

Supplementary Data – Tables A; B; C1, C2, C3, C4, C5, C6.**Table A.** Oxygen normative mineral abundances for the Doros suite (and associated dolerite).

Sample	TOD58	TOD60	TOD38	TOD39	TOD40	TOD42	TOD62	TOD63	TOD21	TOD35B	TOD70	TOD37	TOD43	TOD44	TOD45	TOD71
Unit	Sill	Ch. M.	BOM#	BOM	BOM	BOM	BOM	BOM	IOI	IOI	IOI	MOG	MOG	MOG	MOG	MOG
<i>Normative mineral abundance (wt. %)</i>																
Quartz	0.00	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
Orthoclase	3.95	1.90	0.39	2.07	2.71	3.08	3.60	2.37	2.24	1.93	1.90	1.68	3.52	2.37	2.87	2.93
Plagioclase	51.38	74.70	12.74	37.53	25.70	30.67	33.28	22.18	24.09	41.95	25.72	59.26	63.13	61.43	68.54	68.73
Nepheline	3.12	2.97	0.00	0.09	0.00	0.00	0.00	0.00	1.56	1.44	0.00	0.19	0.00	0.91	0.34	0.96
Diopside	22.94	6.82	27.71	24.94	21.33	30.34	18.85	20.27	26.15	27.48	30.09	23.58	21.11	24.12	19.02	18.68
Hypersthene	0.00	0.00	1.54	0.00	2.56	0.73	2.52	1.25	0.00	0.00	0.24	0.00	1.29	0.00	0.00	0.00
Olivine	12.18	8.58	53.98	31.12	42.41	30.18	35.97	49.07	40.91	23.80	37.72	12.97	7.13	8.28	6.12	5.75
Magnetite	1.93	1.53	2.43	1.83	2.46	2.11	2.37	2.61	2.40	1.53	2.29	0.95	1.15	0.99	0.97	0.93
Ilmenite	3.75	2.77	0.89	1.93	2.11	2.42	2.28	1.63	2.13	1.52	1.64	1.06	2.26	1.60	1.79	1.65
Apatite	0.60	0.50	0.04	0.19	0.30	0.26	0.92	0.26	0.24	0.17	0.19	0.10	0.31	0.21	0.23	0.23
Zircon	0.02	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01
Chromite	0.07	0.07	0.28	0.25	0.28	0.16	0.17	0.30	0.24	0.17	0.21	0.15	0.06	0.08	0.05	0.05

Sample	TOD68	TOD28	TOD48	TOD22	TOD47	TOD47R	TOD76	TOD15	TOD26	TOD13B	TOD13C	TOD53	TOD29	TOD75	TOD55	TOD55R
Unit	MOG#	FOG*	FOG*	FOG*	FOG	FOG	FOG	FG	FG	FMG	FMG	EMOG	FL	FL	Peg.	Peg.
<i>Normative mineral abundance (wt. %)</i>																
Quartz	0.00	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
Orthoclase	4.51	2.23	2.35	2.40	2.82	2.68	3.50	3.90	2.70	5.44	3.39	2.04	9.27	9.43	6.80	6.31
Plagioclase	53.62	45.55	53.13	56.87	50.47	50.10	58.38	59.24	54.84	40.90	45.85	32.37	77.66	58.60	60.11	60.37
Nepheline	1.44	1.61	0.30	0.00	0.00	1.56	0.00	1.17	1.07	6.44	3.24	2.85	3.62	3.43	1.83	3.29
Diopside	27.85	34.65	31.37	23.53	28.10	26.90	19.77	28.16	33.99	32.41	32.57	26.54	7.17	19.60	26.83	25.08
Hypersthene	0.00	0.00	0.00	0.87	1.61	0.00	2.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Olivine	9.09	12.13	9.60	12.92	13.09	14.99	11.56	4.17	3.63	8.38	8.46	27.62	0.22	4.55	2.07	2.75
Magnetite	1.00	1.34	1.20	1.30	1.51	1.50	1.41	1.00	1.05	2.00	2.00	3.36	0.40	1.13	0.67	0.65
Ilmenite	1.92	2.12	1.76	1.82	2.09	1.99	2.29	2.08	2.45	4.09	4.18	4.97	1.13	2.83	1.35	1.28
Apatite	0.37	0.21	0.19	0.21	0.23	0.23	0.25	0.23	0.23	0.32	0.28	0.20	0.43	0.36	0.18	0.20
Zircon	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	0.02
Chromite	0.14	0.14	0.02	0.02	0.03	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.03

Calculated assuming $Fe^{2+}/Total\ Fe = 0.85$, from the whole-rock analyses of Owen-Smith (2014; summarised in Table B). Rock unit abbreviations: Ch. M. = chilled margin; BOM = basal olivine melagabbro; IOI = intrusive olivine melagabbro; MOG = massive olivine gabbro; FOG = foliated olivine gabbro; FOG* = banded transitional olivine gabbro; FG = foliated gabbro; FMG = foliated magnetite gabbro; FMOG = foliated magnetite olivine gabbro; FL = foliated leucogabbro; Peg. = gabbro pegmatite; Cpx Cum. = clinopyroxene cumulate enclave; Bost. = bostonicite; Anorthites denoted with #; repeat analyses with 'R'.

Sample	TOD77	TOD66	TOD84	TOD10
Unit	Cpx Cum.	Bost.	Bost.	Dolerite
<i>Normative mineral abundance (wt. %)</i>				
Quartz	0.00	0.00	0.00	0.00
Orthoclase	3.04	11.36	35.61	2.30
Plagioclase	24.16	55.53	36.15	49.54
Nepheline	1.53	3.18	3.77	0.00
Kalsilite	0.00	0.00	2.01	0.00
Diopside	60.07	16.68	13.79	23.87
Hypersthene	0.00	0.00	0.00	16.42
Olivine	6.46	5.73	6.50	4.14
Magnetite	1.41	1.67	0.00	1.68
Ilmenite	2.82	3.79	1.64	1.73
Apatite	0.28	1.88	0.29	0.23
Acmite	0.00	0.00	2.01	0.00
Zircon	0.01	0.05	0.17	0.01
Chromite	0.16	0.00	0.01	0.05

Table B. Selected representative whole-rock major element data (in wt. %) for the Doros suite (and associated dolerite), from Owen-Smith et al. (2014).

Sample	TOD58	TOD60	TOD40	TOD21	TOD45	TOD47	TOD26	TOD13C	TOD53	TOD75	TOD55	TOD77	TOD84	TOD10
Unit	Sill	Ch. M.	BOM	IOM	MOG	FOG	FG	FMG	FMOG	FL	Pg-Cpx Cum.	Bost. Cum.	Dolerite	
SiO ₂	46.65	54.08	43.16	43.13	48.37	47.26	49.25	45.47	40.67	47.37	50.56	48.73	57.14	48.27
TiO ₂	2.61	2.00	1.46	1.47	1.31	1.49	1.78	2.93	3.33	2.02	1.00	1.99	1.17	1.23
Al ₂ O ₃	13.60	15.33	6.86	6.87	20.37	14.33	16.02	14.04	9.62	19.05	19.04	7.31	13.53	14.16
Fe ₂ O _{3T}	13.4	11.1	17.1	16.6	7.15	10.82	7.61	14.01	22.52	8.08	4.92	9.91	9.50	11.90
MnO	0.21	0.09	0.22	0.20	0.11	0.15	0.11	0.14	0.23	0.11	0.08	0.16	0.14	0.19
MgO	6.41	2.57	20.80	20.07	4.72	9.14	6.08	6.16	11.23	3.77	4.70	11.21	2.42	8.29
CaO	9.61	3.18	7.71	8.67	13.48	12.89	14.97	13.31	9.84	11.97	14.26	17.45	3.62	11.95
Na ₂ O	3.82	7.91	1.33	1.52	2.72	2.08	2.61	2.49	1.79	2.99	2.87	1.48	5.12	1.92
K ₂ O	0.57	0.28	0.39	0.33	0.44	0.42	0.41	0.50	0.29	1.45	1.06	0.45	5.49	0.35
P ₂ O ₅	0.28	0.24	0.14	0.11	0.11	0.11	0.11	0.13	0.09	0.17	0.09	0.13	0.14	0.11
SO ₃	0.03	0.08	0.06	0.01	0.04	0.02	0.02	0.01	0.02	0.02	0.03	0.03	0.00	0.02
Cr ₂ O ₃	0.10	0.06	0.30	0.24	0.07	0.06	0.02	0.02	0.02	0.03	0.04	0.17	0.01	0.08
NiO	0.02	0.02	0.13	0.11	0.02	0.04	0.02	0.01	0.03	0.01	0.01	0.03	0.01	0.02
H ₂ O-	0.28	0.44	0.13	0.04	0.09	0.17	0.10	0.12	0.11	0.08	0.09	0.07	0.10	0.45
LOI	2.07	1.88	0.61	0.15	0.61	0.56	0.67	0.59	0.16	2.13	1.09	0.99	1.24	0.62
Total	99.64	99.23	100.37	99.49	99.60	99.55	99.76	99.92	99.95	99.27	99.85	100.10	99.63	99.57
Mg #	49	31	71	71	57	63	61	47	50	48	65	69	34	58

XRF analysis conducted at the Department of Geological Sciences, University of Cape Town. For full procedures, see Owen-Smith et al. (2014). Total Fe reported as Fe₂O₃. Mg # calculated with all Fe as FeO. Rock unit abbreviations are as in Table A.

Table C. 1. Microprobe analyses of olivines in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD70 IOM																	
Point	3/2	3/3	3/4	4/1	4/4	6/2	6/3	6/4	8/1	9/1	9/2	9/3	9/4	10/1	10/2	10/3	10/4	11/1
SiO ₂	37.95	37.92	37.61	38.01	37.84	37.81	37.88	37.94	37.44	37.82	37.94	38.14	37.82	37.74	37.69	37.59	37.85	37.77
TiO ₂	0.04	0.07	0.06	0.03	0.04	0.06	0.07	0.04	0.06	0.06	0.06	0.07	0.06	0.04	0.08	0.07	0.04	0.04
Al ₂ O ₃	0.04	0.03	0.03	0.01	0.01	0.01	0.00	0.03	0.00	0.05	0.02	0.05	0.00	0.01	0.01	0.02	0.00	0.00
FeO _T	24.40	24.05	24.65	24.08	23.76	24.22	24.97	24.84	24.65	26.21	24.88	24.42	24.74	24.12	23.93	24.64	24.35	24.18
MnO	0.39	0.38	0.46	0.41	0.37	0.36	0.35	0.40	0.42	0.43	0.43	0.32	0.36	0.40	0.42	0.38	0.40	0.37
MgO	35.84	35.74	35.56	35.40	35.52	35.21	35.23	35.17	35.60	34.08	35.46	35.12	35.31	35.71	35.38	34.86	35.62	35.92
CaO	0.24	0.27	0.23	0.26	0.26	0.25	0.32	0.33	0.17	0.17	0.24	0.24	0.22	0.24	0.27	0.21	0.24	0.18
Na ₂ O																		
K ₂ O																		
Cr ₂ O ₃	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.02	0.02	0.01	0.02	0.00	0.00	0.00	0.00
NiO	0.24	0.20	0.25	0.24	0.21	0.28	0.27	0.23	0.26	0.24	0.23	0.25	0.26	0.22	0.22	0.29	0.17	0.21
Total	99.14	98.67	98.84	98.44	98.00	98.20	99.10	98.99	98.62	99.05	99.29	98.63	98.78	98.49	98.01	98.06	98.66	98.68
<i>Structural formula per 4 O</i>																		
Si	1.01	1.01	1.00	1.01	1.01	1.01	1.01	1.01	1.00	1.01	1.01	1.02	1.01	1.01	1.01	1.01	1.01	1.01
Al	0.00	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
Ti	0.00	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
Fe ²⁺ _T	0.54	0.54	0.55	0.54	0.53	0.54	0.56	0.55	0.55	0.59	0.55	0.54	0.55	0.54	0.54	0.55	0.54	0.54
Mn	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
Mg	1.42	1.42	1.42	1.41	1.42	1.41	1.40	1.40	1.42	1.36	1.40	1.40	1.41	1.42	1.41	1.40	1.42	1.43
Ca	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	0.01
Na	0.00	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
K	0.00	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
Cr	0.00	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
Ni	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00
Total	2.99	2.99	2.99	2.98	2.99	2.99	2.99	2.99	3.00	2.98	2.99	2.98	2.99	2.99	2.99	2.99	2.99	2.99
Mg #	72	73	72	72	73	72	72	72	72	70	72	72	72	73	72	72	72	73
Fo	72.04	72.28	71.63	72.03	72.40	71.85	71.26	71.29	71.67	69.51	71.40	71.67	71.48	72.18	72.13	71.29	71.95	72.28
Fa	27.52	27.28	27.85	27.49	27.17	27.73	28.33	28.25	27.85	30.00	28.11	27.96	28.10	27.36	27.38	28.27	27.60	27.30
Te	0.44	0.44	0.52	0.47	0.43	0.42	0.40	0.46	0.48	0.49	0.49	0.37	0.42	0.46	0.49	0.44	0.46	0.42
Name	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Hyal.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>

Table C. 1. Microprobe analyses of olivines in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD70 IOM															
Point	16/4	17/1	17/2	17/3	18/1	18/2	18/3	18/4	18/5	19/2	19/3	19/4	20/1	20/2	21/1	21/2
SiO ₂	38.24	38.15	38.57	38.30	38.50	38.38	38.07	38.07	37.80	37.74	37.95	37.62	38.76	37.53	37.61	38.15
TiO ₂	0.06	0.04	0.01	0.04	0.09	0.08	0.06	0.07	0.09	0.09	0.07	0.02	0.06	0.07	0.07	0.06
Al ₂ O ₃	0.01	0.01	0.01	0.03	0.64	0.02	0.00	0.01	0.02	0.02	0.04	0.03	0.04	0.00	0.03	0.00
FeO _T	24.25	25.03	24.25	24.60	24.98	24.57	24.54	24.80	24.72	24.23	24.53	24.23	24.60	25.08	24.88	24.10
MnO	0.37	0.37	0.38	0.35	0.38	0.43	0.41	0.42	0.45	0.46	0.38	0.38	0.37	0.41	0.35	0.40
MgO	35.63	35.97	35.78	35.41	34.22	35.51	36.36	35.74	35.25	35.31	35.56	35.41	34.14	35.28	35.34	35.82
CaO	0.27	0.21	0.22	0.19	0.32	0.28	0.29	0.26	0.24	0.23	0.24	0.24	0.25	0.26	0.27	0.31
Na ₂ O																
K ₂ O																
Cr ₂ O ₃	0.02	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.01	0.00	0.02
NiO	0.18	0.26	0.24	0.23	0.23	0.21	0.28	0.23	0.18	0.24	0.22	0.23	0.22	0.24	0.28	0.27
Total	99.03	100.05	99.45	99.15	99.35	99.50	100.02	99.61	98.77	98.32	98.98	98.17	98.44	98.88	98.83	99.13
<i>Structural formula per 4 O</i>																
Si	1.01	1.01	1.02	1.02	1.02	1.02	1.00	1.01	1.01	1.01	1.01	1.01	1.03	1.00	1.01	1.01
Al	0.00	0.00	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
Ti	0.00	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
Fe ²⁺ _T	0.54	0.55	0.54	0.55	0.55	0.54	0.54	0.55	0.55	0.54	0.55	0.54	0.55	0.56	0.56	0.53
Mn	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
Mg	1.41	1.41	1.41	1.40	1.35	1.40	1.43	1.41	1.40	1.41	1.41	1.42	1.36	1.41	1.41	1.42
Ca	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
Na	0.00	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
K	0.00	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
Cr	0.00	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
Ni	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.01
Total	2.98	2.99	2.98	2.98	2.97	2.98	3.00	2.99	2.99	2.99	2.99	2.99	2.96	2.99	2.99	2.99
Mg #	72	72	72	72	71	72	73	72	72	72	72	72	71	71	72	73
Fo	72.06	71.62	72.13	71.66	70.63	71.68	72.20	71.63	71.39	71.82	71.78	71.94	70.90	71.15	71.40	72.26
Fa	27.52	27.96	27.43	27.94	28.93	27.82	27.34	27.89	28.09	27.65	27.79	27.62	28.66	28.38	28.20	27.28
Te	0.42	0.41	0.44	0.40	0.44	0.50	0.46	0.48	0.52	0.53	0.43	0.44	0.43	0.47	0.40	0.46
Name	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>

Table C. 1. Microprobe analyses of olivines in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD45 MOG			TOD47 FOG														
Point	15/1	15/2	15/3	2/1	2/2	2/3	2/4	7/12	7/1	7/2	7/3	7/4	7/5	14/21 R	14/1	14/2	14/3	14/4
SiO ₂	35.06	34.82	34.95	35.69	35.81	35.86	35.84	36.43	35.41	35.57	35.58	35.58	35.77	35.88	34.98	35.06	35.39	35.50
TiO ₂	0.03	0.02	0.08	0.03	0.07	0.04	0.04	0.04	0.06	0.02	0.03	0.05	0.04	0.06	0.07	0.07	0.05	0.04
Al ₂ O ₃	0.00	0.02	0.02	0.04	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.01	0.00	0.02	0.00	0.01	0.04
FeO _T	36.06	35.85	36.48	34.16	33.35	33.62	33.64	32.95	32.92	33.02	32.22	32.46	32.29	33.41	34.10	34.50	33.87	33.89
MnO								0.50						0.51				
MgO	28.28	27.29	28.50	29.22	30.90	30.44	30.22	29.95	30.35	30.49	30.82	31.08	31.04	29.89	30.84	30.67	30.50	30.81
CaO	0.22	0.22	0.23	0.31	0.23	0.22	0.23	0.23	0.19	0.21	0.20	0.21	0.19	0.19	0.25	0.24	0.22	0.21
Na ₂ O														0.03				
K ₂ O														0.02				
Cr ₂ O ₃	0.02	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.02
NiO	0.09	0.10	0.06	0.08	0.21	0.12	0.20	0.17	0.14	0.10	0.14	0.17	0.16	0.17	0.10	0.20	0.23	0.15
Total	99.77	98.32	100.32	99.52	100.61	100.32	100.19	100.33	99.08	99.42	99.01	99.59	99.54	100.15	100.36	100.75	100.28	100.65
<i>Structural formula per 4 O</i>																		
Si	0.98	0.99	0.98	0.99	0.98	0.98	0.99	1.00	0.98	0.98	0.99	0.98	0.98	0.99	0.97	0.97	0.98	0.97
Al	0.00	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
Ti	0.00	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
Fe ²⁺ _T	0.84	0.85	0.85	0.79	0.76	0.77	0.77	0.76	0.76	0.76	0.75	0.75	0.74	0.77	0.79	0.79	0.78	0.78
Mn	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	0.01	0.00	0.00	0.00	0.00
Mg	1.18	1.16	1.19	1.21	1.26	1.25	1.24	1.22	1.26	1.26	1.27	1.28	1.27	1.23	1.27	1.26	1.25	1.26
Ca	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
Na	0.00	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
K	0.00	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
Cr	0.00	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
Ni	0.00	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
Total	3.02	3.01	3.02	3.01	3.02	3.01	3.01	3.00	3.02	3.02	3.01	3.02	3.01	3.01	3.03	3.03	3.02	3.02
Mg #	58	58	58	60	62	62	62	62	62	62	63	63	63	61	62	61	62	62
Fo	58.29	57.57	58.20	60.39	62.28	61.74	61.55	61.47	62.17	62.20	63.03	63.05	63.14	61.09	61.71	61.31	61.61	61.84
Fa	41.71	42.43	41.80	39.61	37.72	38.26	38.45	37.95	37.83	37.80	36.97	36.95	36.86	38.31	38.29	38.69	38.39	38.16
Te	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00
Name	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>	<i>Hyal.</i>

