 0.1521 0.2300 0.06327 0.2032 0.1493
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4255 0.1649 0.04024 0.3611 0.01418 0.1068
k(pl)
0.1184

mode liq bi g ksp pl ru q
0.2020 0.1246 0.2518 0 0.1727 0.003095 0.2459

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, ksp, pl, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.71 899.4 0.06169 0.3111 0.7331 0.03071 0.002405 0.5643
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5918 0.1525 0.2192 0.06148 0.2062 0.1514
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4226 0.1629 0.04078 0.3701 0.01542 0.1091
k(pl)
0.1225

mode liq bi g ksp pl ru ky q
0.2090 0.1218 0.2530 0 0.1700 0.003124 0 0.2431

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, ksp, pl, ru, ky, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.80	899.0	0.06093	0.3109	0.7364	0.03041	0.002386	0.5647
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5932	0.1527	0.2185	0.06098	0.2060	0.1518
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4235	0.1645	0.04086	0.3705	0.01517	0.1069
		k(pl)					
		0.123					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2078	0.1227	0.2526		0	0.1696	0.0031020	0.0003935 0.2437

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
19.90	898.5	0.06008	0.3107	0.7400	0.03007	0.002365	0.5652
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5947	0.1528	0.2177	0.06042	0.2058	0.1524
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4246	0.1663	0.04095	0.3710	0.01488	0.1045
		k(pl)					
		0.1234					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2064	0.1238	0.2521		0	0.1692	0.0030770	0.0008342 0.2445

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
20.00	898.0	0.05925	0.3104	0.7436	0.02974	0.002344	0.5657
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5961	0.1530	0.2169	0.05987	0.2056	0.1529
		x(g)	z(g)	f(g)	na(ksp)	ca(ksp)	ca(pl)
		0.4257	0.1680	0.04104	0.3714	0.01460	0.1022
		k(pl)					
		0.1239					

mode	liq	bi	g	ksp	pl	ru	ky	q
	0.2051	0.1248	0.2517		0	0.1689	0.003053	0.001265 0.2452

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.50	744.0	0.1215	0.2301	0.9298	0.008646	0.006731	0.5373
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6283	0.2095	0.1439	0.03524	0.1213	0.2706
		x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)

0.1317 0.7328 0.4870 0.02517 0.005250 0.3696
k(pl) x(ilm) Q(ilm)
0.003416 0.6746-8.312e-5

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.1486	0.2145	0	0.1233	0.2494	0.0097930	0.0002345	0.2542

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 731.7 0.1172 0.2220 0.9362 0.008044 0.005685 0.5328
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6427 0.2099 0.1452 0.03625 0.1160 0.2747
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1299 0.7500 0.4926 0.02584 0.005029 0.3650
k(pl) x(ilm) Q(ilm)
0.003003 0.6567-8.807e-5

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.1411	0.2161	0	0.1234	0.2528	0.0092600	0.0006047	0.2567

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 719.0 0.1126 0.2138 0.9424 0.007471 0.004769 0.5276
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6574 0.2099 0.1466 0.03726 0.1107 0.2788
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1277 0.7667 0.4981 0.02658 0.004794 0.3605
k(pl) x(ilm) Q(ilm)
0.002613 0.6376-9.467e-5

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.1340	0.2175	0	0.1234	0.2561	0.0087580	0.0009651	0.2592

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 705.7 0.1078 0.2054 0.9483 0.006925 0.003968 0.5216
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6723 0.2097 0.1482 0.03826 0.1054 0.2829
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1253 0.7828 0.5036 0.02740 0.004547 0.3562
k(pl) x(ilm) Q(ilm)
0.002250 0.6172-0.0001038

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.1272	0.2188	0	0.1234	0.2593	0.008284	0.001317	0.2616

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 691.8 0.1029 0.1968 0.9538 0.006406 0.003273 0.5147
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6873 0.2092 0.1498 0.03924 0.1000 0.2870
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1225 0.7983 0.5090 0.02831 0.004287 0.3520
k(pl) x(ilm) Q(ilm)

0.001915 0.5954-0.0001172

mode liq bi cd g pl ilm ru q
0.1208 0.2200 0 0.1234 0.2623 0.007839 0.001659 0.2639
calcs use:

composition (from script)

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, ksp, pl, ru, ky, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.72 899.4 0.06164 0.3111 0.7334 0.03069 0.002403 0.5643
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5919 0.1524 0.2192 0.06146 0.2062 0.1513
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4225 0.1629 0.04078 0.3702 0.01540 0.1089
k(pl)
0.1226

mode liq bi g ksp pl ru ky q
0.2091 0.1216 0.25320.0001922 0.1698 0.003128 0 0.2430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.74 899.5 0.06151 0.3112 0.7342 0.03065 0.002400 0.5641
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5920 0.1523 0.2190 0.06139 0.2062 0.1513
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4222 0.1630 0.04078 0.3704 0.01537 0.1084
k(pl)
0.1228

mode liq bi g ksp pl ru ky q
0.2091 0.1212 0.25360.0007058 0.1693 0.003139 0 0.2430

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.76 899.5 0.06137 0.3112 0.7350 0.03060 0.002397 0.5639
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5922 0.1521 0.2188 0.06132 0.2063 0.1512
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4219 0.1631 0.04078 0.3707 0.01533 0.1079
k(pl)
0.123

mode liq bi g ksp pl ru ky q

0.2092 0.1208 0.2539 0.001218 0.1688 0.003149 0 0.2429

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.78 899.6 0.06124 0.3113 0.7359 0.03056 0.002393 0.5637
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5923 0.1519 0.2186 0.06125 0.2063 0.1511
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4216 0.1631 0.04078 0.3710 0.01530 0.1075
k(pl)
0.1232

mode liq bi g ksp pl ru ky q
0.2093 0.1204 0.2543 0.001729 0.1683 0.003159 0 0.2428

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.80 899.7 0.06111 0.3113 0.7367 0.03052 0.002390 0.5636
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5924 0.1517 0.2184 0.06118 0.2064 0.1510
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4213 0.1632 0.04077 0.3713 0.01526 0.1070
k(pl)
0.1234

mode liq bi g ksp pl ru ky q
0.2093 0.1201 0.2547 0.002238 0.1678 0.003169 0 0.2427

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.82 899.7 0.06098 0.3114 0.7375 0.03047 0.002387 0.5634
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5926 0.1516 0.2183 0.06111 0.2064 0.1509
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4210 0.1633 0.04077 0.3715 0.01523 0.1065
k(pl)
0.1235

mode liq bi g ksp pl ru ky q
0.2094 0.1197 0.2551 0.002746 0.1672 0.003179 0 0.2427

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
19.84 899.8 0.06084 0.3114 0.7383 0.03043 0.002384 0.5632
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5927 0.1514 0.2181 0.06104 0.2064 0.1509
x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
0.4207 0.1634 0.04077 0.3718 0.01519 0.1061
k(pl)
0.1237

mode liq bi g ksp pl ru ky q
0.2095 0.1193 0.2555 0.003252 0.1667 0.003189 0 0.2426

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.86 899.9 0.06071 0.3115 0.7391 0.03038 0.002380 0.5630
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5929 0.1512 0.2179 0.06098 0.2065 0.1508
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4204 0.1634 0.04077 0.3721 0.01516 0.1056
 k(pl)
 0.1239

mode liq bi g ksp pl ru ky q
 0.2095 0.1189 0.2558 0.003757 0.1662 0.003199 0 0.2425

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.88 899.9 0.06058 0.3115 0.7399 0.03034 0.002377 0.5629
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5930 0.1511 0.2177 0.06091 0.2065 0.1507
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4201 0.1635 0.04077 0.3723 0.01512 0.1051
 k(pl)
 0.1241

mode liq bi g ksp pl ru ky q
 0.2096 0.1185 0.2562 0.004260 0.1657 0.003209 0 0.2425

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.90 900.0 0.06045 0.3116 0.7407 0.03029 0.002374 0.5627
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5931 0.1509 0.2175 0.06084 0.2065 0.1506
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4198 0.1636 0.04076 0.3726 0.01509 0.1047
 k(pl)
 0.1243

mode liq bi g ksp pl ru ky q
 0.2097 0.1181 0.2566 0.004762 0.1652 0.003219 0 0.2424

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.92 900.0 0.06032 0.3116 0.7415 0.03025 0.002371 0.5625
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5933 0.1507 0.2174 0.06077 0.2066 0.1506
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4195 0.1636 0.04076 0.3729 0.01505 0.1042
 k(pl)
 0.1245

mode liq bi g ksp pl ru ky q
 0.2097 0.1178 0.2570 0.005262 0.1647 0.003229 0 0.2423

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.94 900.1 0.06019 0.3117 0.7423 0.03021 0.002368 0.5624

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5934 0.1506 0.2172 0.06071 0.2066 0.1505
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4192 0.1637 0.04076 0.3731 0.01502 0.1038
 k(pl)

0.1247

mode	liq	bi	g	ksp	pl	ru	ky	q		
	0.2098	0.1174	0.2573	0.005761	0.1643	0.003238	0	0.2423		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.96 900.1 0.06005 0.3117 0.7431 0.03016 0.002364 0.5622
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5936 0.1504 0.2170 0.06064 0.2066 0.1504
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4189 0.1638 0.04076 0.3734 0.01498 0.1033
 k(pl)

0.1248

mode	liq	bi	g	ksp	pl	ru	ky	q		
	0.2098	0.1170	0.2577	0.006258	0.1638	0.003248	0	0.2422		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 19.98 900.2 0.05992 0.3118 0.7439 0.03012 0.002361 0.5620
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5937 0.1503 0.2168 0.06057 0.2067 0.1503
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4187 0.1638 0.04076 0.3736 0.01495 0.1028
 k(pl)

0.125

mode	liq	bi	g	ksp	pl	ru	ky	q		
	0.2099	0.1167	0.2580	0.006753	0.1633	0.003258	0	0.2421		

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 20.00 900.3 0.05979 0.3118 0.7447 0.03007 0.002358 0.5619
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5938 0.1501 0.2167 0.06051 0.2067 0.1503
 x(g) z(g) f(g) na(ksp) ca(ksp) ca(pl)
 0.4184 0.1639 0.04075 0.3739 0.01491 0.1024
 k(pl)

0.1252

mode	liq	bi	g	ksp	pl	ru	ky	q		
	0.2099	0.1163	0.2584	0.007247	0.1628	0.003267	0	0.2421		

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 750.1 0.1238 0.2342 0.9264 0.008966 0.007312 0.5392
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6209 0.2092 0.1432 0.03473 0.1240 0.2685
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1325 0.7239 0.4840 0.02485 0.005359 0.3721
k(pl) x(ilm) Q(ilm)
0.003638 0.6832-8.113e-5

mode liq bi cd g pl ilm ru q
0.1526 0.2136 0 0.1233 0.2476 0.01007 4.412e-5 0.2528

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 744.0 0.1215 0.2301 0.9298 0.008646 0.006731 0.5373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6283 0.2095 0.1439 0.03524 0.1213 0.2706
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1317 0.7328 0.4870 0.02517 0.005250 0.3696
k(pl) x(ilm) Q(ilm)
0.003416 0.6746-8.312e-5

mode liq bi cd g pl ilm ru q
0.1486 0.2145 0 0.1233 0.2494 0.0097930 0.002345 0.2542

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.55 737.9 0.1194 0.2261 0.9331 0.008339 0.006190 0.5351
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6355 0.2097 0.1446 0.03575 0.1186 0.2727
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1308 0.7415 0.4898 0.02549 0.005140 0.3673
k(pl) x(ilm) Q(ilm)
0.003204 0.6658-8.542e-5

mode liq bi cd g pl ilm ru q
0.1448 0.2153 0 0.1233 0.2511 0.0095220 0.004214 0.2555

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 731.7 0.1172 0.2220 0.9362 0.008044 0.005685 0.5328
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6427 0.2099 0.1452 0.03625 0.1160 0.2747
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1299 0.7500 0.4926 0.02584 0.005029 0.3650
k(pl) x(ilm) Q(ilm)
0.003003 0.6567-8.807e-5

mode liq bi cd g pl ilm ru q
0.1411 0.2161 0 0.1234 0.2528 0.0092600.0006047 0.2567
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.44 751.5 0.1243 0.2351 0.9256 0.009041 0.007451 0.5397
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6192 0.2091 0.1431 0.03461 0.1246 0.2680
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1327 0.7218 0.4834 0.02478 0.005384 0.3726
k(pl) x(ilm) Q(ilm)
0.003690 0.6851-8.071e-5

mode liq bi cd g pl ilm ru q
0.1535 0.2134 0 0.1233 0.2472 0.01014 0 0.2525
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, cd, g, pl, ilm, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 784.5 0.1400 0.2576 0.9018 0.01098 0.01246 0.5509
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5730 0.2094 0.1329 0.03538 0.1345 0.2608
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1382 0.6577 0.4701 0.02355 0.006907 0.3879
k(pl) x(ilm) Q(ilm)
0.005130 0.6768-9.925e-5

mode liq bi cd g pl ilm q
0.1812 0.2071 0 0.1246 0.2357 0.009740 0.2417

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.05 780.8 0.1381 0.2550 0.9049 0.01074 0.01177 0.5499
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5785 0.2095 0.1341 0.03530 0.1333 0.2617
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1377 0.6656 0.4718 0.02367 0.006716 0.3860
k(pl) x(ilm) Q(ilm)
0.004946 0.6777-9.676e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1775	0.2080	0	0.1244	0.2371	0.009782	0.2431

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.10 777.1 0.1362 0.2525 0.9079 0.01050 0.01111 0.5488

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5840 0.2096 0.1352 0.03522 0.1321 0.2626

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1372 0.6733 0.4735 0.02379 0.006530 0.3841

k(pl) x(ilm) Q(ilm)

0.004767 0.6786-9.439e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1741	0.2088	0	0.1243	0.2385	0.009825	0.2445

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.15 773.3 0.1344 0.2499 0.9108 0.01026 0.01049 0.5476

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5893 0.2096 0.1364 0.03514 0.1309 0.2635

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1366 0.6808 0.4751 0.02392 0.006349 0.3823

k(pl) x(ilm) Q(ilm)

0.004595 0.6796-9.211e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1707	0.2096	0	0.1241	0.2399	0.009868	0.2458

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.20 769.6 0.1326 0.2474 0.9136 0.01004 0.009893 0.5464

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5946 0.2096 0.1375 0.03505 0.1298 0.2643

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1360 0.6883 0.4766 0.02406 0.006173 0.3805

k(pl) x(ilm) Q(ilm)

0.004427 0.6805-8.994e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1675	0.2104	0	0.1240	0.2412	0.009913	0.2470

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.25 765.8 0.1308 0.2448 0.9163 0.009818 0.009330 0.5451

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5999 0.2096 0.1387 0.03497 0.1287 0.2651

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1353 0.6955 0.4781 0.02420 0.006000 0.3788

k(pl) x(ilm) Q(ilm)

0.004264 0.6815-8.786e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1644	0.2111	0	0.1238	0.2425	0.009959	0.2482

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.30	762.1	0.1290	0.2423	0.9188	0.009604	0.008796	0.5438
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6051	0.2095	0.1398	0.03488	0.1276	0.2659	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1347	0.7027	0.4795	0.02434	0.005832	0.3771	
	k(pl)	x(ilm)	Q(ilm)				
	0.004106	0.6824	-8.586e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1613	0.2117	0	0.1237	0.2438	0.01000	0.2494

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.35	758.3	0.1273	0.2397	0.9213	0.009396	0.008288	0.5423
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6102	0.2094	0.1410	0.03478	0.1265	0.2667	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1340	0.7097	0.4809	0.02450	0.005667	0.3755	
	k(pl)	x(ilm)	Q(ilm)				
	0.003952	0.6834	-8.393e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1584	0.2124	0	0.1236	0.2450	0.01005	0.2505

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.40	754.5	0.1256	0.2371	0.9238	0.009194	0.007806	0.5409
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6153	0.2093	0.1422	0.03469	0.1254	0.2674	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1333	0.7166	0.4823	0.02465	0.005506	0.3738	
	k(pl)	x(ilm)	Q(ilm)				
	0.003802	0.6843	-8.209e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1556	0.2130	0	0.1234	0.2463	0.01010	0.2516

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.45	750.6	0.1239	0.2345	0.9261	0.008996	0.007348	0.5393
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6203	0.2091	0.1433	0.03459	0.1244	0.2681	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1325	0.7233	0.4837	0.02482	0.005349	0.3723	
	k(pl)	x(ilm)	Q(ilm)				
	0.003657	0.6853	-8.031e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1529	0.2135	0	0.1233	0.2475	0.01015	0.2527

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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6.50 746.8 0.1223 0.2319 0.9284 0.008803 0.006914 0.5377
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6253 0.2089 0.1445 0.03449 0.1233 0.2688
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1317 0.7300 0.4850 0.02499 0.005194 0.3707
 k(pl) x(ilm) Q(ilm)
 0.003515 0.6863-7.859e-5

mode liq bi cd g pl ilm q
 0.1502 0.2141 0 0.1231 0.2486 0.01020 0.2537

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.55 742.9 0.1206 0.2293 0.9306 0.008614 0.006501 0.5360
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6303 0.2087 0.1457 0.03438 0.1223 0.2695
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1309 0.7365 0.4863 0.02516 0.005043 0.3692
 k(pl) x(ilm) Q(ilm)
 0.003378 0.6873-7.693e-5

mode liq bi cd g pl ilm q
 0.1477 0.2146 0 0.1230 0.2498 0.01025 0.2547

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.60 739.0 0.1190 0.2267 0.9327 0.008429 0.006110 0.5342
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6352 0.2084 0.1469 0.03428 0.1213 0.2702
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1301 0.7429 0.4876 0.02535 0.004895 0.3677
 k(pl) x(ilm) Q(ilm)
 0.003244 0.6883-7.533e-5

mode liq bi cd g pl ilm q
 0.1452 0.2151 0 0.1228 0.2509 0.01030 0.2557

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.65 735.0 0.1174 0.2240 0.9348 0.008248 0.005738 0.5324
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6401 0.2081 0.1481 0.03417 0.1202 0.2709
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1292 0.7492 0.4888 0.02554 0.004750 0.3662
 k(pl) x(ilm) Q(ilm)
 0.003114 0.6892-7.379e-5

mode liq bi cd g pl ilm q
 0.1427 0.2156 0 0.1227 0.2520 0.01035 0.2566

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 6.70 731.0 0.1158 0.2213 0.9368 0.008069 0.005385 0.5305
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6451 0.2078 0.1493 0.03406 0.1192 0.2715
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1283 0.7554 0.4901 0.02574 0.004607 0.3647
k(pl) x(ilm) Q(ilm)
0.002985 0.6903-7.227e-5

mode liq bi cd g pl ilm q
0.1403 0.2160 0 0.1226 0.2531 0.01040 0.2576

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.75 726.9 0.1141 0.2186 0.9389 0.007891 0.005048 0.5285
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6501 0.2074 0.1506 0.03394 0.1181 0.2722
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1274 0.7616 0.4914 0.02595 0.004464 0.3633
k(pl) x(ilm) Q(ilm)
0.002857 0.6913-7.078e-5

mode liq bi cd g pl ilm q
0.1379 0.2165 0 0.1224 0.2542 0.01046 0.2585

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80 722.7 0.1123 0.2159 0.9409 0.007714 0.004726 0.5264
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6552 0.2071 0.1519 0.03382 0.1171 0.2728
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1265 0.7678 0.4926 0.02616 0.004322 0.3619
k(pl) x(ilm) Q(ilm)
0.002730 0.6924-6.933e-5

mode liq bi cd g pl ilm q
0.1356 0.2169 0 0.1223 0.2553 0.01052 0.2595

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.85 718.5 0.1106 0.2132 0.9429 0.007539 0.004421 0.5242
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6603 0.2067 0.1532 0.03370 0.1160 0.2735
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1255 0.7738 0.4939 0.02639 0.004182 0.3604
k(pl) x(ilm) Q(ilm)
0.002606 0.6935-6.790e-5

mode liq bi cd g pl ilm q
0.1332 0.2173 0 0.1221 0.2564 0.01057 0.2604

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90 714.1 0.1088 0.2104 0.9449 0.007365 0.004130 0.5219
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6654 0.2062 0.1546 0.03357 0.1149 0.2741
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1245 0.7798 0.4952 0.02663 0.004044 0.3590
k(pl) x(ilm) Q(ilm)
0.002483 0.6946-6.650e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1309	0.2177	0	0.1219	0.2575	0.01063	0.2613

