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The attenuation of the main zone at the Phosiri Dome, Bushveld Complex

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represented by small euhedral needles and blebs, which measure 0.1 - 4mm. Pyroxene is an intercumulus phase with both clinopyroxene and inverted pigeonite occurring. Grains are 1 - 3mm and 1 - 4mm respectively and exhibit a sub-ophitic texture with the plagioclase. Minor alteration to chlorite is evident as small patches within grains and also at grain boundaries. Biotite is absent.

37m (D2.408)
Plagioclase is present only as the major cumulus mineral. Myrmekitic textures are clearly noticeable within many of the grains, which are 1 - 4mm. Numerous grains are elongate and fragmentation is conspicuous. Very small patches of alteration occur throughout. Magnetite appears only in an interstitial role as rounded blebs of 1 - 4mm between plagioclase and pyroxene. Pyroxene is an intercumulus phase with clinopyroxene dominant over inverted pigeonite. Both minerals exhibit a sub-ophitic texture where incorporation of plagioclase has occurred. Grain size is 1 - 3mm and 1 - 4mm respectively with optical continuity retained over large areas. Small quantities of chlorite exist at grain boundaries where minor alteration has taken place. Biotite is absent.

14m (D2.431)
Plagioclase is the major cumulus mineral. Myrmekitic textures are found at the edges of the larger grains, which measure 3 - 8mm. A sub-ophitic texture is apparent in the smaller grains, which are incorporated within the pyroxenes. These are 0.5 - 1mm in size and are more euhedral in shape. Slight deformation has resulted in bent albite twins. Magnetite, present as small euhedral exsolution needles of < 0.3mm within the pyroxenes. As an interstitial mineral, it occurs at the boundaries of the larger plagioclase and pyroxene grains. Pyroxene is an intercumulus phase, with both clinopyroxene and inverted pigeonite occurring as large mottles that retain optical continuity up to 10mm and 7mm respectively. Alteration to chlorite is noted at grain boundaries. One grain shows secondary hornblende replacement. Biotite occurs as tiny acicular grains of < 0.1mm in association with magnetite.

4m (D2.441)
Plagioclase is present only as the major cumulus phase. Grains are sub-euhedral to sub-anhedral and are 1 - 5mm. Alteration to sericite has occurred in minor amounts and zonation is evident in only a few grains. Deformation has resulted in bent albite twins, but these are ill-defined. Magnetite is a minor cumulus phase. It exists as very small euhedral exsolution needles of < 1mm within pyroxene grains. Pyroxene is an intercumulus phase, with both clinopyroxene and inverted pigeonite exhibiting an ophitic texture with plagioclase. Grains are 1 - 4mm and 1 - 3mm respectively and have a sub-euhedral appearance. Alteration to chlorite is minor and found mainly at grain boundaries. Biotite occurs as blebs up to 1mm in association with magnetite.

-3m (D2.448)
Plagioclase only occurs as a major cumulus phase. Grains are 1 - 5mm and exhibit diagonal alignment across the thin section. The majority are small and blocky, with only a few elongate laths present. Alteration, deformation and zonation are not evident. Magnetite is absent. Pyroxene is an intercumulus phase and is represented mainly by clinopyroxene, which has a grain size of 1 - 4mm. Minor amounts of primary orthopyroxene, measuring 1 - 6mm, are present. Both minerals are sub-anhedral and exhibit a sub-ophitic texture with plagioclase. Inverted pigeonite is absent. Alteration to chlorite is minor and occurs at grain edges. Biotite measures < 0.5mm.

-22m (D2.467)
Plagioclase occurs as the major cumulus phase. Grains are sub-euhedral to sub-anhedral and are 1 - 3mm in size. Small patches of alteration to sericite occur throughout the sample. Deformation has caused albite twins, which are ill-defined, to bend. Magnetite is found as tiny intercumulus needles, which are <

0.1mm, at the boundaries of both plagioclase and pyroxene grains. Pyroxene is an intercumulus phase. Both orthopyroxene and clinopyroxene occur and have grains of 1 - 5mm and 1 - 4mm respectively. Ophitic textures are observed in the former due to the inclusion of plagioclase. Chlorite alteration is found at grain boundaries and within grains as patches. Replacement by secondary hornblende is prevalent throughout the thin section, affecting areas of 1 - 3mm. Biotite is absent.

-39m (D2.484)
Plagioclase forms the major cumulus phase only. Grains are sub-euhedral to sub-anhedral and are 1 - 3mm. Alteration has resulted in small patches of sericite occurring throughout the section. Deformation of albite twins is also extensive. Magnetite is absent. Pyroxene is present as an intercumulus phase. Both clinopyroxene and orthopyroxene exhibit a sub-ophitic texture with plagioclase and have grains of 2 - 6mm and 1 - 3mm respectively. A very small amount of the alteration product chlorite is observed at grain boundaries only. Small grains of biotite, < 0.5mm are also to be found at these sites.

-62m (D2.507)
Plagioclase is the major cumulus mineral. Grains are sub-euhedral to sub0anhedral and are 1 - 3mm. Alteration is absent. A few grains of plagioclase exhibit bent albite twins, evidence of deformation. Zonation is absent. Magnetite occurs as exsolution needles of < 0.1mm. These appear in the exsolution lamellae of pyroxenes and display a sub-parallel arrangement. Pyroxene is an intercumulus phase. Clinopyroxene and orthopyroxene grains are 1 - 5mm and 1 - 6mm respectively. An ophitic texture is apparent in both minerals where plagioclase is incorporated. Minor alteration to chlorite is found at grain boundaries. Biotite is absent.

-76m (D2.521)
Plagioclase forms the major cumulus phase. Grains are sub-euhedral to sub-anhedral and are 1 - 3mm, with laths randomly aligned throughout. Alteration, deformation and zonation are absent. Magnetite is absent. The pyroxene minerals, clinopyroxene and orthopyroxene, form an intercumulus phase. Grains are 1 - 3mm and 1 - 6mm respectively. The latter exhibits optical continuity and covers a more extensive area. A sub-ophitic is observed between pyroxene and plagioclase grains. Alteration is apparent at grain boundaries, where both chlorite and secondary hornblende are observed. A negligible amount of biotite is present.

-88m (D2.533)
Plagioclase is a major phase. Grains are sub-euhedral to sub-anhedral and are 1 - 2mm. Patches of alteration to sericite occur throughout many of the grains. Deformation is slight with bent albite twinning apparent in only a few grains. Similarly, zonation is evident in only a small proportion of grains. Magnetite is absent. Pyroxene forms an intercumulus phase with clinopyroxene present in approximately equal proportions to orthopyroxene. Grains have a sub-anhedral appearance and are 1 - 6mm and 1 - 3mm respectively. Both pyroxenes demonstrate an ophitic texture where grains incorporate plagioclase. Alteration to chlorite is evident at grain boundaries. Biotite is absent.

-96m (D2.541)
Plagioclase is present as the major cumulus phase. Grains are sub-euhedral to sub-anhedral and measure 1 - 3mm. Alteration to sericite is minor. Deformation of exsolution lamellae is negligible. Zonation is absent. Magnetite is absent. Pyroxene is a minor cumulus phase with orthopyroxene occurring less frequently than clinopyroxene. Both minerals have grains ranging from 0.5 - 3mm, which exhibit a sub-ophitic texture due to the inclusion of plagioclase. Chlorite alteration occurs only at grain boundaries. Biotite is present in negligible amounts and grains are 0.5mm.

-113m (D2.558)
Plagioclase is the major cumulus mineral. The randomly aligned grains are sub-euhedral to sub-anhedral and range from 1 - 4mm. Alteration and zonation are absent, although exsolution lamellae of the plagioclase are bent, indicating deformation has taken place. Rounded blebs of magnetite, which are < 0.1mm, occur as exsolution needles within the pyroxene. Pyroxene is a minor cumulus phase with clinopyroxene and orthopyroxene grains measuring 0.5 - 1mm and 0.5 - 3mm respectively. Alteration has occurred to both minerals with patches of chlorite scattered throughout the thin section. Biotite is absent.

-123m (D2.568)
Plagioclase is the major cumulus phase. Grains are 1 - 4mm in size and most have a blocky appearance. Alteration to sericite is found at grain boundaries. Slight deformation is evident in some grains resulting in bent albite twins. Zonation is absent. Magnetite is absent. Pyroxene is an intercumulus phase formed solely by clinopyroxene grains, which are 1 - 3mm and have a sub-anhedral appearance. Alteration to chlorite is absent. Small grains of biotite, measuring < 0.5mm, are present throughout the interstitial component.

-148m (D2.593)
Plagioclase forms a major cumulus phase. Grains are sub-euhedral to sub-anhedral and 1 - 3mm in size. The majority of grains show signs of alteration and patches of sericite are evident throughout the sample. Deformation and zonation are absent. Magnetite is a minor component, appearing as small rounded blebs of < 0.1mm. Clinopyroxene alone represents the pyroxene component, forming an intercumulus phase with sub-anhedral grains that are optically continuous over areas up to 5mm in size. A sub-ophitic texture is observed where partial envelopment of plagioclase has occurred. Alteration to chlorite is evident at the pyroxene grain boundaries. Biotite is absent.

-152m (D2.597)
Plagioclase has a major cumulus role and an interstitial component. Grains are sub-euhedral to sub-anhedral and are < 0.1 - 3mm in size. Alteration is evident in the patches of sericite, which are present throughout both phases. Deformation is absent. Magnetite is absent. Orthopyroxene is the only pyroxene present and forms an intercumulus phase. Grains are between 1 - 3mm and are sub-anhedral. An outline of ophitic textures between the plagioclase and the pyroxene grains is evident. Alteration has been extensive with the majority of grains having undergone alteration to chlorite, secondary hornblende and associated biotite. Areas of hornblende alteration range from 2 - 3mm.

APPENDIX 3: ELECTRON MICROPROBE STANDARDS

Division of Mineral Products, CSIRO, Australia "PC-MICROBEAM" : 1992 Version 1.00
Quantitative Microprobe Analysis on Line Mode. W.F is the weight fraction in the following table.

Plagioclase Standards

Standard 1 is F-8 compound of	Na	W.F.	0.1966	line :Ka at 15.0Kv
	Al	W.F.	0.0577	
	Si	W.F.	0.2402	
	Be	W.F.	0.0193	
	Cl	W.F.	0.0758	
	O	W.F.	0.4105	
Standard 2 is E-21 compound of	K	W.F.	0.1005	line :Ka at 15.0Kv
	Al	W.F.	0.0993	
	Fe	W.F.	0.0014	
	Ba	W.F.	0.0098	
	Na	W.F.	0.0223	
	Si	W.F.	0.3023	
	O	W.F.	0.4628	
Standard 3 is A-9 compound of	Si	W.F.	0.3203	line :Ka at 15.0Kv
	Al	W.F.	0.1034	
	Ca	W.F.	0.0009	
	Na	W.F.	0.086	
	K	W.F.	0.0018	
	O	W.F.	0.4876	
Standard 4 is E-9 compound of	Ca	W.F.	0.0843	line :Ka at 15.0Kv
	Ti	W.F.	0.0004	
	Al	W.F.	0.151	
	Fe	W.F.	0.0029	
	Mg	W.F.	0.0008	
	Si	W.F.	0.2534	
	Sr	W.F.	0.0007	
	Na	W.F.	0.0323	
	K	W.F.	0.0034	
	O	W.F.	0.4708	
Standard 5 is E-9 compound of	Al	W.F.	0.151	line :Ka at 15.0Kv
	Ti	W.F.	0.0004	
	Si	W.F.	0.2534	
	Fe	W.F.	0.0029	
	Mg	W.F.	0.0008	
	Ca	W.F.	0.0843	
	Sr	W.F.	0.0007	
	Na	W.F.	0.0323	
	K	W.F.	0.0034	
	O	W.F.	0.4708	
Standard 6 is E-7 compound of	Mg	W.F.	0.311	line :Ka at 15.0Kv
	Fe	W.F.	0.0506	
	Mn	W.F.	0.0009	
	Si	W.F.	0.1956	
	Ni	W.F.	0.0016	
	O	W.F.	0.4403	
Standard 7 is K-PY compound of	Fe	W.F.	0.0828	line :Ka at 15.0Kv
	Ti	W.F.	0.0028	
	Al	W.F.	0.1252	
	Si	W.F.	0.1931	
	Mn	W.F.	0.0022	
	Mg	W.F.	0.1113	
	Ca	W.F.	0.0368	
	O	W.F.	0.4458	
Standard 8 is ILM compound of	Mn	W.F.	0.0372	line :Ka at 15.0Kv
	Fe	W.F.	0.3639	
	Ti	W.F.	0.2756	
	Mg	W.F.	0.0019	
	O	W.F.	0.3214	
Standard 9 is ILM compound of	Ti	W.F.	0.2756	line :Ka at 15.0Kv
	Fe	W.F.	0.3639	
	Mn	W.F.	0.0372	
	Mg	W.F.	0.0019	
	O	W.F.	0.3214	