Table C. 1. Microprobe analyses of olivines in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD47 FOG									TOD53 FMOG				TOD10 Dolerite					
Point	15/22	15/1	15/2	15/3	15/4	18/1	18/2	18/3	18/4	4/3	5/4	12/10	7/17 C	3/1	3/2	3/3	4/1	4/2	
SiO ₂	35.60	34.60	34.51	35.02	35.15	35.04	34.13	34.30	34.70	36.61	36.25	36.97	37.17	37.40	37.60	37.65	37.66	37.76	
TiO ₂	0.05	0.03	0.05	0.06	0.04	0.08	0.04	0.08	0.06	0.06	0.04	0.05	0.05	0.01	0.00	0.00	0.02	0.01	
Al ₂ O ₃	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.03	0.02	0.02	0.24	0.06	0.05	0.09	0.07	
Fe _T	33.31	34.22	33.89	33.93	33.63	33.93	33.91	34.14	33.65	33.65	33.40	33.83	33.69	17.39	17.45	17.85	17.54	17.51	
MnO	0.51									0.50	0.52	0.52	0.54						
MgO	29.54	30.41	30.27	30.57	30.93	30.48	30.64	30.46	30.29	30.16	29.81	30.32	30.16	43.82	43.36	43.70	43.29	43.34	
CaO	0.32	0.18	0.23	0.19	0.21	0.26	0.23	0.24	0.24	0.30	0.32	0.27	0.29	0.33	0.34	0.32	0.33	0.32	
Na ₂ O	0.03									0.02	0.03	0.04	0.03						
K ₂ O	0.01									0.01	0.01	0.01	0.01						
Cr ₂ O ₃	0.01	0.00	0.01	0.00	0.00	0.01	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.06	0.03	0.08	
NiO	0.15	0.14	0.12	0.17	0.11	0.14	0.09	0.12	0.12	0.06	0.05	0.06	0.04	0.25	0.24	0.23	0.20	0.20	
Total	99.52	99.59	99.09	99.95	100.09	99.95	99.10	99.39	99.08	101.40	100.46	102.08	101.99	99.51	99.12	99.86	99.16	99.29	
<i>Structural formula per 4 O</i>																			
Si	0.99	0.96	0.97	0.97	0.97	0.97	0.96	0.96	0.97	0.99	0.99	1.00	1.00	0.96	0.97	0.97	0.97	0.97	
Al	0.00	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	0.00	0.00	
Ti	0.00	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	
Fe ²⁺ _T	0.77	0.80	0.79	0.79	0.78	0.79	0.79	0.80	0.79	0.76	0.77	0.76	0.76	0.37	0.38	0.38	0.38	0.38	
Mn	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	
Mg	1.22	1.26	1.26	1.26	1.27	1.26	1.28	1.27	1.26	1.22	1.22	1.22	1.21	1.68	1.67	1.67	1.66	1.66	
Ca	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	
Na	0.00	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	
K	0.00	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	
Cr	0.00	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	
Ni	0.00	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	0.00	0.00	
Total	3.01	3.03	3.03	3.03	3.03	3.03	3.04	3.04	3.03	3.00	3.01	3.00	3.00	3.03	3.03	3.03	3.03	3.03	
Mg #	61	61	61	62	62	62	62	61	62	62	61	61	61	82	82	81	81	82	
Fo	60.88	61.30	61.42	61.62	62.11	61.55	61.69	61.39	61.60	61.15	61.03	61.13	61.09	81.79	81.58	81.35	81.48	81.52	
Fa	38.52	38.70	38.58	38.38	37.89	38.45	38.31	38.61	38.40	38.28	38.37	38.27	38.29	18.21	18.42	18.65	18.52	18.48	
Te	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.60	0.60	0.62	0.00	0.00	0.00	0.00	0.00	
Name	Hyal.	Hyal.	Hyal.	Hyal.	Hyal.	Hyal.	Hyal.	Hyal.	Hyal.	Hyal.	Hyal.	Hyal.	Hyal.	Chrys.	Chrys.	Chrys.	Chrys.	Chrys.	

Table C. 1. Microprobe analyses of olivines in rocks of the Doros suite (and associated dolerite) continued.

Sample Point	TOD10 Dolerite											
	4/3	5/1	5/2	5/3	5/4	10/1	10/2	10/3	16/1	16/2	16/3	16/4
SiO ₂	37.69	38.12	38.29	38.10	38.11	37.79	38.01	37.87	37.85	37.49	38.06	37.72
TiO ₂	0.03	0.00	0.03	0.00	0.02	0.04	0.04	0.00	0.00	0.00	0.00	0.01
Al ₂ O ₃	0.08	0.04	0.04	0.07	0.07	0.04	0.05	0.05	0.03	0.03	0.04	0.03
FeO _T	17.43	15.34	15.17	15.17	15.17	16.43	16.67	16.82	16.71	16.86	16.59	16.54
MnO												
MgO	43.65	45.30	45.71	45.99	45.58	44.66	44.56	44.38	44.68	45.04	44.39	44.66
CaO	0.31	0.35	0.34	0.33	0.33	0.33	0.34	0.34	0.33	0.33	0.34	0.32
Na ₂ O												
K ₂ O												
Cr ₂ O ₃	0.01	0.01	0.02	0.04	0.05	0.03	0.05	0.02	0.03	0.04	0.05	0.03
NiO	0.21	0.26	0.20	0.17	0.25	0.17	0.17	0.23	0.20	0.19	0.19	0.20
Total	99.40	99.43	99.79	99.87	99.57	99.49	99.89	99.71	99.83	99.99	99.66	99.52
<i>Structural formula per 4 O</i>												
Si	0.97	0.97	0.97	0.96	0.97	0.97	0.97	0.97	0.97	0.96	0.97	0.96
Al	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe ²⁺ _T	0.37	0.33	0.32	0.32	0.32	0.35	0.36	0.36	0.36	0.36	0.35	0.35
Mn	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	1.67	1.72	1.72	1.73	1.72	1.70	1.69	1.69	1.70	1.71	1.69	1.70
Ca	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Na	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ni	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.04	3.03	3.03
Mg #	82	84	84	84	84	83	83	82	83	83	83	83
Fo	81.70	84.03	84.30	84.38	84.26	82.89	82.65	82.46	82.66	82.64	82.67	82.80
Fa	18.30	15.97	15.70	15.62	15.74	17.11	17.35	17.54	17.34	17.36	17.33	17.20
Te	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Name	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>	<i>Chrys.</i>

Rock unit abbreviations are as in Table A. C = core; R = rim; Chrys. = chrysolite; Hyal. = hyalosiderite. Mg # = 100x [Mg/(Mg+Fe)]. Data in italics were analysed at the GFZ Potsdam. See Analytical Methods for details of procedures.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite).

Sample	TOD59 Chilled margin													TOD58 Chilled gabbroic sill					
Point	2/1	2/2	2/3	2/4	3/1	3/2	3/3	3/4	5/1	5/2	5/3	5/4	5/5	5/1	5/2	5/3	5/4	5/5	7/1
SiO ₂	67.81	68.11	67.05	67.87	68.33	68.71	68.36	68.28	68.48	68.58	68.51	68.48	68.36	56.66	61.64	61.28	56.01	56.74	67.15
TiO ₂																			
Al ₂ O ₃	20.46	20.21	20.87	20.11	19.68	19.60	19.87	19.44	19.51	19.63	19.66	19.65	19.54	25.98	23.40	23.21	26.53	26.17	20.74
FeO _T	0.17	0.18	0.45	0.26	0.09	0.06	0.04	0.10	0.06	0.06	0.03	0.05	0.05	0.64	0.40	0.43	0.67	0.70	0.15
MnO																			
MgO	0.05	0.00	0.07	0.04	0.02	0.00	0.00	0.00	0.02	0.02	0.03	0.01	0.01	0.04	0.01	0.00	0.03	0.04	0.01
CaO	0.39	0.33	0.46	0.27	0.33	0.24	0.44	0.29	0.10	0.11	0.10	0.08	0.15	9.11	4.70	4.68	8.80	8.16	1.17
Na ₂ O	10.92	11.04	10.62	11.12	11.01	11.16	10.80	11.18	11.19	11.29	11.16	11.05	11.09	6.11	7.59	7.56	5.74	6.12	10.52
K ₂ O	0.22	0.16	0.55	0.27	0.11	0.04	0.06	0.03	0.03	0.05	0.04	0.02	0.03	0.54	1.20	1.19	0.48	0.52	0.08
Cr ₂ O ₃																			
NiO																			
BaO	0.08	0.11	0.07	0.16	0.08	0.06	0.05	0.06	0.12	0.05	0.04	0.00	0.13	0.14	0.24	0.29	0.12	0.06	0.10
Total	100.11	100.13	100.15	100.09	99.65	99.87	99.62	99.38	99.51	99.79	99.57	99.34	99.35	99.22	99.18	98.64	98.38	98.52	99.91
<i>Structural formula per 8 O</i>																			
Si	2.96	2.97	2.94	2.97	2.99	3.00	2.99	3.00	3.00	3.00	3.00	3.00	3.00	2.58	2.77	2.77	2.56	2.59	2.94
Al	1.05	1.04	1.08	1.04	1.02	1.01	1.02	1.01	1.01	1.01	1.01	1.01	1.01	1.39	1.24	1.24	1.43	1.41	1.07
Ti	0.00	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	0.00
Fe ²⁺ _T	0.01	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.02	0.03	0.03	0.01
Mn	0.00	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	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	0.00	0.00	0.00
Ca	0.02	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.00	0.01	0.00	0.00	0.01	0.44	0.23	0.23	0.43	0.40	0.05
Na	0.92	0.93	0.90	0.94	0.93	0.94	0.92	0.95	0.95	0.96	0.95	0.94	0.94	0.54	0.66	0.66	0.51	0.54	0.89
K	0.01	0.01	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.07	0.03	0.03	0.00
Cr	0.00	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	0.00
Ni	0.00	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	0.00
Ba	0.00	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	0.00
Total	4.98	4.98	4.99	4.99	4.97	4.97	4.96	4.98	4.97	4.98	4.97	4.96	4.97	5.01	4.98	4.98	4.99	5.00	4.97
An #	2	2	2	1	2	1	2	1	0	1	1	0	1	45	25	25	46	42	6
An	1.93	1.59	2.28	1.30	1.64	1.18	2.19	1.42	0.49	0.53	0.50	0.38	0.76	43.77	23.66	23.67	44.53	41.09	5.75
Ab	96.76	97.49	94.51	97.16	97.73	98.61	97.45	98.41	99.34	99.17	99.27	99.47	99.09	53.12	69.14	69.19	52.56	55.77	93.77
Or	1.31	0.92	3.21	1.53	0.63	0.21	0.37	0.17	0.17	0.30	0.23	0.15	0.15	3.12	7.20	7.14	2.91	3.15	0.48
Name	Ab.	Ab.	Ab.	Ab.	Ab.	Ab.	Ab.	Ab.	Ab.	Ab.	Ab.	Ab.	Ab.	And.	Olig.	Olig.	And.	And.	Ab.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD58 Chilled gabbroic sill																	
Point	7/2	7/3	7/4	7/5	9/1	9/2	9/3	9/4	9/5	10/1	10/2	10/3	10/4	10/5	14/1	14/2	14/3	14/5
SiO ₂	66.90	60.75	62.58	58.34	67.18	67.03	61.85	57.66	61.34	64.78	59.40	59.69	59.76	66.33	63.57	62.61	61.72	67.55
TiO ₂																		
Al ₂ O ₃	20.71	24.24	23.08	25.15	20.93	20.91	23.85	26.43	24.00	22.79	24.81	24.71	24.58	21.02	22.98	22.59	23.20	20.47
FeO _T	0.17	0.44	0.45	0.67	0.06	0.11	0.37	0.59	0.38	0.06	0.69	0.50	0.48	0.15	0.44	0.36	0.38	0.08
MnO																		
MgO	0.00	0.03	0.04	0.02	0.00	0.04	0.01	0.04	0.00	0.01	0.04	0.01	0.00	0.00	0.34	0.01	0.00	0.02
CaO	1.22	5.62	4.32	6.98	1.18	1.20	5.04	8.25	5.25	2.15	5.95	6.33	6.20	1.48	2.03	3.85	4.49	1.03
Na ₂ O	10.56	7.39	8.07	6.67	10.36	10.70	7.84	6.05	7.57	9.66	6.86	7.02	7.05	10.20	9.33	8.09	7.96	10.54
K ₂ O	0.04	0.92	1.05	0.69	0.08	0.08	1.03	0.51	1.01	0.12	1.10	0.71	0.77	0.04	0.63	1.17	1.03	0.15
Cr ₂ O ₃																		
NiO																		
BaO	0.10	0.18	0.22	0.13	0.10	0.06	0.22	0.12	0.19	0.06	0.14	0.17	0.18	0.08	0.22	0.29	0.24	0.06
Total	99.70	99.56	99.80	98.66	99.89	100.13	100.20	99.65	99.75	99.63	98.99	99.14	99.01	99.30	99.54	98.96	99.02	99.91
<i>Structural formula per 8 O</i>																		
Si	2.94	2.72	2.79	2.65	2.94	2.93	2.75	2.60	2.74	2.85	2.68	2.69	2.69	2.92	2.82	2.81	2.77	2.96
Al	1.07	1.28	1.21	1.35	1.08	1.08	1.25	1.40	1.26	1.18	1.32	1.31	1.31	1.09	1.20	1.19	1.23	1.06
Ti	0.00	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
Fe ²⁺ _T	0.01	0.02	0.02	0.03	0.00	0.00	0.01	0.02	0.01	0.00	0.03	0.02	0.02	0.01	0.02	0.01	0.01	0.00
Mn	0.00	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
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	0.02	0.00	0.00	0.00
Ca	0.06	0.27	0.21	0.34	0.06	0.06	0.24	0.40	0.25	0.10	0.29	0.31	0.30	0.07	0.10	0.19	0.22	0.05
Na	0.90	0.64	0.70	0.59	0.88	0.91	0.68	0.53	0.66	0.82	0.60	0.61	0.62	0.87	0.80	0.70	0.69	0.89
K	0.00	0.05	0.06	0.04	0.00	0.00	0.06	0.03	0.06	0.01	0.06	0.04	0.04	0.00	0.04	0.07	0.06	0.01
Cr	0.00	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
Ni	0.00	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
Ba	0.00	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
Total	4.98	4.99	4.98	4.99	4.96	4.99	4.99	4.98	4.99	4.97	4.99	4.98	4.98	4.97	5.00	4.98	4.99	4.97
An #	6	30	23	37	6	6	26	43	28	11	32	33	33	7	11	21	24	5
An	6.00	27.98	21.42	35.12	5.87	5.79	24.65	41.66	26.05	10.87	30.24	31.85	31.20	7.41	10.32	19.37	22.32	5.09
Ab	93.79	66.58	72.40	60.72	93.64	93.73	69.38	55.28	67.96	88.42	63.08	63.92	64.20	92.35	85.86	73.65	71.60	94.01
Or	0.21	5.44	6.19	4.16	0.49	0.48	5.97	3.06	5.99	0.71	6.68	4.23	4.60	0.24	3.81	6.98	6.09	0.90
Name	Ab.	Olig.	Olig.	And.	Ab.	Ab.	Olig.	And.	Olig.	Olig.	And.	And.	And.	Ab.	Olig.	Olig.	Olig.	Ab.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD39 BOM																		
Point	4/18 R	4/1	4/2	4/3	4/4	4/5	8/1	8/2	8/3	8/4	8/5	9/1	9/2	13/30 R1	13/32 R3	13/1	13/2	13/3	13/4
SiO ₂	51.66	52.63	50.87	51.14	52.74	52.88	53.57	52.54	53.03	56.99	58.88	52.36	52.43	48.68	54.94	52.65	50.63	52.17	52.77
TiO ₂	0.11													0.09	0.18				
Al ₂ O ₃	28.95	30.26	31.11	30.90	29.61	30.02	29.14	29.94	29.97	27.13	25.93	30.12	30.11	30.31	26.36	29.97	31.38	30.05	29.50
FeO _T	0.46	0.48	0.43	0.35	0.35	0.39	0.42	0.44	0.45	0.36	0.37	0.46	0.38	0.37	0.50	0.40	0.43	0.39	0.37
MnO	0.00													0.00	0.02				
MgO	0.01	0.01	0.00	0.00	0.01	0.02	0.03	0.02	0.03	0.02	0.06	0.02	0.02	0.01	0.02	0.03	0.01	0.04	0.00
CaO	13.36	12.28	13.38	13.10	11.63	12.26	11.45	12.34	11.23	8.97	6.39	12.23	12.29	15.28	10.19	12.61	14.16	12.63	11.98
Na ₂ O	3.85	3.97	3.40	3.40	4.21	3.93	4.41	3.75	4.48	5.53	6.68	4.14	3.96	3.09	5.63	3.81	2.84	3.87	4.13
K ₂ O	0.30	0.32	0.24	0.25	0.34	0.33	0.33	0.29	0.37	0.65	1.20	0.34	0.32	0.17	0.50	0.29	0.19	0.30	0.33
Cr ₂ O ₃	0.00													0.00	0.01				
NiO	0.01													0.00	0.02				
BaO	0.02	0.06	0.07	0.11	0.16	0.10	0.08	0.10	0.13	0.10	0.11	0.11	0.12	0.00	0.05	0.00	0.07	0.09	0.09
Total	98.71	100.01	99.50	99.25	99.05	99.92	99.43	99.42	99.67	99.74	99.62	99.78	99.62	97.99	98.42	99.75	99.71	99.55	99.17
<i>Structural formula per 8 O</i>																			
Si	2.38	2.39	2.33	2.34	2.41	2.40	2.44	2.40	2.41	2.57	2.64	2.38	2.39	2.28	2.53	2.39	2.31	2.38	2.41
Al	1.57	1.62	1.68	1.67	1.60	1.60	1.56	1.61	1.60	1.44	1.37	1.62	1.62	1.67	1.43	1.61	1.69	1.62	1.59
Ti	0.00	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	0.00	0.00
Fe ²⁺ _T	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.02	0.02	0.02	0.01	0.01
Mn	0.00	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	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	0.00	0.00	0.00
Ca	0.66	0.60	0.66	0.64	0.57	0.60	0.56	0.60	0.55	0.43	0.31	0.60	0.60	0.77	0.50	0.61	0.69	0.62	0.59
Na	0.34	0.35	0.30	0.30	0.37	0.35	0.39	0.33	0.39	0.48	0.58	0.37	0.35	0.28	0.50	0.34	0.25	0.34	0.37
K	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.04	0.07	0.02	0.02	0.01	0.03	0.02	0.01	0.02	0.02
Cr	0.00	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	0.00
Ni	0.00	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	0.00
Ba	0.00	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	0.00
Total	5.01	4.99	4.99	4.98	4.99	4.98	4.99	4.97	5.00	4.97	4.99	5.00	4.99	5.03	5.02	4.98	4.97	4.99	4.99
An #	66	63	69	68	60	63	59	65	58	47	35	62	63	73	50	65	73	64	62
An	64.59	61.89	67.51	67.03	59.16	62.04	57.74	63.37	56.79	45.43	32.11	60.77	61.96	72.51	48.59	63.53	72.54	63.17	60.37
Ab	33.68	36.21	31.04	31.48	38.75	35.99	40.25	34.85	41.00	50.68	60.74	37.23	36.13	26.53	48.58	34.74	26.33	35.03	37.66
Or	1.73	1.91	1.45	1.49	2.09	1.97	2.01	1.78	2.22	3.89	7.15	2.01	1.92	0.96	2.84	1.73	1.14	1.81	1.98
Name	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	And.	And.	Lab.	Lab.	Byt.	Lab.	Lab.	Lab.	Lab.	Lab.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD39 BOM																TOD40 BOM		
Point	13/5	13/6	13/7	13/8	13/9	14/25 C	14/26 R	15/1	15/2	15/3	15/4	15/5	18/1	18/2	19/1	19/2	2/2	10/12 C	10/15 R3
SiO ₂	52.83	52.11	52.74	52.87	53.07	54.06	55.57	55.71	55.16	55.39	55.63	55.83	50.25	50.14	55.25	54.64	54.10	50.31	50.23
TiO ₂						0.19	0.18										0.14	0.09	0.09
Al ₂ O ₃	29.75	29.53	29.66	29.63	29.46	28.47	27.90	27.36	28.38	28.29	28.09	27.48	31.63	31.60	27.87	28.07	29.21	31.30	30.61
FeO _T	0.37	0.39	0.41	0.38	0.39	0.42	0.44	0.47	0.44	0.43	0.42	0.53	0.32	0.34	0.48	0.47	0.33	0.29	0.40
MnO						0.00	0.00										0.00	0.00	0.02
MgO	0.01	0.03	0.01	0.01	0.00	0.03	0.01	0.02	0.02	0.04	0.01	0.02	0.01	0.03	0.04	0.05	0.02	0.02	0.02
CaO	12.02	11.94	11.91	11.95	11.90	11.51	10.66	9.53	10.68	10.47	10.31	9.84	14.22	14.08	9.78	10.22	12.22	15.07	14.80
Na ₂ O	4.09	4.22	4.21	4.27	4.10	4.98	5.40	5.46	4.65	4.81	4.91	5.05	2.93	3.11	5.15	4.96	4.43	3.03	3.36
K ₂ O	0.32	0.36	0.36	0.36	0.38	0.48	0.57	0.56	0.45	0.48	0.50	0.56	0.16	0.14	0.56	0.46	0.31	0.16	0.15
Cr ₂ O ₃						0.00	0.00										0.00	0.00	0.01
NiO						0.00	0.00										0.00	0.00	0.01
BaO	0.13	0.08	0.12	0.18	0.07	0.03	0.03	0.17	0.07	0.10	0.15	0.11	0.04	0.15	0.09	0.13	0.02	0.01	0.02
Total	99.52	98.66	99.42	99.65	99.38	100.16	100.76	99.28	99.85	100.02	100.02	99.43	99.56	99.60	99.21	99.00	100.78	100.27	99.72
<i>Structural formula per 8 O</i>																			
Si	2.41	2.40	2.41	2.41	2.42	2.45	2.50	2.53	2.49	2.50	2.51	2.53	2.30	2.30	2.51	2.49	2.43	2.29	2.31
Al	1.60	1.60	1.59	1.59	1.58	1.52	1.48	1.46	1.51	1.50	1.49	1.47	1.71	1.71	1.49	1.51	1.55	1.68	1.66
Ti	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	0.00	0.00
Fe ²⁺ _T	0.01	0.01	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.01	0.01	0.02
Mn	0.00	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	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	0.00	0.00	0.00
Ca	0.59	0.59	0.58	0.58	0.58	0.56	0.51	0.46	0.52	0.51	0.50	0.48	0.70	0.69	0.48	0.50	0.59	0.74	0.73
Na	0.36	0.38	0.37	0.38	0.36	0.44	0.47	0.48	0.41	0.42	0.43	0.44	0.26	0.28	0.45	0.44	0.39	0.27	0.30
K	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.01	0.01	0.03	0.03	0.02	0.01	0.01
Cr	0.00	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	0.00
Ni	0.00	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	0.00
Ba	0.00	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	0.00
Total	4.99	5.00	4.99	5.00	4.98	5.02	5.01	4.99	4.97	4.98	4.98	4.97	4.98	4.99	4.99	4.99	4.99	5.00	5.02
An #	62	61	61	61	62	56	52	49	56	55	54	52	73	71	51	53	60	73	71
An	60.70	59.68	59.68	59.43	60.17	54.57	50.50	47.47	54.41	53.02	52.10	50.08	72.15	70.85	49.48	51.75	59.30	72.65	70.28
Ab	37.38	38.17	38.18	38.43	37.52	42.72	46.29	49.21	42.87	44.07	44.90	46.51	26.90	28.32	47.15	45.45	38.90	26.43	28.87
Or	1.92	2.16	2.14	2.14	2.31	2.71	3.21	3.32	2.72	2.91	3.00	3.41	0.95	0.84	3.37	2.79	1.79	0.92	0.85
Name	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	And.	Lab.	Lab.	Lab.	Lab.	Byt.	Byt.	Lab.	Lab.	Lab.	Byt.	Byt.