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.95 709.7 0.1070 0.2076 0.9468 0.007193 0.003854 0.5195
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6706 0.2058 0.1560 0.03343 0.1138 0.2748
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1234 0.7858 0.4965 0.02688 0.003907 0.3576
k(pl) x(ilm) Q(ilm)
0.002363 0.6958-6.513e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1287	0.2181	0	0.1218	0.2585	0.01070	0.2623

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 705.2 0.1051 0.2047 0.9488 0.007022 0.003592 0.5170
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6758 0.2053 0.1574 0.03329 0.1127 0.2755
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1223 0.7916 0.4978 0.02715 0.003771 0.3562
k(pl) x(ilm) Q(ilm)
0.002245 0.6970-6.378e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1264	0.2184	0	0.1216	0.2596	0.01076	0.2632

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.05 700.5 0.1033 0.2018 0.9507 0.006853 0.003344 0.5144
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6811 0.2048 0.1588 0.03315 0.1115 0.2761
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1212 0.7974 0.4991 0.02743 0.003637 0.3548
k(pl) x(ilm) Q(ilm)
0.002129 0.6982-6.247e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1242	0.2188	0	0.1215	0.2606	0.01082	0.2641

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.10 695.8 0.1014 0.1989 0.9525 0.006684 0.003108 0.5116
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6864 0.2042 0.1603 0.03299 0.1104 0.2768
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1200 0.8032 0.5004 0.02772 0.003505 0.3534
k(pl) x(ilm) Q(ilm)

0.002015 0.6994-6.117e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1220	0.2191	0	0.1213	0.2617	0.01089	0.2650

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.15	690.9	0.09958	0.1959	0.9544	0.006517	0.002884	0.5087
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6917	0.2036	0.1617	0.03284	0.1092	0.2774	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1188	0.8088	0.5017	0.02803	0.003374	0.3520	
	k(pl)	x(ilm)	Q(ilm)				
	0.001904	0.7007-5.990e-5					

mode	liq	bi	cd	g	pl	ilm	q
	0.1198	0.2195	0	0.1212	0.2627	0.01096	0.2659

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.20	685.9	0.09771	0.1929	0.9562	0.006351	0.002672	0.5056
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6972	0.2030	0.1632	0.03267	0.1080	0.2781	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1175	0.8144	0.5031	0.02835	0.003244	0.3506	
	k(pl)	x(ilm)	Q(ilm)				
	0.001795	0.7019-5.865e-5					

mode	liq	bi	cd	g	pl	ilm	q
	0.1177	0.2198	0	0.1210	0.2637	0.01103	0.2667

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.25	680.8	0.09582	0.1898	0.9580	0.006185	0.002471	0.5024
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7026	0.2023	0.1648	0.03250	0.1067	0.2788	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1162	0.8200	0.5044	0.02869	0.003116	0.3492	
	k(pl)	x(ilm)	Q(ilm)				
	0.001689	0.7032-5.742e-5					

mode	liq	bi	cd	g	pl	ilm	q
	0.1156	0.2201	0	0.1208	0.2648	0.01111	0.2676

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.30	675.6	0.09391	0.1866	0.9598	0.006021	0.002282	0.4991
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7081	0.2016	0.1664	0.03232	0.1055	0.2795	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1149	0.8255	0.5058	0.02906	0.002988	0.3478	
	k(pl)	x(ilm)	Q(ilm)				
	0.001585	0.7046-5.621e-5					

mode	liq	bi	cd	g	pl	ilm	q
	0.1135	0.2204	0	0.1207	0.2658	0.01118	0.2685

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.35 670.1 0.09200 0.1834 0.9615 0.005856 0.002102 0.4955

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7137 0.2009 0.1680 0.03214 0.1042 0.2802

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1135 0.8309 0.5073 0.02944 0.002863 0.3464

k(pl) x(ilm) Q(ilm)

0.001483 0.7059-5.502e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1114	0.2207	0	0.1205	0.2668	0.01126	0.2693

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.40 664.5 0.09006 0.1801 0.9633 0.005693 0.001933 0.4918

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7194 0.2001 0.1696 0.03194 0.1029 0.2809

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1120 0.8363 0.5087 0.02985 0.002738 0.3450

k(pl) x(ilm) Q(ilm)

0.001384 0.7073-5.384e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1093	0.2209	0	0.1204	0.2678	0.01134	0.2702

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.45 658.8 0.08811 0.1768 0.9650 0.005529 0.001773 0.4878

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7251 0.1993 0.1713 0.03174 0.1015 0.2816

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1105 0.8416 0.5102 0.03029 0.002615 0.3436

k(pl) x(ilm) Q(ilm)

0.001288 0.7088-5.268e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1072	0.2212	0	0.1202	0.2689	0.01142	0.2710

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

7.50 652.8 0.08615 0.1733 0.9667 0.005366 0.001623 0.4836

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7309 0.1984 0.1731 0.03153 0.1001 0.2824

x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1089 0.8469 0.5118 0.03076 0.002493 0.3421

k(pl) x(ilm) Q(ilm)

0.001194 0.7102-5.152e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.1052	0.2214	0	0.1201	0.2699	0.01151	0.2719

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.55	646.6	0.08416	0.1698	0.9683	0.005203	0.001481	0.4792
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7368	0.1975	0.1748	0.03130	0.09868	0.2831	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1073	0.8521	0.5134	0.03126	0.002372	0.3407	
	k(pl)	x(ilm)	Q(ilm)				
	0.001103	0.7117	-5.039e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1031	0.2217	0	0.1199	0.2709	0.01160	0.2727

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.60	640.2	0.08215	0.1662	0.9700	0.005040	0.001348	0.4744
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7428	0.1965	0.1767	0.03107	0.09720	0.2839	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1055	0.8573	0.5150	0.03180	0.002253	0.3392	
	k(pl)	x(ilm)	Q(ilm)				
	0.001015	0.7132	-4.926e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.1011	0.2219	0	0.1198	0.2719	0.01170	0.2736

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.65	633.5	0.08013	0.1625	0.9716	0.004877	0.001223	0.4694
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7489	0.1955	0.1786	0.03082	0.09567	0.2847	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1037	0.8624	0.5167	0.03238	0.002134	0.3377	
	k(pl)	x(ilm)	Q(ilm)				
	0.0009299	0.7148	-4.814e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.09905	0.2221	0	0.1197	0.2730	0.01179	0.2744

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.70	626.6	0.07807	0.1588	0.9732	0.004714	0.001106	0.4640
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.7551	0.1944	0.1806	0.03057	0.09409	0.2855	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1019	0.8675	0.5185	0.03302	0.002017	0.3361	
	k(pl)	x(ilm)	Q(ilm)				
	0.0008476	0.7164	-4.703e-5				

mode	liq	bi	cd	g	pl	ilm	q
	0.09702	0.2223	0	0.1195	0.2740	0.01190	0.2752

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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7.75 619.3 0.07599 0.1549 0.9748 0.0045500.0009970 0.4583
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7615 0.1932 0.1826 0.03029 0.09244 0.2863
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.09990 0.8725 0.5204 0.03370 0.001901 0.3346
k(pl) x(ilm) Q(ilm)
0.0007682 0.7181-4.592e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.09498	0.2225	0	0.1194	0.2750	0.01200	0.2761

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 611.7 0.07389 0.1509 0.9764 0.0043860.0008949 0.4521
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7680 0.1919 0.1848 0.03001 0.09074 0.2872
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.09783 0.8775 0.5223 0.03445 0.001787 0.3330
k(pl) x(ilm) Q(ilm)
0.0006919 0.7198-4.482e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.09295	0.2227	0	0.1193	0.2760	0.01211	0.2769

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.85 603.8 0.07175 0.1467 0.9779 0.0042210.0007998 0.4454
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7746 0.1906 0.1870 0.02970 0.08896 0.2880
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.09564 0.8825 0.5244 0.03528 0.001673 0.3313
k(pl) x(ilm) Q(ilm)
0.0006188 0.7216-4.371e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.09090	0.2229	0	0.1192	0.2771	0.01223	0.2778

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.90 595.4 0.06957 0.1424 0.9795 0.0040550.0007114 0.4382
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7815 0.1891 0.1894 0.02938 0.08710 0.2889
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.09334 0.8875 0.5266 0.03620 0.001561 0.3296
k(pl) x(ilm) Q(ilm)
0.0005491 0.7234-4.261e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.08884	0.2231	0	0.1190	0.2781	0.01235	0.2786

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.95 586.5 0.06735 0.1380 0.9810 0.0038880.0006295 0.4304
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.7885 0.1876 0.1919 0.02903 0.08515 0.2898
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.09090 0.8924 0.5289 0.03722 0.001450 0.3278
k(pl) x(ilm) Q(ilm)
0.0004828 0.7253-4.151e-5

mode liq bi cd g pl ilm q
0.08677 0.2232 0 0.1190 0.2791 0.01248 0.2795

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.00 577.1 0.06509 0.1334 0.9825 0.0037190.0005539 0.4218
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.7957 0.1858 0.1946 0.02867 0.08309 0.2906
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.08830 0.8974 0.5314 0.03837 0.001341 0.3260
k(pl) x(ilm) Q(ilm)
0.0004200 0.7272-4.040e-5

mode liq bi cd g pl ilm q
0.08469 0.2234 0 0.1189 0.2801 0.01261 0.2803

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.05 567.1 0.06277 0.1286 0.9840 0.0035490.0004842 0.4125
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8031 0.1840 0.1975 0.02827 0.08093 0.2915
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.08554 0.9023 0.5341 0.03967 0.001234 0.3240
k(pl) x(ilm) Q(ilm)
0.0003610 0.7292-3.928e-5

mode liq bi cd g pl ilm q
0.08258 0.2235 0 0.1188 0.2811 0.01276 0.2812

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.10 556.5 0.06040 0.1236 0.9855 0.0033770.0004204 0.4021
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8108 0.1819 0.2006 0.02785 0.07863 0.2923
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.08257 0.9072 0.5370 0.04117 0.001128 0.3220
k(pl) x(ilm) Q(ilm)
0.0003058 0.7313-3.815e-5

mode liq bi cd g pl ilm q
0.08044 0.2236 0 0.1188 0.2821 0.01291 0.2821

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.15 545.0 0.05796 0.1184 0.9869 0.0032040.0003622 0.3907
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8188 0.1797 0.2040 0.02739 0.07619 0.2931
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.07939 0.9121 0.5402 0.04292 0.001024 0.3198
k(pl) x(ilm) Q(ilm)
0.0002548 0.7335-3.701e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.07827	0.2237	0	0.1188	0.2831	0.01307	0.2831

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.20 532.6 0.05545 0.1130 0.9883 0.0030280.0003094 0.3779
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8271 0.1772 0.2079 0.02690 0.07359 0.2938
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.07595 0.9171 0.5436 0.044990.0009225 0.3174
k(pl) x(ilm) Q(ilm)
0.0002080 0.7358-3.585e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.07607	0.2238	0	0.1188	0.2840	0.01325	0.2840

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.25 519.1 0.05286 0.1073 0.9898 0.0028500.0002621 0.3635
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8357 0.1743 0.2122 0.02636 0.07081 0.2943
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.07222 0.9220 0.5475 0.047470.0008242 0.3147
k(pl) x(ilm) Q(ilm)
0.0001659 0.7382-3.467e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.07383	0.2239	0	0.1189	0.2849	0.01344	0.2850

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.30 504.5 0.05019 0.1013 0.9911 0.0026720.0002201 0.3474
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8447 0.1711 0.2171 0.02577 0.06784 0.2945
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.06818 0.9270 0.5518 0.050510.0007303 0.3118
k(pl) x(ilm) Q(ilm)
0.0001286 0.7407-3.347e-5

mode	liq	bi	cd	g	pl	ilm	q
	0.07156	0.2239	0	0.1191	0.2857	0.01364	0.2860

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.35 488.7 0.04747 0.09511 0.9924 0.0024940.0001837 0.3293
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.8539 0.1675 0.2229 0.02512 0.06468 0.2943
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.06383 0.9319 0.5566 0.054300.0006424 0.3084
k(pl) x(ilm) Q(ilm)

9.674e-5 0.7433-3.227e-5

mode liq bi cd g pl ilm q
0.06928 0.2239 0 0.1195 0.2864 0.01385 0.2871

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, q

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 740.8 0.1276 0.2284 0.9308 0.008245 0.007008 0.5339
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6237 0.2096 0.1438 0.03405 0.1201 0.2720
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4851 0.02211 0.004827 0.3717 0.003194 0.6900
Q(ilm)

-7.52E-05

mode liq bi g pl ilm ru q
0.1505 0.2148 0.1217 0.2502 0.01040 0 0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.05 742.0 0.1272 0.2291 0.9302 0.008332 0.007058 0.5345
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6232 0.2095 0.1437 0.03411 0.1206 0.2716
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4849 0.02240 0.004887 0.3718 0.003247 0.6895
Q(ilm)

-7.58E-05

mode liq bi g pl ilm ru q
0.1508 0.2146 0.1219 0.2499 0.01037 0 0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.10 743.2 0.1268 0.2299 0.9296 0.008420 0.007107 0.5352
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6227 0.2095 0.1436 0.03418 0.1211 0.2711
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4847 0.02270 0.004948 0.3719 0.003301 0.6889
Q(ilm)

-7.64E-05

mode liq bi g pl ilm ru q
0.1511 0.2145 0.1221 0.2495 0.01034 0 0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.15 744.4 0.1264 0.2307 0.9290 0.008509 0.007157 0.5359

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6222 0.2094 0.1436 0.03424 0.1216 0.2707
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4845 0.02299 0.005009 0.3720 0.003356 0.6883
Q(ilm)

-7.70E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1515	0.2143	0.1222	0.2492	0.01031	0	0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 745.7 0.1260 0.2314 0.9284 0.008599 0.007207 0.5365
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6217 0.2094 0.1435 0.03430 0.1221 0.2702
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4843 0.02329 0.005072 0.3721 0.003411 0.6878
Q(ilm)

-7.76E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1518	0.2142	0.1224	0.2488	0.01028	0	0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.25 746.9 0.1257 0.2322 0.9279 0.008689 0.007258 0.5372
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6212 0.2093 0.1434 0.03437 0.1227 0.2697
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4841 0.02360 0.005136 0.3722 0.003468 0.6872
Q(ilm)

-7.82E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1522	0.2140	0.1226	0.2485	0.01025	0	0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30 748.1 0.1253 0.2330 0.9273 0.008781 0.007309 0.5379
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6206 0.2093 0.1433 0.03443 0.1232 0.2693
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4839 0.02391 0.005200 0.3723 0.003525 0.6867
Q(ilm)

-7.89E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1525	0.2139	0.1228	0.2482	0.01022	0	0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.35 749.3 0.1249 0.2338 0.9267 0.008874 0.007360 0.5385
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6201 0.2092 0.1432 0.03450 0.1237 0.2688

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4837 0.02422 0.005266 0.3724 0.003584 0.6861
Q(ilm)

-7.95E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1529	0.2137	0.1230	0.2478	0.01019	0	0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 750.6 0.1246 0.2345 0.9260 0.008968 0.007411 0.5392
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6196 0.2092 0.1431 0.03456 0.1242 0.2683
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4835 0.02453 0.005332 0.3725 0.003643 0.6855
Q(ilm)

-8.02E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1532	0.2135	0.1232	0.2475	0.01016	0	0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.45 751.8 0.1242 0.2353 0.9254 0.009063 0.007463 0.5398
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6190 0.2091 0.1431 0.03463 0.1247 0.2679
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4833 0.02485 0.005400 0.3726 0.003704 0.6849
Q(ilm)

-8.09E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1536	0.2134	0.1233	0.2471	0.01013	0	0.2525

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 753.0 0.1239 0.2361 0.9248 0.009159 0.007516 0.5405
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6185 0.2091 0.1430 0.03469 0.1253 0.2674
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4831 0.02518 0.005468 0.3727 0.003765 0.6844
Q(ilm)

-8.16E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1540	0.2132	0.1235	0.2467	0.01010	0	0.2524

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.55 754.3 0.1235 0.2368 0.9242 0.009256 0.007568 0.5411
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6179 0.2090 0.1429 0.03476 0.1258 0.2669
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4829 0.02550 0.005538 0.3728 0.003828 0.6838

Q(ilm)

-8.23E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1543	0.2130	0.1237	0.2464	0.01007	0	0.2524

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.60	755.5	0.1232	0.2376	0.9235	0.009354	0.007621	0.5417
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6174	0.2089	0.1428	0.03482	0.1263	0.2664
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4827	0.02584	0.005609	0.3729	0.003892	0.6832

Q(ilm)

-8.30E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1547	0.2129	0.1239	0.2460	0.01004	0	0.2524

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.65	756.7	0.1229	0.2384	0.9229	0.009453	0.007675	0.5424
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6168	0.2089	0.1427	0.03489	0.1269	0.2660
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4825	0.02617	0.005680	0.3730	0.003956	0.6827

Q(ilm)

-8.37E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1551	0.2127	0.1241	0.2457	0.01001	0	0.2524

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.70	758.0	0.1225	0.2391	0.9223	0.009554	0.007729	0.5430
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6162	0.2088	0.1426	0.03495	0.1274	0.2655
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4823	0.02651	0.005753	0.3731	0.004022	0.6821

Q(ilm)

-8.45E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1555	0.2125	0.1243	0.2453	0.009981	0	0.2524