Pyroxene standards

Standard 1 is A-9 compound of	Na	W.F.	0.086	line :Ka at 15.0Kv
	Al	W.F.	0.1034	
	Ca	W.F.	0.0009	
	Si	W.F.	0.3203	
	K	W.F.	0.0018	
	O	W.F.	0.4876	
Standard 2 is E-21 compound of	K	W.F.	0.1005	line :Ka at 15.0Kv
	Al	W.F.	0.0993	
	Fe	W.F.	0.0014	
	Ba	W.F.	0.0098	
	Na	W.F.	0.0223	
	Si	W.F.	0.3023	
	O	W.F.	0.4628	
Standard 3 is E-9 compound of	Si	W.F.	0.2534	line :Ka at 15.0Kv
	Ti	W.F.	0.0004	
	Al	W.F.	0.151	
	Fe	W.F.	0.0029	
	Mg	W.F.	0.0008	
	Ca	W.F.	0.0843	
	Sr	W.F.	0.0007	
	Na	W.F.	0.0323	
	K	W.F.	0.0034	
	O	W.F.	0.4708	
Standard 4 is E-9 compound of	Al	W.F.	0.151	line :Ka at 15.0Kv
	Ti	W.F.	0.0004	
	Si	W.F.	0.2534	
	Fe	W.F.	0.0029	
	Mg	W.F.	0.0008	
	Ca	W.F.	0.0843	
	Sr	W.F.	0.0007	
	Na	W.F.	0.0323	
	K	W.F.	0.0034	
	O	W.F.	0.4708	
Standard 5 is C-15 compound of	Ca	W.F.	0.1826	line :Ka at 15.0Kv
	Ti	W.F.	0.0003	
	Fe	W.F.	0.0094	
	Cr	W.F.	0.004	
	Mg	W.F.	0.1053	
	Si	W.F.	0.2577	
	O	W.F.	0.4406	
Standard 6 is E-7 compound of	Mg	W.F.	0.311	line :Ka at 15.0Kv
	Fe	W.F.	0.0506	
	Mn	W.F.	0.0009	
	Si	W.F.	0.1956	
	Ni	W.F.	0.0016	
	O	W.F.	0.4403	
Standard 7 is ILM compound of	Ti	W.F.	0.2756	line :Ka at 15.0Kv
	Fe	W.F.	0.3639	
	Mn	W.F.	0.0372	
	Mg	W.F.	0.0019	
	O	W.F.	0.3214	
Standard 8 is HORT compound of	Fe	W.F.	0.3365	line :Ka at 15.0Kv
	Si	W.F.	0.1564	
	Mn	W.F.	0.0035	
	Mg	W.F.	0.1371	
	Ca	W.F.	0.0005	
	Ni	W.F.	0.0013	
	O	W.F.	0.3648	
Standard 9 is C-17 compound of	Cr	W.F.	0.3722	line :Ka at 15.0Kv
	Fe	W.F.	0.136	
	Ti	W.F.	0.0009	
	Mg	W.F.	0.082	
	Al	W.F.	0.073	
	O	W.F.	0.3351	
Standard 10 is ILM compound of	Mn	W.F.	0.0372	line :Ka at 15.0Kv
	Fe	W.F.	0.3639	
	Ti	W.F.	0.2756	
	Mg	W.F.	0.0019	
	O	W.F.	0.3214	

APPENDIX 4: ELECTRON MICROPROBE DATA

The following pages from xxviii to lxiii contain the full data acquired from the University of the Free State, Bloemfontein, the averages of which are contained within representative tables in Chapter 6. Any data calculating required, was carries out using the software program "Minpet".