able C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD40 BOM			TOD21 IOM																
Point	13/16	16/19	18/24	4/1	4/3	5/7 C	5/8 R	6/9 R2	6/10 R1	6/1	6/2	6/3	6/4	17/1	17/2	17/3	17/4	17/5	18/1	
SiO ₂	54.80	56.12	53.80	57.12	57.43	52.63	62.65	63.22	55.62	56.00	50.99	50.93	51.08	57.94	58.18	55.75	55.39	55.47	55.38	
TiO ₂	0.15	0.16	0.15			0.11	0.16	0.18	0.18											
Al ₂ O ₃	28.66	26.86	28.10	26.52	25.55	28.10	22.19	22.23	25.87	28.04	31.24	31.48	31.28	25.90	26.20	27.62	27.79	28.06	28.06	
FeO _T	0.38	0.62	0.71	0.64	0.72	0.31	0.38	0.39	0.33	0.35	0.34	0.29	0.32	0.80	0.60	0.57	0.75	0.50	0.48	
MnO	0.00	0.01	0.00			0.00	0.00	0.00	0.00											
MgO	0.02	0.03	0.04	0.02	1.90	0.01	0.02	0.01	0.02	0.01	0.49	0.01	0.01	0.59	0.05	0.40	0.03	0.02	0.12	
CaO	11.53	9.89	11.95	8.00	6.76	12.19	4.79	4.51	9.68	9.32	13.13	13.37	13.09	7.32	7.46	9.27	9.69	9.63	9.45	
Na ₂ O	4.86	5.68	4.64	6.31	6.21	4.71	8.19	8.20	6.11	5.52	3.29	3.47	3.63	6.43	6.34	5.43	5.44	5.47	5.47	
K ₂ O	0.35	0.48	0.34	0.63	0.75	0.28	1.44	1.64	0.46	0.39	0.17	0.18	0.21	0.56	0.64	0.49	0.49	0.52	0.50	
Cr ₂ O ₃	0.01	0.00	0.00			0.00	0.00	0.01	0.00											
NiO	0.01	0.00	0.03			0.00	0.00	0.00	0.00											
BaO	0.03	0.03	0.02	0.24	0.17	0.01	0.16	0.17	0.05	0.09	0.10	0.06	0.06	0.16	0.21	0.19	0.14	0.14	0.07	
Total	100.82	99.88	99.78	99.48	99.49	98.34	99.98	100.58	98.33	99.73	99.75	99.80	99.67	99.69	99.67	99.73	99.72	99.80	99.52	
<i>Structural formula per 8 O</i>																				
Si	2.46	2.54	2.45	2.58	2.59	2.43	2.80	2.81	2.55	2.52	2.32	2.32	2.33	2.61	2.62	2.52	2.51	2.51	2.51	
Al	1.52	1.43	1.51	1.41	1.36	1.53	1.17	1.16	1.40	1.49	1.68	1.69	1.68	1.37	1.39	1.47	1.48	1.49	1.50	
Ti	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Fe ²⁺ _T	0.01	0.02	0.03	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.02	0.02	0.03	0.02	0.02	
Mn	0.00	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	0.00	
Mg	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.04	0.00	0.03	0.00	0.00	0.01	
Ca	0.55	0.48	0.58	0.39	0.33	0.60	0.23	0.21	0.48	0.45	0.64	0.65	0.64	0.35	0.36	0.45	0.47	0.47	0.46	
Na	0.42	0.50	0.41	0.55	0.54	0.42	0.71	0.71	0.54	0.48	0.29	0.31	0.32	0.56	0.55	0.48	0.48	0.48	0.48	
K	0.02	0.03	0.02	0.04	0.04	0.02	0.08	0.09	0.03	0.02	0.01	0.01	0.01	0.03	0.04	0.03	0.03	0.03	0.03	
Cr	0.00	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	0.00	
Ni	0.00	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	0.00	
Ba	0.00	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	0.00	
Total	5.00	5.00	5.01	5.00	5.02	5.02	5.01	5.01	5.02	4.98	4.99	4.99	5.00	5.00	4.98	5.00	5.00	5.00	5.00	
An #	57	49	59	41	38	59	24	23	47	48	69	68	67	39	39	49	50	49	49	
An	55.59	47.69	57.59	39.66	35.78	57.92	22.46	21.17	45.48	47.13	68.07	67.30	65.77	37.31	37.88	47.10	48.16	47.81	47.39	
Ab	42.40	49.56	40.46	56.61	59.49	40.50	69.50	69.66	51.95	50.51	30.87	31.61	33.00	59.31	58.26	49.93	48.93	49.14	49.64	
Or	2.01	2.76	1.95	3.73	4.73	1.58	8.04	9.17	2.57	2.35	1.06	1.08	1.23	3.38	3.85	2.98	2.91	3.05	2.97	
Name	Lab.	And.	Lab.	And.	And.	Lab.	Olig.	Olig.	And.	And.	Lab.	Lab.	Lab.	And.	And.	And.	And.	And.	And.	