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.75	759.2	0.1222	0.2399	0.9216	0.009655	0.007783	0.5436
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6157	0.2087	0.1425	0.03502	0.1279	0.2650
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4821	0.02686	0.005827	0.3732	0.004089	0.6815

Q(ilm)

-8.52E-05

```

mode   liq   bi    g    pl   ilm    ru    q
      0.1559 0.2123 0.1245 0.2449 0.009951 0 0.2523
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.80   760.5 0.1219 0.2407 0.9210 0.009758 0.007838 0.5442
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6151 0.2087 0.1425 0.03508 0.1285 0.2645
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4818 0.02721 0.005903 0.3733 0.004157 0.6809
      Q(ilm)
-8.60E-05

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```

mode   liq   bi    g    pl   ilm    ru    q
      0.1563 0.2122 0.1247 0.2446 0.009921 0 0.2523
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.85   761.7 0.1216 0.2415 0.9203 0.009862 0.007893 0.5448
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6145 0.2086 0.1424 0.03515 0.1290 0.2640
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4816 0.02756 0.005979 0.3734 0.004227 0.6804
      Q(ilm)
-8.68E-05

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```

mode   liq   bi    g    pl   ilm    ru    q
      0.1567 0.2120 0.1249 0.2442 0.009890 0 0.2523
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.90   763.0 0.1213 0.2422 0.9196 0.009967 0.007948 0.5455
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6139 0.2085 0.1423 0.03522 0.1296 0.2636
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4814 0.02792 0.006057 0.3735 0.004297 0.6798
      Q(ilm)
-8.76E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q
      0.1572 0.2118 0.1252 0.2438 0.009860 0 0.2523
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.95   764.2 0.1210 0.2430 0.9189 0.01007 0.008004 0.5461
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6132 0.2084 0.1422 0.03528 0.1301 0.2631
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4812 0.02828 0.006135 0.3735 0.004369 0.6792
      Q(ilm)
-8.85E-05

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mode   liq   bi    g    pl   ilm    ru    q

```

0.1576 0.2116 0.1254 0.2434 0.009829 0 0.2522

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.00 765.5 0.1207 0.2438 0.9183 0.01018 0.008061 0.5467
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6126 0.2084 0.1421 0.03535 0.1307 0.2626
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4810 0.02864 0.006216 0.3736 0.004442 0.6786
Q(ilm)

-8.93E-05

mode liq bi g pl ilm ru q
0.1580 0.2114 0.1256 0.2430 0.009799 0 0.2522

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.05 766.7 0.1204 0.2446 0.9176 0.01029 0.008118 0.5473
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6120 0.2083 0.1420 0.03541 0.1312 0.2621
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4807 0.02902 0.006297 0.3737 0.004517 0.6780
Q(ilm)

-9.02E-05

mode liq bi g pl ilm ru q
0.1585 0.2112 0.1258 0.2426 0.009768 0 0.2521

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.10 768.0 0.1201 0.2453 0.9169 0.01040 0.008175 0.5479
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6113 0.2082 0.1420 0.03548 0.1318 0.2616
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4805 0.02939 0.006380 0.3738 0.004593 0.6775
Q(ilm)

-9.11E-05

mode liq bi g pl ilm ru q
0.1589 0.2110 0.1260 0.2422 0.009738 0 0.2521

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.15 769.3 0.1198 0.2461 0.9161 0.01051 0.008233 0.5484
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6107 0.2081 0.1419 0.03555 0.1324 0.2611
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4803 0.02977 0.006464 0.3738 0.004670 0.6769
Q(ilm)

-9.20E-05

mode liq bi g pl ilm ru q
0.1593 0.2108 0.1262 0.2419 0.009707 0 0.2520

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.20 770.5 0.1196 0.2469 0.9154 0.01062 0.008292 0.5490
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6100 0.2080 0.1418 0.03561 0.1329 0.2606
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4800 0.03016 0.006550 0.3739 0.004749 0.6763
Q(ilm)

-9.29E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1598	0.2106	0.1265	0.2415	0.009676	0	0.2520

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.25 771.8 0.1193 0.2477 0.9147 0.01074 0.008351 0.5496
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6094 0.2079 0.1417 0.03568 0.1335 0.2601
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4798 0.03055 0.006637 0.3739 0.004829 0.6757
Q(ilm)

-9.39E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1603	0.2104	0.1267	0.2410	0.009645	0	0.2519

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.30 773.1 0.1190 0.2485 0.9140 0.01085 0.008411 0.5502
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6087 0.2078 0.1416 0.03575 0.1341 0.2596
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4796 0.03094 0.006725 0.3740 0.004911 0.6752
Q(ilm)

-9.48E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1607	0.2102	0.1269	0.2406	0.009614	0	0.2519

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.35 774.4 0.1188 0.2492 0.9132 0.01097 0.008471 0.5508
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6080 0.2077 0.1415 0.03582 0.1346 0.2591
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4793 0.03134 0.006815 0.3741 0.004994 0.6746
Q(ilm)

-9.58E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1612	0.2100	0.1272	0.2402	0.009583	0	0.2518

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.40 775.6 0.1185 0.2500 0.9125 0.01109 0.008532 0.5513

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6073 0.2076 0.1415 0.03588 0.1352 0.2586
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4791 0.03175 0.006907 0.3741 0.005079 0.6740
Q(ilm)

-9.69E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1617	0.2097	0.1274	0.2398	0.009551	0	0.2518

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.45 776.9 0.1183 0.2508 0.9117 0.01121 0.008594 0.5519
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6066 0.2075 0.1414 0.03595 0.1358 0.2581
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4788 0.03216 0.007000 0.3742 0.005165 0.6734
Q(ilm)

-9.79E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1622	0.2095	0.1277	0.2394	0.009520	0	0.2517

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50 778.2 0.1180 0.2516 0.9110 0.01133 0.008656 0.5525
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6059 0.2074 0.1413 0.03602 0.1364 0.2576
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4786 0.03257 0.007094 0.3742 0.005254 0.6728
Q(ilm)

-9.90E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1627	0.2093	0.1279	0.2390	0.009488	0	0.2516

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.55 779.5 0.1178 0.2524 0.9102 0.01146 0.008719 0.5530
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6052 0.2073 0.1412 0.03609 0.1370 0.2570
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4783 0.03299 0.007191 0.3743 0.005343 0.6723
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.1632	0.2091	0.1282	0.2385	0.009457	0	0.2516

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.60 780.8 0.1176 0.2532 0.9094 0.01158 0.008783 0.5536
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6044 0.2072 0.1411 0.03615 0.1376 0.2565

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4780 0.03342 0.007289 0.3743 0.005435 0.6717
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.1638	0.2088	0.1284	0.2381	0.009425	0	0.2515

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.65 782.1 0.1173 0.2540 0.9086 0.01171 0.008847 0.5541
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6037 0.2071 0.1410 0.03622 0.1382 0.2560
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4778 0.03385 0.007389 0.3744 0.005529 0.6711
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.1643	0.2086	0.1287	0.2377	0.009393	0	0.2514

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.70 783.4 0.1171 0.2548 0.9078 0.01183 0.008912 0.5547
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6029 0.2070 0.1409 0.03629 0.1388 0.2555
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4775 0.03428 0.007490 0.3744 0.005624 0.6705
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.1648	0.2083	0.1289	0.2372	0.009361	0	0.2513

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.75 784.8 0.1169 0.2556 0.9070 0.01196 0.008978 0.5552
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6022 0.2069 0.1409 0.03636 0.1394 0.2549
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4772 0.03472 0.007594 0.3744 0.005722 0.6699
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.1654	0.2081	0.1292	0.2368	0.009329	0	0.2512

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.80 786.1 0.1167 0.2564 0.9061 0.01210 0.009045 0.5558
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6014 0.2067 0.1408 0.03643 0.1400 0.2544
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4769 0.03517 0.007699 0.3745 0.005821 0.6694

Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.1659	0.2078	0.1295	0.2363	0.009297	0	0.2511

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.85	787.4	0.1165	0.2572	0.9053	0.01223	0.009113	0.5563
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6006	0.2066	0.1407	0.03649	0.1406	0.2539
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4767	0.03562	0.007807	0.3745	0.005922	0.6688
		Q(ilm)					

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.1665	0.2076	0.1297	0.2359	0.009265	0	0.2510

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.90	788.8	0.1163	0.2580	0.9044	0.01236	0.009182	0.5568
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5998	0.2065	0.1406	0.03656	0.1412	0.2533
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4764	0.03608	0.007916	0.3745	0.006026	0.6682
		Q(ilm)					

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.1671	0.2073	0.1300	0.2354	0.009232	0	0.2509

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.95	790.1	0.1161	0.2589	0.9036	0.01250	0.009251	0.5574
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5990	0.2063	0.1405	0.03663	0.1419	0.2528
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4761	0.03655	0.008027	0.3745	0.006132	0.6676
		Q(ilm)					

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.1677	0.2071	0.1303	0.2349	0.009200	0	0.2508

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.00	791.5	0.1159	0.2597	0.9027	0.01264	0.009322	0.5579
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5981	0.2062	0.1404	0.03670	0.1425	0.2522
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4758	0.03701	0.008141	0.3746	0.006240	0.6671
		Q(ilm)					

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.1683	0.2068	0.1306	0.2344	0.009167	0	0.2507

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.05 792.8 0.1157 0.2605 0.9018 0.01278 0.009393 0.5584

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5973 0.2061 0.1403 0.03677 0.1431 0.2517

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4755 0.03749 0.008256 0.3746 0.006350 0.6665

Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.1689	0.2065	0.1309	0.2340	0.009134	0	0.2506

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.10 794.2 0.1156 0.2613 0.9009 0.01292 0.009466 0.5589

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5964 0.2059 0.1402 0.03683 0.1438 0.2511

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4751 0.03797 0.008374 0.3746 0.006463 0.6659

Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.1695	0.2062	0.1312	0.2335	0.009102	0	0.2505

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.15 795.6 0.1154 0.2622 0.9000 0.01307 0.009540 0.5595

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5955 0.2058 0.1401 0.03690 0.1444 0.2506

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4748 0.03846 0.008494 0.3746 0.006578 0.6654

Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.1702	0.2059	0.1315	0.2330	0.009069	0	0.2504

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

8.20 797.0 0.1152 0.2630 0.8990 0.01322 0.009616 0.5600

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5946 0.2056 0.1401 0.03697 0.1451 0.2500

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4745 0.03895 0.008617 0.3746 0.006696 0.6648

Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	ru	q
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0.1708 0.2056 0.1318 0.2325 0.009035 0 0.2503

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.25 798.3 0.1151 0.2639 0.8981 0.01337 0.009692 0.5605
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5937 0.2055 0.1400 0.03704 0.1458 0.2494
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4742 0.03945 0.008742 0.3746 0.006817 0.6643
Q(ilm)
-0.00012

mode liq bi g pl ilm ru q
0.1715 0.2053 0.1321 0.2320 0.009002 0 0.2501

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.30 799.7 0.1149 0.2647 0.8971 0.01352 0.009770 0.5610
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5928 0.2053 0.1399 0.03711 0.1464 0.2488
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4738 0.03996 0.008870 0.3746 0.006941 0.6637
Q(ilm)
-0.00012

mode liq bi g pl ilm ru q
0.1722 0.2050 0.1324 0.2314 0.008968 0 0.2500

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.35 801.2 0.1148 0.2656 0.8961 0.01367 0.009849 0.5615
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5919 0.2052 0.1398 0.03717 0.1471 0.2483
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4735 0.04047 0.009000 0.3746 0.007067 0.6632
Q(ilm)
-0.00012

mode liq bi g pl ilm ru q
0.1729 0.2047 0.1327 0.2309 0.008935 0 0.2498

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.40 802.6 0.1147 0.2664 0.8951 0.01383 0.009930 0.5619
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5909 0.2050 0.1397 0.03724 0.1478 0.2477
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4731 0.04099 0.009132 0.3746 0.007196 0.6626
Q(ilm)
-0.00012

mode liq bi g pl ilm ru q
0.1736 0.2044 0.1331 0.2304 0.008901 0 0.2497

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.45 804.0 0.1145 0.2673 0.8941 0.01399 0.01001 0.5624
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5899 0.2048 0.1396 0.03731 0.1485 0.2471
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4728 0.04151 0.009268 0.3746 0.007329 0.6621
Q(ilm)
-0.00013

mode liq bi g pl ilm ru q
0.1743 0.2040 0.1334 0.2298 0.008867 0 0.2495

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.50 805.5 0.1144 0.2682 0.8931 0.01415 0.01010 0.5629
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5889 0.2046 0.1395 0.03737 0.1492 0.2465
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4724 0.04204 0.009406 0.3746 0.007465 0.6615
Q(ilm)
-0.00013

mode liq bi g pl ilm ru q
0.1751 0.2037 0.1337 0.2293 0.008833 0 0.2494

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.55 806.9 0.1143 0.2691 0.8920 0.01431 0.01018 0.5634
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5879 0.2045 0.1393 0.03744 0.1499 0.2459
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4720 0.04258 0.009548 0.3746 0.007604 0.6610
Q(ilm)
-0.00013

mode liq bi g pl ilm ru q
0.1758 0.2034 0.1341 0.2287 0.008799 0 0.2492

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.60 808.4 0.1142 0.2699 0.8909 0.01448 0.01027 0.5639
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5869 0.2043 0.1392 0.03751 0.1506 0.2453
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4716 0.04313 0.009692 0.3746 0.007746 0.6605
Q(ilm)
-0.00013

mode liq bi g pl ilm ru q
0.1766 0.2030 0.1344 0.2282 0.008764 0 0.2490

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.65 809.9 0.1141 0.2708 0.8898 0.01465 0.01036 0.5643

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5858 0.2041 0.1391 0.03757 0.1513 0.2447
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4712 0.04368 0.009840 0.3746 0.007893 0.6599
Q(ilm)

-0.00013

mode	liq	bi	g	pl	ilm	ru	q
	0.1774	0.2026	0.1348	0.2276	0.008730	0	0.2488

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.70 811.4 0.1140 0.2718 0.8887 0.01482 0.01045 0.5648
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5848 0.2039 0.1390 0.03764 0.1521 0.2441
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4708 0.04424 0.009991 0.3746 0.008043 0.6594
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	ru	q
	0.1782	0.2023	0.1352	0.2270	0.008695	0	0.2487

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.75 812.9 0.1140 0.2727 0.8876 0.01500 0.01055 0.5653
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5837 0.2037 0.1389 0.03771 0.1528 0.2434
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4704 0.04480 0.01014 0.3746 0.008197 0.6589
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	ru	q
	0.1791	0.2019	0.1355	0.2264	0.008660	0	0.2485

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.80 814.4 0.1139 0.2736 0.8864 0.01518 0.01064 0.5657
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5825 0.2035 0.1388 0.03777 0.1536 0.2428
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4699 0.04537 0.01030 0.3745 0.008355 0.6584
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	ru	q
	0.1800	0.2015	0.1359	0.2258	0.008625	0	0.2482

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.85 815.9 0.1138 0.2745 0.8852 0.01536 0.01074 0.5662
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5814 0.2033 0.1386 0.03783 0.1543 0.2422

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4695 0.04595 0.01046 0.3745 0.008518 0.6579
Q(ilm)

-0.00014

mode	liq	bi	g	pl	ilm	ru	q
	0.1808	0.2011	0.1363	0.2251	0.008590	0	0.2480

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.90 817.5 0.1138 0.2755 0.8840 0.01555 0.01084 0.5666
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5802 0.2030 0.1385 0.03790 0.1551 0.2415
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4690 0.04654 0.01063 0.3745 0.008685 0.6574
Q(ilm)

-0.00015

mode	liq	bi	g	pl	ilm	ru	q
	0.1818	0.2007	0.1367	0.2245	0.008554	0	0.2478

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.95 819.1 0.1138 0.2764 0.8828 0.01574 0.01095 0.5671
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5790 0.2028 0.1384 0.03796 0.1559 0.2408
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4685 0.04714 0.01080 0.3745 0.008857 0.6569
Q(ilm)

-0.00015

mode	liq	bi	g	pl	ilm	ru	q
	0.1827	0.2002	0.1371	0.2239	0.008519	0	0.2476

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.00 820.7 0.1137 0.2774 0.8815 0.01594 0.01106 0.5675
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5777 0.2026 0.1382 0.03802 0.1567 0.2402
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4680 0.04774 0.01097 0.3744 0.009035 0.6565
Q(ilm)

-0.00015

mode	liq	bi	g	pl	ilm	ru	q
	0.1837	0.1998	0.1375	0.2232	0.008483	0	0.2473

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.05 822.3 0.1137 0.2784 0.8802 0.01614 0.01117 0.5679
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5765 0.2023 0.1381 0.03808 0.1575 0.2395
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4675 0.04835 0.01115 0.3744 0.009217 0.6560

Q(ilm)

-0.00015

mode	liq	bi	g	pl	ilm	ru	q
	0.1847	0.1993	0.1380	0.2225	0.008447	0	0.2471

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.10	823.9	0.1137	0.2794	0.8789	0.01634	0.01128	0.5683
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5752	0.2021	0.1379	0.03815	0.1584	0.2388
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4670	0.04897	0.01133	0.3744	0.009405	0.6555
		Q(ilm)					

-0.00016

mode	liq	bi	g	pl	ilm	ru	q
	0.1857	0.1989	0.1384	0.2218	0.008411	0	0.2468

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.15	825.6	0.1137	0.2804	0.8775	0.01655	0.01140	0.5687
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5738	0.2018	0.1377	0.03820	0.1592	0.2381
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4665	0.04960	0.01152	0.3743	0.009599	0.6551
		Q(ilm)					

-0.00016

mode	liq	bi	g	pl	ilm	ru	q
	0.1868	0.1984	0.1388	0.2211	0.008374	0	0.2465

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.20	827.3	0.1137	0.2814	0.8761	0.01676	0.01153	0.5692
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5724	0.2015	0.1376	0.03826	0.1601	0.2374
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4659	0.05023	0.01171	0.3743	0.009800	0.6547
		Q(ilm)					

-0.00016

mode	liq	bi	g	pl	ilm	ru	q
	0.1879	0.1979	0.1393	0.2204	0.008338	0	0.2462

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.25	829.0	0.1138	0.2825	0.8746	0.01698	0.01166	0.5696
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5710	0.2013	0.1374	0.03832	0.1610	0.2367
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4653	0.05088	0.01191	0.3743	0.01001	0.6543
		Q(ilm)					

-0.00017

mode	liq	bi	g	pl	ilm	ru	q
	0.1891	0.1973	0.1398	0.2196	0.008301	0	0.2459

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.30 830.8 0.1138 0.2835 0.8731 0.01720 0.01179 0.5700

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5695 0.2010 0.1372 0.03838 0.1619 0.2360

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4647 0.05153 0.01212 0.3743 0.01022 0.6539

Q(ilm)

-0.00017

mode	liq	bi	g	pl	ilm	ru	q
	0.1903	0.1968	0.1402	0.2188	0.008264	0	0.2456

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.35 832.6 0.1139 0.2846 0.8716 0.01743 0.01193 0.5703