Clinopyroxene Core																		
Sample	D1.259a	D1.259b	D1.259c	D1.259d	D1.259e	D1.259f	D1.259g	D1.259h	D1.259i	D1.259j	D1.259k	D1.259l	D1.259m	D1.259n	D1.259o	D1.259p	D1.276a	D1.276b
Depth*	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-36	-36
SiO_2	53.51	53.43	53.79	53.52	53.92	53.23	53.30	54.76	53.95	53.92	54.10	53.62	54.03	54.06	53.84	53.88	55.05	54.64
TiO_2	0.23	0.24	0.18	0.29	0.11	0.38	0.33	0.19	0.19	0.22	0.13	0.14	0.11	0.05	0.17	0.15	0.27	0.38
Al_2O_3	1.14	1.09	0.98	1.10	1.10	1.56	1.46	1.52	0.87	0.92	0.71	1.02	0.81	0.75	1.06	0.90	1.57	1.40
FeO	8.66	8.28	8.14	10.30	7.99	9.03	9.12	8.43	8.86	9.71	8.85	8.96	8.24	8.61	8.42	8.74	8.02	8.53
Cr_2O_3	0.03	0.01	0.05	0.08	0.05	0.05	0.02	0.05	0.02	0.01	0.04	0.05	0.02	0.06	0.04	0.01	0.02	0.05
MnO	0.24	0.30	0.21	0.26	0.22	0.34	0.24	0.26	0.28	0.39	0.30	0.21	0.24	0.24	0.21	0.25	0.25	0.38
MgO	11.37	11.79	11.60	12.44	12.95	13.35	13.46	14.24	13.14	13.23	12.64	11.92	12.83	12.70	12.70	12.34	13.96	14.96
CaO	23.95	23.89	24.25	20.79	22.60	21.21	21.33	18.31	21.84	20.79	22.55	23.01	22.98	22.85	22.87	22.69	19.78	19.43
Na_2O	0.00	0.16	0.00	0.58	0.35	0.22	0.10	0.41	0.10	0.29	0.00	0.35	0.00	0.06	0.00	0.32	0.48	0.06
Total	99.16	99.19	99.22	99.37	99.29	99.40	99.36	98.17	99.26	99.49	99.33	99.28	99.26	99.38	99.32	99.28	99.40	99.83
WO	51.26	50.84	51.70	44.86	48.06	45.03	45.03	40.77	46.21	44.15	47.69	49.21	48.43	48.18	48.37	48.40	43.32	41.16
EN	33.86	34.91	34.41	37.35	38.31	39.44	39.54	44.12	38.69	39.10	37.20	35.47	37.62	37.26	37.38	36.63	42.54	44.10
FS	14.87	14.26	13.90	17.79	13.63	15.54	15.43	15.11	15.10	16.75	15.11	15.31	13.95	14.57	14.25	14.97	14.14	14.74
Mg #	69.48	71.00	71.23	67.73	73.76	71.74	71.93	74.49	71.92	70.01	71.11	69.85	72.94	71.89	72.39	70.98	75.05	74.95
TSi	2.04	2.03	2.04	2.02	2.03	2.00	2.01	2.07	2.04	2.03	2.05	2.03	2.04	2.04	2.03	2.04	2.06	2.04
TAl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.05	0.05	0.04	0.05	0.05	0.07	0.07	0.07	0.04	0.04	0.03	0.05	0.04	0.03	0.05	0.04	0.07	0.06
M1Ti	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe2	0.28	0.26	0.26	0.24	0.22	0.17	0.17	0.12	0.22	0.21	0.25	0.28	0.24	0.25	0.23	0.26	0.14	0.10
M1Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Mg	0.65	0.67	0.66	0.70	0.73	0.75	0.76	0.80	0.74	0.74	0.71	0.67	0.72	0.72	0.72	0.70	0.78	0.83
M2Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2Fe2	0.00	0.00	0.00	0.09	0.03	0.11	0.12	0.15	0.06	0.10	0.03	0.01	0.02	0.02	0.03	0.02	0.11	0.17
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.98	0.97	0.99	0.84	0.91	0.86	0.86	0.74	0.88	0.84	0.91	0.93	0.93	0.92	0.93	0.92	0.79	0.78
M2Na	0.00	0.01	0.00	0.04	0.03	0.02	0.01	0.03	0.01	0.02	0.00	0.03	0.00	0.00	0.00	0.02	0.04	0.00
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Clinopyroxene Core																		
Sample	D1.276c	D1.276d	D1.276e	D1.309a	D1.309b	D1.309c	D1.309d	D1.309e	D1.309f	D1.309g	D1.309h	D1.309i	D1.309j	D1.309k	D1.316a	D1.316b	D1.316c	D1.316d
Depth*	-36	-36	-36	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-76	-76	-76	-76
SiO_2	54.54	55.13	56.58	53.79	53.82	54.38	54.10	54.36	54.02	53.93	54.12	54.03	53.95	54.57	53.31	53.18	53.67	54.28
TiO_2	0.19	0.24	0.05	0.26	0.21	0.13	0.13	0.07	0.10	0.18	0.14	0.17	0.23	0.10	0.28	0.25	0.07	0.04
Al_2O_3	1.66	1.62	0.80	1.45	1.18	0.95	1.15	1.02	1.31	1.58	1.47	1.29	1.58	0.86	1.37	1.48	1.19	1.03
FeO	7.83	8.36	7.76	8.08	8.16	7.53	7.72	6.50	6.65	6.33	6.12	7.62	7.07	6.85	7.64	7.80	8.22	8.67
Cr_2O_3	0.06	0.03	0.00	0.08	0.07	0.03	0.08	0.12	0.09	0.10	0.11	0.11	0.10	0.07	0.11	0.11	0.14	0.09
MnO	0.25	0.22	0.32	0.21	0.30	0.30	0.32	0.29	0.23	0.21	0.20	0.23	0.28	0.20	0.27	0.27	0.41	0.35
MgO	14.20	14.81	15.22	14.25	13.83	14.44	14.17	13.99	13.91	15.21	15.57	15.24	15.40	13.49	14.83	14.97	15.13	14.77
CaO	19.51	19.63	19.89	21.08	21.65	21.29	21.67	22.67	22.70	21.69	21.39	20.33	20.43	22.67	21.49	20.98	20.56	20.25
Na_2O	0.12	0.36	0.00	0.25	0.13	0.35	0.00	0.25	0.25	0.16	0.25	0.41	0.41	0.53	0.09	0.35	0.09	0.09
Total	98.38	100.41	100.66	99.47	99.35	99.41	99.36	99.29	99.27	99.40	99.39	99.43	99.48	99.37	99.39	99.42	99.48	99.61
WO	42.81	41.82	41.98	44.49	45.58	44.82	45.46	47.79	47.86	45.23	44.57	42.65	42.92	48.29	44.49	43.61	42.52	42.32
EN	43.35	43.90	44.70	41.85	40.51	42.30	41.36	41.03	40.81	44.13	45.14	44.49	45.02	39.98	42.72	43.29	43.54	42.95
FS	13.84	14.27	13.32	13.66	13.91	12.87	13.17	11.18	11.33	10.65	10.28	12.86	12.06	11.73	12.79	13.10	13.94	14.72
Mg #	75.80	75.47	77.04	75.39	74.44	76.67	75.85	78.59	78.27	80.56	81.45	77.58	78.87	77.32	76.96	76.77	75.75	74.47
TSi	2.06	2.04	2.09	2.01	2.02	2.03	2.03	2.03	2.02	2.00	2.01	2.01	2.00	2.04	1.99	1.98	2.00	2.03
TAl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.07	0.07	0.04	0.06	0.05	0.04	0.05	0.05	0.06	0.07	0.06	0.06	0.07	0.04	0.05	0.04	0.05	0.05
M1Ti	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe2	0.12	0.11	0.13	0.13	0.17	0.15	0.15	0.17	0.16	0.08	0.07	0.09	0.07	0.21	0.11	0.12	0.10	0.13
M1Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Mg	0.80	0.82	0.84	0.79	0.77	0.80	0.79	0.78	0.78	0.84	0.86	0.84	0.85	0.75	0.83	0.83	0.84	0.82
M2Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2Fe2	0.13	0.15	0.11	0.12	0.09	0.08	0.09	0.03	0.05	0.12	0.12	0.15	0.15	0.01	0.13	0.13	0.16	0.14
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.79	0.78	0.79	0.84	0.87	0.85	0.87	0.91	0.91	0.86	0.85	0.81	0.81	0.91	0.86	0.84	0.82	0.81
M2Na	0.01	0.03	0.00	0.02	0.01	0.03	0.00	0.02	0.02	0.01	0.02	0.03	0.03	0.04	0.01	0.03	0.01	0.01
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Clinopyroxene Core																		
Sample	D1.338a	D1.338b	D1.338c	D1.338d	D1.338e	D1.338f	D1.338g	D1.338h	D1.355a	D1.355b	D1.355c	D1.355d	D1.380a	D1.380b	D1.380c	D1.380d	D1.380e	D1.380f
Depth*	-98	-98	-98	-98	-98	-98	-98	-98	-115	-115	-115	-115	-140	-140	-140	-140	-140	-140
SiO_2	55.25	55.33	53.92	54.70	54.96	54.69	54.30	54.85	53.86	53.43	53.82	54.09	54.37	54.51	54.41	54.32	53.67	55.47
TiO_2	0.06	0.04	0.28	0.18	0.05	0.20	0.17	0.07	0.15	0.31	0.29	0.42	0.12	0.07	0.09	0.17	0.16	0.05
Al_2O_3	0.60	0.69	1.48	0.96	0.66	1.02	1.30	0.72	1.30	1.59	1.47	1.48	1.16	1.23	1.17	1.28	1.66	0.87
FeO	6.07	5.61	7.41	6.87	5.98	6.25	6.57	6.19	6.91	7.41	7.66	7.80	6.49	4.56	7.12	4.98	7.71	4.05
Cr_2O_3	0.14	0.22	0.38	0.22	0.13	0.22	0.30	0.11	0.25	0.25	0.20	0.25	0.21	0.27	0.21	0.23	0.30	0.11
MnO	0.22	0.21	0.13	0.22	0.19	0.16	0.20	0.16	0.20	0.15	0.20	0.16	0.15	0.12	0.19	0.19	0.16	0.11
MgO	16.49	16.62	15.63	16.44	15.70	15.54	14.72	14.82	13.25	13.24	13.98	13.80	16.44	14.24	16.82	13.62	15.90	17.67
CaO	20.56	20.48	20.05	19.41	21.69	20.78	21.37	22.22	23.12	22.88	21.48	21.33	20.40	24.03	19.24	24.06	19.46	20.95
Na_2O	0.09	0.31	0.25	0.47	0.00	0.60	0.47	0.19	0.19	0.00	0.26	0.13	0.25	0.22	0.22	0.40	0.47	0.15
Total	99.48	99.51	99.53	99.50	99.38	99.48	99.42	99.35	99.25	99.26	99.38	99.47	99.60	99.26	99.48	99.26	99.50	99.45
WO	42.47	42.53	42.05	40.59	44.86	43.83	45.34	46.49	49.08	48.47	45.64	45.63	42.10	50.59	39.79	51.14	40.77	42.94
EN	47.39	48.03	45.61	47.83	45.18	45.61	43.45	43.14	39.14	39.03	41.33	41.08	47.20	41.72	48.40	40.28	46.35	50.40
FS	10.15	9.44	12.35	11.58	9.96	10.56	11.22	10.37	11.79	12.50	13.04	13.30	10.70	7.69	11.81	8.58	12.87	6.66
Mg #	82.37	83.57	78.70	80.51	81.93	81.20	79.48	80.62	76.86	75.73	76.02	75.55	81.52	84.43	80.39	82.44	78.26	88.33
TSi	2.04	2.04	2.00	2.02	2.04	2.02	2.02	2.04	2.02	2.01	2.01	2.03	2.01	2.03	2.01	2.02	1.99	2.03
TAl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.03	0.03	0.07	0.04	0.03	0.04	0.06	0.03	0.06	0.07	0.07	0.07	0.05	0.05	0.05	0.06	0.06	0.04
M1Ti	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe2	0.06	0.05	0.05	0.04	0.10	0.09	0.11	0.14	0.19	0.17	0.14	0.14	0.04	0.14	0.01	0.16	0.05	0.00
M1Cr	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
M1Mg	0.91	0.91	0.87	0.91	0.87	0.86	0.82	0.82	0.74	0.74	0.78	0.77	0.90	0.79	0.93	0.76	0.88	0.96
M2Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
M2Fe2	0.13	0.12	0.18	0.17	0.09	0.11	0.09	0.05	0.03	0.06	0.10	0.10	0.16	0.00	0.21	0.00	0.19	0.12
M2Mn	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00
M2Ca	0.82	0.81	0.80	0.77	0.86	0.82	0.85	0.89	0.93	0.92	0.86	0.86	0.81	0.96	0.76	0.96	0.77	0.82
M2Na	0.01	0.02	0.02	0.03	0.00	0.04	0.03	0.01	0.01	0.00	0.02	0.01	0.02	0.02	0.02	0.03	0.03	0.01
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Clinopyroxene Core																		
Sample	D1.380g	D1.380h	D1.380i	D1.380k	D1.380l	D1.399a	D1.399b	D1.399c	D1.399d	D1.399e	D1.419a	D1.419b	D1.419c	D1.476a	D1.476b	D1.476c	D1.476d	D1.476e
Depth'	-140	-140	-140	-140	-140	-159	-159	-159	-159	-159	-179	-179	-179	-236	-236	-236	-236	-236
SiO_2	55.24	53.71	53.86	55.31	55.24	52.89	53.75	53.63	53.62	53.72	54.45	54.07	53.04	53.39	53.99	54.04	53.88	53.99
TiO_2	0.10	0.14	0.13	0.00	0.04	0.20	0.18	0.22	0.09	0.10	0.07	0.06	0.10	0.18	0.18	0.14	0.18	0.21
Al_2O_3	0.98	1.07	2.55	0.53	0.60	2.23	1.19	1.42	1.10	1.07	0.97	1.04	1.03	1.07	1.25	1.27	1.26	1.29
FeO	4.07	6.98	2.79	6.44	6.30	7.65	10.88	9.59	10.70	10.68	9.63	9.24	9.12	7.18	7.35	7.50	7.66	7.79
Cr_2O_3	0.13	0.11	0.14	0.01	0.04	0.59	0.22	0.19	0.10	0.14	0.26	0.13	0.09	0.20	0.28	0.32	0.24	0.29
MnO	0.10	0.12	0.06	0.13	0.13	0.24	0.25	0.20	0.31	0.28	0.32	0.27	0.29	0.20	0.22	0.21	0.24	0.17
MgO	16.37	13.83	14.93	17.05	16.49	13.59	13.47	13.75	12.87	11.91	12.79	12.90	13.57	13.55	14.57	14.55	13.38	14.29
CaO	22.05	23.42	24.15	19.99	20.66	21.86	19.14	20.12	20.46	21.21	19.37	19.27	18.68	19.30	21.50	21.20	22.01	20.88
Na_2O	0.34	0.00	0.53	0.03	0.00	0.13	0.39	0.26	0.13	0.20	0.73	0.00	0.36	0.00	0.10	0.22	0.48	0.51
Total	99.39	99.41	99.30	99.49	99.50	99.39	99.50	99.41	99.38	99.33	98.61	97.00	96.31	95.08	99.45	99.46	99.34	99.43
WO	45.86	48.58	51.22	40.93	42.49	46.58	41.10	42.90	43.57	45.77	43.11	43.16	41.60	43.95	45.09	44.67	47.03	44.45
EN	47.37	39.92	44.06	48.57	47.19	40.29	40.24	40.80	38.13	35.76	39.60	40.20	42.04	42.93	42.52	42.65	39.78	42.32
FS	6.77	11.50	4.72	10.50	10.33	13.13	18.66	16.30	18.31	18.47	17.29	16.63	16.36	13.12	12.40	12.68	13.18	13.23
Mg #	87.49	77.64	90.33	82.22	82.05	75.42	68.32	71.45	67.56	65.95	69.61	70.74	71.99	76.59	77.43	77.08	75.11	76.19
TSi	2.03	2.01	1.98	2.04	2.04	1.98	2.03	2.02	2.03	2.04	2.07	2.09	2.06	2.09	2.02	2.02	2.02	2.01
TAl	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.04	0.05	0.09	0.02	0.03	0.08	0.05	0.06	0.05	0.05	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06
M1Ti	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe2	0.05	0.17	0.08	0.04	0.06	0.14	0.18	0.16	0.22	0.27	0.22	0.20	0.16	0.15	0.12	0.12	0.19	0.13
M1Cr	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01
M1Mg	0.90	0.77	0.82	0.94	0.91	0.76	0.76	0.77	0.73	0.68	0.72	0.75	0.78	0.79	0.81	0.81	0.75	0.80
M2Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2Fe2	0.07	0.05	0.00	0.16	0.13	0.10	0.16	0.15	0.12	0.07	0.08	0.10	0.13	0.09	0.11	0.11	0.06	0.11
M2Mn	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.87	0.94	0.95	0.79	0.82	0.88	0.77	0.81	0.83	0.86	0.79	0.80	0.78	0.81	0.86	0.85	0.88	0.84
M2Na	0.02	0.00	0.04	0.00	0.00	0.01	0.03	0.02	0.01	0.02	0.05	0.00	0.03	0.00	0.01	0.02	0.04	0.04
Sum_cat	4.00	4.00	3.99	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Clinopyroxene Core										
Sample	D1.476f	D1.476g	D1.476h	D1.476i	D1.476j	D1.476k	D1.476l	D1.476m	D1.476n	D1.476o
Depth*	-236	-236	-236	-236	-236	-236	-236	-236	-236	-236
SiO_2	53.63	53.97	54.20	53.90	53.95	54.09	54.04	53.96	49.89	52.04
TiO_2	0.20	0.20	0.17	0.20	0.14	0.20	0.12	0.23	0.11	0.19
Al_2O_3	1.49	1.40	1.12	1.33	1.29	1.32	1.21	1.26	0.99	1.14
FeO	7.43	7.18	7.12	7.31	7.52	7.42	7.44	7.45	7.33	7.51
Cr_2O_3	0.41	0.25	0.36	0.44	0.26	0.24	0.31	0.27	0.26	0.20
MnO	0.20	0.21	0.19	0.20	0.21	0.16	0.16	0.31	0.15	0.18
MgO	13.86	14.46	14.09	14.59	14.46	14.93	14.31	14.92	13.24	13.14
CaO	21.94	21.04	21.81	21.04	21.35	20.47	21.62	20.86	19.43	19.05
Na_2O	0.13	0.73	0.32	0.35	0.25	0.60	0.19	0.19	0.36	0.42
Total	99.30	99.46	99.38	99.36	99.45	99.45	99.40	99.46	91.81	93.88
WO	46.50	44.83	46.28	44.57	44.94	43.40	45.55	43.75	44.47	43.96
EN	40.87	42.87	41.60	43.01	42.35	44.05	41.95	43.54	42.16	42.19
FS	12.63	12.30	12.11	12.42	12.71	12.55	12.50	12.71	13.37	13.86
Mg #	76.40	77.71	77.45	77.59	76.92	77.83	77.04	77.40	75.93	75.28
TSi	2.01	2.01	2.03	2.01	2.01	2.01	2.02	2.01	2.02	2.06
TAl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.07	0.06	0.05	0.06	0.06	0.06	0.05	0.06	0.05	0.05
M1Ti	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe2	0.14	0.13	0.15	0.11	0.13	0.10	0.14	0.10	0.14	0.16
M1Cr	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M1Mg	0.78	0.80	0.79	0.81	0.80	0.83	0.80	0.83	0.80	0.78
M2Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2Fe2	0.09	0.10	0.07	0.12	0.11	0.13	0.10	0.13	0.11	0.09
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.88	0.84	0.87	0.84	0.85	0.82	0.87	0.83	0.84	0.81
M2Na	0.01	0.05	0.02	0.03	0.02	0.04	0.01	0.01	0.03	0.03
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Clinopyroxene Rim																		
Sample	D1.259a	D1.259b	D1.259c	D1.259d	D1.259e	D1.259f	D1.259g	D1.259h	D1.259i	D1.259j	D1.259k	D1.259l	D1.259m	D1.259n	D1.259o	D1.276a	D1.276b	D1.276c
Depth*	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-19	-36	-36	-36
SiO_2	54.51	54.09	53.97	54.08	54.35	53.42	53.43	54.10	53.95	54.20	54.00	54.25	54.33	53.76	53.68	55.60	56.24	55.77
TiO_2	0.09	0.17	0.10	0.13	0.08	0.18	0.15	0.12	0.23	0.12	0.20	0.13	0.12	0.20	0.25	0.07	0.16	0.19
Al_2O_3	0.46	0.67	0.75	0.81	0.73	1.11	1.24	0.79	0.89	0.72	0.89	0.73	0.69	1.09	1.24	0.66	0.85	1.30
FeO	7.81	8.61	8.29	8.94	8.53	9.31	7.95	8.82	9.25	8.63	9.33	8.83	8.61	8.63	8.64	8.24	8.41	8.39
Cr_2O_3	0.05	0.03	0.05	0.04	0.02	0.05	0.01	0.00	0.01	0.01	0.04	0.01	0.01	0.05	0.01	0.02	0.02	0.06
MnO	0.18	0.30	0.30	0.32	0.26	0.22	0.23	0.29	0.27	0.31	0.24	0.30	0.21	0.25	0.20	0.25	0.31	0.27
MgO	12.29	11.55	11.90	12.62	13.45	12.91	14.84	13.14	13.38	12.93	13.59	13.07	13.12	12.48	12.73	14.33	15.06	15.09
CaO	23.85	23.58	23.77	22.31	21.82	22.03	18.45	22.02	21.37	22.15	20.71	21.86	22.14	22.72	22.48	20.22	19.77	19.72
Na_2O	0.00	0.19	0.07	0.13	0.19	0.06	0.12	0.06	0.10	0.29	0.39	0.22	0.10	0.16	0.13	0.36	0.24	0.36
Total	99.27	99.21	99.21	99.39	99.44	99.30	96.42	99.35	99.46	99.37	99.39	99.40	99.33	99.35	99.36	99.77	101.10	101.15
WO	50.54	50.59	50.54	47.37	46.04	46.44	40.56	46.44	45.07	47.01	43.98	46.34	46.83	48.32	47.73	43.22	41.59	41.54
EN	36.24	34.48	35.20	37.28	39.48	37.87	45.40	38.56	39.26	38.18	40.15	38.55	38.61	36.93	37.61	42.62	44.08	44.22
FS	13.22	14.93	14.26	15.35	14.48	15.69	14.04	15.00	15.68	14.82	15.87	15.11	14.57	14.75	14.66	14.17	14.33	14.24
Mg #	73.27	69.79	71.17	70.83	73.17	70.71	76.37	71.99	71.46	72.04	71.68	71.84	72.61	71.46	71.96	75.05	75.47	75.64
TSi	2.06	2.05	2.05	2.04	2.04	2.02	2.06	2.04	2.03	2.04	2.03	2.04	2.05	2.03	2.03	2.07	2.07	2.05
TAl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.02	0.03	0.03	0.04	0.03	0.05	0.06	0.04	0.04	0.03	0.04	0.03	0.03	0.05	0.06	0.03	0.04	0.06
M1Ti	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.01
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe2	0.25	0.27	0.26	0.25	0.21	0.22	0.09	0.22	0.20	0.24	0.19	0.23	0.23	0.24	0.22	0.17	0.13	0.11
M1Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Mg	0.69	0.65	0.67	0.71	0.75	0.73	0.85	0.74	0.75	0.73	0.76	0.73	0.74	0.70	0.72	0.80	0.83	0.83
M2Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2Fe2	0.00	0.00	0.00	0.03	0.06	0.08	0.17	0.06	0.09	0.03	0.10	0.05	0.04	0.03	0.05	0.09	0.13	0.15
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.97	0.96	0.97	0.90	0.88	0.89	0.76	0.89	0.86	0.89	0.83	0.88	0.89	0.92	0.91	0.81	0.78	0.78
M2Na	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.02	0.03	0.02	0.01	0.01	0.01	0.03	0.02	0.03
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Clinopyroxene Rim																		
Sample	D1.276d	D1.309a	D1.309b	D1.309c	D1.309d	D1.309e	D1.309f	D1.309g	D1.309h	D1.309i	D1.309j	D1.309k	D1.309l	D1.309m	D1.309n	D1.316a	D1.316b	D1.316c
Depth*	-36	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-76	-76	-76
SiO_2	56.31	54.16	54.00	54.32	54.73	54.14	54.07	54.80	54.71	54.09	54.17	54.36	54.69	54.57	54.54	52.70	53.37	54.84
TiO_2	0.07	0.14	0.18	0.13	0.01	0.10	0.09	0.06	0.07	0.19	0.21	0.07	0.05	0.10	0.06	0.27	0.10	0.03
Al_2O_3	0.70	0.93	0.95	1.10	0.77	0.94	1.11	0.72	0.81	1.57	1.43	1.13	0.72	0.87	0.89	1.55	0.92	0.54
FeO	8.24	8.38	8.79	9.32	9.19	7.60	7.81	6.49	6.84	5.41	5.97	7.57	7.35	6.47	6.24	8.64	8.06	8.01
Cr_2O_3	0.00	0.07	0.08	0.02	0.04	0.06	0.06	0.07	0.04	0.11	0.14	0.09	0.06	0.07	0.10	0.09	0.11	0.04
MnO	0.23	0.32	0.37	0.21	0.22	0.38	0.34	0.27	0.25	0.11	0.13	0.29	0.34	0.27	0.21	0.33	0.41	0.30
MgO	15.14	13.56	13.53	18.57	18.20	13.71	13.79	14.58	14.07	15.02	14.90	14.55	15.14	14.56	14.61	15.78	14.97	15.77
CaO	19.77	21.19	21.42	15.85	16.50	22.28	21.74	22.08	22.48	22.64	22.08	21.14	20.92	22.23	22.53	19.85	21.01	19.80
Na_2O	0.60	0.60	0.13	0.09	0.00	0.09	0.35	0.28	0.28	0.19	0.34	0.19	0.16	0.16	0.06	0.19	0.41	0.19
Total	101.07	99.38	99.46	99.68	99.72	99.32	99.37	99.35	99.56	99.36	99.38	99.41	99.44	99.30	99.27	99.46	99.36	99.53
WO	41.67	45.23	45.19	32.26	33.56	46.82	45.97	46.34	47.23	47.32	46.41	44.48	43.59	46.55	47.04	40.67	43.36	41.05
EN	44.40	40.27	39.72	52.59	51.50	40.09	40.57	42.58	41.13	43.68	43.58	42.60	43.90	42.42	42.44	44.98	42.99	45.49
FS	13.94	14.50	15.09	15.15	14.94	13.10	13.46	11.08	11.63	9.01	10.01	12.92	12.51	11.02	10.52	14.35	13.65	13.46
Mg #	76.11	73.52	72.46	77.64	77.51	75.37	75.09	79.35	77.95	82.90	81.32	76.73	77.82	79.38	80.14	75.81	75.90	77.17
TSi	2.06	2.03	2.03	2.00	2.02	2.03	2.02	2.04	2.04	2.01	2.01	2.03	2.04	2.04	2.04	1.96	1.99	2.04
TAl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.03	0.04	0.04	0.05	0.03	0.04	0.05	0.03	0.04	0.07	0.06	0.05	0.03	0.04	0.04	0.03	0.03	0.02
M1Ti	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
M1Fe2	0.14	0.20	0.19	0.00	0.00	0.19	0.18	0.16	0.18	0.09	0.10	0.14	0.12	0.15	0.14	0.08	0.13	0.10
M1Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Mg	0.83	0.76	0.76	0.95	0.97	0.77	0.77	0.81	0.78	0.83	0.82	0.81	0.84	0.81	0.81	0.88	0.83	0.87
M2Mg	0.00	0.00	0.00	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2Fe2	0.11	0.07	0.08	0.29	0.28	0.05	0.07	0.05	0.03	0.08	0.08	0.10	0.11	0.06	0.05	0.18	0.12	0.15
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.78	0.85	0.86	0.63	0.65	0.90	0.87	0.88	0.90	0.90	0.88	0.85	0.84	0.89	0.90	0.79	0.84	0.79
M2Na	0.04	0.04	0.01	0.01	0.00	0.01	0.03	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.03	0.01
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Clinopyroxene Rim																		
Sample	D1.316d	D1.338a	D1.338b	D1.338c	D1.338d	D1.338e	D1.338f	D1.338g	D1.338h	D1.355a	D1.355b	D1.355c	D1.355d	D1.380a	D1.380b	D1.380c	D1.380d	D1.380e
Depth*	-76	-98	-98	-98	-98	-98	-98	-98	-98	-115	-115	-115	-115	-140	-140	-140	-140	-140
SiO_2	54.36	55.16	55.06	55.23	54.09	55.14	55.24	54.99	54.90	54.88	54.59	54.29	55.11	52.10	54.97	54.50	54.80	54.67
TiO_2	0.04	0.04	0.04	0.07	0.20	0.10	0.02	0.04	0.02	0.04	0.11	0.29	0.05	0.05	0.03	0.16	0.06	0.10
Al_2O_3	0.70	0.68	0.72	0.76	1.48	0.57	0.58	0.71	0.86	0.59	0.66	1.35	0.52	3.42	0.77	1.47	1.17	1.01
FeO	7.43	5.96	5.64	6.29	6.46	6.23	5.98	5.94	6.01	6.65	6.92	7.29	6.62	6.62	4.59	7.10	4.55	6.77
Cr_2O_3	0.02	0.10	0.21	0.12	0.32	0.15	0.01	0.19	0.23	0.16	0.11	0.19	0.13	0.22	0.15	0.21	0.14	0.26
MnO	0.31	0.18	0.19	0.24	0.20	0.20	0.16	0.18	0.19	0.19	0.20	0.21	0.18	0.17	0.08	0.15	0.13	0.12
MgO	15.15	16.64	15.62	15.76	15.23	15.85	16.35	15.88	16.32	13.58	13.57	13.47	14.02	15.22	14.42	16.74	14.95	16.41
CaO	20.83	20.56	21.72	20.45	21.02	20.98	20.85	21.34	20.64	23.13	23.04	21.85	22.49	21.31	24.16	18.95	23.21	19.68
Na_2O	0.60	0.06	0.22	0.56	0.47	0.16	0.25	0.16	0.25	0.13	0.06	0.38	0.22	0.38	0.03	0.50	0.28	0.44
Total	99.46	99.38	99.42	99.49	99.48	99.38	99.45	99.43	99.43	99.36	99.27	99.32	99.34	99.50	99.21	99.79	99.30	99.48
WO	43.44	42.39	45.24	43.07	44.34	43.66	43.08	44.26	42.83	48.83	48.53	47.04	47.54	44.59	50.47	39.56	48.69	41.09
EN	43.96	47.73	45.27	46.19	44.70	45.89	47.01	45.83	47.12	39.89	39.77	40.35	41.24	44.31	41.91	48.62	43.64	47.68
FS	12.61	9.88	9.48	10.74	10.97	10.45	9.91	9.91	10.05	11.28	11.71	12.61	11.22	11.09	7.62	11.82	7.67	11.23
Mg #	77.72	82.84	82.68	81.13	80.29	81.46	82.59	82.22	82.43	77.96	77.25	76.19	78.60	79.98	84.62	80.45	85.06	80.93
TSi	2.02	2.04	2.04	2.04	2.00	2.05	2.04	2.04	2.03	2.06	2.05	2.03	2.06	1.92	2.05	2.00	2.03	2.02
TAl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.03	0.03	0.03	0.03	0.07	0.03	0.03	0.03	0.04	0.03	0.03	0.06	0.02	0.07	0.03	0.06	0.05	0.04
M1Ti	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
M1Fe2	0.13	0.05	0.10	0.09	0.08	0.09	0.07	0.09	0.06	0.21	0.21	0.17	0.19	0.06	0.14	0.01	0.12	0.04
M1Cr	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01
M1Mg	0.84	0.92	0.86	0.87	0.84	0.88	0.90	0.88	0.90	0.76	0.76	0.75	0.78	0.84	0.80	0.92	0.83	0.90
M2Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2Fe2	0.10	0.14	0.08	0.10	0.12	0.10	0.11	0.10	0.13	0.00	0.01	0.05	0.02	0.12	0.00	0.21	0.02	0.17
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00
M2Ca	0.83	0.82	0.86	0.81	0.83	0.83	0.83	0.85	0.82	0.93	0.93	0.88	0.90	0.84	0.96	0.75	0.92	0.78
M2Na	0.04	0.00	0.02	0.04	0.03	0.01	0.02	0.01	0.02	0.01	0.00	0.03	0.02	0.03	0.00	0.04	0.02	0.03
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Clinopyroxene Rim																		
Sample	D1.380f	D1.380g	D1.380h	D1.380i	D1.380j	D1.380k	D1.399a	D1.399b	D1.399c	D1.399d	D1.399e	D1.399f	D1.419a	D1.419b	D1.419c	D1.476a	D1.476b	D1.476c
Depth*	-140	-140	-140	-140	-140	-140	-159	-159	-159	-159	-159	-159	-179	-179	-179	-236	-236	-236
SiO_2	55.32	55.47	55.89	55.79	54.80	55.51	54.22	54.45	53.71	53.58	54.29	54.51	53.80	55.72	52.96	54.22	54.34	53.97
TiO_2	0.12	0.05	0.06	0.04	0.02	0.07	0.13	0.06	0.13	0.05	0.03	0.10	0.07	0.10	0.07	0.12	0.14	0.20
Al_2O_3	0.74	0.84	0.65	0.88	1.23	0.44	1.22	0.90	1.10	0.92	0.83	0.82	0.60	1.00	0.82	1.15	0.96	1.17
FeO	3.67	3.92	1.98	2.05	4.62	5.77	7.80	8.42	9.28	10.46	10.34	10.39	9.01	8.79	7.00	7.32	7.20	7.50
Cr_2O_3	0.10	0.17	0.07	0.13	0.03	0.02	0.35	0.32	0.28	0.13	0.09	0.12	0.20	0.15	0.19	0.22	0.22	0.20
MnO	0.11	0.12	0.06	0.08	0.09	0.10	0.20	0.24	0.24	0.22	0.29	0.21	0.30	0.29	0.22	0.18	0.22	0.19
MgO	14.84	17.29	15.60	15.86	16.99	17.22	13.52	13.23	13.37	12.94	13.01	13.02	12.90	14.25	13.09	15.50	14.77	14.10
CaO	24.10	21.22	24.57	24.04	21.41	20.17	21.73	21.62	21.21	20.84	20.14	20.27	19.54	17.81	19.62	20.72	21.57	21.86
Na_2O	0.19	0.31	0.30	0.33	0.03	0.09	0.16	0.19	0.06	0.16	0.39	0.07	0.31	0.30	0.18	0.00	0.00	0.10
Total	99.24	99.42	99.20	99.22	99.30	99.40	99.34	99.45	99.40	99.32	99.42	99.51	96.74	98.49	94.16	99.45	99.42	99.31
WO	50.52	43.81	51.33	50.32	43.94	41.41	46.44	46.21	44.89	44.17	43.27	43.44	43.66	39.82	45.13	43.04	45.02	46.04
EN	43.29	49.67	45.34	46.19	48.52	49.19	40.21	39.34	39.37	38.16	38.89	38.82	40.10	44.33	41.90	44.80	42.89	41.32
FS	6.19	6.51	3.33	3.48	7.55	9.41	13.35	14.45	15.73	17.67	17.83	17.74	16.24	15.85	12.97	12.16	12.09	12.65
Mg #	87.49	88.41	93.16	92.99	86.54	83.94	75.07	73.13	71.45	68.35	68.56	68.64	71.17	73.66	76.36	78.65	78.01	76.57
TSi	2.05	2.03	2.06	2.05	2.02	2.05	2.04	2.05	2.03	2.03	2.05	2.06	2.08	2.11	2.10	2.02	2.03	2.02
TAl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.03	0.04	0.03	0.04	0.05	0.02	0.05	0.04	0.05	0.04	0.04	0.04	0.03	0.05	0.04	0.05	0.04	0.05
M1Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe2	0.11	0.01	0.06	0.06	0.01	0.03	0.18	0.21	0.19	0.22	0.23	0.22	0.22	0.14	0.18	0.08	0.13	0.15
M1Cr	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.01
M1Mg	0.82	0.94	0.86	0.87	0.93	0.95	0.76	0.74	0.75	0.73	0.73	0.73	0.75	0.80	0.77	0.86	0.82	0.79
M2Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2Fe2	0.00	0.11	0.00	0.00	0.13	0.15	0.07	0.06	0.11	0.11	0.10	0.11	0.07	0.13	0.05	0.15	0.10	0.09
M2Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.96	0.83	0.97	0.95	0.84	0.80	0.88	0.87	0.86	0.85	0.81	0.82	0.81	0.72	0.83	0.83	0.86	0.88
M2Na	0.01	0.02	0.02	0.02	0.00	0.01	0.01	0.01	0.00	0.01	0.03	0.01	0.02	0.02	0.01	0.00	0.00	0.01
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Clinopyroxene Rim											
Sample	D1.476d	D1.476e	D1.476f	D1.476g	D1.476h	D1.476i	D1.476j	D1.476k	D1.476l	D1.476m	D1.476n
Depth*	-236	-236	-236	-236	-236	-236	-236	-236	-236	-236	-236
SiO_2	54.04	53.84	54.07	53.73	53.69	54.06	54.25	54.25	53.96	50.31	52.73
TiO_2	0.15	0.23	0.13	0.15	0.16	0.19	0.11	0.12	0.18	0.13	0.09
Al_2O_3	1.19	1.20	1.19	1.26	1.54	1.22	1.07	1.21	1.21	1.26	1.00
FeO	7.61	7.56	7.36	7.54	7.36	7.76	7.62	7.25	7.94	7.05	7.18
Cr_2O_3	0.31	0.27	0.26	0.36	0.47	0.25	0.16	0.24	0.23	0.22	0.19
MnO	0.23	0.23	0.17	0.36	0.18	0.19	0.22	0.17	0.15	0.13	0.20
MgO	14.11	14.03	14.68	13.83	14.30	14.86	14.63	15.01	14.36	12.25	13.28
CaO	21.31	21.83	21.28	22.07	21.25	20.66	21.01	20.77	20.70	18.74	19.34
Na_2O	0.44	0.13	0.26	0.06	0.38	0.25	0.32	0.41	0.67	0.12	0.12
Total	99.43	99.34	99.42	99.36	99.34	99.47	99.41	99.44	99.40	90.26	94.13
WO	45.28	46.02	44.72	46.48	45.18	43.46	44.24	43.77	44.05	45.28	44.38
EN	41.71	41.15	42.93	40.53	42.30	43.49	42.87	44.02	42.52	41.18	42.40
FS	13.01	12.82	12.36	12.99	12.52	13.06	12.89	12.21	13.44	13.54	13.22
Mg #	76.23	76.24	77.65	75.72	77.17	76.91	76.88	78.28	75.98	75.25	76.23
TSi	2.02	2.02	2.02	2.02	2.01	2.02	2.02	2.02	2.01	2.08	2.09
TAl	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.05	0.05	0.05	0.06	0.07	0.05	0.05	0.05	0.05	0.06	0.05
M1Ti	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00
M1Fe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe2	0.15	0.15	0.12	0.16	0.12	0.11	0.13	0.11	0.14	0.17	0.16
M1Cr	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M1Mg	0.79	0.78	0.82	0.77	0.80	0.83	0.81	0.83	0.80	0.76	0.78
M2Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M2Fe2	0.09	0.09	0.11	0.08	0.11	0.13	0.11	0.12	0.11	0.07	0.08
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.85	0.88	0.85	0.89	0.85	0.83	0.84	0.83	0.83	0.83	0.82
M2Na	0.03	0.01	0.02	0.00	0.03	0.02	0.02	0.03	0.05	0.01	0.01
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Orthopyroxene Core																		
Sample	D1.338a	D1.338b	D1.338c	D1.338d	D1.338e	D1.338f	D1.355a	D1.355b	D1.355c	D1.355d	D1.380a	D1.380b	D1.380c	D1.380d	D1.380e	D1.380f	D1.380g	D1.380h
Depth*	-98	-98	-98	-98	-98	-98	-115	-115	-115	-115	-140	-140	-140	-140	-140	-140	-140	-140
SiO_2	53.86	53.84	54.28	54.47	54.01	54.59	54.85	54.87	54.90	54.73	53.60	54.10	54.72	53.71	52.94	54.15	53.98	54.14
TiO_2	0.16	0.16	0.10	0.12	0.09	0.16	0.04	0.09	0.03	0.13	0.08	0.10	0.19	0.10	0.15	0.06	0.05	0.04
Al_2O_3	0.83	1.07	0.71	0.54	0.86	0.58	0.64	0.45	0.56	0.63	0.74	0.75	0.79	0.84	0.87	0.78	0.73	0.70
FeO	17.21	17.66	17.49	17.61	16.99	20.16	20.45	19.77	20.07	19.74	19.64	19.81	14.98	18.22	18.90	17.86	19.64	17.86
Cr_2O_3	0.11	0.16	0.13	0.07	0.22	0.11	0.11	0.04	0.09	0.10	0.12	0.15	0.13	0.13	0.18	0.17	0.07	0.07
MnO	0.35	0.40	0.37	0.37	0.34	0.52	0.56	0.49	0.38	0.38	0.38	0.26	0.30	0.43	0.41	0.31	0.33	0.29
MgO	24.57	25.86	26.27	25.79	26.06	23.29	22.69	23.41	23.36	22.97	24.35	24.70	27.35	24.39	24.48	25.56	25.18	26.44
CaO	2.75	0.71	0.57	0.90	1.47	0.63	0.67	0.88	0.56	1.34	0.77	0.82	1.56	2.14	1.96	1.03	0.37	0.51
Na_2O	0.19	0.13	0.10	0.13	0.00	0.03	0.00	0.00	0.00	0.00	0.23	0.00	0.06	0.00	0.19	0.13	0.00	0.00
Total	100.04	99.99	100.05	100.01	100.05	100.09	100.02	99.99	99.96	100.02	99.91	100.71	100.10	99.97	100.08	100.06	100.36	100.06
WO	5.44	1.39	1.12	1.77	2.87	1.28	1.38	1.78	1.13	2.73	1.53	1.62	3.03	4.22	3.84	2.03	0.73	1.00
EN	67.49	70.85	71.57	70.61	70.74	65.89	64.90	66.12	66.29	65.21	67.38	67.58	73.83	67.02	66.66	70.04	68.70	71.47
FS	27.07	27.76	27.31	27.63	26.39	32.83	33.72	32.10	32.58	32.06	31.09	30.81	23.14	28.76	29.51	27.94	30.57	27.53
En #	71.38	71.85	72.38	71.87	72.83	66.74	65.81	67.32	67.05	67.04	68.43	68.69	76.13	69.97	69.32	71.49	69.20	72.19
TSi	1.96	1.96	1.97	1.98	1.96	2.02	2.03	2.03	2.03	2.02	1.97	1.97	1.97	1.97	1.94	1.97	1.97	1.97
TAl	0.04	0.04	0.03	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.01
M1Al	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.02	0.03	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
M1Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
M1Fe3	0.04	0.04	0.03	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.02	0.02	0.06	0.03	0.02	0.03
M1Fe2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Cr	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
M1Mg	0.96	0.95	0.96	0.98	0.96	0.97	0.97	0.98	0.97	0.97	0.95	0.98	0.97	0.97	0.93	0.96	0.97	0.97
M2Mg	0.38	0.45	0.46	0.42	0.45	0.32	0.29	0.31	0.32	0.30	0.38	0.37	0.50	0.36	0.41	0.42	0.40	0.47
M2Fe2	0.49	0.50	0.50	0.52	0.49	0.62	0.63	0.61	0.62	0.61	0.56	0.59	0.43	0.54	0.49	0.52	0.58	0.51
M2Mn	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.11	0.03	0.02	0.04	0.06	0.03	0.03	0.04	0.02	0.05	0.03	0.03	0.06	0.08	0.08	0.04	0.02	0.02
M2Na	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.01	0.00	0.00
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Orthopyroxene Core																		
Sample	D1.380i	D1.380j	D1.380k	D1.380l	D1.380m	D1.380n	D1.380o	D1.399a	D1.399b	D1.399c	D1.399d	D1.578a	D1.578b	D1.578c	D1.578d	D1.578e	D1.578f	D1.578g
Depth*	-140	-140	-140	-140	-140	-140	-140	-159	-159	-159	-159	-338	-338	-338	-338	-338	-338	-338
SiO_2	52.42	53.65	53.49	53.67	53.53	54.01	53.50	52.29	52.87	52.09	52.05	54.92	54.68	55.18	55.30	54.71	54.80	54.94
TiO_2	0.03	0.02	0.11	0.08	0.13	0.13	0.13	0.12	0.04	0.07	0.06	0.09	0.11	0.11	0.13	0.14	0.11	0.28
Al_2O_3	0.71	0.71	0.83	0.65	0.65	0.77	0.82	1.06	0.97	0.53	0.57	0.83	0.96	0.97	0.77	1.00	0.92	0.70
FeO	19.99	19.75	19.66	19.01	20.32	18.76	19.33	22.07	22.16	26.07	26.47	14.46	14.34	12.74	13.20	14.36	14.83	14.01
Cr_2O_3	0.08	0.12	0.16	0.08	0.13	0.10	0.14	0.23	0.24	0.02	0.13	0.34	0.37	0.31	0.28	0.33	0.29	0.29
MnO	0.42	0.37	0.26	0.37	0.37	0.32	0.33	0.42	0.42	0.56	0.57	0.33	0.23	0.27	0.26	0.33	0.29	0.29
MgO	25.56	24.75	24.29	24.26	23.91	25.16	24.43	21.57	22.34	19.68	18.98	28.36	28.82	29.97	29.78	28.54	28.12	28.61
CaO	0.80	0.60	1.07	1.91	0.71	0.73	1.26	2.22	0.86	0.93	0.81	0.41	0.43	0.38	0.29	0.51	0.47	0.85
Na_2O	0.06	0.00	0.03	0.00	0.00	0.00	0.06	0.03	0.10	0.00	0.41	0.21	0.00	0.00	0.00	0.15	0.12	0.03
Total	100.12	99.97	99.91	100.05	99.75	100.01	100.03	100.02	100.03	99.97	100.04	99.96	99.94	99.93	100.03	100.06	99.95	100.01
WO	1.53	1.18	2.12	3.77	1.42	1.44	2.49	4.46	1.73	1.90	1.67	0.80	0.83	0.73	0.56	0.98	0.91	1.65
EN	68.00	67.86	67.03	66.45	66.36	69.14	67.17	60.28	62.71	55.76	54.65	76.75	77.25	79.82	79.31	76.82	76.13	76.80
FS	30.47	30.96	30.85	29.79	32.23	29.42	30.34	35.26	35.57	42.35	43.68	22.46	21.92	19.44	20.12	22.20	22.97	21.55
En #	69.05	68.67	68.48	69.05	67.31	70.15	68.89	63.09	63.81	56.83	55.58	77.36	77.90	80.41	79.76	77.58	76.82	78.09
TSi	1.91	1.97	1.97	1.97	1.98	1.98	1.96	1.95	1.97	1.98	1.98	1.97	1.96	1.96	1.97	1.96	1.97	1.97
TAl	0.03	0.03	0.03	0.03	0.02	0.03	0.04	0.05	0.03	0.02	0.03	0.03	0.04	0.04	0.03	0.04	0.03	0.03
TFe3	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
M1Al	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
M1Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
M1Fe3	0.09	0.03	0.02	0.03	0.00	0.01	0.03	0.04	0.03	0.02	0.05	0.03	0.03	0.03	0.02	0.04	0.02	0.01
M1Fe2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Cr	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M1Mg	0.91	0.97	0.97	0.97	0.98	0.98	0.96	0.95	0.96	0.98	0.95	0.95	0.96	0.96	0.97	0.95	0.96	0.97
M2Mg	0.48	0.38	0.36	0.36	0.34	0.39	0.38	0.25	0.28	0.14	0.13	0.56	0.58	0.62	0.61	0.57	0.54	0.56
M2Fe2	0.47	0.58	0.58	0.56	0.63	0.57	0.56	0.65	0.66	0.81	0.79	0.40	0.40	0.35	0.37	0.39	0.42	0.40
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.03	0.02	0.04	0.08	0.03	0.03	0.05	0.09	0.03	0.04	0.03	0.02	0.02	0.02	0.01	0.02	0.02	0.03
M2Na	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.03	0.02	0.00	0.00	0.00	0.01	0.01	0.00
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Orthopyroxene Core														
Sample	D1.578h	D1.578i	D1.578j	D1.578k	D1.578l	D1.578m	D1.578n	D1.578o	D1.578p	D1.578q	D1.578r	D1.578s	D1.578t	D1.578u
Depth*	-338	-338	-338	-338	-338	-338	-338	-338	-338	-338	-338	-338	-338	-338
SiO_2	54.59	54.99	54.70	55.12	54.64	55.25	54.83	55.09	55.15	54.58	55.56	54.81	54.97	54.97
TiO_2	0.09	0.04	0.12	0.09	0.07	0.14	0.11	0.06	0.07	0.05	0.07	0.07	0.08	0.02
Al_2O_3	0.89	0.85	1.02	0.61	0.71	0.71	1.03	0.81	0.70	0.98	0.99	0.93	0.91	0.96
FeO	14.64	13.86	13.55	15.26	15.89	13.44	13.66	13.90	14.65	14.96	10.10	14.02	13.22	13.58
Cr_2O_3	0.37	0.31	0.45	0.23	0.33	0.31	0.35	0.31	0.24	0.42	0.43	0.30	0.32	0.37
MnO	0.37	0.27	0.27	0.31	0.27	0.28	0.27	0.28	0.28	0.31	0.21	0.27	0.26	0.30
MgO	28.42	29.28	27.91	27.85	27.57	28.86	29.04	28.86	28.32	28.21	29.60	28.94	28.13	29.25
CaO	0.58	0.46	1.78	0.46	0.59	0.85	0.59	0.48	0.52	0.43	2.28	0.59	2.17	0.45
Na_2O	0.00	0.00	0.21	0.06	0.00	0.19	0.09	0.19	0.09	0.03	0.39	0.00	0.00	0.12
Total	99.95	100.05	100.02	100.01	100.09	100.04	99.98	100.01	100.05	100.01	100.02	99.95	100.05	100.02
WO	1.12	0.88	3.47	0.90	1.15	1.65	1.14	0.94	1.01	0.84	4.42	1.14	4.18	0.87
EN	76.28	78.01	75.54	75.42	74.39	77.64	77.91	77.66	76.40	76.05	79.96	77.41	75.51	78.30
FS	22.60	21.11	20.99	23.67	24.46	20.71	20.96	21.40	22.60	23.11	15.63	21.46	20.31	20.84
En #	77.14	78.70	78.26	76.11	75.26	78.95	78.80	78.39	77.17	76.70	83.65	78.30	78.81	78.98
TSi	1.96	1.96	1.96	1.98	1.97	1.97	1.96	1.97	1.98	1.96	1.96	1.96	1.97	1.96
TAl	0.04	0.04	0.04	0.02	0.03	0.03	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04
TFe3	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
M1Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe3	0.03	0.03	0.04	0.01	0.02	0.03	0.04	0.04	0.02	0.03	0.07	0.03	0.02	0.04
M1Fe2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Cr	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M1Mg	0.96	0.96	0.95	0.98	0.97	0.96	0.95	0.95	0.97	0.96	0.92	0.96	0.97	0.95
M2Mg	0.56	0.60	0.54	0.51	0.51	0.57	0.59	0.58	0.54	0.55	0.64	0.58	0.53	0.60
M2Fe2	0.41	0.38	0.37	0.45	0.46	0.37	0.37	0.38	0.42	0.42	0.22	0.39	0.38	0.36
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.02	0.02	0.07	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.09	0.02	0.08	0.02
M2Na	0.00	0.00	0.02	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.03	0.00	0.00	0.01
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	3.98	4.00	4.00	4.00