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD21 IOM																	
Point	18/2	18/3	18/4	22/24 C	22/25 R	24/1	24/2	24/3	24/4	25/1	25/2	25/3	25/4	26/1	26/2	26/3	26/4	26/5
SiO ₂	55.49	54.82	54.73	49.35	56.28	55.60	54.31	55.04	55.80	55.05	52.21	51.83	54.76	51.26	53.89	52.27	51.04	49.45
TiO ₂				0.09	0.17													
Al ₂ O ₃	27.99	28.56	28.58	30.11	25.37	28.01	28.73	28.31	27.76	28.27	30.22	30.72	28.64	30.95	28.88	30.14	31.02	32.07
FeO _T	0.48	0.36	0.43	0.33	0.32	0.45	0.48	0.45	0.47	0.44	0.40	0.41	0.41	0.46	0.49	0.43	0.51	0.47
MnO				0.00	0.00													
MgO	0.05	0.02	0.01	0.01	0.01	0.02	0.01	0.00	0.02	0.01	0.28	0.02	0.00	0.01	0.62	0.05	0.06	0.01
CaO	9.45	9.93	9.94	15.01	9.14	9.55	10.38	9.79	9.03	10.01	11.12	12.64	10.28	12.88	10.35	11.58	12.74	14.19
Na ₂ O	5.52	5.27	5.19	3.14	6.36	5.35	5.08	5.31	5.61	5.28	4.56	3.81	5.15	3.78	4.52	4.16	3.36	3.04
K ₂ O	0.49	0.47	0.46	0.15	0.51	0.51	0.43	0.50	0.54	0.50	0.59	0.27	0.44	0.25	0.40	0.62	0.30	0.18
Cr ₂ O ₃				0.00	0.00													
NiO				0.00	0.00													
BaO	0.08	0.09	0.18	0.01	0.08	0.08	0.17	0.15	0.16	0.17	0.13	0.15	0.18	0.09	0.09	0.25	0.07	0.15
Total	99.54	99.52	99.52	98.17	98.24	99.57	99.60	99.55	99.38	99.73	99.51	99.85	99.87	99.68	99.25	99.50	99.11	99.56
<i>Structural formula per 8 O</i>																		
Si	2.51	2.48	2.48	2.30	2.58	2.51	2.47	2.49	2.53	2.49	2.38	2.36	2.48	2.34	2.45	2.39	2.34	2.27
Al	1.49	1.53	1.53	1.65	1.37	1.49	1.54	1.51	1.48	1.51	1.62	1.65	1.53	1.66	1.55	1.62	1.68	1.73
Ti	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	0.00	0.00	0.00
Fe ²⁺ _T	0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	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	0.00	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	0.00	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	0.04	0.00	0.00	0.00
Ca	0.46	0.48	0.48	0.75	0.45	0.46	0.50	0.48	0.44	0.49	0.54	0.62	0.50	0.63	0.50	0.57	0.63	0.70
Na	0.48	0.46	0.46	0.28	0.57	0.47	0.45	0.47	0.49	0.46	0.40	0.34	0.45	0.33	0.40	0.37	0.30	0.27
K	0.03	0.03	0.03	0.01	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.03	0.01	0.02	0.04	0.02	0.01
Cr	0.00	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
Ni	0.00	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
Ba	0.00	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
Total	5.00	5.00	5.00	5.02	5.02	4.99	5.00	5.00	4.99	5.00	5.02	4.99	5.00	5.00	4.99	5.00	4.98	5.00
An #	49	51	51	73	44	50	53	50	47	51	57	65	52	65	56	61	68	72
An	47.21	49.58	50.00	71.92	43.00	48.15	51.68	48.98	45.55	49.66	55.39	63.66	51.07	64.33	54.44	58.34	66.43	71.29
Ab	49.90	47.61	47.25	27.23	54.14	48.81	45.77	48.07	51.21	47.40	41.11	34.72	46.30	34.16	43.03	37.93	31.71	27.64
Or	2.89	2.81	2.75	0.86	2.86	3.04	2.56	2.95	3.24	2.94	3.50	1.62	2.63	1.51	2.53	3.73	1.86	1.07
Name	And.	Lab.	Lab.	Byt.	And.	And.	Lab.	Lab.	And.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Byt.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD45 MOG																		
Point	2/4	2/1	2/2	2/3	2/4	3/5 C	3/6 R1	3/7 R2	3/1	3/2	3/3	3/4	3/5	3/6	3/7	9/15 C	9/16 R	9/1	9/2
SiO ₂	52.26	53.70	52.81	53.46	53.44	53.30	52.46	51.65	49.10	52.18	53.38	49.93	55.48	53.14	50.02	49.76	50.19	54.41	49.92
TiO ₂	0.11					0.11	0.11	0.08								0.09	0.11		
Al ₂ O ₃	29.31	29.03	29.71	29.08	29.33	29.24	29.94	30.32	32.35	30.21	29.30	31.80	28.05	29.58	31.82	31.61	31.46	28.54	31.41
FeO _T	0.39	0.54	0.46	0.59	0.47	0.41	0.47	0.44	0.47	0.51	0.55	0.50	0.46	0.47	0.57	0.44	0.46	0.65	0.88
MnO	0.00					0.01	0.01	0.00								0.02	0.00		
MgO	0.05	0.05	0.04	0.12	0.03	0.05	0.04	0.04	0.03	0.05	0.06	0.02	0.06	0.05	0.05	0.06	0.05	0.09	0.38
CaO	12.94	10.71	11.25	10.89	11.26	12.55	13.30	13.85	14.45	12.11	11.51	14.09	9.75	11.81	14.24	15.23	15.01	10.30	13.40
Na ₂ O	4.18	4.59	4.42	4.46	4.23	4.33	4.02	3.73	2.72	3.85	4.20	2.96	5.19	4.02	2.85	2.93	3.09	4.83	2.98
K ₂ O	0.44	0.56	0.53	0.61	0.54	0.48	0.41	0.37	0.24	0.46	0.53	0.28	0.51	0.51	0.24	0.23	0.24	0.70	0.27
Cr ₂ O ₃	0.01					0.00	0.01	0.00								0.00	0.00		
NiO	0.00					0.00	0.00	0.00								0.01	0.00		
BaO	0.02	0.06	0.13	0.19	0.08	0.02	0.00	0.00	0.07	0.08	0.09	0.06	0.08	0.12	0.08	0.00	0.00	0.07	0.03
Total	99.70	99.25	99.35	99.38	99.38	100.50	100.77	100.48	99.43	99.44	99.62	99.63	99.58	99.70	99.87	100.37	100.60	99.58	99.28
<i>Structural formula per 8 O</i>																			
Si	2.39	2.45	2.41	2.44	2.43	2.41	2.37	2.35	2.26	2.38	2.43	2.29	2.51	2.42	2.29	2.27	2.28	2.47	2.29
Al	1.58	1.56	1.60	1.56	1.57	1.56	1.60	1.62	1.75	1.63	1.57	1.72	1.50	1.58	1.71	1.70	1.69	1.53	1.70
Ti	0.00	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	0.00
Fe ²⁺ _T	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.01	0.03
Ca	0.63	0.52	0.55	0.53	0.55	0.61	0.64	0.67	0.71	0.59	0.56	0.69	0.47	0.58	0.70	0.74	0.73	0.50	0.66
Na	0.37	0.41	0.39	0.39	0.37	0.38	0.35	0.33	0.24	0.34	0.37	0.26	0.46	0.35	0.25	0.26	0.27	0.43	0.27
K	0.03	0.03	0.03	0.04	0.03	0.03	0.02	0.02	0.01	0.03	0.03	0.02	0.03	0.03	0.01	0.01	0.01	0.04	0.02
Cr	0.00	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	0.00
Ni	0.00	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	0.00
Ba	0.00	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	0.00
Total	5.02	4.99	5.00	5.00	4.98	5.01	5.01	5.01	5.00	4.99	4.99	4.99	4.99	4.98	4.99	5.01	5.01	5.00	5.00
An #	63	56	58	57	60	62	65	67	75	63	60	72	51	62	73	74	73	54	71
An	61.54	54.41	56.60	55.33	57.58	59.88	63.14	65.83	73.50	61.72	58.30	71.25	49.37	59.97	72.33	73.20	71.86	51.84	70.08
Ab	35.97	42.20	40.24	41.01	39.14	37.39	34.54	32.08	25.04	35.51	38.50	27.09	47.55	36.94	26.20	25.48	26.77	43.99	28.20
Or	2.49	3.40	3.15	3.67	3.28	2.73	2.32	2.09	1.47	2.77	3.21	1.67	3.08	3.09	1.48	1.32	1.37	4.17	1.71
Name	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Byt.	Lab.	Lab.	Byt.	Lab.	Lab.	Byt.	Byt.	Byt.	Lab.	Byt.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD45 MOG			TOD47 FOG															
	9/3	9/4	9/5	3/1	3/2	3/3	3/4	3/5	3/6	5/1	5/2	5/3	5/4	5/5	5/6	8/1	8/2	8/3	8/4
SiO ₂	47.79	49.03	49.64	53.34	53.29	53.88	51.93	50.52	53.28	50.43	50.27	50.66	50.22	50.52	50.20	53.44	53.90	53.56	52.46
TiO ₂																			
Al ₂ O ₃	29.80	32.11	31.85	29.98	29.87	29.64	30.65	31.41	29.55	31.13	31.26	31.00	31.93	31.25	31.07	29.02	28.78	29.70	29.53
FeO _T	3.73	0.55	0.51	0.49	0.42	0.39	0.37	0.43	0.45	0.47	0.45	0.46	0.43	0.46	0.43	0.41	0.32	0.46	0.39
MnO																			
MgO	2.23	0.07	0.05	0.03	0.03	0.03	0.02	0.02	0.03	0.02	0.03	0.04	0.04	0.00	0.02	0.05	0.03	0.05	0.03
CaO	11.73	14.42	14.14	11.90	12.07	11.55	12.92	13.80	11.51	13.82	13.85	13.55	13.79	12.88	14.15	11.24	10.87	11.12	11.90
Na ₂ O	3.22	2.85	2.93	3.95	3.99	4.29	3.65	3.00	4.30	3.18	3.02	3.22	3.18	3.55	2.98	4.40	4.63	4.49	4.03
K ₂ O	0.19	0.25	0.24	0.43	0.40	0.42	0.33	0.27	0.47	0.25	0.22	0.27	0.29	0.31	0.22	0.41	0.46	0.47	0.38
Cr ₂ O ₃																			
NiO																			
BaO	0.09	0.07	0.06	0.11	0.07	0.12	0.06	0.12	0.08	0.15	0.17	0.07	0.11	0.07	0.18	0.05	0.10	0.00	0.09
Total	98.78	99.36	99.41	100.23	100.14	100.32	99.93	99.57	99.68	99.45	99.27	99.27	99.98	99.04	99.26	99.02	99.09	99.85	98.81
<i>Structural formula per 8 O</i>																			
Si	2.24	2.26	2.28	2.41	2.41	2.43	2.36	2.31	2.42	2.31	2.31	2.32	2.29	2.32	2.31	2.44	2.46	2.43	2.41
Al	1.65	1.74	1.72	1.60	1.59	1.58	1.64	1.69	1.58	1.68	1.69	1.68	1.72	1.69	1.68	1.56	1.55	1.59	1.60
Ti	0.00	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	0.00
Fe ²⁺ _T	0.15	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01
Mn	0.00	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	0.00
Mg	0.16	0.00	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
Ca	0.59	0.71	0.70	0.58	0.58	0.56	0.63	0.68	0.56	0.68	0.68	0.67	0.67	0.63	0.70	0.55	0.53	0.54	0.58
Na	0.29	0.25	0.26	0.35	0.35	0.38	0.32	0.27	0.38	0.28	0.27	0.29	0.28	0.32	0.27	0.39	0.41	0.39	0.36
K	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.01	0.01	0.02	0.02	0.02	0.01	0.02	0.03	0.03	0.02
Cr	0.00	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	0.00
Ni	0.00	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	0.00
Ba	0.00	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	0.00
Total	5.09	5.01	5.00	4.98	4.98	4.98	4.99	4.98	4.99	4.99	4.99	4.99	5.00	5.00	4.99	4.99	4.99	4.99	4.99
An #	67	74	73	62	63	60	66	72	60	71	72	70	71	67	72	59	56	58	62
An	65.96	72.56	71.67	60.83	61.05	58.30	64.85	70.59	57.97	69.54	70.76	68.80	69.33	65.45	71.47	57.10	54.90	56.16	60.59
Ab	32.77	25.95	26.88	36.54	36.52	39.19	33.15	27.77	39.19	28.95	27.92	29.59	28.93	32.64	27.24	40.45	42.32	41.03	37.13
Or	1.27	1.49	1.45	2.64	2.43	2.52	2.00	1.64	2.85	1.51	1.31	1.61	1.74	1.91	1.30	2.46	2.78	2.81	2.28
Name	Lab.	Byt.	Byt.	Lab.	Lab.	Lab.	Lab.	Byt.	Lab.	Byt.	Byt.	Lab.	Byt.	Lab.	Byt.	Lab.	Lab.	Lab.	Lab.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD47 FOG													TOD26 FG					
Point	8/5	8/6	9/1	9/2	9/3	9/4	9/5	17/24	17/1	17/2	17/3	17/4	17/5	1/10 C	1/11 R	4/13	7/1	7/2	7/3
SiO ₂	53.59	52.02	50.54	52.69	53.37	52.86	50.84	50.18	50.45	50.90	50.15	51.87	52.89	51.54	58.37	52.33	56.39	55.55	53.85
TiO ₂								0.13						0.11	0.14	0.11			
Al ₂ O ₃	29.51	30.84	31.04	29.91	29.11	29.86	30.55	29.64	30.98	30.76	31.16	30.02	29.60	30.07	26.73	29.98	27.34	27.77	28.83
FeO _T	0.38	0.43	0.46	0.42	0.48	0.44	0.44	0.43	0.73	0.59	0.51	0.51	0.55	0.24	0.25	0.23	0.32	0.32	0.27
MnO								0.00						0.02	0.00	0.00			
MgO	0.05	0.04	0.02	0.03	0.03	0.01	0.00	0.02	0.02	0.03	0.02	0.04	0.03	0.01	0.01	0.01	0.01	0.00	0.02
CaO	10.71	13.50	13.77	12.62	12.14	11.49	13.50	14.34	13.76	13.58	14.08	12.67	10.95	13.48	8.90	12.69	9.30	9.78	11.08
Na ₂ O	4.72	3.25	3.11	3.82	3.91	4.24	3.27	3.49	3.20	3.26	3.03	3.73	4.65	3.81	5.65	4.11	5.36	5.17	4.55
K ₂ O	0.51	0.26	0.27	0.34	0.40	0.32	0.30	0.28	0.27	0.26	0.26	0.32	0.48	0.31	0.82	0.37	0.69	0.69	0.50
Cr ₂ O ₃								0.00						0.00	0.01	0.00			
NiO								0.00						0.00	0.00	0.00			
BaO	0.07	0.18	0.09	0.07	0.07	0.09	0.12	0.02	0.05	0.12	0.04	0.05	0.11	0.01	0.07	0.00	0.18	0.13	0.08
Total	99.53	100.51	99.30	99.90	99.52	99.30	99.01	98.53	99.46	99.50	99.26	99.21	99.26	99.62	100.94	99.84	99.58	99.41	99.18
<i>Structural formula per 8 O</i>																			
Si	2.43	2.35	2.32	2.39	2.43	2.41	2.34	2.33	2.32	2.33	2.30	2.38	2.42	2.36	2.59	2.38	2.55	2.52	2.45
Al	1.58	1.64	1.68	1.60	1.56	1.60	1.66	1.62	1.68	1.66	1.69	1.62	1.59	1.62	1.40	1.61	1.46	1.48	1.55
Ti	0.00	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	0.00
Fe ²⁺ _T	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Mn	0.00	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	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	0.00	0.00	0.00
Ca	0.52	0.65	0.68	0.61	0.59	0.56	0.67	0.71	0.68	0.67	0.69	0.62	0.54	0.66	0.42	0.62	0.45	0.48	0.54
Na	0.42	0.29	0.28	0.34	0.35	0.37	0.29	0.31	0.28	0.29	0.27	0.33	0.41	0.34	0.49	0.36	0.47	0.45	0.40
K	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.05	0.02	0.04	0.04	0.03
Cr	0.00	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	0.00
Ni	0.00	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	0.00
Ba	0.00	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	0.00
Total	5.00	4.97	4.99	4.98	4.97	4.99	4.99	5.02	5.00	4.99	4.99	4.99	5.01	5.01	4.97	5.00	4.98	4.99	4.99
An #	56	70	71	65	63	60	70	69	70	70	72	65	57	66	47	63	49	51	57
An	53.94	68.55	69.83	63.32	61.63	58.80	68.28	68.32	69.24	68.62	70.83	64.00	54.93	64.98	44.28	61.70	46.93	48.99	55.64
Ab	43.02	29.87	28.54	34.68	35.92	39.27	29.93	30.09	29.14	29.81	27.58	34.09	42.21	33.24	50.87	36.16	48.94	46.87	41.35
Or	3.05	1.58	1.63	2.00	2.45	1.93	1.79	1.59	1.63	1.57	1.58	1.91	2.86	1.78	4.86	2.14	4.13	4.14	3.01
Name	Lab.	Lab.	Byt.	Lab.	Lab.	Lab.	Lab.	Lab.	Byt.	Lab.	Byt.	Lab.	Lab.	Lab.	And.	Lab.	And.	Lab.	Lab.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD26 FG																		
Point	7/4	7/5	7/6	7/7	7/8	7/9	10/19	12/20 C	12/21 R	12/1	12/2	12/3	12/4	12/5	12/6	12/7	12/8	12/9	12/10
SiO ₂	52.16	56.69	52.81	52.68	51.88	52.38	51.73	52.41	56.55	52.05	52.26	52.81	54.16	51.63	52.68	51.82	51.03	51.96	50.88
TiO ₂							0.09	0.12	0.13										
Al ₂ O ₃	30.13	26.91	29.83	30.04	30.42	30.35	30.57	30.01	28.42	30.77	30.59	30.19	28.64	30.40	30.24	30.59	30.77	30.44	31.35
FeO _T	0.26	0.31	0.24	0.25	0.20	0.29	0.27	0.23	0.20	0.23	0.26	0.25	0.25	0.26	0.24	0.28	0.22	0.27	0.34
MnO							0.01	0.00	0.00										
MgO	0.00	0.00	0.02	0.02	0.03	0.00	0.03	0.02	0.01	0.03	0.04	0.00	0.00	0.04	0.00	0.07	0.00	0.04	0.01
CaO	12.61	8.96	12.06	12.29	12.76	12.68	13.59	13.17	10.75	13.03	12.75	12.38	10.56	12.56	12.46	12.65	13.18	12.67	13.50
Na ₂ O	3.80	5.36	4.15	3.90	3.66	3.57	3.71	3.75	4.70	3.56	3.78	3.82	4.87	3.79	3.81	3.70	3.52	3.72	3.26
K ₂ O	0.36	0.78	0.36	0.31	0.34	0.35	0.30	0.36	0.55	0.32	0.33	0.38	0.51	0.31	0.38	0.27	0.32	0.34	0.27
Cr ₂ O ₃							0.00	0.01	0.00										
NiO							0.01	0.00	0.00										
BaO	0.11	0.06	0.07	0.07	0.13	0.06	0.01	0.00	0.03	0.15	0.20	0.14	0.03	0.05	0.06	0.11	0.09	0.10	0.12
Total	99.43	99.06	99.54	99.57	99.41	99.68	100.32	100.09	101.35	100.13	100.20	99.97	99.02	99.04	99.87	99.48	99.13	99.54	99.73
<i>Structural formula per 8 O</i>																			
Si	2.38	2.57	2.40	2.40	2.37	2.38	2.35	2.38	2.51	2.36	2.37	2.39	2.47	2.37	2.39	2.36	2.34	2.37	2.32
Al	1.62	1.44	1.60	1.61	1.64	1.63	1.64	1.61	1.49	1.64	1.63	1.61	1.54	1.64	1.62	1.64	1.66	1.64	1.69
Ti	0.00	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	0.00
Fe ²⁺ _T	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	0.01
Mn	0.00	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	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	0.00	0.00	0.00
Ca	0.62	0.44	0.59	0.60	0.62	0.62	0.66	0.64	0.51	0.63	0.62	0.60	0.52	0.62	0.61	0.62	0.65	0.62	0.66
Na	0.34	0.47	0.37	0.34	0.32	0.31	0.33	0.33	0.40	0.31	0.33	0.34	0.43	0.34	0.34	0.33	0.31	0.33	0.29
K	0.02	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
Cr	0.00	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	0.00
Ni	0.00	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	0.00
Ba	0.00	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	0.00
Total	4.99	4.97	4.99	4.98	4.99	4.97	5.00	4.99	4.96	4.98	4.99	4.98	4.99	4.99	4.98	4.99	4.99	4.99	4.99
An #	65	48	62	64	66	66	67	66	56	67	65	64	55	65	64	65	67	65	70
An	63.30	45.74	60.31	62.33	64.48	64.85	65.78	64.61	53.99	65.64	63.82	62.69	52.85	63.46	62.89	64.33	66.12	63.96	68.44
Ab	34.52	49.52	37.55	35.79	33.47	33.04	32.49	33.29	42.72	32.45	34.24	35.01	44.11	34.65	34.80	34.05	31.95	33.98	29.91
Or	2.18	4.75	2.14	1.88	2.05	2.11	1.73	2.10	3.29	1.91	1.95	2.30	3.04	1.89	2.31	1.61	1.93	2.05	1.65
Name	Lab.	And.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD13C FMG																		
Point	2/1 R	2/3 C	4/6 R1	4/7 R2	4/8 R3 4/1	4/2	4/3	4/4	4/5	4/6	4/7	4/8	10/7 C 10/1	10/2	10/3	10/4	10/5		
SiO ₂	51.81	52.85	62.61	53.00	61.19	52.94	52.90	64.27	64.55	60.47	60.17	53.83	59.10	52.73	53.30	53.12	53.35	53.22	53.09
TiO ₂	0.12	0.13	0.09	0.12	0.11								0.11						
Al ₂ O ₃	28.95	28.49	23.21	27.70	23.39	29.61	29.65	19.19	19.01	24.79	24.23	28.45	25.31	29.67	28.96	29.04	29.06	29.59	29.82
FeO _T	0.31	0.35	0.40	0.31	0.34	0.32	0.25	0.26	0.16	0.40	0.31	0.39	0.43	0.31	0.40	0.31	0.37	0.32	0.36
MnO	0.02	0.00	0.00	0.00	0.00									0.01					
MgO	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.00	0.08	0.05	0.03	0.02	0.03	0.02	0.01	0.01	0.01	0.01	0.00
CaO	12.82	12.66	5.61	12.24	6.26	11.97	12.06	0.93	0.50	6.78	5.57	11.68	6.82	12.50	11.63	11.75	11.67	11.81	11.97
Na ₂ O	4.34	4.25	6.37	4.58	6.27	4.03	3.90	1.62	1.02	6.12	6.90	4.96	6.19	4.27	4.41	4.52	4.54	4.10	4.11
K ₂ O	0.30	0.36	1.60	0.32	1.21	0.26	0.25	13.28	14.51	0.68	1.48	0.43	1.21	0.26	0.36	0.39	0.43	0.38	0.36
Cr ₂ O ₃	0.00	0.00	0.00	0.00	0.00									0.00					
NiO	0.00	0.00	0.00	0.00	0.01									0.01					
BaO	0.01	0.02	0.15	0.02	0.09	0.12	0.11	0.32	0.22	0.13	0.22	0.10	0.15	0.01	0.10	0.12	0.00	0.16	0.01
Total	98.70	99.12	100.07	98.29	98.88	99.27	99.14	99.87	100.06	99.42	98.92	99.86	99.24	99.91	99.16	99.26	99.43	99.58	99.73
<i>Structural formula per 8 O</i>																			
Si	2.39	2.42	2.78	2.45	2.75	2.41	2.41	2.96	2.97	2.70	2.72	2.45	2.66	2.58	2.43	2.43	2.43	2.42	2.41
Al	1.57	1.54	1.22	1.51	1.24	1.59	1.59	1.04	1.03	1.31	1.29	1.52	1.34	1.42	1.56	1.56	1.56	1.59	1.60
Ti	0.00	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	0.00	0.00	0.00
Fe ²⁺ _T	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.01
Mn	0.00	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	0.00
Mg	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	0.00
Ca	0.63	0.62	0.27	0.61	0.30	0.58	0.59	0.05	0.02	0.32	0.27	0.57	0.33	0.44	0.57	0.58	0.57	0.58	0.58
Na	0.39	0.38	0.55	0.41	0.55	0.36	0.34	0.14	0.09	0.53	0.60	0.44	0.54	0.44	0.39	0.40	0.40	0.36	0.36
K	0.02	0.02	0.09	0.02	0.07	0.02	0.01	0.78	0.85	0.04	0.09	0.02	0.07	0.03	0.02	0.02	0.03	0.02	0.02
Cr	0.00	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	0.00
Ni	0.00	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	0.00
Ba	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	0.00	0.00
Total	5.02	5.00	4.93	5.01	4.93	4.98	4.97	4.98	4.99	4.93	4.98	5.02	4.97	4.94	4.99	5.00	5.00	4.98	4.98
An #	62	62	33	60	36	62	63	24	21	38	31	57	38	62	59	59	59	61	62
An	60.96	60.93	29.46	58.54	32.87	61.14	62.11	4.73	2.53	36.33	28.11	55.18	35.04	60.87	58.04	57.61	57.20	60.02	60.33
Ab	37.34	37.01	60.54	39.64	59.57	37.25	36.35	14.90	9.43	59.34	63.00	42.40	57.56	37.63	39.83	40.10	40.27	37.70	37.49
Or	1.70	2.06	10.00	1.82	7.56	1.60	1.54	80.37	88.04	4.33	8.89	2.42	7.40	1.51	2.13	2.29	2.53	2.28	2.18
Name	Lab.	Lab.	And.	Lab.	And.	Lab.	Lab.	Orth.	Orth.	And.	And.	Lab.	And.	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD13C FMG						TOD53 FMOG					TOD75 FL			TOD55 Pegmatite			
Point	10/6	10/7	10/8	10/9	10/10	10/11	9/5 R2	9/6 R1	1/13 R1	1/14 R2	1/15 R3	1/25	1/26	6/30	2/3 R2	2/4 R1	2/5 C	4/7
SiO ₂	54.70	53.90	52.96	53.87	54.36	53.48	57.46	57.63	60.15	52.54	55.12	55.59	57.18	56.04	51.87	51.74	51.80	52.80
TiO ₂							0.11	0.11	0.10	0.13	0.12	0.13	0.10	0.13	0.10	0.09	0.09	0.11
Al ₂ O ₃	27.72	28.16	29.45	29.37	28.47	28.59	25.56	26.00	25.18	29.16	27.76	26.29	25.49	26.52	29.32	29.04	29.31	29.50
FeO _T	0.35	0.28	0.36	0.30	0.33	0.35	0.53	0.45	0.32	0.31	0.38	0.41	0.43	0.38	0.49	0.52	0.63	0.58
MnO							0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
MgO	0.00	0.02	0.02	0.01	0.01	0.01	0.04	0.03	0.02	0.35	0.02	0.04	0.03	0.02	0.08	0.06	0.08	0.07
CaO	10.73	11.42	11.84	11.69	10.63	10.91	8.52	8.79	7.35	12.50	10.88	10.00	8.93	10.20	13.15	13.24	13.37	13.36
Na ₂ O	5.18	4.76	4.06	4.11	5.26	4.78	6.49	6.45	7.03	4.43	5.39	5.58	5.91	5.35	4.17	4.21	3.99	4.01
K ₂ O	0.52	0.43	0.33	0.36	0.56	0.37	0.75	0.70	1.06	0.30	0.44	0.64	0.81	0.65	0.22	0.23	0.22	0.24
Cr ₂ O ₃							0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00
NiO							0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00
BaO	0.13	0.10	0.04	0.03	0.14	0.10	0.05	0.06	0.04	0.00	0.04	0.05	0.07	0.06	0.02	0.01	0.00	0.00
Total	99.32	99.07	99.05	99.74	99.76	98.58	99.51	100.22	101.28	99.71	100.16	98.73	98.96	99.37	99.44	99.14	99.51	100.66
<i>Structural formula per 8 O</i>																		
Si	2.49	2.46	2.42	2.44	2.47	2.45	2.60	2.59	2.66	2.40	2.49	2.54	2.60	2.55	2.38	2.38	2.37	2.39
Al	1.49	1.52	1.59	1.57	1.52	1.55	1.36	1.38	1.31	1.57	1.48	1.42	1.37	1.42	1.58	1.57	1.58	1.57
Ti	0.00	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
Fe ²⁺ _T	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.02
Mn	0.00	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
Mg	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	0.01	0.00	0.01	0.00
Ca	0.52	0.56	0.58	0.57	0.52	0.54	0.41	0.42	0.35	0.61	0.53	0.49	0.44	0.50	0.65	0.65	0.66	0.65
Na	0.46	0.42	0.36	0.36	0.46	0.43	0.57	0.56	0.60	0.39	0.47	0.50	0.52	0.47	0.37	0.38	0.35	0.35
K	0.03	0.03	0.02	0.02	0.03	0.02	0.04	0.04	0.06	0.02	0.03	0.04	0.05	0.04	0.01	0.01	0.01	0.01
Cr	0.00	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
Ni	0.00	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
Ba	0.00	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
Total	5.01	5.00	4.98	4.97	5.02	5.00	5.02	5.02	5.01	5.02	5.01	5.01	5.00	4.99	5.02	5.02	5.01	5.00
An #	53	57	62	61	53	56	42	43	37	61	53	50	46	51	64	63	65	65
An	51.79	55.57	60.48	59.79	51.08	54.54	40.27	41.28	34.45	59.88	51.42	47.94	43.37	49.38	62.74	62.65	64.12	63.92
Ab	45.24	41.92	37.53	38.04	45.74	43.24	55.51	54.81	59.63	38.41	46.10	48.41	51.94	46.87	36.01	36.05	34.63	34.72
Or	2.97	2.51	1.99	2.17	3.18	2.22	4.22	3.91	5.92	1.71	2.48	3.65	4.68	3.75	1.25	1.30	1.26	1.37
Name	Lab.	Lab.	Lab.	Lab.	Lab.	Lab.	And.	And.	And.	Lab.	Lab.	And.	And.	Lab.	Lab.	Lab.	Lab.	Lab.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD64 Bostonite																			
Point	2/1	2/2	2/3	2/4	2/5	3/1	3/2	3/3	3/4	3/5	11/1	11/2	11/3	11/4	11/5	13/1	13/2	13/3	13/4	
SiO ₂	64.34	64.51	63.53	65.53	64.72	64.71	64.99	64.52	63.76	64.17	65.01	65.10	64.98	65.20	64.96	64.77	64.42	64.49	65.88	
TiO ₂																				
Al ₂ O ₃	21.87	21.70	21.21	22.20	21.74	20.97	21.42	21.58	22.02	21.70	21.51	21.38	21.17	20.98	21.15	21.85	22.32	22.18	21.37	
FeO _T	0.35	0.21	0.41	0.51	0.39	0.28	0.25	0.30	0.37	0.41	0.29	0.30	0.30	0.26	0.30	0.41	0.43	0.17	0.45	
MnO																				
MgO	0.01	0.00	0.01	0.07	0.01	0.00	0.02	0.02	0.01	0.01	0.00	0.04	0.02	0.00	0.00	0.01	0.02	0.00	0.00	
CaO	2.43	2.34	2.25	2.33	2.45	2.50	2.11	2.49	2.86	2.76	2.39	2.10	1.82	1.72	1.91	2.58	2.81	2.72	1.82	
Na ₂ O	8.76	9.08	8.82	8.22	8.84	7.95	8.77	8.52	8.59	8.48	8.69	8.88	8.83	8.68	8.71	8.45	8.52	8.64	8.68	
K ₂ O	1.27	1.19	1.62	1.34	1.26	2.77	1.66	1.45	1.37	1.34	1.33	1.50	1.79	2.12	1.94	1.26	1.09	1.23	2.11	
Cr ₂ O ₃																				
NiO																				
BaO	0.37	0.43	0.43	0.31	0.35	0.39	0.36	0.27	0.37	0.42	0.33	0.30	0.32	0.29	0.23	0.29	0.32	0.37	0.40	
Total	99.39	99.47	98.27	100.51	99.76	99.57	99.57	99.15	99.35	99.28	99.55	99.61	99.23	99.25	99.21	99.63	99.93	99.81	100.71	
<i>Structural formula per 8 O</i>																				
Si	2.86	2.87	2.87	2.88	2.87	2.89	2.89	2.88	2.85	2.86	2.89	2.89	2.90	2.91	2.90	2.87	2.85	2.86	2.90	
Al	1.15	1.14	1.13	1.15	1.14	1.10	1.12	1.13	1.16	1.14	1.13	1.12	1.11	1.10	1.11	1.14	1.16	1.16	1.11	
Ti	0.00	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	0.00	
Fe ²⁺ _T	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.02	
Mn	0.00	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	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	0.00	0.00	0.00	
Ca	0.12	0.11	0.11	0.11	0.12	0.12	0.10	0.12	0.14	0.13	0.11	0.10	0.09	0.08	0.09	0.12	0.13	0.13	0.09	
Na	0.76	0.78	0.77	0.70	0.76	0.69	0.76	0.74	0.74	0.73	0.75	0.76	0.76	0.75	0.75	0.73	0.73	0.74	0.74	
K	0.07	0.07	0.09	0.08	0.07	0.16	0.09	0.08	0.08	0.08	0.08	0.08	0.10	0.12	0.11	0.07	0.06	0.07	0.12	
Cr	0.00	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	0.00	
Ni	0.00	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	0.00	
Ba	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	
Total	4.98	4.99	5.00	4.94	4.98	4.98	4.98	4.97	4.98	4.97	4.96	4.98	4.98	4.98	4.98	4.96	4.96	4.97	4.98	
An #	13	12	12	14	13	15	12	14	16	15	13	12	10	10	11	14	15	15	10	
An	12.28	11.59	11.17	12.39	12.28	12.39	10.57	12.68	14.27	14.01	12.13	10.52	9.13	8.62	9.56	13.32	14.39	13.72	9.08	
Ab	80.08	81.39	79.25	79.12	80.20	71.28	79.52	78.53	77.58	77.89	79.83	80.53	80.17	78.73	78.88	78.94	78.95	78.89	78.38	
Or	7.64	7.02	9.58	8.49	7.52	16.34	9.90	8.79	8.14	8.10	8.04	8.95	10.69	12.65	11.56	7.74	6.66	7.39	12.54	
Name	Olig.	Olig.	Olig.	Olig.	Olig.	Olig.	Olig.	Olig.	Olig.	Olig.	Olig.	Olig.	Ano.	Ano.	Ano.	Olig.	Olig.	Olig.	Ano.	