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5680 0.2007 0.1370 0.03843 0.1628 0.2352

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4641 0.05219 0.01233 0.3742 0.01044 0.6535

Q(ilm)

-0.00017

mode	liq	bi	g	pl	ilm	ru	q
	0.1915	0.1962	0.1407	0.2181	0.008227	0	0.2452

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.40 834.4 0.1140 0.2857 0.8700 0.01767 0.01208 0.5707

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5664 0.2004 0.1368 0.03848 0.1637 0.2345

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4634 0.05287 0.01254 0.3742 0.01067 0.6532

Q(ilm)

-0.00018

mode	liq	bi	g	pl	ilm	ru	q
	0.1928	0.1957	0.1412	0.2172	0.008189	0	0.2449

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.45 836.2 0.1141 0.2869 0.8684 0.01791 0.01223 0.5711

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5648 0.2000 0.1365 0.03853 0.1647 0.2337

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4627 0.05355 0.01276 0.3742 0.01091 0.6528

Q(ilm)

-0.00018

mode	liq	bi	g	pl	ilm	ru	q
------	-----	----	---	----	-----	----	---

0.1942 0.1950 0.1418 0.2164 0.008152 0 0.2445

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.50 838.1 0.1142 0.2880 0.8667 0.01816 0.01239 0.5715
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5631 0.1997 0.1363 0.03858 0.1657 0.2329
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4620 0.05424 0.01300 0.3742 0.01116 0.6525
Q(ilm)
-0.00018

mode liq bi g pl ilm ru q
0.1956 0.1944 0.1423 0.2155 0.008114 0 0.2441

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.55 840.1 0.1144 0.2892 0.8649 0.01842 0.01256 0.5718
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5614 0.1993 0.1360 0.03863 0.1667 0.2321
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4612 0.05495 0.01323 0.3741 0.01142 0.6522
Q(ilm)
-0.00019

mode liq bi g pl ilm ru q
0.1971 0.1937 0.1429 0.2146 0.008076 0 0.2436

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.60 842.1 0.1145 0.2904 0.8631 0.01869 0.01274 0.5722
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5595 0.1990 0.1358 0.03867 0.1678 0.2313
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4604 0.05566 0.01348 0.3741 0.01169 0.6520
Q(ilm)
-0.00019

mode liq bi g pl ilm ru q
0.1986 0.1930 0.1434 0.2137 0.008037 0 0.2432

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.65 844.1 0.1147 0.2917 0.8612 0.01897 0.01293 0.5725
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5576 0.1986 0.1355 0.03871 0.1689 0.2304
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4596 0.05639 0.01374 0.3741 0.01197 0.6517
Q(ilm)
-0.0002

mode liq bi g pl ilm ru q
0.2003 0.1923 0.1440 0.2127 0.007999 0 0.2427

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.70 846.2 0.1149 0.2930 0.8592 0.01926 0.01313 0.5728
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5556 0.1982 0.1351 0.03874 0.1700 0.2295
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4587 0.05713 0.01401 0.3741 0.01227 0.6516
 Q(ilm)
 -0.0002

mode liq bi g pl ilm ru q
 0.2020 0.1915 0.1446 0.2117 0.007960 0 0.2422

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.75 848.4 0.1152 0.2943 0.8571 0.01957 0.01334 0.5731
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5535 0.1977 0.1348 0.03877 0.1712 0.2286
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4577 0.05789 0.01429 0.3742 0.01258 0.6514
 Q(ilm)
 -0.00021

mode liq bi g pl ilm ru q
 0.2039 0.1907 0.1453 0.2106 0.007921 0 0.2416

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.80 850.7 0.1155 0.2957 0.8549 0.01988 0.01358 0.5734
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5512 0.1973 0.1344 0.03880 0.1724 0.2277
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4567 0.05866 0.01458 0.3742 0.01291 0.6513
 Q(ilm)
 -0.00021

mode liq bi g pl ilm ru q
 0.2059 0.1898 0.1460 0.2095 0.007882 0 0.2410

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.85 853.1 0.1158 0.2971 0.8525 0.02022 0.01383 0.5737
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5489 0.1968 0.1339 0.03882 0.1737 0.2267
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4556 0.05945 0.01489 0.3742 0.01325 0.6513
 Q(ilm)
 -0.00022

mode liq bi g pl ilm ru q
 0.2080 0.1889 0.1467 0.2083 0.007842 0 0.2403

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 9.90 855.6 0.1162 0.2986 0.8501 0.02057 0.01411 0.5739

```

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5463 0.1962 0.1335 0.03883 0.1751 0.2257
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4544 0.06025 0.01521 0.3743 0.01362 0.6513
Q(ilm)

```

-0.00022

```

mode liq bi g pl ilm ru q
0.2103 0.1879 0.1474 0.2070 0.007802 0 0.2396

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.95 858.2 0.1167 0.3003 0.8474 0.02095 0.01441 0.5742
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5436 0.1956 0.1329 0.03883 0.1765 0.2246
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4531 0.06108 0.01556 0.3744 0.01402 0.6514
Q(ilm)

```

-0.00023

```

mode liq bi g pl ilm ru q
0.2128 0.1868 0.1482 0.2057 0.007762 0 0.2388

```

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.00 861.0 0.1172 0.3020 0.8445 0.02136 0.01476 0.5743
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5406 0.1950 0.1323 0.03883 0.1781 0.2234
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4516 0.06194 0.01593 0.3746 0.01445 0.6517
Q(ilm)

```

-0.00024

```

mode liq bi g pl ilm ru q
0.2156 0.1855 0.1490 0.2042 0.007722 0 0.2379

```

calcs use:

composition (from script)

```

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q

```

-----
P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 714.1 0.1205 0.2108 0.9506 0.006885 0.006644 0.5302
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6519 0.2172 0.1160 0.03004 0.1073 0.3001
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1314 0.7385 0.5079 0.02700 0.004530 0.3605
k(pl) x(ilm) Q(ilm)
0.002097 0.7005-6.480e-5

```

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.1323	0.2198	0.01432	0.1089	0.2583	0.01118	0	0.2552

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.05	718.2	0.1209	0.2135	0.9482	0.007096	0.006728	0.5314
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6485	0.2164	0.1189	0.03055	0.1092	0.2965	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1317	0.7369	0.5052	0.02673	0.004618	0.3618	
	k(pl)	x(ilm)	Q(ilm)				
	0.002239	0.6989	-6.621e-5				

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.1344	0.2193	0.01284	0.1103	0.2571	0.01106	0	0.2550

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.10	722.4	0.1212	0.2162	0.9457	0.007315	0.006814	0.5327
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6450	0.2156	0.1219	0.03107	0.1110	0.2929	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1319	0.7352	0.5026	0.02647	0.004707	0.3630	
	k(pl)	x(ilm)	Q(ilm)				
	0.002389	0.6972	-6.771e-5				

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.1365	0.2187	0.01132	0.1118	0.2560	0.01094	0	0.2548

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.15	726.6	0.1216	0.2189	0.9432	0.007542	0.006902	0.5339
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6414	0.2147	0.1250	0.03159	0.1130	0.2893	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1321	0.7335	0.4999	0.02621	0.004799	0.3643	
	k(pl)	x(ilm)	Q(ilm)				
	0.002548	0.6955	-6.929e-5				

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.1388	0.2180	0.009767	0.1133	0.2548	0.01083	0	0.2545

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.20	730.8	0.1220	0.2216	0.9404	0.007777	0.006992	0.5350
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6378	0.2138	0.1280	0.03211	0.1149	0.2856	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1322	0.7317	0.4971	0.02595	0.004893	0.3657	
	k(pl)	x(ilm)	Q(ilm)				
	0.002718	0.6938	-7.098e-5				

mode	liq	bi	cd	g	pl	ilm	ru	q
	0.1411	0.2173	0.008177	0.1149	0.2536	0.01071	0	0.2543

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.25  735.1  0.1224  0.2244  0.9376  0.008022  0.007083  0.5361
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6340  0.2129  0.1311  0.03263  0.1169  0.2820
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.1324  0.7298  0.4943  0.02570  0.004990  0.3670
      k(pl)  x(ilm)  Q(ilm)
      0.002898  0.6921-7.276e-5

```

```

mode  liq  bi  cd  g  pl  ilm  ru  q
      0.1435  0.2166  0.006548  0.1166  0.2523  0.01059  0  0.2539

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.30  739.4  0.1228  0.2272  0.9346  0.008276  0.007177  0.5371
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6302  0.2119  0.1342  0.03315  0.1189  0.2783
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.1325  0.7278  0.4915  0.02545  0.005090  0.3685
      k(pl)  x(ilm)  Q(ilm)
      0.003090  0.6903-7.467e-5

```

```

mode  liq  bi  cd  g  pl  ilm  ru  q
      0.1460  0.2158  0.004876  0.1183  0.2510  0.01047  0  0.2536

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.35  743.7  0.1233  0.2300  0.9315  0.008541  0.007273  0.5381
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6263  0.2110  0.1374  0.03368  0.1209  0.2746
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.1326  0.7257  0.4886  0.02521  0.005193  0.3699
      k(pl)  x(ilm)  Q(ilm)
      0.003294  0.6884-7.671e-5

```

```

mode  liq  bi  cd  g  pl  ilm  ru  q
      0.1486  0.2150  0.003160  0.1200  0.2497  0.01035  0  0.2532

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.40  748.1  0.1239  0.2329  0.9282  0.008819  0.007373  0.5390
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6223  0.2099  0.1406  0.03420  0.1230  0.2709
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.1326  0.7235  0.4857  0.02496  0.005300  0.3714
      k(pl)  x(ilm)  Q(ilm)
      0.003512  0.6865-7.891e-5

```

```

mode  liq  bi  cd  g  pl  ilm  ru  q
      0.1513  0.2141  0.001396  0.1218  0.2483  0.01023  0  0.2528

```

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.50	753.0	0.1239	0.2361	0.9248	0.009159	0.007516	0.5405
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6185	0.2091	0.1430	0.03469	0.1253	0.2674	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4831	0.02518	0.005468	0.3727	0.003765	0.6844	
	Q(ilm)						

-8.16E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1540	0.2132	0.1235	0.2467	0.01010	0	0.2524

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.70	758.0	0.1225	0.2391	0.9223	0.009554	0.007729	0.5430
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6162	0.2088	0.1426	0.03495	0.1274	0.2655	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4823	0.02651	0.005753	0.3731	0.004022	0.6821	
	Q(ilm)						

-8.45E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1555	0.2125	0.1243	0.2453	0.009981	0	0.2524

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.90	763.0	0.1213	0.2422	0.9196	0.009967	0.007948	0.5455
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6139	0.2085	0.1423	0.03522	0.1296	0.2636	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4814	0.02792	0.006057	0.3735	0.004297	0.6798	
	Q(ilm)						

-8.76E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1572	0.2118	0.1252	0.2438	0.009860	0	0.2523

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
7.10	768.0	0.1201	0.2453	0.9169	0.01040	0.008175	0.5479
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6113	0.2082	0.1420	0.03548	0.1318	0.2616	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4805	0.02939	0.006380	0.3738	0.004593	0.6775	
	Q(ilm)						

-9.11E-05

```

mode   liq   bi    g    pl   ilm    ru    q
      0.1589 0.2110 0.1260 0.2422 0.009738    0 0.2521
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.30   773.1 0.1190 0.2485 0.9140 0.01085 0.008411 0.5502
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6087 0.2078 0.1416 0.03575 0.1341 0.2596
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4796 0.03094 0.006725 0.3740 0.004911 0.6752
      Q(ilm)
-9.48E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q
      0.1607 0.2102 0.1269 0.2406 0.009614    0 0.2519
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.50   778.2 0.1180 0.2516 0.9110 0.01133 0.008656 0.5525
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6059 0.2074 0.1413 0.03602 0.1364 0.2576
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4786 0.03257 0.007094 0.3742 0.005254 0.6728
      Q(ilm)
-9.90E-05

```

```

mode   liq   bi    g    pl   ilm    ru    q
      0.1627 0.2093 0.1279 0.2390 0.009488    0 0.2516
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.70   783.4 0.1171 0.2548 0.9078 0.01183 0.008912 0.5547
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6029 0.2070 0.1409 0.03629 0.1388 0.2555
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4775 0.03428 0.007490 0.3744 0.005624 0.6705
      Q(ilm)
-0.0001

```

```

mode   liq   bi    g    pl   ilm    ru    q
      0.1648 0.2083 0.1289 0.2372 0.009361    0 0.2513
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.90   788.8 0.1163 0.2580 0.9044 0.01236 0.009181 0.5568
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.5998 0.2065 0.1406 0.03656 0.1412 0.2533
      x(g)  z(g)  f(g)  ca(pl) k(pl) x(ilm)
      0.4764 0.03608 0.007916 0.3745 0.006026 0.6682
      Q(ilm)
-0.00011

```

```

mode   liq   bi    g    pl   ilm    ru    q

```

0.1671 0.2073 0.1300 0.2354 0.009232 0 0.2509

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.10 794.2 0.1156 0.2613 0.9009 0.01292 0.009466 0.5589
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5964 0.2059 0.1402 0.03683 0.1438 0.2511
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4751 0.03797 0.008374 0.3746 0.006463 0.6659
Q(ilm)
-0.00011

mode liq bi g pl ilm ru q
0.1695 0.2062 0.1312 0.2335 0.009102 0 0.2505

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.30 799.7 0.1149 0.2647 0.8971 0.01352 0.009770 0.5610
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5928 0.2053 0.1399 0.03711 0.1464 0.2488
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4738 0.03996 0.008869 0.3746 0.006941 0.6637
Q(ilm)
-0.00012

mode liq bi g pl ilm ru q
0.1722 0.2050 0.1324 0.2314 0.008968 0 0.2500

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.50 805.5 0.1144 0.2682 0.8931 0.01415 0.01010 0.5629
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5889 0.2046 0.1395 0.03737 0.1492 0.2465
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4724 0.04204 0.009406 0.3746 0.007465 0.6615
Q(ilm)
-0.00013

mode liq bi g pl ilm ru q
0.1751 0.2037 0.1337 0.2293 0.008833 0 0.2494

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.70 811.4 0.1140 0.2718 0.8887 0.01482 0.01045 0.5648
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5848 0.2039 0.1390 0.03764 0.1521 0.2441
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4708 0.04424 0.009991 0.3746 0.008043 0.6594
Q(ilm)
-0.00014

mode liq bi g pl ilm ru q
0.1782 0.2023 0.1352 0.2270 0.008695 0 0.2487

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.90 817.5 0.1138 0.2755 0.8840 0.01555 0.01084 0.5666
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5802 0.2030 0.1385 0.03790 0.1551 0.2415
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4690 0.04654 0.01063 0.3745 0.008685 0.6574
Q(ilm)
-0.00015

mode liq bi g pl ilm ru q
0.1818 0.2007 0.1367 0.2245 0.008554 0 0.2478

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.10 823.9 0.1137 0.2794 0.8789 0.01634 0.01128 0.5683
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5752 0.2021 0.1379 0.03815 0.1584 0.2388
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4670 0.04897 0.01133 0.3744 0.009405 0.6555
Q(ilm)
-0.00016

mode liq bi g pl ilm ru q
0.1857 0.1989 0.1384 0.2218 0.008411 0 0.2468

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.30 830.8 0.1138 0.2835 0.8731 0.01720 0.01179 0.5700
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5695 0.2010 0.1372 0.03838 0.1619 0.2360
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4647 0.05153 0.01212 0.3743 0.01022 0.6539
Q(ilm)
-0.00017

mode liq bi g pl ilm ru q
0.1903 0.1968 0.1402 0.2188 0.008264 0 0.2456

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.50 838.1 0.1142 0.2880 0.8667 0.01816 0.01239 0.5715
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5631 0.1997 0.1363 0.03858 0.1657 0.2329
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4620 0.05424 0.01300 0.3742 0.01116 0.6525
Q(ilm)
-0.00018

mode liq bi g pl ilm ru q
0.1956 0.1944 0.1423 0.2155 0.008114 0 0.2441

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.70 846.2 0.1149 0.2930 0.8592 0.01926 0.01313 0.5728


```

h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
0.5556  0.1982  0.1351  0.03874  0.1700  0.2295
x(g)    z(g)    f(g)    ca(pl)  k(pl)  x(ilm)
0.4587  0.05713  0.01401  0.3741  0.01227  0.6516
Q(ilm)

```

-0.0002

```

mode  liq  bi  g  pl  ilm  ru  q
0.2020  0.1915  0.1446  0.2117  0.007960  0  0.2422

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
9.90     855.6  0.1162  0.2986  0.8501  0.02057  0.01411  0.5739
h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
0.5463  0.1962  0.1335  0.03883  0.1751  0.2257
x(g)    z(g)    f(g)    ca(pl)  k(pl)  x(ilm)
0.4544  0.06025  0.01521  0.3743  0.01362  0.6513
Q(ilm)

```

-0.00022

```

mode  liq  bi  g  pl  ilm  ru  q
0.2103  0.1879  0.1474  0.2070  0.007802  0  0.2396

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.10    867.4  0.1186  0.3058  0.8378  0.02230  0.01560  0.5746
h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
0.5335  0.1935  0.1308  0.03876  0.1817  0.2208
x(g)    z(g)    f(g)    ca(pl)  k(pl)  x(ilm)
0.4481  0.06375  0.01677  0.3752  0.01544  0.6525
Q(ilm)

```

-0.00025

```

mode  liq  bi  g  pl  ilm  ru  q
0.2223  0.1826  0.1509  0.2008  0.007641  0  0.2357

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, g, pl, ilm, ru, q

<== nothing in range ==>

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : bi, cd, g, pl, ilm, ru, q, H2O

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(cd)

```

6.80 742.6 0.2151 0.1553 0.03678 0.1183 0.2716 0.1354
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7623 0.4960 0.02169 0.004847 0.3049 0.004011
x(ilm) Q(ilm)
0.6624-8.923e-5

mode bi cd g pl ilm ru q H2O
0.2222 0 0.1219 0.3129 0.0092660 0.0004102 0.2904 0.04294

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.85 717.1 0.2137 0.1554 0.03819 0.1098 0.2793 0.1301
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7765 0.5040 0.02271 0.004394 0.3047 0.003087
x(ilm) Q(ilm)
0.6300-9.944e-5

mode bi cd g pl ilm ru q H2O
0.2230 0 0.1220 0.3123 0.008483 0.001017 0.2905 0.04263

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.90 691.8 0.2119 0.1559 0.03944 0.1016 0.2868 0.1246
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.7906 0.5118 0.02384 0.003936 0.3044 0.002339
x(ilm) Q(ilm)
0.5962-0.0001163

mode bi cd g pl ilm ru q H2O
0.2237 0 0.1220 0.3119 0.007816 0.001567 0.2907 0.04234

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
6.95 668.2 0.2099 0.1566 0.04048 0.09398 0.2936 0.1191
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.8036 0.5190 0.02503 0.003514 0.3040 0.001777
x(ilm) Q(ilm)
0.5629-0.0001455

mode bi cd g pl ilm ru q H2O
0.2242 0 0.1221 0.3114 0.007272 0.002040 0.2908 0.04208

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)
7.00 646.2 0.2078 0.1576 0.04134 0.08708 0.2998 0.1138
h(cd) x(g) z(g) f(g) ca(pl) k(pl)
0.8158 0.5257 0.02630 0.003133 0.3035 0.001357
x(ilm) Q(ilm)
0.5305-0.0002051

mode bi cd g pl ilm ru q H2O
0.2247 0 0.1222 0.3110 0.006827 0.002450 0.2910 0.04185

P(kbar) T(iC) x(bi) y(bi) f(bi) t(bi) Q(bi) x(cd)