Orthopyroxene Rim																		
Sample	D1.338a	D1.338b	D1.338c	D1.338d	D1.338e	D1.338f	D1.355a	D1.355b	D1.355c	D1.355d	D1.355e	D1.380a	D1.380b	D1.380c	D1.380d	D1.380e	D1.380f	D1.380g
Depth*	-98	-98	-98	-98	-98	-98	-115	-115	-115	-115	-115	-140	-140	-140	-140	-140	-140	-140
SiO_2	54.10	54.05	53.74	54.49	54.27	54.26	53.21	56.09	54.60	54.66	55.41	53.59	54.84	53.61	53.30	54.47	52.15	54.56
TiO_2	0.10	0.08	0.12	0.03	0.05	0.13	0.13	0.08	0.18	0.13	0.11	0.13	0.07	0.07	0.03	0.08	0.08	0.04
Al_2O_3	0.57	0.73	0.85	0.41	0.40	0.55	0.66	0.84	0.57	0.55	0.55	0.80	0.76	0.59	0.65	0.73	0.70	0.53
FeO	18.23	17.73	18.49	18.41	18.78	18.02	20.19	19.97	20.85	20.62	21.17	20.83	13.71	19.97	19.59	17.02	19.93	17.47
Cr_2O_3	0.12	0.12	0.12	0.08	0.06	0.09	0.19	0.17	0.11	0.10	0.07	0.09	0.13	0.08	0.15	0.08	0.13	0.08
MnO	0.48	0.38	0.50	0.50	0.40	0.50	0.45	0.40	0.43	0.44	0.46	0.35	0.27	0.46	0.39	0.32	0.37	0.34
MgO	25.42	25.90	25.53	25.55	25.49	25.79	24.46	22.17	22.46	22.83	21.21	24.00	29.08	24.38	24.80	26.41	26.59	26.29
CaO	0.91	1.00	0.63	0.50	0.49	0.65	0.66	1.00	0.81	0.69	0.98	0.66	0.51	0.86	1.11	0.90	0.61	0.43
Na_2O	0.00	0.00	0.03	0.10	0.00	0.06	0.00	0.03	0.00	0.00	0.03	0.06	0.00	0.00	0.00	0.03	0.00	0.26
Total	99.93	100.01	100.01	100.06	99.94	100.06	99.96	100.76	100.01	100.03	100.02	100.53	99.38	100.04	100.02	100.04	100.58	99.99
WO	1.79	1.96	1.24	0.98	0.96	1.27	1.30	2.10	1.67	1.42	2.07	1.30	0.98	1.70	2.16	1.76	1.14	0.84
EN	69.50	70.41	69.68	69.96	69.64	70.38	66.98	64.60	64.21	64.96	62.28	66.01	77.98	66.86	67.37	71.80	69.21	71.86
FS	28.72	27.63	29.09	29.06	29.40	28.36	31.72	33.30	34.13	33.63	35.65	32.69	21.04	31.45	30.47	26.44	29.65	27.31
En #	70.76	71.82	70.55	70.65	70.31	71.28	67.86	65.99	65.29	65.89	63.60	66.88	78.76	68.01	68.86	73.08	70.01	72.46
TSi	1.98	1.97	1.96	1.99	1.98	1.98	1.96	2.07	2.03	2.03	2.07	1.97	1.97	1.97	1.95	1.97	1.89	1.98
TAl	0.02	0.03	0.04	0.01	0.02	0.02	0.03	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	0.02
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.08	0.00
M1Al	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.04	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00
M1Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe3	0.01	0.03	0.03	0.01	0.01	0.02	0.03	0.00	0.00	0.00	0.00	0.03	0.03	0.02	0.04	0.02	0.10	0.04
M1Fe2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Mg	0.98	0.97	0.96	0.98	0.99	0.98	0.96	0.96	0.97	0.97	0.97	0.96	0.97	0.97	0.96	0.97	0.89	0.96
M2Mg	0.41	0.44	0.43	0.41	0.40	0.43	0.38	0.26	0.28	0.29	0.21	0.35	0.59	0.36	0.40	0.45	0.55	0.46
M2Fe2	0.54	0.51	0.53	0.55	0.56	0.53	0.58	0.62	0.65	0.64	0.66	0.61	0.39	0.59	0.54	0.50	0.42	0.50
M2Mn	0.02	0.01	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.04	0.04	0.03	0.02	0.02	0.03	0.03	0.04	0.03	0.03	0.04	0.03	0.02	0.03	0.04	0.04	0.02	0.02
M2Na	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Orthopyroxene Rim																		
Sample	D1.380h	D1.380i	D1.380j	D1.380k	D1.380l	D1.380m	D1.380n	D1.399a	D1.399b	D1.399c	D1.399d	D1.578a	D1.578b	D1.578c	D1.578d	D1.578e	D1.578f	D1.578g
Depth*	-140	-140	-140	-140	-140	-140	-140	-159	-159	-159	-159	-338	-338	-338	-338	-338	-338	-338
SiO_2	53.75	54.83	53.77	53.92	53.58	53.58	53.48	52.75	52.25	52.29	52.41	55.04	55.21	54.87	55.20	55.18	54.75	54.96
TiO_2	0.08	0.08	0.07	0.07	0.09	0.18	0.11	0.10	0.03	0.04	0.12	0.04	0.05	0.05	0.07	0.07	0.18	0.14
Al_2O_3	0.69	0.58	0.54	0.52	0.85	0.65	0.69	0.53	0.70	0.60	0.48	0.82	0.69	0.87	1.02	0.59	0.75	0.94
FeO	19.46	15.97	19.80	18.79	19.70	18.73	20.60	24.28	24.55	26.05	26.32	14.34	14.11	14.29	12.68	14.34	15.16	14.08
Cr_2O_3	0.17	0.04	0.13	0.08	0.14	0.13	0.15	0.11	0.10	0.06	0.04	0.30	0.10	0.20	0.33	0.14	0.30	0.31
MnO	0.45	0.30	0.44	0.34	0.40	0.35	0.38	0.46	0.55	0.50	0.57	0.33	0.36	0.26	0.32	0.36	0.34	0.23
MgO	24.72	26.87	24.67	24.18	24.64	24.75	23.83	20.01	21.13	19.54	19.29	28.82	28.85	29.17	29.91	28.68	27.79	28.62
CaO	0.59	0.93	0.56	2.13	0.60	1.72	0.63	1.53	0.70	0.80	0.79	0.32	0.44	0.27	0.35	0.48	0.57	0.58
Na_2O	0.00	0.38	0.00	0.00	0.00	0.00	0.16	0.31	0.00	0.17	0.00	0.00	0.21	0.00	0.12	0.15	0.15	0.21
Total	99.93	100.01	99.98	100.05	100.00	100.08	100.06	100.07	100.02	100.08	100.04	100.03	100.02	99.99	100.02	100.01	99.99	100.10
WO	1.17	1.82	1.10	4.20	1.19	3.36	1.26	3.13	1.40	1.64	1.63	0.62	0.84	0.53	0.67	0.92	1.11	1.12
EN	68.06	73.28	67.73	66.34	67.79	67.46	66.08	57.20	59.17	55.81	55.20	77.30	77.39	77.72	79.86	76.95	75.32	77.22
FS	30.78	24.90	31.18	29.45	31.02	29.18	32.66	39.67	39.43	42.55	43.17	22.08	21.77	21.76	19.47	22.13	23.58	21.66
En #	68.86	74.64	68.48	69.26	68.61	69.80	66.93	59.05	60.01	56.74	56.11	77.78	78.04	78.13	80.40	77.66	76.16	78.09
TSi	1.97	1.98	1.98	1.98	1.97	1.96	1.97	1.99	1.96	1.98	1.99	1.97	1.97	1.96	1.96	1.97	1.97	1.96
TAl	0.03	0.03	0.02	0.02	0.03	0.03	0.03	0.02	0.03	0.02	0.01	0.03	0.03	0.04	0.04	0.03	0.03	0.04
TFe3	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
M1Al	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Ti	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
M1Fe3	0.01	0.05	0.02	0.01	0.02	0.03	0.03	0.02	0.03	0.02	0.00	0.02	0.04	0.03	0.04	0.03	0.03	0.04
M1Fe2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Cr	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.01
M1Mg	0.98	0.95	0.98	0.98	0.97	0.97	0.96	0.97	0.96	0.97	0.98	0.97	0.96	0.96	0.95	0.96	0.96	0.95
M2Mg	0.38	0.49	0.38	0.34	0.38	0.38	0.35	0.16	0.22	0.14	0.11	0.57	0.58	0.59	0.63	0.57	0.53	0.57
M2Fe2	0.59	0.43	0.59	0.56	0.59	0.54	0.60	0.75	0.73	0.80	0.84	0.41	0.38	0.39	0.34	0.40	0.43	0.38
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.02	0.04	0.02	0.08	0.02	0.07	0.03	0.06	0.03	0.03	0.03	0.01	0.02	0.01	0.01	0.02	0.02	0.02
M2Na	0.00	0.03	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.01	0.00	0.00	0.02	0.00	0.01	0.01	0.01	0.02
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Orthopyroxene Rim													
Sample	D1.578h	D1.578i	D1.578j	D1.578k	D1.578l	D1.578m	D1.578n	D1.578o	D1.578p	D1.578q	D1.578r	D1.578s	D1.578t
Depth*	-338	-338	-338	-338	-338	-338	-338	-338	-338	-338	-338	-338	-338
SiO_2	54.94	55.06	55.47	54.64	54.88	55.12	55.20	55.36	55.37	55.37	55.49	55.18	55.04
TiO_2	0.08	0.13	0.06	0.13	0.13	0.14	0.09	0.08	0.04	0.07	0.08	0.05	0.06
Al_2O_3	0.87	0.81	0.54	0.86	0.87	0.74	0.55	0.49	0.53	0.53	0.53	0.69	0.89
FeO	14.30	13.69	13.88	15.39	14.82	14.24	14.51	14.22	14.21	13.96	13.83	13.81	13.75
Cr_2O_3	0.26	0.40	0.15	0.36	0.27	0.38	0.12	0.17	0.15	0.13	0.17	0.37	0.30
MnO	0.33	0.32	0.27	0.30	0.28	0.31	0.32	0.23	0.31	0.29	0.28	0.31	0.30
MgO	28.64	29.01	28.96	27.80	28.16	28.15	28.58	28.85	28.53	28.87	28.83	29.07	28.84
CaO	0.55	0.61	0.54	0.51	0.57	0.72	0.58	0.64	0.54	0.57	0.63	0.50	0.60
Na_2O	0.09	0.00	0.12	0.03	0.00	0.19	0.03	0.00	0.31	0.22	0.16	0.00	0.12
Total	100.08	100.06	100.01	100.03	99.97	99.98	99.99	100.05	100.02	100.01	100.01	100.01	99.94
WO	1.06	1.18	1.04	1.00	1.11	1.40	1.11	1.23	1.04	1.10	1.22	0.97	1.17
EN	76.90	77.75	77.66	75.19	76.03	76.44	76.59	77.11	76.97	77.46	77.51	77.83	77.62
FS	22.05	21.07	21.30	23.81	22.86	22.16	22.30	21.67	21.98	21.44	21.28	21.21	21.21
En #	77.72	78.68	78.48	75.95	76.88	77.52	77.45	78.07	77.79	78.32	78.46	78.59	78.54
TSi	1.96	1.97	1.98	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.97	1.97
TAl	0.04	0.03	0.02	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.04
TFe3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Al	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Fe3	0.03	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.04	0.03	0.02	0.02	0.03
M1Fe2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
M1Cr	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.01	0.01
M1Mg	0.96	0.97	0.97	0.97	0.97	0.97	0.98	0.98	0.96	0.96	0.97	0.97	0.96
M2Mg	0.57	0.58	0.57	0.53	0.53	0.54	0.55	0.56	0.56	0.57	0.56	0.58	0.58
M2Fe2	0.39	0.39	0.39	0.44	0.44	0.41	0.42	0.41	0.38	0.38	0.39	0.39	0.38
M2Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
M2Ca	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02
M2Na	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.02	0.01	0.00	0.01
Sum_cat	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