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD64 Bostonite										TOD84 Bostonite									
	Point	14/1	14/2	14/3	14/4	14/5	14/6	14/7	14/8	14/9	14/10	1/1	1/2	1/3	1/4	1/5	2/1	2/2	2/3	2/4
SiO ₂		65.05	65.98	65.82	65.72	66.43	66.73	66.40	67.54	67.28	67.60	67.34	67.65	66.70	67.33	66.87	63.64	66.02	63.75	64.81
TiO ₂																				
Al ₂ O ₃		20.68	20.35	20.20	20.52	20.91	20.96	20.20	20.41	20.45	20.23	19.88	19.83	19.85	19.80	19.72	19.45	19.37	18.74	18.47
FeO _T		0.30	0.29	0.26	0.29	0.18	0.38	0.31	0.23	0.22	0.03	0.27	0.33	0.29	0.43	0.25	0.07	0.43	0.04	0.04
MnO																				
MgO		0.00	0.03	0.01	0.02	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.01	0.03	0.02	0.01	0.00	0.00	0.00	0.01
CaO		1.35	1.41	1.29	1.42	1.25	1.04	1.14	0.67	0.49	0.59	0.28	0.28	0.35	0.27	0.29	0.07	0.18	0.03	0.04
Na ₂ O		9.63	7.74	8.03	8.19	10.04	9.58	8.40	10.17	10.35	10.55	11.96	11.82	11.81	11.09	11.94	0.40	7.05	0.96	0.97
K ₂ O		0.88	3.64	3.25	2.89	0.48	0.93	3.37	0.48	0.49	0.29	0.17	0.24	0.13	0.18	0.11	15.79	6.12	15.26	14.86
Cr ₂ O ₃																				
NiO																				
BaO		0.30	0.39	0.28	0.30	0.16	0.12	0.19	0.30	0.19	0.13	0.05	0.08	0.13	0.16	0.10	0.36	0.26	0.32	0.37
Total		98.20	99.83	99.15	99.35	99.46	99.77	100.04	99.82	99.47	99.43	99.95	100.25	99.29	99.28	99.29	99.79	99.42	99.10	99.56
<i>Structural formula per 8 O</i>																				
Si		2.92	2.94	2.94	2.93	2.93	2.93	2.94	2.96	2.96	2.97	2.96	2.96	2.95	2.97	2.96	2.95	2.97	2.97	3.00
Al		1.09	1.07	1.06	1.08	1.09	1.09	1.06	1.06	1.06	1.05	1.03	1.02	1.04	1.03	1.03	1.06	1.03	1.03	1.01
Ti		0.00	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	0.00
Fe ²⁺ _T		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	0.02	0.01	0.00	0.02	0.00	0.00
Mn		0.00	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	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	0.00	0.00	0.00
Ca		0.07	0.07	0.06	0.07	0.06	0.05	0.05	0.03	0.02	0.03	0.01	0.01	0.02	0.01	0.01	0.00	0.01	0.00	0.00
Na		0.84	0.67	0.70	0.71	0.86	0.82	0.72	0.87	0.88	0.90	1.02	1.00	1.01	0.95	1.02	0.04	0.62	0.09	0.09
K		0.05	0.21	0.19	0.16	0.03	0.05	0.19	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.93	0.35	0.91	0.88
Cr		0.00	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	0.00
Ni		0.00	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	0.00
Ba		0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01
Total		4.98	4.97	4.97	4.97	4.97	4.96	4.98	4.96	4.97	4.96	5.04	5.03	5.04	4.99	5.04	5.00	5.00	5.01	4.98
An #		7	9	8	9	6	6	7	4	3	3	1	1	2	1	1	9	1	2	2
An		6.83	7.14	6.56	7.21	6.27	5.34	5.59	3.43	2.47	2.97	1.25	1.29	1.58	1.33	1.32	0.38	0.89	0.14	0.19
Ab		87.89	70.92	73.79	75.30	90.89	88.96	74.70	93.64	94.57	95.30	97.81	97.38	97.71	97.62	98.07	3.72	63.08	8.71	8.97
Or		5.29	21.94	19.65	17.48	2.85	5.70	19.72	2.93	2.97	1.73	0.94	1.33	0.71	1.05	0.60	95.90	36.03	91.14	90.84
Name		Ab.	Ano.	Ano.	Ano.	Ab.	Ab.	Ano.	Ab.	Ab.	Ab.	Alb.	Alb.	Alb.	Alb.	Alb.	Orth.	Ancl.	Orth.	Orth.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD84 Bostonite																			
	Point	2/5	4/1	4/2	4/3	4/4	4/5	9/1	9/2	9/3	9/4	9/5	10/1	10/2	10/3	10/4	10/5	10/6	10/7	10/8
SiO ₂		63.81	63.59	63.44	64.02	64.04	64.82	67.84	68.12	68.32	67.53	67.31	63.93	62.92	63.16	63.57	63.44	60.17	63.59	62.98
TiO ₂																				
Al ₂ O ₃		18.51	18.85	18.68	18.17	18.16	17.48	19.99	20.14	19.86	19.60	19.37	18.06	15.43	18.88	18.96	18.14	16.95	18.12	17.71
FeO _T		0.05	0.20	0.74	0.22	0.34	1.23	0.69	0.18	0.08	0.27	0.39	0.33	5.77	0.44	0.57	0.44	6.86	0.45	1.69
MnO																				
MgO		0.01	0.00	0.05	0.01	0.02	0.11	0.00	0.01	0.00	0.03	0.63	0.01	0.93	0.31	0.04	0.03	0.19	0.02	0.11
CaO		0.04	0.02	0.32	0.02	0.13	0.16	0.23	0.15	0.18	0.32	0.66	0.03	1.77	0.09	0.04	0.03	0.07	0.38	0.43
Na ₂ O		0.38	0.48	0.49	0.64	1.15	0.45	10.67	10.79	10.93	10.63	10.70	0.76	2.99	0.44	0.54	0.46	0.60	2.55	1.85
K ₂ O		16.17	16.18	15.68	15.96	14.55	15.46	0.10	0.26	0.09	0.13	0.08	15.57	9.73	15.67	15.54	15.63	14.41	14.57	14.48
Cr ₂ O ₃																				
NiO																				
BaO		0.47	0.24	0.21	0.32	0.09	0.25	0.06	0.00	0.09	0.00	0.12	0.09	0.25	0.12	0.47	0.60	0.23	0.22	0.17
Total		99.44	99.55	99.60	99.36	98.47	99.95	99.58	99.65	99.56	98.51	99.27	98.78	99.78	99.11	99.72	98.76	99.48	99.90	99.42
<i>Structural formula per 8 O</i>																				
Si		2.98	2.97	2.96	2.99	2.99	3.01	2.98	2.98	2.99	2.99	2.97	2.99	2.95	2.95	2.96	2.98	2.90	2.96	2.96
Al		1.02	1.04	1.03	1.00	1.00	0.96	1.03	1.04	1.02	1.02	1.01	1.00	0.85	1.04	1.04	1.01	0.96	0.99	0.98
Ti		0.00	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	0.00
Fe ²⁺ _T		0.00	0.01	0.03	0.01	0.01	0.05	0.03	0.01	0.00	0.01	0.01	0.01	0.23	0.02	0.02	0.02	0.28	0.02	0.07
Mn		0.00	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	0.00
Mg		0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.06	0.02	0.00	0.00	0.01	0.00	0.01
Ca		0.00	0.00	0.02	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.00	0.09	0.00	0.00	0.00	0.00	0.02	0.02
Na		0.03	0.04	0.04	0.06	0.10	0.04	0.91	0.92	0.93	0.91	0.92	0.07	0.27	0.04	0.05	0.04	0.06	0.23	0.17
K		0.96	0.96	0.93	0.95	0.87	0.92	0.01	0.01	0.01	0.01	0.00	0.93	0.58	0.93	0.92	0.94	0.88	0.87	0.87
Cr		0.00	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	0.00
Ni		0.00	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	0.00
Ba		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	0.01	0.01	0.00	0.00	0.00
Total		5.01	5.02	5.02	5.01	4.99	4.99	4.96	4.96	4.96	4.96	4.99	5.01	5.05	5.01	5.01	5.00	5.09	5.09	5.07
An #		6	2	27	2	6	16	1	1	1	2	3	2	25	10	4	3	6	8	11
An		0.22	0.07	1.61	0.10	0.65	0.81	1.18	0.74	0.91	1.63	3.30	0.15	9.43	0.48	0.19	0.15	0.39	1.68	2.04
Ab		3.48	4.32	4.43	5.77	10.69	4.24	98.21	97.68	98.55	97.61	96.20	6.86	28.83	4.10	5.04	4.23	5.93	20.66	15.93
Or		96.29	95.61	93.97	94.12	88.65	94.96	0.61	1.57	0.54	0.76	0.50	92.99	61.73	95.42	94.77	95.62	93.68	77.66	82.03
Name		Orth.	Orth.	Orth.	Orth.	Orth.	Orth.	Alb.	Alb.	Alb.	Alb.	Alb.	Orth.	Orth.	Orth.	Orth.	Orth.	Orth.	Orth.	Orth.