```

7.05  625.8  0.2056  0.1587  0.04202  0.08080  0.3054  0.1087
      h(cd)  x(g)   z(g)   f(g)  ca(pl)  k(pl)
      0.8270  0.5320  0.02763  0.002791  0.3030  0.001041
      x(ilm)  Q(ilm)
      0.4992-0.0003839

```

```

mode    bi    cd    g    pl    ilm    ru    q    H2O
0.2250    0  0.1223  0.3107  0.006460  0.002807  0.2911  0.04165

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(cd)
7.10    606.6  0.2033  0.1601  0.04255  0.07506  0.3104  0.1037
      h(cd)  x(g)   z(g)   f(g)  ca(pl)  k(pl)
      0.8375  0.5380  0.02905  0.002488  0.30240.0008029
      x(ilm)  Q(ilm)
      0.4695 -0.01502

```

```

mode    bi    cd    g    pl    ilm    ru    q    H2O
0.2253    0  0.1224  0.3103  0.006156  0.003120  0.2913  0.04146

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(cd)
7.15    588.5  0.2010  0.1616  0.04295  0.06977  0.3150  0.09896
      h(cd)  x(g)   z(g)   f(g)  ca(pl)  k(pl)
      0.8473  0.5437  0.03058  0.002216  0.30170.0006202
      x(ilm)  Q(ilm)
      0.44040.0003597

```

```

mode    bi    cd    g    pl    ilm    ru    q    H2O
0.2255    0  0.1226  0.3099  0.005897  0.003400  0.2914  0.04130

```

```

-----
P(kbar)  T(iC)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)  x(cd)
7.20    571.4  0.1986  0.1633  0.04323  0.06493  0.3190  0.09436
      h(cd)  x(g)   z(g)   f(g)  ca(pl)  k(pl)
      0.8565  0.5491  0.03222  0.001977  0.30090.0004809
      x(ilm)  Q(ilm)
      0.41300.0001694

```

```

mode    bi    cd    g    pl    ilm    ru    q    H2O
0.2257    0  0.1228  0.3095  0.005681  0.003647  0.2916  0.04115

```

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q, H2O

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.06    718.9  0.1209  0.2139  0.9478  0.007131  0.006742  0.5316
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6479  0.2163  0.1194  0.03064  0.1095  0.2959
      x(cd)  h(cd)  x(g)   z(g)   f(g)  ca(pl)

```

0.1317 0.7366 0.5048 0.02669 0.004632 0.3620
k(pl) x(ilm) Q(ilm)
0.002263 0.6986-6.645e-5

mode liq bi cd g pl ilm ru q H2O
0.1347 0.2192 0.01259 0.1105 0.2569 0.01104 0 0.2550 0
calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, cd, g, pl, ilm, ru, q, H2O

<== nothing in range ==>

calcs use:

composition (from script)

H2O SiO2 Al2O3 CaO MgO FeO K2O Na2O TiO2 O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

<=====>

phases : liq, bi, cd, g, pl, ilm, q, H2O

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.00 727.2 0.1376 0.2190 0.9505 0.007039 0.01281 0.5433
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6207 0.2278 0.08550 0.02682 0.1038 0.3178
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1408 0.6701 0.5139 0.02676 0.005621 0.3669
k(pl) x(ilm) Q(ilm)
0.002038 0.7011-6.769e-5

mode liq bi cd g pl ilm q H2O
0.1432 0.2205 0.02689 0.09603 0.2552 0.01151 0.2467 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.02 727.1 0.1373 0.2189 0.9504 0.007039 0.01265 0.5431
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6213 0.2276 0.08605 0.02689 0.1039 0.3175
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1406 0.6715 0.5138 0.02676 0.005600 0.3668
k(pl) x(ilm) Q(ilm)
0.002042 0.7011-6.766e-5

mode liq bi cd g pl ilm q H2O
0.1430 0.2205 0.02662 0.09633 0.2553 0.01150 0.2468 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.04 726.9 0.1370 0.2188 0.9504 0.007039 0.01250 0.5429
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6219 0.2274 0.08661 0.02696 0.1040 0.3171
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1404 0.6729 0.5136 0.02676 0.005578 0.3667
k(pl) x(ilm) Q(ilm)
0.002046 0.7011-6.762e-5

mode liq bi cd g pl ilm q H2O
0.1428 0.2204 0.02635 0.09662 0.2553 0.01149 0.2470 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.06 726.8 0.1366 0.2187 0.9504 0.007040 0.01235 0.5427
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6224 0.2272 0.08717 0.02704 0.1041 0.3167
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1402 0.6742 0.5135 0.02675 0.005557 0.3666
k(pl) x(ilm) Q(ilm)
0.002050 0.7010-6.759e-5

mode liq bi cd g pl ilm q H2O
0.1426 0.2204 0.02608 0.09691 0.2553 0.01148 0.2472 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.08 726.6 0.1363 0.2186 0.9503 0.007040 0.01220 0.5425
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6230 0.2269 0.08773 0.02711 0.1042 0.3163
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1401 0.6756 0.5133 0.02675 0.005536 0.3665
k(pl) x(ilm) Q(ilm)
0.002054 0.7010-6.756e-5

mode liq bi cd g pl ilm q H2O
0.1424 0.2204 0.02581 0.09720 0.2554 0.01147 0.2473 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.10 726.4 0.1359 0.2185 0.9503 0.007041 0.01205 0.5423
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6236 0.2267 0.08829 0.02718 0.1043 0.3160
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1399 0.6770 0.5132 0.02675 0.005515 0.3664
k(pl) x(ilm) Q(ilm)
0.002058 0.7010-6.753e-5

mode liq bi cd g pl ilm q H2O
0.1422 0.2204 0.02555 0.09749 0.2554 0.01146 0.2475 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.12 726.3 0.1356 0.2184 0.9502 0.007041 0.01190 0.5421
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6241 0.2265 0.08886 0.02725 0.1044 0.3156
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1397 0.6783 0.5130 0.02674 0.005495 0.3663
k(pl) x(ilm) Q(ilm)
0.002062 0.7009-6.750e-5

mode liq bi cd g pl ilm q H2O
0.1420 0.2204 0.02528 0.09778 0.2554 0.01146 0.2476 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.14 726.1 0.1353 0.2184 0.9502 0.007042 0.01176 0.5418
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6247 0.2263 0.08944 0.02733 0.1045 0.3152
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1396 0.6797 0.5128 0.02674 0.005474 0.3662
k(pl) x(ilm) Q(ilm)
0.002066 0.7009-6.747e-5

mode liq bi cd g pl ilm q H2O
0.1419 0.2203 0.02501 0.09807 0.2555 0.01145 0.2478 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.16 725.9 0.1349 0.2183 0.9501 0.007043 0.01162 0.5416
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6252 0.2261 0.09001 0.02740 0.1046 0.3148
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1394 0.6810 0.5127 0.02674 0.005453 0.3661
k(pl) x(ilm) Q(ilm)
0.002070 0.7009-6.744e-5

mode liq bi cd g pl ilm q H2O
0.1417 0.2203 0.02474 0.09836 0.2555 0.01144 0.2480 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.18 725.8 0.1346 0.2182 0.9501 0.007044 0.01147 0.5414
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6258 0.2259 0.09059 0.02747 0.1047 0.3144
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1392 0.6824 0.5125 0.02674 0.005433 0.3660
k(pl) x(ilm) Q(ilm)
0.002074 0.7008-6.741e-5

mode liq bi cd g pl ilm q H2O
0.1415 0.2203 0.02448 0.09864 0.2556 0.01143 0.2481 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.20 725.6 0.1343 0.2181 0.9501 0.007044 0.01134 0.5412
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6263 0.2257 0.09117 0.02755 0.1048 0.3141
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1391 0.6837 0.5124 0.02673 0.005413 0.3659
k(pl) x(ilm) Q(ilm)

0.002078 0.7008-6.739e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1413	0.2203	0.02421	0.09893	0.2556	0.01142	0.2483	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.22	725.4	0.1340	0.2180	0.9500	0.007045	0.01120	0.5410
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6269	0.2255	0.09176	0.02762	0.1049	0.3137	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1389	0.6850	0.5122	0.02673	0.005392	0.3658	
	k(pl)	x(ilm)	Q(ilm)				
	0.002082	0.7008-6.736e-5					

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1411	0.2202	0.02394	0.09921	0.2556	0.01141	0.2485	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.24	725.3	0.1336	0.2179	0.9500	0.007046	0.01106	0.5408
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6274	0.2253	0.09235	0.02769	0.1050	0.3133	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1387	0.6864	0.5120	0.02673	0.005372	0.3657	
	k(pl)	x(ilm)	Q(ilm)				
	0.002086	0.7007-6.733e-5					

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1409	0.2202	0.02367	0.09949	0.2557	0.01140	0.2486	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.26	725.1	0.1333	0.2178	0.9499	0.007047	0.01093	0.5406
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6279	0.2250	0.09294	0.02777	0.1051	0.3129	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1385	0.6877	0.5119	0.02673	0.005352	0.3656	
	k(pl)	x(ilm)	Q(ilm)				
	0.002090	0.7007-6.730e-5					

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1407	0.2202	0.02341	0.09978	0.2557	0.01140	0.2488	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.28	725.0	0.1330	0.2177	0.9499	0.007048	0.01080	0.5403
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6285	0.2248	0.09354	0.02784	0.1052	0.3125	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1384	0.6890	0.5117	0.02673	0.005332	0.3655	
	k(pl)	x(ilm)	Q(ilm)				
	0.002095	0.7007-6.727e-5					

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1406	0.2202	0.02314	0.1001	0.2557	0.01139	0.2489		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
5.30	724.8	0.1327	0.2176	0.9498	0.007049	0.01067	0.5401		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6290	0.2246	0.09414	0.02791	0.1053	0.3121			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1382	0.6903	0.5115	0.02672	0.005313	0.3654			
	k(pl)	x(ilm)	Q(ilm)						
	0.002099	0.7006	6.725e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1404	0.2202	0.02287	0.1003	0.2558	0.01138	0.2491		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
5.32	724.6	0.1323	0.2176	0.9498	0.007051	0.01054	0.5399		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6296	0.2244	0.09474	0.02799	0.1054	0.3117			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1380	0.6916	0.5114	0.02672	0.005293	0.3653			
	k(pl)	x(ilm)	Q(ilm)						
	0.002103	0.7006	6.722e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1402	0.2201	0.02260	0.1006	0.2558	0.01137	0.2493		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
5.34	724.5	0.1320	0.2175	0.9497	0.007052	0.01041	0.5397		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6301	0.2242	0.09535	0.02806	0.1055	0.3113			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1379	0.6929	0.5112	0.02672	0.005273	0.3652			
	k(pl)	x(ilm)	Q(ilm)						
	0.002107	0.7005	6.719e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1400	0.2201	0.02234	0.1009	0.2558	0.01136	0.2494		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
5.36	724.3	0.1317	0.2174	0.9497	0.007053	0.01028	0.5395		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6306	0.2240	0.09595	0.02813	0.1056	0.3109			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1377	0.6942	0.5110	0.02672	0.005254	0.3651			
	k(pl)	x(ilm)	Q(ilm)						
	0.002111	0.7005	6.717e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1399	0.2201	0.02207	0.1012	0.2559	0.01135	0.2496		0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.38 724.2 0.1314 0.2173 0.9496 0.007054 0.01016 0.5393
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6311 0.2238 0.09657 0.02820 0.1057 0.3105
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1375 0.6955 0.5109 0.02672 0.005234 0.3650
k(pl) x(ilm) Q(ilm)
0.002115 0.7005-6.714e-5

mode liq bi cd g pl ilm q H2O
0.1397 0.2201 0.02180 0.1015 0.2559 0.01134 0.2497 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.40 724.0 0.1310 0.2172 0.9496 0.007056 0.01004 0.5390
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6317 0.2235 0.09718 0.02828 0.1058 0.3101
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1373 0.6968 0.5107 0.02672 0.005215 0.3649
k(pl) x(ilm) Q(ilm)
0.002120 0.7004-6.712e-5

mode liq bi cd g pl ilm q H2O
0.1395 0.2200 0.02153 0.1017 0.2559 0.01134 0.2499 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.42 723.8 0.1307 0.2171 0.9495 0.007057 0.009916 0.5388
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6322 0.2233 0.09780 0.02835 0.1060 0.3097
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1372 0.6981 0.5105 0.02671 0.005196 0.3649
k(pl) x(ilm) Q(ilm)
0.002124 0.7004-6.709e-5

mode liq bi cd g pl ilm q H2O
0.1394 0.2200 0.02127 0.1020 0.2560 0.01133 0.2501 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.44 723.7 0.1304 0.2170 0.9495 0.007059 0.009796 0.5386
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6327 0.2231 0.09843 0.02842 0.1061 0.3093
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1370 0.6993 0.5104 0.02671 0.005177 0.3648
k(pl) x(ilm) Q(ilm)
0.002128 0.7003-6.707e-5

mode liq bi cd g pl ilm q H2O
0.1392 0.2200 0.02100 0.1023 0.2560 0.01132 0.2502 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

5.46 723.5 0.1301 0.2169 0.9494 0.007060 0.009678 0.5384
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6332 0.2229 0.09905 0.02850 0.1062 0.3089
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1368 0.7006 0.5102 0.02671 0.005158 0.3647
 k(pl) x(ilm) Q(ilm)
 0.002132 0.7003-6.704e-5

mode liq bi cd g pl ilm q H2O
 0.1390 0.2200 0.02073 0.1026 0.2560 0.01131 0.2504 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.48 723.4 0.1298 0.2168 0.9494 0.007062 0.009561 0.5382
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6337 0.2227 0.09968 0.02857 0.1063 0.3085
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1367 0.7019 0.5100 0.02671 0.005139 0.3646
 k(pl) x(ilm) Q(ilm)
 0.002136 0.7002-6.702e-5

mode liq bi cd g pl ilm q H2O
 0.1389 0.2199 0.02046 0.1028 0.2561 0.01130 0.2505 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.50 723.2 0.1294 0.2167 0.9493 0.007063 0.009446 0.5379
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6343 0.2225 0.1003 0.02864 0.1064 0.3081
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1365 0.7032 0.5099 0.02671 0.005120 0.3645
 k(pl) x(ilm) Q(ilm)
 0.002141 0.7002-6.699e-5

mode liq bi cd g pl ilm q H2O
 0.1387 0.2199 0.02020 0.1031 0.2561 0.01129 0.2507 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.52 723.0 0.1291 0.2166 0.9493 0.007065 0.009332 0.5377
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.6348 0.2222 0.1010 0.02871 0.1065 0.3077
 x(cd) h(cd) x(g) z(g) f(g) ca(pl)
 0.1363 0.7044 0.5097 0.02671 0.005101 0.3644
 k(pl) x(ilm) Q(ilm)
 0.002145 0.7001-6.697e-5

mode liq bi cd g pl ilm q H2O
 0.1385 0.2199 0.01993 0.1034 0.2561 0.01128 0.2509 0

 P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 5.54 722.9 0.1288 0.2165 0.9492 0.007067 0.009219 0.5375
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6353 0.2220 0.1016 0.02879 0.1066 0.3072
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1362 0.7057 0.5095 0.02671 0.005083 0.3643
k(pl) x(ilm) Q(ilm)
0.002149 0.7001-6.695e-5

mode liq bi cd g pl ilm q H2O
0.1384 0.2199 0.01966 0.1036 0.2562 0.01127 0.2510 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.56 722.7 0.1285 0.2164 0.9492 0.007069 0.009108 0.5373
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6358 0.2218 0.1022 0.02886 0.1067 0.3068
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1360 0.7069 0.5094 0.02670 0.005064 0.3642
k(pl) x(ilm) Q(ilm)
0.002153 0.7001-6.692e-5

mode liq bi cd g pl ilm q H2O
0.1382 0.2198 0.01939 0.1039 0.2562 0.01127 0.2512 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.58 722.6 0.1282 0.2163 0.9491 0.007071 0.008999 0.5371
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6363 0.2216 0.1029 0.02893 0.1068 0.3064
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1358 0.7082 0.5092 0.02670 0.005046 0.3641
k(pl) x(ilm) Q(ilm)
0.002158 0.7000-6.690e-5

mode liq bi cd g pl ilm q H2O
0.1381 0.2198 0.01912 0.1042 0.2562 0.01126 0.2513 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.60 722.4 0.1279 0.2162 0.9491 0.007073 0.008890 0.5368
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6368 0.2214 0.1035 0.02900 0.1069 0.3060
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1356 0.7094 0.5090 0.02670 0.005027 0.3640
k(pl) x(ilm) Q(ilm)
0.002162 0.7000-6.688e-5

mode liq bi cd g pl ilm q H2O
0.1379 0.2198 0.01885 0.1045 0.2563 0.01125 0.2515 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.62 722.3 0.1276 0.2161 0.9490 0.007075 0.008783 0.5366
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6373 0.2212 0.1042 0.02908 0.1070 0.3056
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1355 0.7106 0.5088 0.02670 0.005009 0.3639
k(pl) x(ilm) Q(ilm)
0.002166 0.6999-6.686e-5

mode liq bi cd g pl ilm q H2O
0.1378 0.2198 0.01858 0.1047 0.2563 0.01124 0.2516 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.64 722.1 0.1273 0.2160 0.9490 0.007077 0.008677 0.5364
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6378 0.2209 0.1048 0.02915 0.1071 0.3051
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1353 0.7119 0.5087 0.02670 0.004991 0.3638
k(pl) x(ilm) Q(ilm)
0.002171 0.6999-6.683e-5

mode liq bi cd g pl ilm q H2O
0.1376 0.2197 0.01831 0.1050 0.2563 0.01123 0.2518 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.66 722.0 0.1269 0.2159 0.9489 0.007079 0.008573 0.5362
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6383 0.2207 0.1055 0.02922 0.1072 0.3047
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1351 0.7131 0.5085 0.02670 0.004973 0.3637
k(pl) x(ilm) Q(ilm)
0.002175 0.6998-6.681e-5

mode liq bi cd g pl ilm q H2O
0.1374 0.2197 0.01804 0.1053 0.2564 0.01122 0.2519 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.68 721.8 0.1266 0.2158 0.9489 0.007081 0.008470 0.5359
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6388 0.2205 0.1062 0.02929 0.1073 0.3043
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1350 0.7143 0.5083 0.02670 0.004955 0.3636
k(pl) x(ilm) Q(ilm)
0.002179 0.6997-6.679e-5

mode liq bi cd g pl ilm q H2O
0.1373 0.2197 0.01777 0.1055 0.2564 0.01121 0.2521 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.70 721.6 0.1263 0.2157 0.9488 0.007083 0.008368 0.5357
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6393 0.2203 0.1068 0.02936 0.1075 0.3039
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1348 0.7155 0.5081 0.02670 0.004937 0.3635
k(pl) x(ilm) Q(ilm)