Plagioclase Core																		
Sample	D1.259a	D1.259b	D1.259c	D1.259d	D1.259e	D1.259f	D1.259g	D1.259h	D1.309a	D1.309b	D1.309c	D1.309d	D1.309e	D1.309f	D1.309g	D1.309h	D1.309i	D1.309j
Depth*	-19	-19	-19	-19	-19	-19	-19	-19	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69
SiO_2	50.35	50.80	50.60	54.29	54.10	53.86	50.24	50.91	51.70	51.83	52.02	52.14	52.72	52.04	52.35	53.64	49.24	49.37
TiO_2	0.04	0.00	0.05	0.06	0.05	0.07	0.01	0.06	0.02	0.03	0.04	0.00	0.00	0.02	0.00	0.03	0.01	0.02
Al_2O_3	31.69	31.45	31.48	29.03	29.21	29.31	31.78	31.38	30.87	30.77	30.60	30.58	30.16	30.62	30.45	29.56	32.48	32.43
FeO	0.10	0.08	0.10	0.12	0.10	0.16	0.09	0.06	0.07	0.11	0.09	0.08	0.08	0.07	0.13	0.07	0.16	0.16
MnO	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.06	0.03	0.03	0.03	0.00	0.04	0.01
MgO	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.03	0.05	0.00	0.00	0.00	0.00
CaO	14.33	14.05	14.19	11.16	11.33	11.48	14.52	13.93	13.30	13.18	13.10	12.91	12.45	13.03	12.76	11.78	15.12	15.10
Na_2O	3.20	3.40	3.31	4.99	4.91	4.80	3.15	3.45	3.82	3.88	3.96	4.02	4.28	3.97	4.11	4.70	2.69	2.75
K_2O	0.23	0.16	0.24	0.26	0.26	0.29	0.19	0.19	0.15	0.18	0.16	0.17	0.22	0.15	0.20	0.21	0.23	0.16
Total	99.96	99.96	99.95	99.97	99.96	99.97	99.97	99.97	99.98	99.97	99.97	99.98	99.99	99.98	100.02	99.99	99.97	100.01
Ab	28.40	30.20	29.30	44.10	43.30	42.30	27.90	30.60	33.90	34.40	35.00	35.70	37.90	35.20	36.40	41.40	24.10	24.60
An	70.20	68.80	69.30	54.40	55.20	56.00	71.00	68.30	65.20	64.60	64.00	63.30	60.80	63.90	62.50	57.40	74.60	74.50
Or	1.40	1.00	1.40	1.50	1.50	1.70	1.10	1.10	0.90	1.10	0.90	1.00	1.30	0.90	1.10	1.20	1.40	0.90
An#	71.20	69.49	70.28	55.23	56.04	56.97	71.79	69.06	65.79	65.25	64.65	63.94	61.60	64.48	63.20	58.10	75.58	75.18
Si	9.18	9.25	9.22	9.81	9.78	9.74	9.16	9.27	9.39	9.41	9.44	9.46	9.56	9.45	9.49	9.70	9.00	9.02
Al	6.80	6.75	6.76	6.18	6.22	6.24	6.82	6.73	6.60	6.58	6.54	6.54	6.44	6.55	6.50	6.30	6.99	6.98
Ti	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe2	0.02	0.01	0.02	0.02	0.02	0.03	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.03	0.03
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00
Mg	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00
Ca	2.80	2.74	2.77	2.16	2.19	2.23	2.84	2.72	2.59	2.57	2.55	2.51	2.42	2.53	2.48	2.28	2.96	2.96
Na	1.13	1.20	1.17	1.75	1.72	1.68	1.11	1.22	1.35	1.37	1.39	1.41	1.51	1.40	1.45	1.65	0.96	0.98
K	0.06	0.04	0.06	0.06	0.06	0.07	0.04	0.04	0.03	0.04	0.04	0.04	0.05	0.04	0.05	0.05	0.05	0.04
Sum_cat	20.00	19.99	20.00	19.99	19.99	19.99	19.99	19.99	19.99	19.99	19.98	19.99	19.99	19.99	19.99	19.99	20.00	19.99