Table C. 2. Microprobe analyses of feldspars in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD10 Dolerite															
Point	1/1	1/2	1/3	1/4	2/1	2/2	2/3	2/4	2/5	8/1	8/2	8/3	8/4	8/5	11/1	11/2
SiO ₂	47.72	47.53	48.05	48.35	47.26	47.02	47.39	47.27	48.42	47.09	50.53	46.97	46.95	47.09	46.85	46.95
TiO ₂																
Al ₂ O ₃	32.77	32.89	32.51	32.35	32.87	32.83	32.83	32.90	32.20	33.17	24.47	33.24	33.31	33.09	33.24	33.18
FeO _T	0.96	0.87	0.87	0.89	0.94	0.92	0.89	0.96	0.89	0.96	4.71	0.98	0.84	0.99	0.91	0.99
MnO																
MgO	0.29	0.23	0.26	0.27	0.24	0.22	0.23	0.27	0.25	0.20	2.31	0.21	0.23	0.25	0.23	0.21
CaO	16.16	16.36	16.02	15.57	16.18	16.57	16.21	16.17	15.49	16.39	13.09	16.44	16.49	16.34	16.52	16.48
Na ₂ O	1.76	1.77	1.86	2.05	1.86	1.79	1.85	1.75	2.14	1.64	2.95	1.52	1.70	1.75	1.74	1.63
K ₂ O	0.07	0.07	0.08	0.07	0.07	0.10	0.07	0.07	0.08	0.05	0.83	0.17	0.05	0.07	0.06	0.06
Cr ₂ O ₃																
NiO																
BaO	0.04	0.08	0.03	0.09	0.08	0.01	0.16	0.10	0.08	0.09	0.12	0.09	0.07	0.05	0.06	0.10
Total	99.77	99.81	99.67	99.63	99.50	99.47	99.63	99.50	99.55	99.59	99.01	99.61	99.65	99.63	99.60	99.59
<i>Structural formula per 8 O</i>																
Si	2.20	2.19	2.21	2.23	2.19	2.18	2.19	2.19	2.23	2.18	2.39	2.17	2.17	2.18	2.17	2.17
Al	1.78	1.79	1.76	1.76	1.79	1.79	1.79	1.79	1.75	1.81	1.36	1.81	1.81	1.80	1.81	1.81
Ti	0.00	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
Fe ²⁺ _T	0.04	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.03	0.04	0.19	0.04	0.03	0.04	0.04	0.04
Mn	0.00	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
Mg	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.16	0.01	0.02	0.02	0.02	0.01
Ca	0.80	0.81	0.79	0.77	0.80	0.82	0.80	0.80	0.76	0.81	0.66	0.81	0.82	0.81	0.82	0.82
Na	0.16	0.16	0.17	0.18	0.17	0.16	0.17	0.16	0.19	0.15	0.27	0.14	0.15	0.16	0.16	0.15
K	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00
Cr	0.00	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
Ni	0.00	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
Ba	0.00	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
Total	4.99	5.00	4.99	4.99	5.00	5.01	5.00	5.00	4.99	5.00	5.09	5.00	5.00	5.00	5.01	5.00
An #	84	84	83	81	83	84	83	84	80	85	71	86	84	84	84	85
An	83.16	83.28	82.25	80.42	82.43	83.13	82.52	83.25	79.61	84.42	67.43	84.78	84.01	83.43	83.69	84.53
Ab	16.39	16.30	17.28	19.16	17.15	16.25	17.04	16.30	19.90	15.29	27.50	14.18	15.67	16.17	15.95	15.13
Or	0.45	0.42	0.47	0.42	0.42	0.62	0.44	0.45	0.49	0.29	5.08	1.04	0.32	0.40	0.35	0.34
Name	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.	Byt.

Rock unit abbreviations are as in Table A. C = core; R = rim; I. = interstice; Rep. = repeat analysis; Ab. = albite; Lab. = labradorite; And. = andesine; Byt. = bytownite; Olig. = oligoclase; Orth. = orthoclase; Ano. = anorthoclase. An # = 100xCa/(Ca+Na). Data in italics were analysed at the GFZ Potsdam (see Analytical Methods)

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite).

Sample	TOD59 Chilled margin												TOD58 Chilled gabbroic sill					
	1b/23	1/1	1/2	6/1	6/2	6/3	9/1	9/2	10/1	10/2	11/1	11/2	1/1	1/2	1/3	1/4	1/5	4/1
SiO ₂	50.99	51.55	51.49	50.40	51.43	51.49	50.63	51.77	49.31	50.89	50.67	50.76	51.63	50.77	50.60	50.20	49.10	48.26
TiO ₂	1.06	1.03	1.00	1.05	0.97	1.17	1.15	0.91	1.41	1.06	1.16	1.13	1.01	1.11	1.14	1.27	1.60	2.42
Al ₂ O ₃	2.67	2.59	2.65	3.18	2.88	3.26	3.67	2.64	5.03	3.27	3.24	3.46	2.60	3.55	3.29	4.10	4.56	3.32
Fe ₂ O ₃ *	1.94	2.22	2.15	3.90	2.11	0.00	1.88	1.17	3.09	2.58	2.49	2.08	1.02	1.85	1.56	1.03	3.10	3.70
FeO*	5.74	5.29	5.71	4.18	5.88	6.99	5.47	5.92	4.79	4.71	5.08	5.21	6.36	5.25	5.72	6.50	5.49	10.73
FeO _T	7.48	7.29	7.64	7.69	7.78	6.99	7.16	6.97	7.57	7.03	7.32	7.08	7.28	6.91	7.13	7.42	8.28	14.06
MnO	0.13	0.18	0.14	0.17	0.17	0.11	0.13	0.10	0.16	0.12	0.17	0.14	0.14	0.15	0.17	0.15	0.15	0.30
MgO	15.14	15.83	15.69	16.18	16.12	14.87	14.97	16.07	14.91	15.60	15.30	15.09	15.55	15.43	15.10	14.82	14.41	11.53
CaO	21.24	21.12	21.04	20.23	20.08	21.22	21.52	20.79	20.60	21.39	21.49	21.54	20.92	21.11	21.01	20.63	21.01	20.09
Na ₂ O	0.39	0.38	0.36	0.44	0.38	0.34	0.36	0.31	0.48	0.36	0.33	0.40	0.34	0.36	0.38	0.35	0.40	0.55
K ₂ O	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	0.02	0.00	0.00	0.00	0.00
Cr ₂ O ₃	0.51	0.46	0.48	0.69	0.59	0.80	0.69	0.57	0.68	0.79	0.87	0.84	0.46	0.77	0.69	0.87	0.74	0.00
NiO	0.05	0.02	0.04	0.04	0.08	0.07	0.04	0.00	0.03	0.09	0.05	0.01	0.03	0.01	0.02	0.04	0.07	0.00
Total	99.85	100.68	100.75	100.47	100.69	100.32	100.52	100.25	100.50	100.85	100.84	100.66	100.06	100.38	99.69	99.96	100.62	100.91
<i>Structural formula per 4 cations</i>																		
Si	1.89	1.89	1.89	1.85	1.89	1.90	1.87	1.90	1.82	1.87	1.86	1.87	1.91	1.87	1.88	1.86	1.82	1.82
Al	0.12	0.11	0.11	0.14	0.12	0.14	0.16	0.11	0.22	0.14	0.14	0.15	0.11	0.15	0.14	0.18	0.20	0.15
Ti	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.07
Fe ²⁺	0.18	0.16	0.18	0.13	0.18	0.22	0.17	0.18	0.15	0.14	0.16	0.16	0.20	0.16	0.18	0.20	0.17	0.34
Fe ³⁺	0.05	0.06	0.06	0.11	0.06	0.00	0.05	0.03	0.09	0.07	0.07	0.06	0.03	0.05	0.04	0.03	0.09	0.11
Mn	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01
Mg	0.84	0.87	0.86	0.89	0.88	0.82	0.82	0.88	0.82	0.85	0.84	0.83	0.86	0.85	0.84	0.82	0.79	0.65
Ca	0.84	0.83	0.83	0.80	0.79	0.84	0.85	0.82	0.81	0.84	0.85	0.85	0.83	0.83	0.84	0.82	0.83	0.81
Na	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.03	0.03	0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.04
K	0.00	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
Cr	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.01	0.02	0.02	0.03	0.02	0.00
Ni	0.00	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
Total	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
Mg #	78	79	79	79	79	79	79	80	78	80	79	79	79	80	79	78	76	59
Wo	44.12	43.25	43.08	41.50	41.33	44.80	44.89	42.79	43.59	44.03	44.32	44.82	43.37	44.00	44.15	43.85	44.21	42.65
En	43.76	45.10	44.70	46.18	46.17	43.68	43.45	46.02	43.90	44.68	43.90	43.69	44.85	44.75	44.15	43.83	42.19	34.06
Fs	12.13	11.65	12.21	12.31	12.50	11.52	11.66	11.20	12.50	11.29	11.78	11.50	11.78	11.24	11.70	12.31	13.60	23.30
Name	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD58 Chilled gabbroic sill														TOD39 BOM			
Point	4/2	4/3	4/4	4/5	6/1	6/2	6/3	6/4	6/5	12/1	12/2	12/3	12/4	12/5	1/11 C	1/12 R1	1/13 R2	5/19 C
SiO ₂	52.17	50.46	50.55	50.53	48.55	48.49	47.19	50.82	50.64	49.03	49.09	50.81	50.94	50.36	50.94	50.61	49.45	49.49
TiO ₂	0.54	1.31	1.43	1.36	2.02	2.67	3.05	1.47	1.54	2.00	1.74	1.31	1.39	1.60	1.08	1.04	1.32	1.37
Al ₂ O ₃	1.15	2.24	1.97	1.86	4.25	3.74	4.82	2.33	2.32	4.10	4.49	2.38	2.05	2.66	2.43	2.31	3.27	3.37
Fe ₂ O ₃ *	3.01	3.19	2.34	3.05	4.11	2.47	3.91	2.72	2.46	3.29	3.50	2.72	2.51	2.87	2.06	2.67	2.89	2.90
FeO*	7.36	7.50	10.12	9.78	6.23	11.45	9.38	9.03	9.37	7.71	5.59	7.77	9.44	9.13	5.07	4.62	4.10	4.37
FeO _T	10.07	10.37	12.22	12.52	9.93	13.68	12.90	11.48	11.59	10.67	8.74	10.21	11.70	11.71	6.92	7.02	6.70	6.98
MnO	0.26	0.18	0.27	0.26	0.17	0.30	0.27	0.22	0.19	0.14	0.18	0.14	0.26	0.24	0.15	0.15	0.14	0.14
MgO	14.75	14.77	13.12	13.21	13.80	11.49	11.76	14.09	13.85	13.24	14.34	14.53	13.72	13.18	15.18	15.16	14.64	14.54
CaO	21.22	20.08	20.17	20.31	20.69	20.02	20.09	20.24	20.16	20.85	21.08	20.40	20.31	20.74	21.76	21.79	21.88	21.85
Na ₂ O	0.37	0.38	0.46	0.44	0.50	0.53	0.61	0.37	0.40	0.48	0.40	0.41	0.42	0.47	0.36	0.36	0.40	0.42
K ₂ O	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00
Cr ₂ O ₃	0.00	0.06	0.00	0.03	0.08	0.00	0.03	0.01	0.02	0.07	0.41	0.04	0.00	0.00	0.32	0.34	0.74	0.62
NiO	0.00	0.02	0.00	0.00	0.02	0.00	0.01	0.04	0.01	0.00	0.02	0.03	0.00	0.03	0.02	0.04	0.06	0.04
Total	100.84	100.20	100.42	100.83	100.43	101.18	101.11	101.35	100.97	100.92	100.85	100.55	101.05	101.28	99.39	99.11	98.90	99.11
<i>Structural formula per 4 cations</i>																		
Si	1.93	1.88	1.90	1.89	1.81	1.83	1.77	1.88	1.89	1.82	1.81	1.89	1.90	1.87	1.90	1.89	1.85	1.85
Al	0.05	0.10	0.09	0.08	0.19	0.17	0.21	0.10	0.10	0.18	0.20	0.10	0.09	0.12	0.11	0.10	0.14	0.15
Ti	0.01	0.04	0.04	0.04	0.06	0.08	0.09	0.04	0.04	0.06	0.05	0.04	0.04	0.04	0.03	0.03	0.04	0.04
Fe ²⁺	0.23	0.23	0.32	0.31	0.19	0.36	0.29	0.28	0.29	0.24	0.17	0.24	0.29	0.28	0.16	0.14	0.13	0.14
Fe ³⁺	0.08	0.09	0.07	0.09	0.12	0.07	0.11	0.08	0.07	0.09	0.10	0.08	0.07	0.08	0.06	0.08	0.08	0.08
Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00
Mg	0.81	0.82	0.73	0.74	0.77	0.65	0.66	0.78	0.77	0.73	0.79	0.80	0.76	0.73	0.84	0.84	0.82	0.81
Ca	0.84	0.80	0.81	0.82	0.83	0.81	0.81	0.80	0.80	0.83	0.83	0.81	0.81	0.83	0.87	0.87	0.88	0.88
Na	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
K	0.00	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
Cr	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	0.01	0.01	0.02	0.02
Ni	0.00	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
Total	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
Mg#	72	72	66	65	71	60	62	69	68	69	75	72	68	67	80	79	80	79
Wo	42.78	41.21	42.05	41.91	43.43	42.88	43.18	41.47	41.59	43.80	44.05	41.99	41.85	43.01	45.07	45.06	46.08	45.97
En	41.37	42.18	38.06	37.93	40.30	34.24	35.17	40.17	39.75	38.70	41.69	41.61	39.33	38.03	43.75	43.62	42.90	42.57
Fs	15.85	16.61	19.89	20.16	16.27	22.87	21.64	18.36	18.66	17.50	14.26	16.40	18.82	18.96	11.19	11.33	11.01	11.46
Name	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Di.	Di.	Di.	Di.

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD39 BOM						TOD40 BOM										TOD21 IOM		
Point	5/20 R1	5/21 R2	5/22 R3	16/27 C	16/28 R1	16/29 R2	3/3	3/4	5/6	9/10 C	9/11 R	14/18	15/20 C	15/21 R1	15/22 R2	15/23 R3	1/1 R	1/2 C	
SiO ₂	48.93	49.62	49.73	49.30	49.04	48.53	50.85	50.45	50.25	50.31	50.32	50.30	50.72	50.78	51.06	50.50	50.47	51.47	
TiO ₂	1.98	1.35	1.32	1.35	1.31	1.94	1.12	1.98	1.46	1.63	1.18	1.27	1.68	1.10	1.04	1.53	1.40	1.07	
Al ₂ O ₃	3.18	3.10	3.06	3.39	3.43	3.40	3.31	2.78	3.13	3.14	3.25	3.19	2.61	3.27	2.92	3.08	3.11	2.26	
Fe ₂ O ₃ *	3.33	3.31	3.75	3.58	3.78	4.25	1.59	2.19	2.39	2.40	2.43	2.10	2.31	1.71	1.81	1.89	1.87	1.55	
FeO*	3.99	4.34	3.32	3.54	3.43	3.04	5.16	5.39	4.95	5.14	4.51	4.88	5.10	5.12	5.02	5.36	5.53	5.90	
FeO _T	6.99	7.31	6.69	6.77	6.83	6.87	6.59	7.36	7.10	7.30	6.70	6.77	7.18	6.65	6.65	7.06	7.21	7.29	
MnO	0.14	0.14	0.14	0.13	0.14	0.14	0.11	0.14	0.14	0.14	0.14	0.13	0.15	0.13	0.14	0.13	0.14	0.14	
MgO	14.53	15.02	14.85	14.84	14.87	14.56	15.02	14.74	14.81	14.82	14.91	14.86	15.06	15.01	14.92	14.79	14.70	15.27	
CaO	21.86	21.35	21.80	21.72	21.86	21.83	21.86	21.70	21.84	21.71	21.99	21.81	21.52	21.75	22.11	21.74	21.57	21.40	
Na ₂ O	0.47	0.40	0.59	0.47	0.37	0.56	0.37	0.53	0.41	0.44	0.38	0.38	0.52	0.38	0.39	0.43	0.44	0.38	
K ₂ O	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.01	
Cr ₂ O ₃	0.40	0.30	0.33	0.76	0.68	0.48	0.90	0.31	0.62	0.53	0.83	0.69	0.39	0.65	0.66	0.54	0.55	0.26	
NiO	0.04	0.06	0.02	0.03	0.02	0.04	0.05	0.04	0.03	0.07	0.07	0.05	0.05	0.05	0.06	0.06	0.06	0.04	
Total	98.86	98.99	98.93	99.12	98.93	98.79	100.34	100.26	100.03	100.33	100.01	99.67	100.12	99.95	100.15	100.06	99.84	99.74	
<i>Structural formula per 4 cations</i>																			
Si	1.84	1.86	1.86	1.84	1.84	1.82	1.88	1.87	1.86	1.86	1.86	1.87	1.88	1.88	1.89	1.87	1.87	1.91	
Al	0.14	0.14	0.13	0.15	0.15	0.15	0.14	0.12	0.14	0.14	0.14	0.14	0.11	0.14	0.13	0.13	0.14	0.10	
Ti	0.06	0.04	0.04	0.04	0.04	0.05	0.03	0.06	0.04	0.05	0.03	0.04	0.05	0.03	0.03	0.04	0.04	0.03	
Fe ²⁺	0.13	0.14	0.10	0.11	0.11	0.10	0.16	0.17	0.15	0.16	0.14	0.15	0.16	0.16	0.16	0.17	0.17	0.18	
Fe ³⁺	0.09	0.09	0.11	0.10	0.11	0.12	0.04	0.06	0.07	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.04	
Mn	0.00	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	
Mg	0.81	0.84	0.83	0.83	0.83	0.82	0.83	0.81	0.82	0.82	0.82	0.82	0.83	0.83	0.82	0.82	0.81	0.84	
Ca	0.88	0.86	0.87	0.87	0.88	0.88	0.86	0.86	0.87	0.86	0.87	0.87	0.85	0.86	0.88	0.86	0.86	0.85	
Na	0.03	0.03	0.04	0.03	0.03	0.04	0.03	0.04	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.03	
K	0.00	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	
Cr	0.01	0.01	0.01	0.02	0.02	0.01	0.03	0.01	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.01	
Ni	0.00	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	
Total	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	
Mg #	79	79	80	80	80	79	80	78	79	78	80	80	79	80	80	79	78	79	
Wo	45.99	44.52	45.72	45.58	45.65	46.01	45.63	45.25	45.51	45.20	45.85	45.66	44.76	45.48	46.00	45.45	45.27	44.27	
En	42.53	43.58	43.33	43.33	43.21	42.69	43.63	42.77	42.94	42.93	43.25	43.28	43.58	43.67	43.20	43.03	42.92	43.96	
Fs	11.48	11.90	10.95	11.09	11.13	11.30	10.74	11.98	11.55	11.86	10.90	11.06	11.66	10.85	10.80	11.52	11.81	11.77	
Name	Di.	Aug.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Di.	Aug.	Di.	Di.	Di.	Di.	Aug.	