0.002184 0.6997-6.677e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1372	0.2197	0.01750	0.1058	0.2564	0.01120	0.2523		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
5.72	721.5	0.1260	0.2156	0.9488	0.007085	0.008267	0.5355	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6398	0.2201	0.1075	0.02944	0.1076	0.3034		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1346	0.7168	0.5079	0.02670	0.004919	0.3635		
	k(pl)	x(ilm)	Q(ilm)					
	0.002188	0.6996-6.675e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1370	0.2196	0.01723	0.1061	0.2565	0.01119	0.2524		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
5.74	721.3	0.1257	0.2155	0.9487	0.007088	0.008168	0.5353	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6403	0.2198	0.1082	0.02951	0.1077	0.3030		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1344	0.7180	0.5078	0.02670	0.004901	0.3634		
	k(pl)	x(ilm)	Q(ilm)					
	0.002192	0.6996-6.673e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1369	0.2196	0.01696	0.1063	0.2565	0.01119	0.2526		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
5.76	721.2	0.1254	0.2154	0.9487	0.007090	0.008070	0.5350	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6408	0.2196	0.1089	0.02958	0.1078	0.3026		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1343	0.7192	0.5076	0.02669	0.004884	0.3633		
	k(pl)	x(ilm)	Q(ilm)					
	0.002197	0.6995-6.671e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1367	0.2196	0.01669	0.1066	0.2565	0.01118	0.2527		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
5.78	721.0	0.1251	0.2153	0.9486	0.007092	0.007973	0.5348	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6413	0.2194	0.1096	0.02965	0.1079	0.3021		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1341	0.7204	0.5074	0.02669	0.004866	0.3632		
	k(pl)	x(ilm)	Q(ilm)					
	0.002201	0.6995-6.669e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1366	0.2196	0.01642	0.1069	0.2565	0.01117	0.2529		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
5.80	720.9	0.1248	0.2152	0.9486	0.007095	0.007877	0.5346		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6418	0.2192	0.1102	0.02972	0.1080	0.3017			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1339	0.7216	0.5072	0.02669	0.004849	0.3631			
	k(pl)	x(ilm)	Q(ilm)						
	0.002205	0.6994	-6.667e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1364	0.2195	0.01614	0.1071	0.2566	0.01116	0.2530		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
5.82	720.7	0.1245	0.2151	0.9485	0.007097	0.007782	0.5344		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6423	0.2189	0.1109	0.02979	0.1081	0.3013			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1338	0.7228	0.5070	0.02669	0.004832	0.3630			
	k(pl)	x(ilm)	Q(ilm)						
	0.002210	0.6994	-6.665e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1363	0.2195	0.01587	0.1074	0.2566	0.01115	0.2532		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
5.84	720.6	0.1242	0.2150	0.9484	0.007100	0.007689	0.5341		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6427	0.2187	0.1116	0.02987	0.1082	0.3008			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1336	0.7240	0.5069	0.02669	0.004814	0.3629			
	k(pl)	x(ilm)	Q(ilm)						
	0.002214	0.6993	-6.663e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1362	0.2195	0.01560	0.1077	0.2566	0.01114	0.2533		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
5.86	720.4	0.1239	0.2149	0.9484	0.007103	0.007597	0.5339		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6432	0.2185	0.1123	0.02994	0.1083	0.3004			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1334	0.7251	0.5067	0.02669	0.004797	0.3628			
	k(pl)	x(ilm)	Q(ilm)						
	0.002219	0.6992	-6.662e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1360	0.2194	0.01532	0.1079	0.2567	0.01113	0.2535		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.88	720.3	0.1236	0.2148	0.9483	0.007105	0.007506	0.5337
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6437	0.2183	0.1130	0.03001	0.1085	0.2999	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1332	0.7263	0.5065	0.02669	0.004780	0.3627	
	k(pl)	x(ilm)	Q(ilm)				
	0.002223	0.6992	-6.660e-5				

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1359	0.2194	0.01505	0.1082	0.2567	0.01112	0.2536	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.90	720.1	0.1233	0.2147	0.9483	0.007108	0.007416	0.5335
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6442	0.2181	0.1137	0.03008	0.1086	0.2995	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1331	0.7275	0.5063	0.02669	0.004763	0.3627	
	k(pl)	x(ilm)	Q(ilm)				
	0.002227	0.6991	-6.658e-5				

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1357	0.2194	0.01478	0.1085	0.2567	0.01111	0.2538	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.92	720.0	0.1230	0.2146	0.9482	0.007111	0.007327	0.5332
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6447	0.2178	0.1144	0.03015	0.1087	0.2990	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1329	0.7287	0.5061	0.02669	0.004746	0.3626	
	k(pl)	x(ilm)	Q(ilm)				
	0.002232	0.6991	-6.656e-5				

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1356	0.2194	0.01450	0.1087	0.2568	0.01111	0.2539	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
5.94	719.8	0.1227	0.2145	0.9482	0.007114	0.007239	0.5330
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.6451	0.2176	0.1151	0.03022	0.1088	0.2986	
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)	
	0.1327	0.7298	0.5059	0.02669	0.004730	0.3625	
	k(pl)	x(ilm)	Q(ilm)				
	0.002236	0.6990	-6.655e-5				

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1355	0.2193	0.01423	0.1090	0.2568	0.01110	0.2541	0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
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5.96 719.6 0.1224 0.2144 0.9481 0.007116 0.007152 0.5328
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6456 0.2174 0.1159 0.03029 0.1089 0.2981
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1326 0.7310 0.5057 0.02669 0.004713 0.3624
k(pl) x(ilm) Q(ilm)
0.002241 0.6989-6.653e-5

mode liq bi cd g pl ilm q H2O
0.1354 0.2193 0.01395 0.1093 0.2568 0.01109 0.2542 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
5.98 719.5 0.1221 0.2143 0.9481 0.007119 0.007067 0.5325
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6461 0.2172 0.1166 0.03036 0.1090 0.2977
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1324 0.7321 0.5056 0.02669 0.004696 0.3623
k(pl) x(ilm) Q(ilm)
0.002245 0.6989-6.651e-5

mode liq bi cd g pl ilm q H2O
0.1352 0.2193 0.01368 0.1095 0.2568 0.01108 0.2544 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.00 719.3 0.1218 0.2142 0.9480 0.007122 0.006982 0.5323
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6465 0.2169 0.1173 0.03043 0.1091 0.2972
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1322 0.7333 0.5054 0.02669 0.004680 0.3622
k(pl) x(ilm) Q(ilm)
0.002250 0.6988-6.650e-5

mode liq bi cd g pl ilm q H2O
0.1351 0.2193 0.01340 0.1098 0.2569 0.01107 0.2545 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.02 719.2 0.1215 0.2141 0.9479 0.007125 0.006898 0.5321
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6470 0.2167 0.1180 0.03050 0.1092 0.2968
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1320 0.7344 0.5052 0.02669 0.004663 0.3621
k(pl) x(ilm) Q(ilm)
0.002254 0.6987-6.648e-5

mode liq bi cd g pl ilm q H2O
0.1350 0.2192 0.01312 0.1100 0.2569 0.01106 0.2547 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.04 719.0 0.1212 0.2140 0.9479 0.007128 0.006816 0.5319
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6475 0.2165 0.1188 0.03057 0.1094 0.2963
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1319 0.7356 0.5050 0.02669 0.004647 0.3620
k(pl) x(ilm) Q(ilm)
0.002258 0.6987-6.646e-5

mode liq bi cd g pl ilm q H2O
0.1348 0.2192 0.01284 0.1103 0.2569 0.01105 0.2548 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.06 718.9 0.1209 0.2139 0.9478 0.007132 0.006734 0.5316
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6480 0.2162 0.1195 0.03064 0.1095 0.2959
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1317 0.7367 0.5048 0.02669 0.004631 0.3620
k(pl) x(ilm) Q(ilm)
0.002263 0.6986-6.645e-5

mode liq bi cd g pl ilm q H2O
0.1347 0.2192 0.01257 0.1106 0.2569 0.01104 0.2550 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.08 718.8 0.1206 0.2138 0.9478 0.007135 0.006654 0.5314
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6484 0.2160 0.1202 0.03072 0.1096 0.2954
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1315 0.7379 0.5046 0.02669 0.004614 0.3619
k(pl) x(ilm) Q(ilm)
0.002267 0.6985-6.644e-5

mode liq bi cd g pl ilm q H2O
0.1346 0.2191 0.01229 0.1108 0.2570 0.01103 0.2551 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.10 718.6 0.1203 0.2137 0.9477 0.007138 0.006575 0.5312
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6489 0.2158 0.1210 0.03079 0.1097 0.2949
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1313 0.7390 0.5044 0.02669 0.004598 0.3618
k(pl) x(ilm) Q(ilm)
0.002272 0.6985-6.642e-5

mode liq bi cd g pl ilm q H2O
0.1345 0.2191 0.01201 0.1111 0.2570 0.01102 0.2553 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.12 718.5 0.1200 0.2136 0.9476 0.007142 0.006497 0.5309
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6493 0.2156 0.1217 0.03086 0.1098 0.2945
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1312 0.7401 0.5042 0.02669 0.004582 0.3617
k(pl) x(ilm) Q(ilm)
0.002277 0.6984-6.641e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1344	0.2191	0.01173	0.1114	0.2570	0.01102	0.2555	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.14 718.3 0.1197 0.2135 0.9476 0.007145 0.006420 0.5307
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6498 0.2153 0.1225 0.03093 0.1099 0.2940
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1310 0.7412 0.5040 0.02669 0.004567 0.3616
k(pl) x(ilm) Q(ilm)
0.002281 0.6983-6.640e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1342	0.2190	0.01144	0.1116	0.2570	0.01101	0.2556	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.16 718.2 0.1194 0.2134 0.9475 0.007149 0.006343 0.5305
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6503 0.2151 0.1233 0.03100 0.1101 0.2935
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1308 0.7423 0.5038 0.02669 0.004551 0.3615
k(pl) x(ilm) Q(ilm)
0.002286 0.6982-6.639e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1341	0.2190	0.01116	0.1119	0.2571	0.01100	0.2558	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.18 718.0 0.1191 0.2133 0.9475 0.007153 0.006268 0.5302
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6507 0.2149 0.1240 0.03107 0.1102 0.2930
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1307 0.7434 0.5036 0.02669 0.004535 0.3615
k(pl) x(ilm) Q(ilm)
0.002290 0.6982-6.637e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1340	0.2190	0.01088	0.1122	0.2571	0.01099	0.2559	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.20 717.9 0.1188 0.2132 0.9474 0.007157 0.006194 0.5300
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6512 0.2146 0.1248 0.03114 0.1103 0.2926
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1305 0.7445 0.5034 0.02669 0.004520 0.3614
k(pl) x(ilm) Q(ilm)

0.002295 0.6981-6.636e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1339	0.2190	0.01059	0.1124	0.2571	0.01098	0.2561	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.22	717.8	0.1185	0.2131	0.9473	0.007160	0.006120	0.5298	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6516	0.2144	0.1256	0.03121	0.1104	0.2921		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1303	0.7456	0.5032	0.02669	0.004504	0.3613		
	k(pl)	x(ilm)	Q(ilm)					
	0.002299	0.6980-6.635e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1338	0.2189	0.01031	0.1127	0.2571	0.01097	0.2562	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.24	717.6	0.1182	0.2130	0.9473	0.007164	0.006048	0.5295	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6521	0.2142	0.1263	0.03128	0.1105	0.2916		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1301	0.7467	0.5030	0.02669	0.004489	0.3612		
	k(pl)	x(ilm)	Q(ilm)					
	0.002304	0.6979-6.634e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1337	0.2189	0.01002	0.1129	0.2571	0.01096	0.2564	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.26	717.5	0.1179	0.2129	0.9472	0.007168	0.005976	0.5293	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6525	0.2139	0.1271	0.03135	0.1107	0.2911		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1300	0.7478	0.5028	0.02669	0.004473	0.3611		
	k(pl)	x(ilm)	Q(ilm)					
	0.002309	0.6979-6.633e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
0.1335	0.2189	0.009737	0.1132	0.2572	0.01095	0.2565	0		

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.28	717.3	0.1176	0.2128	0.9472	0.007172	0.005906	0.5291	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6530	0.2137	0.1279	0.03142	0.1108	0.2906		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1298	0.7489	0.5026	0.02669	0.004458	0.3611		
	k(pl)	x(ilm)	Q(ilm)					
	0.002313	0.6978-6.632e-5						

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mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1334 0.2188 0.009449 0.1135 0.2572 0.01094 0.2567 0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.30  717.2 0.1173 0.2127 0.9471 0.007177 0.005836 0.5288
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6534 0.2135 0.1287 0.03149 0.1109 0.2901
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.1296 0.7500 0.5024 0.02669 0.004443 0.3610
      k(pl) x(ilm) Q(ilm)
      0.002318 0.6977-6.631e-5

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mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1333 0.2188 0.009161 0.1137 0.2572 0.01093 0.2568 0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.32  717.1 0.1170 0.2126 0.9471 0.007181 0.005767 0.5286
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6539 0.2132 0.1295 0.03156 0.1110 0.2897
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.1294 0.7511 0.5021 0.02669 0.004428 0.3609
      k(pl) x(ilm) Q(ilm)
      0.002322 0.6976-6.630e-5

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mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1332 0.2188 0.008873 0.1140 0.2572 0.01092 0.2570 0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.34  716.9 0.1167 0.2125 0.9470 0.007185 0.005699 0.5284
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6543 0.2130 0.1303 0.03163 0.1111 0.2892
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.1293 0.7522 0.5019 0.02669 0.004413 0.3608
      k(pl) x(ilm) Q(ilm)
      0.002327 0.6976-6.630e-5

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mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1331 0.2187 0.008583 0.1143 0.2572 0.01091 0.2571 0
-----
P(kbar) T(iC)  q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.36  716.8 0.1164 0.2125 0.9469 0.007189 0.005632 0.5281
      h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
      0.6548 0.2128 0.1311 0.03170 0.1113 0.2887
      x(cd) h(cd) x(g) z(g) f(g) ca(pl)
      0.1291 0.7532 0.5017 0.02669 0.004398 0.3607
      k(pl) x(ilm) Q(ilm)
      0.002332 0.6975-6.629e-5

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mode   liq   bi   cd   g   pl   ilm   q   H2O
0.1330 0.2187 0.008293 0.1145 0.2573 0.01090 0.2573 0

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P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.38 716.7 0.1161 0.2124 0.9469 0.007194 0.005566 0.5279
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6552 0.2125 0.1319 0.03177 0.1114 0.2882
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1289 0.7543 0.5015 0.02669 0.004383 0.3607
k(pl) x(ilm) Q(ilm)
0.002336 0.6974-6.628e-5

mode liq bi cd g pl ilm q H2O
0.1329 0.2187 0.008002 0.1148 0.2573 0.01090 0.2574 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.40 716.5 0.1158 0.2123 0.9468 0.007198 0.005500 0.5277
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6556 0.2123 0.1327 0.03184 0.1115 0.2877
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1287 0.7554 0.5013 0.02668 0.004368 0.3606
k(pl) x(ilm) Q(ilm)
0.002341 0.6973-6.627e-5

mode liq bi cd g pl ilm q H2O
0.1328 0.2186 0.007710 0.1151 0.2573 0.01089 0.2576 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.42 716.4 0.1155 0.2122 0.9468 0.007203 0.005435 0.5274
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6561 0.2121 0.1335 0.03190 0.1116 0.2872
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1286 0.7564 0.5011 0.02668 0.004353 0.3605
k(pl) x(ilm) Q(ilm)
0.002346 0.6972-6.627e-5

mode liq bi cd g pl ilm q H2O
0.1327 0.2186 0.007418 0.1153 0.2573 0.01088 0.2578 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.44 716.3 0.1152 0.2121 0.9467 0.007207 0.005372 0.5272
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6565 0.2118 0.1343 0.03197 0.1117 0.2867
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1284 0.7575 0.5009 0.02668 0.004339 0.3604
k(pl) x(ilm) Q(ilm)
0.002350 0.6971-6.626e-5

mode liq bi cd g pl ilm q H2O
0.1326 0.2186 0.007124 0.1156 0.2573 0.01087 0.2579 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

6.46 716.1 0.1149 0.2120 0.9466 0.007212 0.005308 0.5269
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6570 0.2116 0.1352 0.03204 0.1119 0.2862
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1282 0.7585 0.5006 0.02668 0.004324 0.3604
k(pl) x(ilm) Q(ilm)
0.002355 0.6971-6.626e-5

mode liq bi cd g pl ilm q H2O
0.1325 0.2185 0.006830 0.1159 0.2574 0.01086 0.2581 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.48 716.0 0.1146 0.2119 0.9466 0.007217 0.005246 0.5267
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6574 0.2114 0.1360 0.03211 0.1120 0.2856
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1280 0.7596 0.5004 0.02668 0.004310 0.3603
k(pl) x(ilm) Q(ilm)
0.002360 0.6970-6.625e-5

mode liq bi cd g pl ilm q H2O
0.1324 0.2185 0.006535 0.1161 0.2574 0.01085 0.2582 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.50 715.9 0.1144 0.2118 0.9465 0.007221 0.005184 0.5265
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6578 0.2111 0.1368 0.03218 0.1121 0.2851
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1279 0.7606 0.5002 0.02668 0.004295 0.3602
k(pl) x(ilm) Q(ilm)
0.002364 0.6969-6.625e-5

mode liq bi cd g pl ilm q H2O
0.1323 0.2185 0.006240 0.1164 0.2574 0.01084 0.2584 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.52 715.7 0.1141 0.2117 0.9465 0.007226 0.005124 0.5262
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6583 0.2109 0.1377 0.03225 0.1122 0.2846
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1277 0.7616 0.5000 0.02668 0.004281 0.3601
k(pl) x(ilm) Q(ilm)
0.002369 0.6968-6.624e-5

mode liq bi cd g pl ilm q H2O
0.1322 0.2184 0.005943 0.1167 0.2574 0.01083 0.2585 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.54 715.6 0.1138 0.2116 0.9464 0.007231 0.005064 0.5260
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.6587 0.2106 0.1385 0.03232 0.1124 0.2841
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1275 0.7627 0.4998 0.02668 0.004267 0.3601
k(pl) x(ilm) Q(ilm)
0.002374 0.6967-6.624e-5

mode liq bi cd g pl ilm q H2O
0.1321 0.2184 0.005646 0.1169 0.2574 0.01082 0.2587 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.56 715.5 0.1135 0.2115 0.9463 0.007236 0.005004 0.5257
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6591 0.2104 0.1394 0.03238 0.1125 0.2836
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1273 0.7637 0.4995 0.02668 0.004253 0.3600
k(pl) x(ilm) Q(ilm)
0.002378 0.6966-6.623e-5

mode liq bi cd g pl ilm q H2O
0.1320 0.2184 0.005348 0.1172 0.2574 0.01081 0.2588 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.58 715.4 0.1132 0.2114 0.9463 0.007241 0.004946 0.5255
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6596 0.2102 0.1402 0.03245 0.1126 0.2831
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1272 0.7647 0.4993 0.02668 0.004239 0.3599
k(pl) x(ilm) Q(ilm)
0.002383 0.6965-6.623e-5

mode liq bi cd g pl ilm q H2O
0.1319 0.2183 0.005049 0.1175 0.2575 0.01080 0.2590 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.60 715.2 0.1129 0.2113 0.9462 0.007246 0.004888 0.5253
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6600 0.2099 0.1411 0.03252 0.1127 0.2826
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1270 0.7657 0.4991 0.02668 0.004225 0.3598
k(pl) x(ilm) Q(ilm)
0.002388 0.6964-6.623e-5

mode liq bi cd g pl ilm q H2O
0.1318 0.2183 0.004749 0.1177 0.2575 0.01079 0.2591 0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.62 715.1 0.1126 0.2112 0.9461 0.007251 0.004830 0.5250
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6604 0.2097 0.1419 0.03259 0.1129 0.2820
x(cd) h(cd) x(g) z(g) f(g) ca(pl)