Plagioclase Core																		
Sample	D1.309k	D1.309l	D1.316a	D1.316b	D1.316c	D1.316d	D1.316e	D1.316f	D1.316g	D1.338h	D1.338i	D1.338j	D1.338k	D1.338l	D1.338m	D1.338n	D1.355a	D1.355b
Depth*	-69	-69	-76	-76	-76	-76	-76	-76	-76	-98	-98	-98	-98	-98	-98	-98	-115	-115
SiO_2	52.72	54.29	51.02	50.93	51.66	51.41	51.04	51.97	51.15	51.05	50.70	51.79	51.33	49.57	50.02	51.32	51.86	52.06
TiO_2	0.01	0.00	0.04	0.04	0.02	0.00	0.00	0.04	0.01	0.03	0.05	0.00	0.03	0.03	0.00	0.03	0.04	0.00
Al_2O_3	30.17	29.09	31.35	31.35	30.81	31.04	31.33	30.69	31.28	31.30	31.51	30.79	31.08	32.24	31.93	31.08	30.70	30.58
FeO	0.08	0.11	0.13	0.11	0.11	0.10	0.07	0.12	0.09	0.09	0.07	0.07	0.07	0.12	0.10	0.08	0.07	0.07
MnO	0.00	0.01	0.00	0.00	0.06	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.06	0.00	0.02	0.02
MgO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
CaO	12.60	11.34	13.89	13.90	13.32	13.57	13.83	13.05	13.73	13.72	14.07	13.21	13.60	14.94	14.60	13.59	13.14	13.03
Na_2O	4.28	4.99	3.50	3.47	3.80	3.68	3.51	3.94	3.56	3.52	3.36	3.86	3.65	2.85	3.05	3.64	3.89	3.98
K_2O	0.12	0.13	0.12	0.16	0.19	0.15	0.14	0.17	0.13	0.25	0.21	0.24	0.22	0.17	0.21	0.23	0.26	0.28
Total	99.98	99.96	100.05	99.96	99.96	99.98	99.94	99.96	99.94	99.98	99.98	99.98	99.99	99.98	99.98	99.96	100.04	100.02
Ab	37.80	44.00	31.10	30.80	33.70	32.70	31.20	35.00	31.70	31.20	29.80	34.10	32.20	25.40	27.10	32.20	34.40	35.00
An	61.50	55.20	68.20	68.30	65.30	66.50	68.00	64.00	67.50	67.30	69.00	64.50	66.40	73.60	71.70	66.40	64.10	63.40
Or	0.70	0.80	0.70	1.00	1.10	0.90	0.80	1.00	0.70	1.50	1.20	1.40	1.30	1.00	1.20	1.40	1.50	1.70
An#	61.93	55.65	68.68	68.92	65.96	67.04	68.55	64.65	68.04	68.32	69.84	65.42	67.34	74.34	72.57	67.34	65.08	64.43
Si	9.55	9.81	9.28	9.27	9.39	9.35	9.29	9.44	9.30	9.29	9.23	9.41	9.33	9.05	9.13	9.34	9.42	9.45
Al	6.44	6.19	6.71	6.72	6.60	6.65	6.71	6.56	6.70	6.71	6.76	6.59	6.66	6.93	6.86	6.66	6.56	6.54
Ti	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Fe2	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01
Mn	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Ca	2.45	2.19	2.71	2.71	2.59	2.64	2.70	2.54	2.68	2.68	2.75	2.57	2.65	2.92	2.85	2.65	2.56	2.53
Na	1.50	1.75	1.24	1.22	1.34	1.30	1.24	1.39	1.26	1.24	1.19	1.36	1.29	1.01	1.08	1.29	1.37	1.40
K	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.04	0.03	0.06	0.05	0.06	0.05	0.04	0.05	0.05	0.06	0.07
Sum_cat	19.98	19.98	19.98	19.99	19.99	19.99	19.98	19.98	19.98	19.99	19.99	20.00	19.99	19.99	20.00	19.99	20.00	20.00