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD21 IOM													TOD45 MOG					
	Point	3/5	9/12	10/13 R1	10/14 R2	10/15 C	21/20 C	21/21 R1	21/22 R2	21/23 R3	23/1	23/2	23/3	23/4	1/1 C	1/2 R1	1/3 R2	1/1 R	1/2 C
SiO ₂	48.77	50.55	52.07	51.20	50.24	51.01	50.00	50.31	50.12	51.23	51.79	51.75	50.38	50.40	51.03	50.30	50.42	50.91	
TiO ₂	1.85	1.45	1.28	1.63	1.33	1.13	1.33	1.21	1.74	1.21	1.12	1.13	1.72	1.34	1.18	1.22	1.40	1.14	
Al ₂ O ₃	4.30	3.09	1.65	2.43	3.42	2.62	3.14	3.14	2.72	3.30	3.20	3.17	3.30	2.93	2.50	3.28	3.06	3.16	
Fe ₂ O ₃ *	2.53	2.30	1.69	1.62	1.91	1.86	2.02	2.22	2.42	0.97	1.38	0.98	2.34	2.62	2.78	2.71	2.94	2.26	
FeO*	5.54	5.75	5.68	6.12	5.59	5.44	5.45	4.71	5.36	6.73	6.41	6.74	6.19	5.14	5.04	4.93	5.75	5.36	
FeO _T	7.82	7.82	7.20	7.58	7.31	7.11	7.27	6.71	7.54	7.60	7.65	7.62	8.30	7.50	7.54	7.37	8.40	7.39	
MnO	0.13	0.14	0.17	0.14	0.11	0.13	0.11	0.12	0.13	0.15	0.15	0.13	0.16	0.13	0.15	0.13	0.16	0.18	
MgO	14.10	14.72	15.05	14.91	14.43	15.05	14.59	14.82	14.43	15.56	15.95	15.89	15.41	14.80	15.03	14.68	15.08	15.53	
CaO	21.13	21.74	21.60	21.39	21.83	21.79	21.61	21.99	21.50	20.38	20.56	20.44	20.21	21.84	21.83	21.97	21.12	21.16	
Na ₂ O	0.44	0.37	0.65	0.52	0.39	0.35	0.36	0.38	0.58	0.34	0.34	0.32	0.44	0.38	0.45	0.39	0.36	0.33	
K ₂ O	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	
Cr ₂ O ₃	0.42	0.06	0.20	0.21	0.49	0.39	0.45	0.44	0.27	0.44	0.40	0.43	0.44	0.35	0.29	0.62	0.11	0.44	
NiO	0.03	0.05	0.02	0.03	0.04	0.04	0.03	0.06	0.04	0.06	0.04	0.02	0.01	0.04	0.04	0.03	0.03	0.02	
Total	99.25	100.22	100.07	100.21	99.79	99.83	99.10	99.40	99.32	100.36	101.34	101.00	100.61	99.99	100.33	100.27	100.44	100.50	
<i>Structural formula per 4 cations</i>																			
Si	1.83	1.87	1.93	1.89	1.87	1.89	1.87	1.87	1.87	1.89	1.89	1.89	1.86	1.87	1.89	1.86	1.86	1.87	
Al	0.19	0.13	0.07	0.11	0.15	0.11	0.14	0.14	0.12	0.14	0.14	0.14	0.14	0.13	0.11	0.14	0.13	0.14	
Ti	0.05	0.04	0.04	0.05	0.04	0.03	0.04	0.03	0.05	0.03	0.03	0.03	0.05	0.04	0.03	0.03	0.04	0.03	
Fe ²⁺	0.17	0.18	0.18	0.19	0.17	0.17	0.17	0.15	0.17	0.21	0.20	0.21	0.19	0.16	0.16	0.15	0.18	0.16	
Fe ³⁺	0.07	0.06	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.03	0.04	0.03	0.06	0.07	0.08	0.08	0.08	0.06	
Mn	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	0.01	0.01	
Mg	0.79	0.81	0.83	0.82	0.80	0.83	0.81	0.82	0.80	0.85	0.87	0.87	0.85	0.82	0.83	0.81	0.83	0.85	
Ca	0.85	0.86	0.86	0.85	0.87	0.87	0.87	0.88	0.86	0.80	0.80	0.80	0.80	0.87	0.86	0.87	0.84	0.83	
Na	0.03	0.03	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	
K	0.00	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	
Cr	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.00	0.01	
Ni	0.00	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	
Total	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	
Mg #	76	77	79	78	78	79	78	80	77	78	79	79	77	78	78	78	76	79	
Wo	45.10	44.99	44.85	44.51	45.85	45.13	45.41	45.96	45.30	42.49	42.20	42.15	41.99	45.23	44.89	45.63	43.40	43.60	
En	41.87	42.38	43.48	43.17	42.17	43.37	42.66	43.10	42.30	45.14	45.55	45.59	44.55	42.65	43.01	42.42	43.12	44.52	
Fs	13.03	12.63	11.67	12.31	11.98	11.49	11.93	10.95	12.40	12.37	12.26	12.26	13.46	12.12	12.10	11.95	13.47	11.88	
Name	Di.	Aug.	Aug.	Aug.	Di.	Di.	Di.	Di.	Di.	Aug.	Aug.	Aug.	Aug.	Di.	Aug.	Di.	Aug.	Aug.	

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD45 MOG																	
	Point	1/3 C	1/4 R	1/5 R	1/6 R	4/8 C	4/9 R1	4/10 R2	4/1 R1	4/2 C	4/3 C	4/4 R1	4/5 R2	4/6 R3	10/17 C	10/18 R1	10/19 R2	10/20 R3
SiO ₂	50.39	50.59	50.32	50.11	50.68	50.01	50.15	50.03	49.93	50.08	50.35	50.42	49.90	49.62	50.69	50.44	50.18	
TiO ₂	1.28	1.28	1.16	1.69	1.18	1.59	1.68	1.30	1.25	1.29	1.32	1.34	1.63	1.54	1.17	1.31	1.23	
Al ₂ O ₃	3.69	3.08	3.41	3.15	3.12	3.09	2.56	3.67	3.65	3.59	3.05	2.98	3.05	3.64	2.48	2.89	3.27	
Fe ₂ O ₃ *	2.41	2.61	2.08	2.56	2.64	2.59	2.57	2.72	2.92	2.07	2.63	1.97	2.25	2.94	2.41	2.81	2.71	
FeO*	5.31	5.82	5.58	7.21	4.81	6.18	7.07	5.06	4.72	5.40	5.83	6.42	7.37	4.74	5.57	4.97	4.97	
FeO _T	7.48	8.17	7.45	9.52	7.19	8.51	9.38	7.51	7.35	7.26	8.20	8.19	9.39	7.38	7.74	7.50	7.41	
MnO	0.14	0.17	0.13	0.17	0.13	0.14	0.19	0.13	0.10	0.12	0.18	0.12	0.16	0.13	0.16	0.15	0.14	
MgO	15.10	15.27	15.12	14.47	15.04	14.21	13.92	15.08	15.19	14.95	15.16	14.95	14.23	14.49	14.89	14.83	14.72	
CaO	21.26	20.85	20.99	20.65	21.94	21.56	21.48	21.25	21.28	21.27	20.99	20.89	20.73	21.91	21.64	21.87	21.79	
Na ₂ O	0.38	0.37	0.35	0.38	0.38	0.41	0.40	0.36	0.35	0.34	0.31	0.33	0.35	0.41	0.35	0.40	0.39	
K ₂ O	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	
Cr ₂ O ₃	0.61	0.38	0.59	0.01	0.45	0.06	0.00	0.59	0.63	0.62	0.15	0.11	0.03	0.44	0.29	0.34	0.60	
NiO	0.04	0.01	0.02	0.00	0.04	0.06	0.03	0.01	0.03	0.04	0.02	0.03	0.03	0.05	0.04	0.06	0.03	
Total	100.61	100.43	99.75	100.42	100.41	99.90	100.05	100.20	100.06	99.77	99.99	99.55	99.73	99.90	99.69	100.07	100.03	
<i>Structural formula per 4 cations</i>																		
Si	1.86	1.87	1.87	1.86	1.87	1.87	1.87	1.85	1.85	1.86	1.87	1.88	1.87	1.84	1.89	1.87	1.86	
Al	0.16	0.13	0.15	0.14	0.14	0.14	0.11	0.16	0.16	0.16	0.13	0.13	0.13	0.16	0.11	0.13	0.14	
Ti	0.04	0.04	0.03	0.05	0.03	0.04	0.05	0.04	0.03	0.04	0.04	0.04	0.05	0.04	0.03	0.04	0.03	
Fe ²⁺	0.16	0.18	0.17	0.22	0.15	0.19	0.22	0.16	0.15	0.17	0.18	0.20	0.23	0.15	0.17	0.15	0.15	
Fe ³⁺	0.07	0.07	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.06	0.07	0.06	0.06	0.08	0.07	0.08	0.08	
Mn	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	
Mg	0.83	0.84	0.84	0.80	0.83	0.79	0.78	0.83	0.84	0.83	0.84	0.83	0.79	0.80	0.83	0.82	0.81	
Ca	0.84	0.83	0.83	0.82	0.87	0.86	0.86	0.84	0.84	0.85	0.83	0.83	0.83	0.87	0.86	0.87	0.87	
Na	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	
K	0.00	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	
Cr	0.02	0.01	0.02	0.00	0.01	0.00	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.01	0.01	0.01	0.02	
Ni	0.00	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	
Total	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	
Mg #	78	77	78	73	79	75	73	78	79	79	77	76	73	78	77	78	78	
Wo	44.19	43.01	43.87	42.83	45.26	44.94	44.59	44.18	44.19	44.56	43.29	43.44	43.31	45.81	44.71	45.22	45.34	
En	43.67	43.83	43.97	41.76	43.17	41.21	40.21	43.63	43.89	43.57	43.51	43.26	41.37	42.15	42.81	42.67	42.62	
Fs	12.14	13.16	12.15	15.41	11.58	13.85	15.20	12.19	11.91	11.87	13.20	13.29	15.31	12.04	12.48	12.11	12.04	
Name	Aug.	Aug.	Aug.	Aug.	Di.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Di.	Aug.	Di.	Di.	

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD45 MOG		TOD47 FOG															
	12/23 C	12/24 R	1/1	1/2	1/3	1/4	1/5	4/1	10/1	10/2	10/3	10/4	10/5	10/6	10/7	10/8	11/16 C	11/17 R1
SiO ₂	49.83	49.13	50.79	50.47	50.65	50.34	50.30	50.45	50.40	50.57	50.74	51.50	50.89	50.65	51.72	51.20	50.01	50.30
TiO ₂	1.36	1.73	1.28	1.24	1.23	1.21	1.19	1.39	1.18	1.38	1.22	1.36	1.22	1.22	0.91	1.20	1.39	1.19
Al ₂ O ₃	3.46	3.72	2.08	3.24	3.08	3.12	3.12	2.88	3.12	3.15	3.08	2.99	3.05	3.31	1.48	2.38	2.97	2.98
Fe ₂ O ₃ *	2.91	3.49	3.89	2.99	3.24	3.61	3.51	2.55	3.67	2.83	3.06	1.28	2.22	1.96	2.86	2.36	2.85	3.00
FeO*	4.40	4.55	6.42	4.91	4.53	4.32	4.12	5.58	4.06	5.33	5.08	6.90	5.45	5.55	6.36	7.03	4.94	4.53
FeO _T	7.02	7.69	9.92	7.60	7.45	7.57	7.28	7.87	7.36	7.88	7.83	8.05	7.45	7.32	8.93	9.16	7.50	7.23
MnO	0.12	0.14	0.21	0.14	0.16	0.13	0.11	0.14	0.16	0.12	0.15	0.14	0.12	0.14	0.20	0.17	0.12	0.14
MgO	14.61	14.35	14.45	15.44	15.61	15.62	15.65	14.69	15.74	15.39	15.51	14.98	15.45	15.30	15.09	14.64	14.65	14.91
CaO	21.94	21.93	21.18	21.36	21.49	21.45	21.59	21.68	21.47	21.34	21.42	21.23	21.36	21.21	21.13	20.99	21.97	22.04
Na ₂ O	0.45	0.41	0.50	0.32	0.34	0.31	0.29	0.40	0.32	0.32	0.31	0.38	0.32	0.32	0.46	0.45	0.36	0.36
K ₂ O	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01
Cr ₂ O ₃	0.62	0.47	0.03	0.29	0.16	0.21	0.21	0.06	0.21	0.11	0.10	0.06	0.13	0.29	0.07	0.16	0.06	0.25
NiO	0.05	0.04	0.03	0.05	0.04	0.03	0.07	0.04	0.04	0.00	0.02	0.07	0.01	0.04	0.02	0.02	0.03	0.03
Total	99.75	99.96	100.87	100.44	100.54	100.37	100.17	99.86	100.37	100.54	100.69	100.90	100.22	100.00	100.29	100.60	99.36	99.74
<i>Structural formula per 4 cations</i>																		
Si	1.85	1.83	1.88	1.86	1.86	1.86	1.86	1.88	1.86	1.86	1.87	1.89	1.88	1.87	1.92	1.90	1.87	1.87
Al	0.15	0.16	0.09	0.14	0.13	0.14	0.14	0.13	0.14	0.14	0.13	0.13	0.13	0.14	0.06	0.10	0.13	0.13
Ti	0.04	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.03	0.03	0.03	0.04	0.03
Fe ²⁺	0.14	0.14	0.20	0.15	0.14	0.13	0.13	0.17	0.13	0.16	0.16	0.21	0.17	0.17	0.20	0.22	0.15	0.14
Fe ³⁺	0.08	0.10	0.11	0.08	0.09	0.10	0.10	0.07	0.10	0.08	0.08	0.04	0.06	0.05	0.08	0.07	0.08	0.08
Mn	0.00	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	0.01	0.01	0.00	0.00
Mg	0.81	0.80	0.80	0.85	0.86	0.86	0.86	0.81	0.86	0.85	0.85	0.82	0.85	0.84	0.83	0.81	0.82	0.83
Ca	0.87	0.87	0.84	0.84	0.85	0.85	0.85	0.86	0.85	0.84	0.84	0.84	0.84	0.84	0.84	0.83	0.88	0.88
Na	0.03	0.03	0.04	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.03
K	0.00	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
Cr	0.02	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01
Ni	0.00	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
Total	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
Mg #	79	77	72	78	79	79	79	77	79	78	78	77	79	79	75	74	78	79
Wo	45.95	45.78	43.20	43.79	43.83	43.69	44.02	44.92	43.71	43.64	43.61	43.90	43.89	43.99	43.04	43.27	45.57	45.51
En	42.57	41.68	41.01	44.05	44.30	44.27	44.40	42.35	44.59	43.79	43.94	43.10	44.17	44.16	42.77	41.99	42.28	42.84
Fs	11.48	12.53	15.79	12.16	11.86	12.04	11.59	12.73	11.70	12.58	12.44	12.99	11.95	11.85	14.20	14.74	12.14	11.65
Name	Di.	Di.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Di.	Di.

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD47 FOG												TOD26 FG				TOD13C FMG	
	11/18 R2	12/19	12/1	12/2	12/3	12/4	16/23	16/1	16/2	16/3	16/4	16/5	2/12	5/14	6/15	13/22	x/1	3/4
SiO ₂	50.43	49.71	50.73	50.40	50.40	50.41	49.38	50.47	50.65	50.50	50.12	49.81	50.07	49.96	49.68	49.12	49.62	48.92
TiO ₂	1.22	1.70	1.67	1.71	1.54	1.39	1.25	1.29	1.22	1.19	1.23	1.18	1.41	1.33	1.42	1.65	1.51	1.76
Al ₂ O ₃	1.84	2.73	2.51	2.83	3.18	3.10	2.91	3.15	3.05	3.13	3.04	3.14	3.14	3.14	3.12	3.53	3.10	3.18
Fe ₂ O ₃ *	3.35	3.16	2.14	2.78	2.81	2.91	3.70	3.46	3.23	3.48	3.88	4.23	2.85	3.34	3.25	3.34	3.28	3.46
FeO*	6.20	6.06	7.58	6.86	6.43	6.22	3.70	4.70	4.73	4.57	4.21	3.67	5.21	4.83	4.62	5.64	5.94	5.62
FeO _T	9.21	8.91	9.51	9.36	8.96	8.84	7.03	7.81	7.64	7.70	7.70	7.47	7.77	7.83	7.54	8.64	8.89	8.73
MnO	0.21	0.16	0.20	0.18	0.15	0.17	0.13	0.13	0.16	0.13	0.15	0.16	0.14	0.15	0.13	0.15	0.15	0.16
MgO	14.07	14.18	14.74	14.59	14.90	15.09	14.80	15.55	15.56	15.50	15.50	15.46	14.51	14.58	14.51	13.81	13.85	13.75
CaO	21.55	21.39	20.60	20.85	20.86	21.02	22.02	21.52	21.48	21.48	21.42	21.54	21.95	21.89	22.02	21.70	21.54	21.68
Na ₂ O	0.48	0.44	0.37	0.43	0.38	0.27	0.36	0.29	0.32	0.34	0.33	0.34	0.38	0.40	0.40	0.43	0.49	0.43
K ₂ O	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.00
Cr ₂ O ₃	0.01	0.01	0.01	0.01	0.05	0.02	0.23	0.16	0.11	0.19	0.08	0.19	0.03	0.03	0.03	0.00	0.00	0.00
NiO	0.04	0.02	0.00	0.02	0.00	0.04	0.04	0.04	0.05	0.03	0.05	0.04	0.01	0.04	0.00	0.02	0.01	0.02
Total	99.42	99.58	100.56	100.67	100.70	100.65	98.54	100.76	100.55	100.54	100.01	99.76	99.71	99.69	99.18	99.38	99.50	98.98
<i>Structural formula per 4 cations</i>																		
Si	1.90	1.86	1.88	1.87	1.86	1.86	1.86	1.86	1.87	1.86	1.86	1.85	1.87	1.86	1.86	1.84	1.86	1.85
Al	0.08	0.12	0.11	0.12	0.14	0.14	0.13	0.14	0.13	0.14	0.13	0.14	0.14	0.14	0.14	0.16	0.14	0.14
Ti	0.03	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.04	0.05
Fe ²⁺	0.19	0.19	0.24	0.21	0.20	0.19	0.12	0.14	0.15	0.14	0.13	0.11	0.16	0.15	0.14	0.18	0.19	0.18
Fe ³⁺	0.09	0.09	0.06	0.08	0.08	0.08	0.10	0.10	0.09	0.10	0.11	0.12	0.08	0.09	0.09	0.09	0.09	0.10
Mn	0.01	0.01	0.01	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	0.01
Mg	0.79	0.79	0.82	0.81	0.82	0.83	0.83	0.85	0.85	0.85	0.86	0.86	0.81	0.81	0.81	0.77	0.77	0.77
Ca	0.87	0.86	0.82	0.83	0.83	0.83	0.89	0.85	0.85	0.85	0.85	0.86	0.88	0.87	0.88	0.87	0.87	0.88
Na	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.03
K	0.00	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
Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Ni	0.00	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
Total	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
Mg #	73	74	73	74	75	75	79	78	78	78	78	79	77	77	77	74	77	77
Wo	44.60	44.49	42.45	43.03	42.93	42.97	45.78	43.69	43.75	43.79	43.72	44.07	45.54	45.33	45.78	45.53	45.11	45.52
En	40.52	41.04	42.26	41.89	42.67	42.92	42.81	43.93	44.10	43.96	44.02	44.01	41.88	42.01	41.98	40.32	40.36	40.17
Fs	14.88	14.47	15.29	15.08	14.39	14.11	11.41	12.38	12.15	12.25	12.27	11.93	12.58	12.66	12.24	14.15	14.53	14.31
Name	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Di.	Aug.	Aug.	Aug.	Aug.	Aug.	Di.	Di.	Di.	Di.	Di.	Di.