0.1268 0.7667 0.4989 0.02668 0.004211 0.3598
k(pl) x(ilm) Q(ilm)
0.002392 0.6963-6.622e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1317	0.2183	0.004448	0.1180	0.2575	0.01078	0.2593	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.64 715.0 0.1123 0.2111 0.9461 0.007256 0.004774 0.5248
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6608 0.2094 0.1428 0.03265 0.1130 0.2815
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1266 0.7678 0.4986 0.02668 0.004197 0.3597
k(pl) x(ilm) Q(ilm)
0.002397 0.6962-6.622e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1316	0.2182	0.004147	0.1183	0.2575	0.01077	0.2594	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.66 714.8 0.1120 0.2110 0.9460 0.007262 0.004718 0.5245
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6613 0.2092 0.1437 0.03272 0.1131 0.2810
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1265 0.7688 0.4984 0.02668 0.004183 0.3596
k(pl) x(ilm) Q(ilm)
0.002402 0.6961-6.622e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1315	0.2182	0.003845	0.1185	0.2575	0.01076	0.2596	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.68 714.7 0.1117 0.2109 0.9460 0.007267 0.004663 0.5243
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6617 0.2090 0.1445 0.03279 0.1132 0.2805
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1263 0.7698 0.4982 0.02668 0.004169 0.3596
k(pl) x(ilm) Q(ilm)
0.002406 0.6960-6.622e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O
	0.1315	0.2182	0.003542	0.1188	0.2575	0.01075	0.2598	0

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.70 714.6 0.1114 0.2108 0.9459 0.007272 0.004609 0.5240
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6621 0.2087 0.1454 0.03285 0.1134 0.2799
x(cd) h(cd) x(g) z(g) f(g) ca(pl)
0.1261 0.7708 0.4979 0.02668 0.004156 0.3595
k(pl) x(ilm) Q(ilm)

0.002411 0.6959-6.622e-5

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1314	0.2181	0.003238	0.1191	0.2575	0.01074	0.2599		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.72	714.5	0.1111	0.2108	0.9458	0.007278	0.004555	0.5238	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6625	0.2085	0.1463	0.03292	0.1135	0.2794		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1259	0.7718	0.4977	0.02668	0.004142	0.3594		
	k(pl)	x(ilm)	Q(ilm)					
	0.002416	0.6958-6.622e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1313	0.2181	0.002933	0.1193	0.2575	0.01074	0.2601		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.74	714.3	0.1108	0.2107	0.9458	0.007283	0.004502	0.5236	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6629	0.2082	0.1472	0.03299	0.1136	0.2789		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1258	0.7727	0.4975	0.02668	0.004129	0.3593		
	k(pl)	x(ilm)	Q(ilm)					
	0.002420	0.6957-6.622e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1312	0.2181	0.002627	0.1196	0.2576	0.01073	0.2602		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.76	714.2	0.1106	0.2106	0.9457	0.007289	0.004449	0.5233	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6634	0.2080	0.1481	0.03305	0.1137	0.2783		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1256	0.7737	0.4972	0.02668	0.004115	0.3593		
	k(pl)	x(ilm)	Q(ilm)					
	0.002425	0.6956-6.622e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1311	0.2180	0.002321	0.1199	0.2576	0.01072	0.2604		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)	
6.78	714.1	0.1103	0.2105	0.9457	0.007294	0.004397	0.5231	
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
	0.6638	0.2077	0.1490	0.03312	0.1139	0.2778		
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)		
	0.1254	0.7747	0.4970	0.02668	0.004102	0.3592		
	k(pl)	x(ilm)	Q(ilm)					
	0.002430	0.6955-6.622e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1310	0.2180	0.002013	0.1202	0.2576	0.01071	0.2605		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.80	714.0	0.1100	0.2104	0.9456	0.007300	0.004346	0.5228		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6642	0.2075	0.1499	0.03318	0.1140	0.2773			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1252	0.7757	0.4968	0.02668	0.004089	0.3591			
	k(pl)	x(ilm)	Q(ilm)						
	0.002434	0.6954	-6.622e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1309	0.2180	0.001705	0.1204	0.2576	0.01070	0.2607		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.82	713.8	0.1097	0.2103	0.9455	0.007306	0.004295	0.5226		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6646	0.2073	0.1508	0.03325	0.1141	0.2767			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1251	0.7767	0.4965	0.02668	0.004075	0.3591			
	k(pl)	x(ilm)	Q(ilm)						
	0.002439	0.6953	-6.622e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1309	0.2179	0.001396	0.1207	0.2576	0.01069	0.2608		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.84	713.7	0.1094	0.2102	0.9455	0.007311	0.004245	0.5223		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6650	0.2070	0.1517	0.03332	0.1142	0.2762			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1249	0.7776	0.4963	0.02668	0.004062	0.3590			
	k(pl)	x(ilm)	Q(ilm)						
	0.002443	0.6952	-6.622e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1308	0.2179	0.001086	0.1210	0.2576	0.01068	0.2610		0

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)		
6.86	713.6	0.1091	0.2101	0.9454	0.007317	0.004196	0.5221		
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)			
	0.6654	0.2068	0.1526	0.03338	0.1144	0.2756			
	x(cd)	h(cd)	x(g)	z(g)	f(g)	ca(pl)			
	0.1247	0.7786	0.4960	0.02668	0.004049	0.3589			
	k(pl)	x(ilm)	Q(ilm)						
	0.002448	0.6951	-6.622e-5						

mode	liq	bi	cd	g	pl	ilm	q	H2O	
	0.1307	0.21790	0.007755	0.1212	0.2576	0.01067	0.2611		0

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.88    713.5  0.1088  0.2100  0.9454  0.007323  0.004147  0.5218
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6658  0.2065  0.1535  0.03344  0.1145  0.2751
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.1245  0.7796  0.4958  0.02668  0.004036  0.3589
      k(pl)  x(ilm)  Q(ilm)
      0.002453  0.6950-6.623e-5

```

```

mode  liq  bi  cd  g  pl  ilm  q  H2O
0.1306  0.21780.0004638  0.1215  0.2576  0.01066  0.2613  0

```

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
6.90    713.3  0.1086  0.2099  0.9453  0.007329  0.004099  0.5216
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.6662  0.2063  0.1544  0.03351  0.1146  0.2745
      x(cd)  h(cd)  x(g)  z(g)  f(g)  ca(pl)
      0.1243  0.7805  0.4956  0.02668  0.004023  0.3588
      k(pl)  x(ilm)  Q(ilm)
      0.002457  0.6949-6.623e-5

```

```

mode  liq  bi  cd  g  pl  ilm  q  H2O
0.1305  0.21780.0001513  0.1218  0.2577  0.01065  0.2614  0

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O

```

calcs use:

composition (from script)

```

H2O  SiO2  Al2O3  CaO  MgO  FeO  K2O  Na2O  TiO2  O
6.830 63.411 8.772 2.498 8.645 4.849 1.454 2.703 0.644 0.195

```

<=====>

phases : liq, bi, g, pl, ilm, ru, q

```

-----
P(kbar)  T(iC)  q(L)  fsp(L)  na(L)  an(L)  ol(L)  x(L)
10.00   861.0  0.1172  0.3020  0.8445  0.02136  0.01476  0.5743
      h2o(L)  x(bi)  y(bi)  f(bi)  t(bi)  Q(bi)
      0.5406  0.1950  0.1323  0.03883  0.1781  0.2234
      x(g)  z(g)  f(g)  ca(pl)  k(pl)  x(ilm)
      0.4516  0.06194  0.01593  0.3746  0.01445  0.6517
      Q(ilm)
      -0.00024

```

```

mode  liq  bi  g  pl  ilm  ru  q
0.2156  0.1855  0.1490  0.2042  0.007722  0 0.2379

```

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.05 864.0 0.1179 0.3038 0.8413 0.02180 0.01515 0.5745
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5373 0.1943 0.1316 0.03880 0.1798 0.2222
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4500 0.06282 0.01633 0.3748 0.01492 0.6520
Q(ilm)
-0.00024

mode liq bi g pl ilm ru q
0.2187 0.1842 0.1499 0.2026 0.007682 0 0.2369

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.10 867.4 0.1186 0.3058 0.8378 0.02230 0.01560 0.5746
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5335 0.1935 0.1308 0.03876 0.1817 0.2208
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4481 0.06375 0.01677 0.3752 0.01544 0.6525
Q(ilm)
-0.00025

mode liq bi g pl ilm ru q
0.2223 0.1826 0.1509 0.2008 0.007641 0 0.2357

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.15 871.1 0.1196 0.3081 0.8336 0.02287 0.01615 0.5746
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5291 0.1925 0.1298 0.03869 0.1838 0.2192
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4459 0.06474 0.01727 0.3756 0.01604 0.6533
Q(ilm)
-0.00026

mode liq bi g pl ilm ru q
0.2266 0.1808 0.1520 0.1987 0.007601 0 0.2343

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 875.6 0.1208 0.3108 0.8286 0.02356 0.01687 0.5745
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5237 0.1913 0.1285 0.03858 0.1864 0.2174
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4430 0.06582 0.01787 0.3763 0.01676 0.6545
Q(ilm)
-0.00027

mode liq bi g pl ilm ru q
0.2320 0.1785 0.1534 0.1961 0.007561 0 0.2324

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.25 881.8 0.1228 0.3145 0.8215 0.02452 0.01795 0.5741

h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
0.5159	0.1895	0.1266	0.03836	0.1900	0.2148
x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
0.4389	0.06711	0.01868	0.3776	0.01775	0.6566
Q(ilm)					

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2400	0.1752	0.1551	0.1925	0.007522	0	0.2297

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.02	862.0	0.1174	0.3026	0.8435	0.02150	0.01488	0.5744
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5395	0.1948	0.1321	0.03882	0.1786	0.2230		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
0.4511	0.06223	0.01606	0.3747	0.01460	0.6518		
Q(ilm)							

-0.00024

mode	liq	bi	g	pl	ilm	ru	q
	0.2166	0.1851	0.1493	0.2037	0.007709	0	0.2376

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.05	864.0	0.1178	0.3038	0.8414	0.02180	0.01514	0.5745
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5373	0.1943	0.1317	0.03880	0.1798	0.2222		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
0.4500	0.06281	0.01632	0.3748	0.01492	0.6520		
Q(ilm)							

-0.00024

mode	liq	bi	g	pl	ilm	ru	q
	0.2187	0.1842	0.1499	0.2026	0.007682	0	0.2369

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.08	866.0	0.1183	0.3050	0.8392	0.02209	0.01541	0.5746
h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)		
0.5351	0.1938	0.1312	0.03878	0.1809	0.2213		
x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)		
0.4489	0.06338	0.01659	0.3750	0.01523	0.6523		
Q(ilm)							

-0.00025

mode	liq	bi	g	pl	ilm	ru	q
	0.2208	0.1833	0.1505	0.2015	0.007657	0	0.2362

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.11 868.0 0.1188 0.3062 0.8371 0.02239 0.01569 0.5746

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5328 0.1933 0.1307 0.03875 0.1820 0.2205

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4477 0.06393 0.01686 0.3752 0.01554 0.6526

Q(ilm)

-0.00025

mode	liq	bi	g	pl	ilm	ru	q
	0.2230	0.1823	0.1511	0.2004	0.007634	0	0.2355

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.14 870.0 0.1193 0.3074 0.8349 0.02270 0.01598 0.5746

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5305 0.1928 0.1301 0.03872 0.1832 0.2197

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4466 0.06445 0.01712 0.3755 0.01586 0.6530

Q(ilm)

-0.00026

mode	liq	bi	g	pl	ilm	ru	q
	0.2253	0.1814	0.1517	0.1993	0.007612	0	0.2347

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.16 872.0 0.1198 0.3086 0.8327 0.02300 0.01628 0.5746

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5281 0.1923 0.1296 0.03867 0.1843 0.2189

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4453 0.06496 0.01739 0.3757 0.01618 0.6535

Q(ilm)

-0.00026

mode	liq	bi	g	pl	ilm	ru	q
	0.2276	0.1804	0.1523	0.1982	0.007592	0	0.2339

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

10.18 874.0 0.1204 0.3098 0.8304 0.02330 0.01660 0.5745

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5257 0.1917 0.1290 0.03862 0.1855 0.2180

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4441 0.06544 0.01766 0.3760 0.01650 0.6540

Q(ilm)

-0.00026

mode	liq	bi	g	pl	ilm	ru	q
	0.2300	0.1794	0.1529	0.1971	0.007574	0	0.2331

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.20	876.0	0.1210	0.3111	0.8282	0.02361	0.01693	0.5745
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5232	0.1912	0.1284	0.03857	0.1866	0.2172	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4428	0.06591	0.01792	0.3764	0.01682	0.6546	
	Q(ilm)						
	-0.00027						

mode	liq	bi	g	pl	ilm	ru	q
	0.2324	0.1783	0.1535	0.1959	0.007558	0	0.2323

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.22	878.0	0.1216	0.3123	0.8259	0.02392	0.01727	0.5744
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5208	0.1906	0.1278	0.03850	0.1878	0.2164	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4415	0.06635	0.01819	0.3768	0.01714	0.6552	
	Q(ilm)						
	-0.00027						

mode	liq	bi	g	pl	ilm	ru	q
	0.2350	0.1773	0.1541	0.1947	0.007543	0	0.2314

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.24	880.0	0.1222	0.3135	0.8235	0.02424	0.01763	0.5742
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5182	0.1900	0.1272	0.03843	0.1890	0.2155	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4401	0.06676	0.01845	0.3772	0.01746	0.6559	
	Q(ilm)						
	-0.00027						

mode	liq	bi	g	pl	ilm	ru	q
	0.2376	0.1762	0.1546	0.1936	0.007531	0	0.2305

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.25	882.0	0.1229	0.3147	0.8212	0.02455	0.01800	0.5740
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.5156	0.1894	0.1265	0.03835	0.1902	0.2147	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4387	0.06715	0.01871	0.3777	0.01778	0.6567	
	Q(ilm)						
	-0.00028						

mode	liq	bi	g	pl	ilm	ru	q
	0.2403	0.1750	0.1552	0.1924	0.007521	0	0.2296

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
---------	-------	------	--------	-------	-------	-------	------

10.26 884.0 0.1236 0.3159 0.8188 0.02487 0.01838 0.5738
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5130 0.1888 0.1258 0.03826 0.1914 0.2139
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4372 0.06751 0.01897 0.3782 0.01810 0.6575
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2431	0.1739	0.1557	0.1911	0.007513	0	0.2286

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.27 886.0 0.1244 0.3171 0.8164 0.02519 0.01879 0.5736
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5103 0.1882 0.1251 0.03816 0.1926 0.2130
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4357 0.06784 0.01923 0.3788 0.01842 0.6583
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2460	0.1727	0.1563	0.1899	0.007508	0	0.2276

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.28 888.0 0.1252 0.3182 0.8139 0.02551 0.01921 0.5733
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5076 0.1875 0.1244 0.03805 0.1938 0.2122
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4342 0.06815 0.01949 0.3794 0.01873 0.6593
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2490	0.1715	0.1568	0.1887	0.007505	0	0.2266

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.28 890.0 0.1260 0.3194 0.8115 0.02584 0.01965 0.5729
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5048 0.1869 0.1236 0.03794 0.1950 0.2113
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4326 0.06842 0.01975 0.3801 0.01904 0.6603
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2520	0.1703	0.1574	0.1874	0.007504	0	0.2255

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.28 892.0 0.1269 0.3206 0.8090 0.02617 0.02011 0.5725
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5019 0.1862 0.1228 0.03781 0.1962 0.2105
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4309 0.06866 0.02000 0.3809 0.01934 0.6614
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2552	0.1690	0.1579	0.1861	0.007507	0	0.2243

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.28 894.0 0.1278 0.3218 0.8064 0.02650 0.02060 0.5721
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4990 0.1854 0.1220 0.03768 0.1975 0.2096
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4292 0.06887 0.02025 0.3818 0.01964 0.6625
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2585	0.1677	0.1584	0.1848	0.007513	0	0.2232

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.27 896.0 0.1287 0.3229 0.8038 0.02683 0.02110 0.5716
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4960 0.1847 0.1211 0.03754 0.1987 0.2087
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4274 0.06904 0.02049 0.3827 0.01994 0.6637
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2620	0.1663	0.1588	0.1834	0.007521	0	0.2219

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.26 898.0 0.1297 0.3241 0.8012 0.02717 0.02163 0.5711
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4930 0.1839 0.1202 0.03739 0.2000 0.2078
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4255 0.06917 0.02073 0.3837 0.02022 0.6650
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2655	0.1649	0.1593	0.1821	0.007533	0	0.2207

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.25 900.0 0.1308 0.3252 0.7985 0.02751 0.02219 0.5705
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4899 0.1831 0.1193 0.03723 0.2012 0.2069
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4236 0.06926 0.02097 0.3848 0.02050 0.6663
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2692	0.1635	0.1597	0.1807	0.007549	0	0.2193

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.24 902.0 0.1319 0.3264 0.7958 0.02786 0.02277 0.5698
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4867 0.1823 0.1184 0.03706 0.2025 0.2060
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4216 0.06931 0.02120 0.3861 0.02077 0.6677
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2731	0.1620	0.1602	0.1793	0.007569	0	0.2179