Plagioclase Core

Sample	D1.355c	D1.355d	D1.355e	D1.355f	D1.355g	D1.355h	D1.380a	D1.380b	D1.380c	D1.380d	D1.380e	D1.380f	D1.380g	D1.380h	D1.380i	D1.380j	D1.380k	D1.380l
Depth*	-115	-115	-115	-115	-115	-115	-140	-140	-140	-140	-140	-140	-140	-140	-140	-140	-140	-140
SiO_2	50.99	49.84	49.57	52.03	50.29	51.29	50.39	50.66	49.54	51.67	48.68	49.37	48.85	48.24	50.90	51.96	50.41	51.17
TiO_2	0.05	0.01	0.01	0.03	0.01	0.03	0.02	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.02
Al_2O_3	31.26	32.03	32.31	30.65	31.75	31.12	31.74	31.49	32.33	30.91	32.87	32.41	32.76	33.16	31.40	30.71	31.73	31.17
FeO	0.08	0.09	0.09	0.05	0.11	0.08	0.15	0.17	0.15	0.12	0.12	0.09	0.13	0.14	0.11	0.18	0.12	0.13
MnO	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.01
MgO	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CaO	13.85	14.87	14.90	13.00	14.45	13.57	14.37	14.10	15.02	13.31	15.74	15.22	15.60	16.09	13.96	13.09	14.33	13.76
Na_2O	3.49	2.97	2.85	3.97	3.17	3.63	3.22	3.34	2.83	3.80	2.44	2.75	2.52	2.24	3.45	3.93	3.23	3.58
K_2O	0.24	0.14	0.19	0.21	0.19	0.22	0.16	0.13	0.13	0.18	0.13	0.13	0.14	0.06	0.13	0.17	0.13	0.14
Total	99.97	99.97	99.96	99.97	99.97	99.95	100.05	99.89	100.01	100.05	99.97	99.98	99.99	99.97	99.99	100.07	99.97	99.97
Ab	30.90	26.30	25.40	35.10	28.10	32.20	28.60	29.80	25.20	33.70	21.80	24.50	22.40	20.10	30.70	34.90	28.70	31.70
An	67.70	72.80	73.50	63.60	70.80	66.50	70.50	69.50	74.00	65.20	77.50	74.70	76.80	79.50	68.60	64.10	70.50	67.50
Or	1.40	0.90	1.10	1.20	1.10	1.30	0.90	0.80	0.80	1.10	0.80	0.80	0.80	0.40	0.80	1.00	0.80	0.80
Ant	68.66	73.46	74.32	64.44	71.59	67.38	71.14	69.99	74.60	65.93	78.05	75.30	77.42	79.82	69.08	64.75	71.07	68.04
Si	9.28	9.10	9.05	9.45	9.17	9.33	9.18	9.23	9.04	9.38	8.91	9.02	8.93	8.84	9.26	9.43	9.18	9.31
Al	6.70	6.89	6.95	6.55	6.82	6.67	6.81	6.76	6.95	6.61	7.08	6.97	7.06	7.15	6.73	6.56	6.81	6.68
Ti	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe2	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.03	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.03	0.02	0.02
Mn	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Mg	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ca	2.70	2.91	2.92	2.53	2.82	2.64	2.80	2.75	2.94	2.59	3.09	2.98	3.06	3.16	2.72	2.55	2.80	2.68
Na	1.23	1.05	1.01	1.40	1.12	1.28	1.14	1.18	1.00	1.34	0.87	0.98	0.89	0.80	1.22	1.38	1.14	1.26
K	0.06	0.03	0.04	0.05	0.04	0.05	0.04	0.03	0.03	0.04	0.03	0.03	0.03	0.02	0.03	0.04	0.03	0.03
Sum_cat	19.99	19.99	19.99	19.99	19.99	19.99	19.99	19.98	19.99	19.99	19.99	19.99	19.99	19.98	19.99	19.99	19.98	19.99

Plagioclase Core																		
Sample	D1.399a	D1.399b	D1.399c	D1.399d	D1.399e	D1.399f	D1.399g	D1.399h	D1.476a	D1.476b	D1.476c	D1.476d	D1.476e	D1.476f	D1.476g	D1.476h	D1.476i	D1.578a
Depth*	-159	-159	-159	-159	-159	-159	-159	-159	-236	-236	-236	-236	-236	-236	-236	-236	-236	-338
SiO_2	50.05	50.85	49.69	48.87	50.68	50.00	48.41	48.49	49.89	50.01	50.02	49.94	50.17	49.34	50.30	50.20	49.91	50.89
TiO_2	0.04	0.01	0.06	0.02	0.00	0.01	0.00	0.00	0.00	0.06	0.05	0.03	0.02	0.03	0.00	0.03	0.00	0.00
Al_2O_3	31.84	31.38	32.14	32.69	31.48	31.95	33.07	32.97	32.01	31.95	31.86	31.93	31.78	32.41	31.67	31.78	31.99	31.31
FeO	0.13	0.08	0.11	0.12	0.15	0.14	0.16	0.13	0.14	0.14	0.11	0.13	0.14	0.15	0.15	0.18	0.14	0.15
MnO	0.01	0.00	0.01	0.04	0.05	0.00	0.00	0.04	0.01	0.02	0.00	0.02	0.00	0.01	0.02	0.02	0.02	0.01
MgO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.09	0.00	0.03	0.00	0.00	0.00	0.01	0.00
CaO	14.62	14.00	14.81	15.51	14.02	14.61	15.82	15.85	14.72	14.57	14.60	14.73	14.54	15.14	14.45	14.48	14.74	13.95
Na_2O	3.06	3.43	2.90	2.53	3.35	3.04	2.32	2.36	2.99	3.05	3.05	3.02	3.12	2.74	3.18	3.13	3.00	3.45
K_2O	0.22	0.22	0.22	0.20	0.23	0.22	0.18	0.13	0.16	0.15	0.18	0.13	0.15	0.12	0.20	0.17	0.14	0.18
Total	99.97	99.96	99.94	99.98	99.96	99.97	99.96	99.96	99.95	99.96	99.96	99.92	99.97	99.96	99.97	99.97	99.96	99.94
Ab	27.10	30.30	25.80	22.50	29.80	27.00	20.70	21.00	26.60	27.20	27.10	26.80	27.70	24.50	28.20	27.80	26.70	30.60
An	71.60	68.40	72.90	76.30	68.90	71.70	78.20	78.20	72.40	71.90	71.80	72.40	71.40	74.80	70.70	71.20	72.40	68.40
Or	1.30	1.30	1.30	1.20	1.30	1.30	1.10	0.80	0.90	0.90	1.10	0.80	0.90	0.70	1.20	1.00	0.80	1.10
An#	72.54	69.30	73.86	77.23	69.81	72.64	79.07	78.83	73.13	72.55	72.60	72.98	72.05	75.33	71.49	71.92	73.06	69.09
Si	9.13	9.26	9.07	8.94	9.24	9.12	8.87	8.88	9.11	9.12	9.13	9.12	9.15	9.02	9.18	9.16	9.11	9.27
Al	6.84	6.73	6.91	7.04	6.76	6.87	7.13	7.11	6.88	6.86	6.85	6.86	6.83	6.97	6.80	6.83	6.88	6.72
Ti	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Fe2	0.02	0.01	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
Mn	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Ca	2.86	2.73	2.90	3.04	2.74	2.86	3.11	3.11	2.88	2.85	2.86	2.88	2.84	2.96	2.82	2.83	2.88	2.72
Na	1.08	1.21	1.03	0.90	1.18	1.08	0.82	0.84	1.06	1.08	1.08	1.07	1.10	0.97	1.13	1.11	1.06	1.22
K	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.04	0.04	0.04	0.03	0.04	0.03	0.05	0.04	0.03	0.04
Sum_cat	20.00	19.99	19.99	19.99	20.00	20.00	19.99	19.99	19.99	19.98	19.99	19.99	19.99	19.98	20.00	19.99	19.99	19.99

Plagioclase Core					
Sample	D1.578b	D1.578c	D1.578d	D1.578e	D1.578f
Depth*	-338	-338	-338	-338	-338
SiO_2	49.99	50.66	50.32	49.99	50.65
TiO_2	0.01	0.03	0.04	0.03	0.03
Al_2O_3	32.02	31.55	31.79	32.01	31.49
FeO	0.13	0.09	0.08	0.10	0.09
MnO	0.02	0.01	0.00	0.03	0.02
MgO	0.00	0.00	0.00	0.00	0.15
CaO	14.71	14.14	14.44	14.63	14.05
Na_2O	3.04	3.34	3.19	3.04	3.34
K_2O	0.12	0.16	0.13	0.12	0.21
Total	100.03	99.96	99.98	99.94	100.02
Ab	27.00	29.70	28.30	27.10	29.70
An	72.30	69.40	70.90	72.20	69.10
Or	0.70	0.90	0.80	0.70	1.20
An#	72.81	70.03	71.47	72.71	69.94
Si	9.11	9.23	9.17	9.12	9.22
Al	6.88	6.77	6.82	6.88	6.75
Ti	0.00	0.00	0.01	0.00	0.00
Fe2	0.02	0.01	0.01	0.02	0.01
Mn	0.00	0.00	0.00	0.00	0.00
Mg	0.00	0.00	0.00	0.00	0.04
Ca	2.87	2.76	2.82	2.86	2.74
Na	1.07	1.18	1.13	1.07	1.18
K	0.03	0.04	0.03	0.03	0.05
Sum_cat	19.99	19.99	19.99	19.98	20.00