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.22 904.0 0.1330 0.3275 0.7931 0.02820 0.02338 0.5691
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4835 0.1814 0.1174 0.03688 0.2038 0.2050
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4196 0.06932 0.02143 0.3874 0.02103 0.6692
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2771	0.1605	0.1606	0.1778	0.007592	0	0.2165

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.19 906.0 0.1342 0.3286 0.7903 0.02855 0.02402 0.5683
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4801 0.1806 0.1165 0.03669 0.2051 0.2041
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4174 0.06928 0.02165 0.3888 0.02128 0.6707
Q(ilm)

-0.00028

mode	liq	bi	g	pl	ilm	ru	q
	0.2812	0.1589	0.1609	0.1764	0.007620	0	0.2149

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.16 908.0 0.1355 0.3297 0.7874 0.02891 0.02469 0.5674
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4767 0.1796 0.1154 0.03648 0.2065 0.2031
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4151 0.06918 0.02186 0.3904 0.02151 0.6723
Q(ilm)

-0.00027

mode	liq	bi	g	pl	ilm	ru	q
	0.2856	0.1573	0.1613	0.1749	0.007653	0	0.2133

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.13	910.0	0.1368	0.3308	0.7845	0.02927	0.02540	0.5665
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4732	0.1786	0.1144	0.03627	0.2078	0.2021	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4128	0.06903	0.02206	0.3922	0.02173	0.6740	
	Q(ilm)						

-0.00027

mode	liq	bi	g	pl	ilm	ru	q
	0.2901	0.1556	0.1616	0.1733	0.007691	0	0.2117

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.09	912.0	0.1382	0.3319	0.7815	0.02963	0.02615	0.5654
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4696	0.1776	0.1133	0.03605	0.2092	0.2010	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4103	0.06883	0.02226	0.3941	0.02193	0.6758	
	Q(ilm)						

-0.00027

mode	liq	bi	g	pl	ilm	ru	q
	0.2949	0.1538	0.1619	0.1718	0.007734	0	0.2099

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.05	914.0	0.1397	0.3329	0.7785	0.03000	0.02693	0.5643
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4658	0.1766	0.1122	0.03582	0.2106	0.1999	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4077	0.06856	0.02245	0.3961	0.02211	0.6777	
	Q(ilm)						

-0.00026

mode	liq	bi	g	pl	ilm	ru	q
	0.2999	0.1520	0.1621	0.1702	0.007783	0	0.2080

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
10.00	916.0	0.1413	0.3339	0.7754	0.03038	0.02777	0.5630
	h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)	
	0.4620	0.1754	0.1111	0.03557	0.2120	0.1988	
	x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)	
	0.4050	0.06822	0.02263	0.3984	0.02227	0.6796	
	Q(ilm)						

-0.00026

mode	liq	bi	g	pl	ilm	ru	q
	0.3052	0.1501	0.1623	0.1685	0.007839	0	0.2060

calcs use:

composition (from script)

H2O	SiO2	Al2O3	CaO	MgO	FeO	K2O	Na2O	TiO2	O
6.830	63.411	8.772	2.498	8.645	4.849	1.454	2.703	0.644	0.195

<=====>

phases : liq, bi, g, pl, ilm, ru, q

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.17	745.0	0.1262	0.2310	0.9288	0.008550	0.007180	0.5362
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6220	0.2094	0.1435	0.03427	0.1219	0.2704
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4844	0.02313	0.005038	0.3721	0.003381	0.6881
		Q(ilm)					

-7.73E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1516	0.2143	0.1223	0.2490	0.01029	0	0.2525

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.38	750.0	0.1247	0.2342	0.9263	0.008925	0.007388	0.5389
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6198	0.2092	0.1432	0.03453	0.1240	0.2685
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4836	0.02439	0.005302	0.3725	0.003616	0.6858
		Q(ilm)					

-7.99E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1531	0.2136	0.1231	0.2476	0.01017	0	0.2525

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.58	755.0	0.1233	0.2373	0.9238	0.009315	0.007600	0.5415
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.6176	0.2090	0.1428	0.03480	0.1261	0.2666
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4828	0.02570	0.005580	0.3729	0.003866	0.6835
		Q(ilm)					

-8.27E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1546	0.2129	0.1238	0.2462	0.01005	0	0.2524

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
6.78	760.0	0.1220	0.2404	0.9212	0.009720	0.007817	0.5440

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6153 0.2087 0.1425 0.03506 0.1283 0.2647
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4819 0.02708 0.005875 0.3733 0.004132 0.6812
Q(ilm)

-8.57E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1562	0.2122	0.1247	0.2447	0.009932	0	0.2523

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
6.98 765.0 0.1208 0.2435 0.9185 0.01014 0.008040 0.5464
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6129 0.2084 0.1422 0.03532 0.1305 0.2628
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4810 0.02851 0.006186 0.3736 0.004415 0.6788
Q(ilm)

-8.90E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1579	0.2115	0.1255	0.2432	0.009810	0	0.2522

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.18 770.0 0.1197 0.2466 0.9157 0.01058 0.008268 0.5488
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6103 0.2081 0.1418 0.03559 0.1327 0.2608
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4801 0.03000 0.006514 0.3739 0.004716 0.6766
Q(ilm)

-9.25E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1596	0.2107	0.1264	0.2416	0.009689	0	0.2520

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.38 775.0 0.1186 0.2496 0.9129 0.01103 0.008502 0.5511
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6077 0.2077 0.1415 0.03585 0.1349 0.2588
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4792 0.03154 0.006861 0.3741 0.005036 0.6743
Q(ilm)

-9.64E-05

mode	liq	bi	g	pl	ilm	ru	q
	0.1615	0.2099	0.1273	0.2400	0.009567	0	0.2518

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.57 780.0 0.1177 0.2527 0.9099 0.01150 0.008742 0.5532
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6049 0.2073 0.1412 0.03611 0.1372 0.2568

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4782 0.03315 0.007227 0.3743 0.005377 0.6720
Q(ilm)

-0.0001

mode	liq	bi	g	pl	ilm	ru	q
	0.1634	0.2090	0.1282	0.2384	0.009445	0	0.2515

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.76 785.0 0.1169 0.2557 0.9068 0.01199 0.008990 0.5553
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.6020 0.2068 0.1408 0.03637 0.1395 0.2548
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4772 0.03480 0.007612 0.3744 0.005739 0.6698
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.1655	0.2081	0.1292	0.2367	0.009324	0	0.2512

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
7.95 790.0 0.1161 0.2588 0.9036 0.01249 0.009245 0.5573
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5990 0.2064 0.1405 0.03662 0.1418 0.2528
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4761 0.03651 0.008018 0.3745 0.006123 0.6677
Q(ilm)

-0.00011

mode	liq	bi	g	pl	ilm	ru	q
	0.1676	0.2071	0.1303	0.2350	0.009203	0	0.2509

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.13 795.0 0.1155 0.2618 0.9003 0.01301 0.009510 0.5592
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5959 0.2058 0.1402 0.03687 0.1442 0.2508
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4750 0.03826 0.008445 0.3746 0.006531 0.6656
Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.1699	0.2060	0.1314	0.2332	0.009082	0	0.2504

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
8.31 800.0 0.1149 0.2649 0.8969 0.01355 0.009784 0.5611
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5926 0.2053 0.1398 0.03712 0.1465 0.2487
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4738 0.04005 0.008893 0.3746 0.006963 0.6636

Q(ilm)

-0.00012

mode	liq	bi	g	pl	ilm	ru	q
	0.1723	0.2050	0.1325	0.2313	0.008962	0	0.2500

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.48	805.0	0.1145	0.2679	0.8934	0.01410	0.01007	0.5628
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5893	0.2047	0.1395	0.03735	0.1490	0.2467
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4725	0.04187	0.009362	0.3746	0.007421	0.6617
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	ru	q
	0.1748	0.2038	0.1336	0.2295	0.008844	0	0.2494

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.65	810.0	0.1141	0.2709	0.8897	0.01467	0.01037	0.5644
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5857	0.2041	0.1391	0.03758	0.1514	0.2446
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4712	0.04373	0.009853	0.3746	0.007906	0.6599
		Q(ilm)					

-0.00013

mode	liq	bi	g	pl	ilm	ru	q
	0.1775	0.2026	0.1348	0.2275	0.008727	0	0.2488

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.82	815.0	0.1139	0.2740	0.8860	0.01525	0.01068	0.5659
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5821	0.2034	0.1387	0.03780	0.1539	0.2425
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4698	0.04560	0.01037	0.3745	0.008418	0.6582
		Q(ilm)					

-0.00014

mode	liq	bi	g	pl	ilm	ru	q
	0.1803	0.2013	0.1361	0.2255	0.008611	0	0.2482

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.98	820.0	0.1137	0.2770	0.8820	0.01585	0.01101	0.5673
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.5783	0.2027	0.1383	0.03800	0.1564	0.2405
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.4683	0.04748	0.01090	0.3744	0.008958	0.6567
		Q(ilm)					

-0.00015

mode	liq	bi	g	pl	ilm	ru	q
	0.1833	0.2000	0.1373	0.2235	0.008498	0	0.2474

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.13 825.0 0.1137 0.2800 0.8780 0.01647 0.01136 0.5686

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5743 0.2019 0.1378 0.03818 0.1589 0.2384

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4667 0.04937 0.01145 0.3744 0.009528 0.6553

Q(ilm)

-0.00016

mode	liq	bi	g	pl	ilm	ru	q
	0.1864	0.1986	0.1387	0.2214	0.008388	0	0.2466

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.28 830.0 0.1138 0.2831 0.8738 0.01710 0.01173 0.5698

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5702 0.2011 0.1373 0.03835 0.1615 0.2363

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4650 0.05124 0.01203 0.3743 0.01013 0.6541

Q(ilm)

-0.00017

mode	liq	bi	g	pl	ilm	ru	q
	0.1897	0.1970	0.1400	0.2192	0.008280	0	0.2457

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.42 835.0 0.1140 0.2861 0.8695 0.01775 0.01213 0.5709

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5659 0.2003 0.1367 0.03850 0.1641 0.2342

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4632 0.05310 0.01262 0.3742 0.01075 0.6530

Q(ilm)

-0.00018

mode	liq	bi	g	pl	ilm	ru	q
	0.1933	0.1955	0.1414	0.2169	0.008177	0	0.2447

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)

9.55 840.0 0.1143 0.2892 0.8650 0.01841 0.01255 0.5718

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)

0.5614 0.1994 0.1360 0.03862 0.1667 0.2321

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)

0.4612 0.05492 0.01323 0.3741 0.01141 0.6522

Q(ilm)

-0.00019

mode	liq	bi	g	pl	ilm	ru	q
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0.1970 0.1938 0.1428 0.2146 0.008077 0 0.2437

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.67 845.0 0.1148 0.2922 0.8604 0.01909 0.01301 0.5726
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5568 0.1984 0.1353 0.03872 0.1693 0.2300
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4592 0.05670 0.01385 0.3741 0.01209 0.6517
Q(ilm)
-0.0002

mode liq bi g pl ilm ru q
0.2010 0.1920 0.1443 0.2123 0.007983 0 0.2425

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.78 850.0 0.1154 0.2952 0.8556 0.01978 0.01350 0.5733
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5520 0.1974 0.1345 0.03879 0.1720 0.2280
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4570 0.05842 0.01449 0.3742 0.01280 0.6514
Q(ilm)
-0.00021

mode liq bi g pl ilm ru q
0.2052 0.1901 0.1458 0.2098 0.007894 0 0.2412

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.89 855.0 0.1161 0.2983 0.8506 0.02049 0.01404 0.5739
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5469 0.1964 0.1336 0.03883 0.1748 0.2259
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4546 0.06007 0.01514 0.3743 0.01354 0.6513
Q(ilm)
-0.00022

mode liq bi g pl ilm ru q
0.2098 0.1881 0.1472 0.2073 0.007811 0 0.2398

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.98 860.0 0.1170 0.3013 0.8456 0.02121 0.01463 0.5743
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5417 0.1952 0.1326 0.03883 0.1775 0.2238
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4521 0.06163 0.01579 0.3745 0.01430 0.6516
Q(ilm)
-0.00023

mode liq bi g pl ilm ru q
0.2146 0.1860 0.1487 0.2047 0.007736 0 0.2382

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.07 865.0 0.1181 0.3044 0.8403 0.02195 0.01527 0.5745
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5362 0.1940 0.1314 0.03879 0.1803 0.2218
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4494 0.06310 0.01646 0.3749 0.01507 0.6521
 Q(ilm)
 -0.00024

mode liq bi g pl ilm ru q
 0.2197 0.1837 0.1502 0.2021 0.007670 0 0.2366

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.14 870.0 0.1193 0.3074 0.8349 0.02270 0.01598 0.5746
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5305 0.1928 0.1301 0.03872 0.1832 0.2197
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4466 0.06445 0.01712 0.3755 0.01586 0.6530
 Q(ilm)
 -0.00026

mode liq bi g pl ilm ru q
 0.2253 0.1814 0.1517 0.1993 0.007612 0 0.2347

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.19 875.0 0.1207 0.3105 0.8293 0.02346 0.01676 0.5745
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5245 0.1915 0.1287 0.03860 0.1860 0.2176
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4435 0.06568 0.01779 0.3762 0.01666 0.6543
 Q(ilm)
 -0.00027

mode liq bi g pl ilm ru q
 0.2312 0.1788 0.1532 0.1965 0.007566 0 0.2327

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.24 880.0 0.1222 0.3135 0.8235 0.02424 0.01763 0.5742
 h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
 0.5182 0.1900 0.1272 0.03843 0.1890 0.2155
 x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
 0.4401 0.06676 0.01845 0.3772 0.01746 0.6559
 Q(ilm)
 -0.00027

mode liq bi g pl ilm ru q
 0.2376 0.1762 0.1546 0.1936 0.007531 0 0.2305

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
 10.27 885.0 0.1240 0.3165 0.8176 0.02503 0.01858 0.5737

h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5117 0.1885 0.1255 0.03821 0.1920 0.2134
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4365 0.06768 0.01910 0.3785 0.01826 0.6579
Q(ilm)

-0.00028

mode liq bi g pl ilm ru q
0.2445 0.1733 0.1560 0.1905 0.007510 0 0.2281

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.28 890.0 0.1260 0.3194 0.8115 0.02584 0.01965 0.5729
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.5048 0.1869 0.1236 0.03794 0.1950 0.2113
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4326 0.06842 0.01975 0.3801 0.01904 0.6603
Q(ilm)

-0.00028

mode liq bi g pl ilm ru q
0.2520 0.1703 0.1574 0.1874 0.007504 0 0.2255

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.28 895.0 0.1282 0.3223 0.8051 0.02667 0.02085 0.5719
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4975 0.1851 0.1215 0.03761 0.1981 0.2091
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4283 0.06896 0.02037 0.3822 0.01979 0.6631
Q(ilm)

-0.00028

mode liq bi g pl ilm ru q
0.2602 0.1670 0.1586 0.1841 0.007517 0 0.2226

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.25 900.0 0.1308 0.3252 0.7985 0.02751 0.02219 0.5705
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4899 0.1831 0.1193 0.03723 0.2012 0.2069
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4236 0.06926 0.02097 0.3848 0.02050 0.6663
Q(ilm)

-0.00028

mode liq bi g pl ilm ru q
0.2692 0.1635 0.1597 0.1807 0.007549 0 0.2193

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.20 905.0 0.1336 0.3280 0.7917 0.02838 0.02369 0.5687
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4818 0.1810 0.1170 0.03678 0.2045 0.2045

x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4185 0.06930 0.02154 0.3881 0.02115 0.6699
Q(ilm)

-0.00028

mode liq bi g pl ilm ru q
0.2791 0.1597 0.1608 0.1771 0.007606 0 0.2157

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.13 910.0 0.1368 0.3308 0.7845 0.02927 0.02540 0.5665
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4732 0.1786 0.1144 0.03627 0.2078 0.2021
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4128 0.06903 0.02206 0.3922 0.02173 0.6740
Q(ilm)

-0.00027

mode liq bi g pl ilm ru q
0.2901 0.1556 0.1616 0.1733 0.007691 0 0.2117

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
10.03 915.0 0.1405 0.3334 0.7769 0.03019 0.02734 0.5637
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4639 0.1760 0.1116 0.03570 0.2113 0.1994
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.4064 0.06840 0.02254 0.3972 0.02219 0.6786
Q(ilm)

-0.00026

mode liq bi g pl ilm ru q
0.3025 0.1510 0.1622 0.1694 0.007810 0 0.2070

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.89 920.0 0.1447 0.3359 0.7689 0.03114 0.02958 0.5602
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4539 0.1730 0.1087 0.03505 0.2148 0.1965
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3991 0.06730 0.02295 0.4036 0.02251 0.6837
Q(ilm)

-0.00025

mode liq bi g pl ilm ru q
0.3167 0.1460 0.1625 0.1651 0.007973 0 0.2017

P(kbar) T(iC) q(L) fsp(L) na(L) an(L) ol(L) x(L)
9.70 925.0 0.1497 0.3382 0.7602 0.03214 0.03219 0.5557
h2o(L) x(bi) y(bi) f(bi) t(bi) Q(bi)
0.4429 0.1695 0.1055 0.03431 0.2186 0.1932
x(g) z(g) f(g) ca(pl) k(pl) x(ilm)
0.3906 0.06561 0.02327 0.4117 0.02264 0.6894

Q(ilm)

-0.00024

mode	liq	bi	g	pl	ilm	ru	q
	0.3332	0.1403	0.1624	0.1605	0.008194	0	0.1954

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.44	930.0	0.1558	0.3401	0.7505	0.03319	0.03531	0.5498
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4305	0.1653	0.1020	0.03348	0.2226	0.1893
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3804	0.06310	0.02345	0.4223	0.02250	0.6958
		Q(ilm)					

-0.00022

mode	liq	bi	g	pl	ilm	ru	q
	0.3531	0.1336	0.1618	0.1554	0.008495	0	0.1876

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
9.07	935.0	0.1638	0.3416	0.7393	0.03431	0.03921	0.5416
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.4158	0.1600	0.09806	0.03249	0.2270	0.1845
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3675	0.05930	0.02343	0.4369	0.02196	0.7032
		Q(ilm)					

-0.00021

mode	liq	bi	g	pl	ilm	ru	q
	0.3786	0.1253	0.1602	0.1496	0.008927	0	0.1774

P(kbar)	T(iC)	q(L)	fsp(L)	na(L)	an(L)	ol(L)	x(L)
8.43	940.0	0.1762	0.3419	0.7242	0.03556	0.04478	0.5282
		h2o(L)	x(bi)	y(bi)	f(bi)	t(bi)	Q(bi)
		0.3957	0.1521	0.09322	0.03119	0.2323	0.1775
		x(g)	z(g)	f(g)	ca(pl)	k(pl)	x(ilm)
		0.3484	0.05275	0.02298	0.4606	0.02060	0.7132
		Q(ilm)					

-0.00019

mode	liq	bi	g	pl	ilm	ru	q
	0.4172	0.1133	0.1567	0.1419	0.009647	0	0.1612