Plagioclase Rim					
Sample	D1.259a	D1.259b	D1.259c	D1.259d	D1.259e
Depth*	-19	-19	-19	-19	-19
SiO_2	51.62	51.02	50.88	54.68	53.74
TiO_2	0.01	0.00	0.00	0.00	0.02
Al_2O_3	30.94	31.35	31.36	28.91	29.46
FeO	0.06	0.13	0.17	0.10	0.12
MnO	0.00	0.02	0.02	0.02	0.01
MgO	0.00	0.00	0.00	0.01	0.00
CaO	13.38	13.77	13.91	10.84	11.62
Na_2O	3.78	3.51	3.44	5.17	4.74
K_2O	0.14	0.16	0.13	0.24	0.25
Total	99.93	99.96	99.92	99.97	99.96
Ab	33.50	31.20	30.70	45.70	41.90
An	65.70	67.80	68.50	52.90	56.70
Or	0.80	1.00	0.80	1.40	1.40
An#	66.23	68.48	69.05	53.65	57.51
Si	9.38	9.28	9.27	9.86	9.72
Al	6.62	6.72	6.73	6.14	6.28
Ti	0.00	0.00	0.00	0.00	0.00
Fe2	0.01	0.02	0.03	0.01	0.02
Mn	0.00	0.00	0.00	0.00	0.00
Mg	0.00	0.00	0.00	0.00	0.00
Ca	2.61	2.68	2.71	2.10	2.25
Na	1.33	1.24	1.22	1.81	1.66
K	0.03	0.04	0.03	0.06	0.06
Sum_cat	19.98	19.98	19.98	19.99	19.99

Plagioclase Rim																		
Sample	D1.259f	D1.309a	D1.309b	D1.309c	D1.309d	D1.309e	D1.309f	D1.309g	D1.309h	D1.309i	D1.309j	D1.309k	D1.309l	D1.309m	D1.316a	D1.316b	D1.316c	D1.316d
Depth*	-19	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	-76	-76	-76	-76
SiO_2	53.48	51.57	50.92	51.92	50.96	53.99	53.62	54.43	52.15	48.92	52.41	54.42	53.15	51.59	52.88	53.80	51.67	51.80
TiO_2	0.03	0.03	0.04	0.03	0.01	0.01	0.06	0.00	0.00	0.00	0.07	0.04	0.00	0.04	0.02	0.03	0.03	0.07
Al_2O_3	29.68	30.93	31.36	30.73	31.37	29.37	29.61	29.01	30.58	32.71	30.38	28.99	29.86	31.05	30.05	29.40	30.87	30.77
FeO	0.09	0.09	0.11	0.11	0.09	0.10	0.10	0.05	0.08	0.14	0.15	0.18	0.15	0.46	0.13	0.13	0.10	0.16
MnO	0.03	0.02	0.13	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
MgO	0.05	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.04	0.00	0.00
CaO	11.79	13.42	13.82	13.15	13.90	11.53	11.72	11.22	13.01	15.50	12.64	11.14	12.19	12.84	12.35	11.54	13.32	13.21
Na_2O	4.63	3.76	3.46	3.92	3.48	4.86	4.69	5.06	4.02	2.55	4.14	5.05	4.47	3.76	4.35	4.77	3.80	3.86
K_2O	0.24	0.15	0.14	0.18	0.12	0.21	0.19	0.20	0.13	0.17	0.21	0.17	0.15	0.36	0.19	0.26	0.15	0.15
Total	100.03	99.97	99.98	100.04	99.92	100.07	100.06	99.97	99.98	99.98	99.99	100.01	99.98	100.18	99.96	99.97	99.95	100.02
Ab	40.90	33.30	30.90	34.70	30.90	42.70	41.50	44.40	35.60	22.70	36.70	44.70	39.60	33.90	38.50	42.20	33.80	34.30
An	57.70	65.80	68.30	64.30	68.40	56.00	57.40	54.40	63.60	76.30	62.00	54.40	59.60	63.90	60.40	56.30	65.30	64.80
Or	1.40	0.90	0.80	1.00	0.70	1.20	1.10	1.10	0.80	1.00	1.20	1.00	0.90	2.10	1.10	1.50	0.90	0.90
An#	58.52	66.40	68.85	64.95	68.88	56.74	58.04	55.06	64.11	77.07	62.82	54.89	60.08	65.34	61.07	57.16	65.89	65.39
Si	9.67	9.37	9.27	9.42	9.28	9.75	9.69	9.83	9.46	8.95	9.50	9.82	9.62	9.37	9.58	9.73	9.39	9.41
Al	6.32	6.62	6.72	6.57	6.72	6.25	6.30	6.17	6.53	7.05	6.49	6.16	6.37	6.64	6.41	6.26	6.61	6.58
Ti	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.01
Fe2	0.01	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.01	0.02	0.02	0.03	0.02	0.07	0.02	0.02	0.01	0.02
Mn	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mg	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00
Ca	2.29	2.61	2.70	2.56	2.71	2.23	2.27	2.17	2.53	3.04	2.46	2.15	2.37	2.50	2.40	2.24	2.59	2.57
Na	1.62	1.32	1.22	1.36	1.23	1.70	1.64	1.77	1.41	0.90	1.46	1.77	1.57	1.33	1.53	1.67	1.34	1.36
K	0.06	0.04	0.03	0.04	0.03	0.05	0.04	0.05	0.03	0.04	0.05	0.04	0.04	0.08	0.04	0.06	0.04	0.03
Sum_cat	19.99	19.98	19.98	19.99	19.96	19.99	19.99	19.99	19.98	19.99	19.99	19.98	19.99	20.01	19.99	19.99	19.98	19.98

Plagioclase Rim																		
Sample	D1.316e	D1.316f	D1.338h	D1.338i	D1.338j	D1.338k	D1.338l	D1.338m	D1.338n	D1.355a	D1.355b	D1.355c	D1.355d	D1.355e	D1.355f	D1.355g	D1.355h	D1.380a
Depth*	-76	-76	-98	-98	-98	-98	-98	-98	-98	-115	-115	-115	-115	-115	-115	-115	-115	-140
SiO_2	52.09	52.49	51.21	52.37	50.78	55.14	51.47	51.54	51.73	54.02	53.12	50.83	50.97	52.24	52.61	53.31	52.77	48.41
TiO_2	0.00	0.02	0.00	0.01	0.01	0.06	0.00	0.00	0.00	0.00	0.05	0.02	0.02	0.02	0.05	0.04	0.03	0.01
Al_2O_3	30.66	30.39	31.18	30.42	31.48	28.51	30.97	30.78	30.70	29.23	29.85	31.38	31.32	30.44	30.23	29.69	30.01	33.05
FeO	0.09	0.09	0.12	0.04	0.10	0.08	0.13	0.09	1.08	0.06	0.07	0.10	0.14	0.12	0.09	0.07	0.17	0.14
MnO	0.00	0.00	0.01	0.00	0.03	0.02	0.00	0.02	0.10	0.00	0.00	0.00	0.01	0.00	0.01	0.04	0.00	0.03
MgO	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.29	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
CaO	13.05	12.68	13.68	12.77	14.01	10.46	13.48	13.26	11.93	11.45	12.17	14.04	13.78	12.86	12.44	11.99	12.38	15.92
Na_2O	3.99	4.18	3.59	4.12	3.40	5.38	3.71	3.74	3.83	4.87	4.46	3.42	3.49	4.06	4.23	4.55	4.30	2.32
K_2O	0.16	0.13	0.20	0.17	0.15	0.32	0.20	0.28	0.32	0.34	0.27	0.21	0.25	0.27	0.29	0.29	0.30	0.08
Total	100.05	99.98	99.98	99.96	99.96	99.97	99.96	99.72	99.98	99.98	99.98	100.05	99.96	100.01	99.96	99.97	99.96	99.96
Ab	35.30	37.10	31.90	36.50	30.20	47.30	32.90	33.20	36.00	42.60	39.30	30.20	30.90	35.80	37.50	40.00	37.90	20.80
An	63.70	62.20	67.00	62.50	68.90	50.80	66.00	65.10	62.00	55.40	59.20	68.60	67.60	62.70	60.90	58.30	60.30	78.80
Or	0.90	0.80	1.20	1.00	0.90	1.90	1.20	1.70	2.00	2.00	1.50	1.20	1.50	1.60	1.70	1.70	1.70	0.50
An#	64.34	62.64	67.75	63.13	69.53	51.78	66.73	66.23	63.27	56.53	60.10	69.43	68.63	63.65	61.89	59.31	61.41	79.12
Si	9.45	9.51	9.32	9.50	9.25	9.94	9.36	9.39	9.41	9.77	9.62	9.25	9.28	9.48	9.54	9.65	9.57	8.86
Al	6.55	6.49	6.68	6.50	6.75	6.05	6.63	6.61	6.58	6.22	6.37	6.73	6.71	6.51	6.46	6.33	6.41	7.13
Ti	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00
Fe2	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.17	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.03	0.02
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Mg	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Ca	2.54	2.46	2.67	2.48	2.73	2.02	2.63	2.59	2.33	2.22	2.36	2.74	2.69	2.50	2.42	2.33	2.41	3.12
Na	1.41	1.47	1.27	1.45	1.20	1.88	1.31	1.32	1.35	1.71	1.57	1.21	1.23	1.43	1.49	1.60	1.51	0.82
K	0.04	0.03	0.05	0.04	0.04	0.08	0.05	0.07	0.08	0.08	0.06	0.05	0.06	0.06	0.07	0.07	0.07	0.02
Sum_cat	19.99	19.98	19.99	19.99	19.99	19.99	19.99	19.99	20.00	20.01	19.99	20.00	19.99	20.00	19.99	20.00	20.00	19.98

Plagioclase Rim																		
Sample	D1.380b	D1.380c	D1.380d	D1.380e	D1.380f	D1.380g	D1.380h	D1.380i	D1.380j	D1.380k	D1.380l	D1.380m	D1.399a	D1.399b	D1.399c	D1.399d	D1.399e	D1.399f
Depth*	-140	-140	-140	-140	-140	-140	-140	-140	-140	-140	-140	-140	-159	-159	-159	-159	-159	-159
SiO_2	48.95	49.73	48.89	50.27	51.76	49.83	49.31	48.76	52.51	52.93	49.40	48.41	48.53	48.05	49.01	48.10	50.28	50.45
TiO_2	0.02	0.02	0.00	0.04	0.03	0.00	0.00	0.00	0.02	0.02	0.01	0.02	0.00	0.00	0.00	0.01	0.02	0.04
Al_2O_3	32.69	32.22	32.75	31.82	30.82	32.11	32.46	32.83	30.32	30.02	32.39	33.06	32.89	33.26	32.65	33.30	31.78	31.66
FeO	0.19	0.20	0.19	0.22	0.18	0.15	0.10	0.28	0.15	0.17	0.16	0.16	0.16	0.13	0.12	0.15	0.13	0.15
MnO	0.02	0.00	0.01	0.00	0.01	0.03	0.00	0.00	0.03	0.04	0.00	0.01	0.01	0.00	0.03	0.01	0.06	0.05
MgO	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CaO	15.42	14.84	15.50	14.39	13.22	14.76	15.24	15.66	12.63	12.25	15.17	15.96	15.86	16.21	15.38	16.11	14.36	14.16
Na_2O	2.57	2.92	2.54	3.16	3.84	2.97	2.73	2.48	4.18	4.37	2.77	2.32	2.37	2.16	2.59	2.18	3.17	3.25
K_2O	0.09	0.09	0.10	0.10	0.13	0.12	0.07	0.04	0.14	0.17	0.09	0.05	0.15	0.14	0.20	0.15	0.19	0.20
Total	99.96	100.02	99.98	100.02	99.99	99.97	99.99	100.04	100.02	99.97	100.00	99.98	99.98	99.95	99.98	100.01	99.98	99.96
Ab	23.00	26.10	22.70	28.30	34.20	26.50	24.40	22.20	37.20	38.90	24.70	20.70	21.10	19.20	23.10	19.50	28.20	29.00
An	76.40	73.40	76.70	71.10	65.00	72.80	75.20	77.60	62.00	60.20	74.80	79.00	78.00	79.90	75.70	79.60	70.70	69.90
Or	0.60	0.50	0.60	0.60	0.80	0.70	0.40	0.30	0.80	1.00	0.50	0.30	0.90	0.90	1.20	0.90	1.10	1.10
An#	76.86	73.77	77.16	71.53	65.52	73.31	75.50	77.76	62.50	60.75	75.18	79.24	78.71	80.63	76.62	80.32	71.49	70.68
Si	8.95	9.07	8.94	9.16	9.40	9.09	9.00	8.92	9.52	9.59	9.02	8.86	8.89	8.81	8.96	8.81	9.17	9.20
Al	7.04	6.92	7.05	6.83	6.59	6.90	6.98	7.07	6.47	6.41	6.97	7.13	7.09	7.18	7.03	7.18	6.82	6.80
Ti	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Fe2	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.04	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Mn	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ca	3.02	2.90	3.04	2.81	2.57	2.89	2.98	3.07	2.45	2.38	2.97	3.13	3.11	3.18	3.01	3.16	2.81	2.77
Na	0.91	1.03	0.90	1.12	1.35	1.05	0.97	0.88	1.47	1.54	0.98	0.82	0.84	0.77	0.92	0.77	1.12	1.15
K	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.01	0.03	0.04	0.02	0.01	0.03	0.03	0.05	0.04	0.04	0.05
Sum_cat	19.98	19.98	19.99	19.98	19.98	19.99	19.99	19.98	19.99	19.98	19.98	19.98	20.00	19.99	20.00	19.99	19.99	19.99