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD13C FMG			TOD53 FMOG							TOD75 FL			TOD55 Pegmatite				
Point	5/1	6/2	9/6	3/1 C	3/2 R	11/8 C	11/9 R	13/11 C	13/12 R	6/16 C	2/27	4/28	5/29	1/1 R	1/2 C	6/9	6/10 Rep.	1/1
SiO ₂	50.16	49.46	49.93	50.02	50.80	51.80	51.08	49.63	50.11	50.38	49.88	48.50	50.14	49.90	49.64	50.43	49.68	51.73
TiO ₂	1.58	1.77	1.68	1.73	1.37	1.08	1.43	1.80	1.35	1.76	1.67	1.71	1.32	1.51	1.45	1.35	1.62	0.74
Al ₂ O ₃	2.68	3.05	3.07	3.27	2.36	1.81	2.60	3.37	2.61	3.05	2.42	2.32	1.77	3.45	3.47	2.92	3.22	0.82
Fe ₂ O ₃ *	2.45	2.78	2.69	2.51	2.55	2.44	2.52	2.83	3.22	2.53	3.26	4.25	3.13	2.54	3.17	2.64	3.10	2.75
FeO*	6.65	6.80	6.32	6.55	7.13	6.95	6.99	6.46	6.32	6.68	6.34	6.87	7.92	5.21	4.75	5.30	5.13	11.73
FeO _T	8.85	9.31	8.74	8.81	9.42	9.14	9.25	9.00	9.22	8.95	9.27	10.69	10.73	7.49	7.60	7.67	7.92	14.20
MnO	0.18	0.18	0.14	0.15	0.20	0.20	0.19	0.15	0.19	0.15	0.19	0.25	0.25	0.13	0.13	0.15	0.15	0.47
MgO	14.01	13.61	13.98	13.91	13.96	14.10	13.91	13.68	13.78	14.03	14.02	13.13	13.32	14.49	14.52	14.70	14.39	11.94
CaO	21.50	21.44	21.70	21.68	21.30	21.63	21.49	21.65	21.50	21.68	21.49	21.15	21.31	21.93	21.83	21.88	21.88	20.28
Na ₂ O	0.44	0.43	0.43	0.44	0.52	0.62	0.61	0.47	0.54	0.47	0.44	0.41	0.40	0.37	0.41	0.38	0.39	0.65
K ₂ O	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.02	0.01	0.00	0.01	0.01	0.01
Cr ₂ O ₃	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.13	0.14	0.06	0.05	0.00
NiO	0.01	0.02	0.03	0.02	0.03	0.01	0.00	0.02	0.01	0.00	0.02	0.01	0.01	0.01	0.03	0.04	0.06	0.03
Total	99.67	99.57	99.98	100.30	100.22	100.65	100.82	100.07	99.64	100.73	99.74	98.60	99.59	99.68	99.54	99.85	99.68	101.15
<i>Structural formula per 4 cations</i>																		
Si	1.88	1.86	1.86	1.86	1.89	1.92	1.89	1.85	1.88	1.87	1.87	1.85	1.89	1.86	1.85	1.87	1.85	1.95
Al	0.12	0.14	0.14	0.14	0.10	0.08	0.11	0.15	0.12	0.13	0.11	0.10	0.08	0.15	0.15	0.13	0.14	0.04
Ti	0.04	0.05	0.05	0.05	0.04	0.03	0.04	0.05	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.02
Fe ²⁺	0.21	0.21	0.20	0.20	0.22	0.22	0.22	0.20	0.20	0.21	0.20	0.22	0.25	0.16	0.15	0.16	0.16	0.37
Fe ³⁺	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.09	0.07	0.09	0.12	0.09	0.07	0.09	0.07	0.09	0.08
Mn	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.02
Mg	0.78	0.76	0.78	0.77	0.78	0.78	0.77	0.76	0.77	0.77	0.78	0.75	0.75	0.80	0.81	0.81	0.80	0.67
Ca	0.86	0.86	0.87	0.86	0.85	0.86	0.85	0.87	0.86	0.86	0.86	0.87	0.86	0.87	0.87	0.87	0.87	0.82
Na	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05
K	0.00	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
Cr	0.00	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
Ni	0.00	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
Total	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
Mg #	77	75	77	74	73	73	73	73	73	74	73	69	69	78	77	77	76	60
Wo	44.88	45.00	45.23	45.25	44.30	44.71	44.71	45.38	44.91	44.99	44.55	44.28	44.19	45.75	45.51	45.28	45.50	42.27
En	40.70	39.75	40.55	40.40	40.40	40.55	40.27	39.90	40.05	40.51	40.44	38.25	38.44	42.06	42.12	42.33	41.64	34.63
Fs	14.42	15.25	14.22	14.35	15.29	14.75	15.02	14.72	15.03	14.50	15.00	17.47	17.37	12.20	12.37	12.39	12.86	23.10
Name	Aug.	Di.	Di.	Di.	Aug.	Aug.	Aug.	Di.	Aug.	Aug.	Aug.	Aug.	Aug.	Di.	Di.	Di.	Di.	
														Aeg				5.17
														Jd				2.27
														Di				92.55
														Name				Aug.

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD64 Bostonite																	
Point	1/2	1/3	1/4	1/5	4/1	4/2	4/3	5/1	5/2	5/3	8/1	8/2	8/3	8/4	8/5	12/1	12/2	12/3
SiO ₂	51.44	51.68	51.29	50.85	51.85	51.98	51.79	51.67	51.66	51.65	50.88	50.25	50.20	51.14	50.91	52.05	51.45	51.91
TiO ₂	0.95	0.73	1.13	1.15	0.69	0.80	0.71	0.73	0.78	0.57	0.70	0.62	0.54	0.79	0.67	0.79	0.64	0.81
Al ₂ O ₃	0.92	0.77	1.08	1.08	0.70	0.84	0.75	0.80	0.84	0.71	0.68	0.36	0.36	0.88	0.70	0.80	0.96	0.85
Fe ₂ O ₃ *	2.90	2.24	4.23	3.54	2.03	2.20	2.07	2.95	2.43	1.64	3.52	4.58	3.70	3.03	4.23	2.22	2.83	1.52
FeO*	11.77	12.21	9.98	11.39	12.54	11.44	12.66	11.78	11.98	13.13	11.41	16.90	17.65	10.64	11.02	11.29	12.52	11.98
FeO _T	14.38	14.23	13.78	14.58	14.37	13.42	14.53	14.43	14.17	14.61	14.58	21.02	20.98	13.37	14.82	13.29	15.06	13.35
MnO	0.43	0.37	0.36	0.37	0.41	0.35	0.37	0.40	0.34	0.36	0.35	0.46	0.44	0.35	0.36	0.32	0.33	0.39
MgO	11.70	11.23	11.33	12.00	11.44	12.03	11.30	11.72	11.73	10.94	11.26	6.00	5.92	11.88	11.66	11.75	9.91	12.01
CaO	19.80	20.66	20.67	19.55	20.34	20.75	20.59	20.57	20.58	20.79	20.58	19.05	19.02	20.57	20.57	20.84	21.43	20.56
Na ₂ O	0.84	0.71	1.13	0.77	0.69	0.65	0.64	0.65	0.62	0.57	0.70	1.76	1.61	0.72	0.64	0.79	0.89	0.58
K ₂ O	0.01	0.02	0.02	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00
Cr ₂ O ₃	0.00	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.01
NiO	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Total	100.75	100.64	101.24	100.76	100.71	101.05	100.90	101.28	100.97	100.38	100.09	99.98	99.46	100.04	100.75	100.87	100.95	100.62
<i>Structural formula per 4 cations</i>																		
Si	1.94	1.96	1.93	1.92	1.96	1.95	1.96	1.94	1.95	1.97	1.94	1.97	1.98	1.94	1.93	1.96	1.95	1.96
Al	0.04	0.03	0.05	0.05	0.03	0.04	0.03	0.04	0.04	0.03	0.03	0.02	0.02	0.04	0.03	0.04	0.04	0.04
Ti	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Fe ²⁺	0.37	0.39	0.31	0.36	0.40	0.36	0.40	0.37	0.38	0.42	0.36	0.55	0.58	0.34	0.35	0.36	0.40	0.38
Fe ³⁺	0.08	0.06	0.12	0.10	0.06	0.06	0.06	0.08	0.07	0.05	0.10	0.14	0.11	0.09	0.12	0.06	0.08	0.04
Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Mg	0.66	0.63	0.63	0.68	0.65	0.67	0.64	0.66	0.66	0.62	0.64	0.35	0.35	0.67	0.66	0.66	0.56	0.68
Ca	0.80	0.84	0.83	0.79	0.82	0.83	0.83	0.83	0.83	0.85	0.84	0.80	0.80	0.84	0.83	0.84	0.87	0.83
Na	0.06	0.05	0.08	0.06	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.13	0.12	0.05	0.05	0.06	0.07	0.04
K	0.00	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
Cr	0.00	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
Ni	0.00	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
Total	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
Mg #	59	58	59	59	59	62	58	59	60	57	58	34	33	61	58	61	54	62
Wo	41.86	43.59	43.80	41.05	42.84	43.26	43.21	42.73	42.91	43.85	43.21	43.49	43.59	43.27	42.53	43.82	45.62	43.11
En	34.41	32.97	33.41	35.06	33.53	34.90	32.99	33.87	34.03	32.10	32.90	19.06	18.88	34.77	33.55	34.37	29.35	35.04
Fs	23.73	23.44	22.79	23.89	23.63	21.84	23.80	23.40	23.06	24.05	23.89	37.45	37.53	21.95	23.92	21.81	25.02	21.85
Name																		
Aeg	6.10	5.17	8.25	6.08	4.88	4.75	4.67	5.27	4.79	4.16	5.91	11.63	10.56	5.73	6.06	5.44	6.71	3.95
Jd	2.95	2.51	3.87	2.71	2.45	2.29	2.26	2.27	2.19	2.03	2.48	6.02	5.60	2.53	2.23	2.76	3.10	2.06
Di	90.95	92.32	87.88	91.22	92.66	92.96	93.06	92.46	93.03	93.80	91.61	82.35	83.84	91.74	91.71	91.79	90.19	93.99
Name	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Di.	Aug.

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD64 Bostonite		TOD84 Bostonite															
	Point	12/4	12/5	3/29 R2	3/30 R1	3/33 C	5/1	5/2	5/3	5/4	5/5	5/6	5/7	7/36 R	7/37 C	8/38	8/1	8/2
SiO ₂	51.58	51.18	51.43	51.91	51.97	51.21	51.11	51.15	51.09	50.69	50.86	51.64	50.86	51.67	52.28	52.21	52.32	53.19
TiO ₂	0.82	0.80	0.58	0.62	0.85	0.94	0.92	0.98	0.93	0.99	1.17	1.27	0.58	0.94	1.24	0.54	0.76	0.86
Al ₂ O ₃	0.85	0.81	0.55	0.56	0.81	0.29	0.30	0.32	0.28	0.28	0.31	0.32	0.35	0.88	0.25	0.56	0.73	0.84
Fe ₂ O ₃ *	2.13	3.65	2.54	1.84	1.99	24.24	23.87	23.07	22.35	21.76	23.13	26.62	5.42	2.18	26.78	2.61	0.12	0.00
FeO*	11.45	10.72	13.58	13.98	10.03	5.46	6.47	7.01	7.40	6.97	5.75	3.84	15.48	10.04	2.81	12.32	13.76	12.40
FeO _T	13.37	14.01	15.87	15.64	11.82	27.28	27.95	27.77	27.51	26.55	26.56	27.79	20.35	12.00	26.91	14.67	13.87	12.40
MnO	0.35	0.38	0.39	0.37	0.30	0.33	0.28	0.30	0.30	0.32	0.25	0.23	0.42	0.32	0.22	0.43	0.33	0.38
MgO	12.02	11.85	9.58	9.75	12.53	1.55	1.66	1.52	1.70	1.54	1.35	0.93	6.06	12.78	0.65	11.54	11.45	12.30
CaO	20.43	20.27	20.68	20.75	20.86	6.35	6.91	6.90	6.80	6.87	5.61	3.47	19.54	20.35	2.70	19.82	19.50	19.55
Na ₂ O	0.64	0.80	0.96	0.92	0.75	9.77	9.35	9.31	9.16	9.20	9.98	11.36	2.06	0.72	12.07	0.89	0.81	0.69
K ₂ O	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00
Cr ₂ O ₃	0.03	0.00	0.01	0.06	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.18	0.00	0.12	0.12	0.15
NiO	0.03	0.02	0.02	0.01	0.04	0.02	0.02	0.00	0.00	0.00	0.00	0.02	0.05	0.07	0.01	0.04	0.03	0.03
Total	100.32	100.48	100.32	100.78	100.31	100.20	100.90	100.56	100.01	98.62	98.41	99.72	100.88	100.14	99.01	101.11	99.92	100.38
<i>Structural formula per 4 cations</i>																		
Si	1.95	1.94	1.97	1.98	1.95	1.98	1.97	1.98	1.98	1.99	2.00	1.99	1.97	1.95	2.02	1.97	1.99	2.00
Al	0.04	0.04	0.02	0.03	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.01	0.03	0.03	0.04
Ti	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.02	0.03	0.04	0.02	0.02	0.02
Fe ²⁺	0.36	0.34	0.44	0.45	0.32	0.18	0.21	0.23	0.24	0.23	0.19	0.12	0.50	0.32	0.09	0.39	0.44	0.39
Fe ³⁺	0.06	0.10	0.07	0.05	0.06	0.71	0.69	0.67	0.65	0.64	0.68	0.77	0.16	0.06	0.78	0.07	0.00	0.00
Mn	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
Mg	0.68	0.67	0.55	0.55	0.70	0.09	0.10	0.09	0.10	0.09	0.08	0.05	0.35	0.72	0.04	0.65	0.65	0.69
Ca	0.83	0.82	0.85	0.85	0.84	0.26	0.29	0.29	0.28	0.29	0.24	0.14	0.81	0.82	0.11	0.80	0.79	0.79
Na	0.05	0.06	0.07	0.07	0.05	0.73	0.70	0.70	0.69	0.70	0.76	0.85	0.15	0.05	0.90	0.06	0.06	0.05
K	0.00	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
Cr	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	0.00	0.00	0.00	0.00
Ni	0.00	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
Total	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
Mg #	62	60	52	53	65	9	10	9	10	9	8	6	35	65	4	58	60	64
Wo	42.93	42.50	44.57	44.60	43.90	21.31	22.26	22.48	22.19	23.10	19.88	13.11	44.55	42.84	10.97	41.88	42.16	42.19
En	35.14	34.57	28.73	29.16	36.69	7.25	7.44	6.90	7.72	7.21	6.64	4.90	19.23	37.44	3.68	33.93	34.44	36.93
Fs	21.93	22.93	26.70	26.24	19.41	71.44	70.29	70.62	70.09	69.69	73.47	81.98	36.22	19.72	85.35	24.19	23.40	20.89
Name																		
Aeg	4.67	6.42	6.60	5.78	4.92	42.20	41.17	40.97	40.59	40.70	42.44	45.39	13.30	4.86	46.52	6.21	3.10	2.50
Jd	2.29	2.79	3.38	3.34	2.65	21.60	20.93	21.00	20.88	21.40	22.66	24.01	6.83	2.56	25.31	3.10	3.95	4.36
Di	93.04	90.79	90.02	90.89	92.42	36.21	37.90	38.03	38.53	37.90	34.90	30.59	79.87	92.58	28.16	90.70	92.95	93.14
Name	Aug.	Aug.	Aug.	Aug.	Aug.	Aeg.-Aug.	Aeg.-Aug.	Aeg.-Aug.	Aeg.-Aug.	Aeg.-Aug.	Aeg.-Aug.	Aeg.	Aug.	Aug.	Aeg.	Aug.	Aug.	Aug.

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample Point	TOD84 Bostonite														TOD10 Dolerite				
	8/4	8/5	14-15/1	14-15/2	14-15/3	14-15/4	14-15/5	14-15/6	14-15/7	18/44 C	18/45 R	19/46 C	19/47 R1	19/3	6/1	6/2	6/3	6/4	
SiO ₂	52.09	51.40	51.78	51.65	51.88	52.02	52.06	50.62	53.23	51.83	51.53	50.82	52.46	50.91	51.18	51.54	51.17	51.24	
TiO ₂	0.64	0.63	0.93	0.55	0.89	0.83	1.99	1.30	1.78	0.73	0.55	0.82	2.88	0.80	0.45	0.41	0.40	0.42	
Al ₂ O ₃	0.59	0.57	0.85	0.43	0.88	0.83	1.17	0.78	0.40	0.64	0.47	0.33	0.31	0.34	3.25	3.15	3.18	3.44	
Fe ₂ O ₃ *	1.83	2.49	1.50	2.76	3.84	2.33	8.01	17.54	11.65	2.35	2.48	12.32	25.67	13.72	3.16	2.33	2.84	3.14	
FeO*	12.41	13.84	11.52	14.02	8.28	10.33	14.93	9.30	17.16	9.93	13.58	12.51	3.83	12.83	3.44	3.95	3.41	3.36	
FeO _T	14.06	16.08	12.87	16.50	11.74	12.42	22.14	25.08	27.65	12.05	15.81	23.60	26.93	25.18	6.28	6.05	5.96	6.19	
MnO	0.36	0.44	0.39	0.40	0.37	0.29	0.44	0.48	0.99	0.31	0.39	0.39	0.18	0.42	0.11	0.16	0.14	0.16	
MgO	11.56	10.12	12.35	9.58	12.71	13.20	9.71	8.27	5.05	12.59	9.69	3.08	0.43	3.26	16.67	16.80	16.91	16.84	
CaO	20.23	20.21	19.81	20.16	20.31	19.84	5.31	2.87	0.65	20.74	20.81	13.87	2.22	13.89	21.12	20.92	20.81	21.02	
Na ₂ O	0.76	0.82	0.73	1.06	1.17	0.73	4.42	6.49	7.06	0.72	0.89	5.46	12.44	5.33	0.26	0.23	0.25	0.24	
K ₂ O	0.00	0.00	0.00	0.00	0.01	0.00	1.32	1.12	1.48	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.01	0.00	
Cr ₂ O ₃	0.06	0.02	0.18	0.00	0.19	0.17	0.00	0.02	0.00	0.10	0.01	0.02	0.00	0.00	0.89	0.89	0.90	0.97	
NiO	0.05	0.01	0.06	0.00	0.04	0.02	0.03	0.00	0.00	0.03	0.02	0.02	0.01	0.01	0.04	0.07	0.03	0.07	
Total	100.57	100.55	100.11	100.61	100.57	100.58	99.39	98.78	99.45	99.99	100.44	99.64	100.43	101.52	100.58	100.46	100.04	100.90	
<i>Structural formula per 4 cations</i>																			
Si	1.97	1.96	1.96	1.97	1.94	1.95	2.00	1.96	2.07	1.96	1.97	1.99	2.00	1.97	1.87	1.88	1.88	1.87	
Al	0.03	0.03	0.04	0.02	0.04	0.04	0.05	0.04	0.02	0.03	0.02	0.02	0.01	0.02	0.14	0.14	0.14	0.15	
Ti	0.02	0.02	0.03	0.02	0.02	0.02	0.06	0.04	0.05	0.02	0.02	0.02	0.08	0.02	0.01	0.01	0.01	0.01	
Fe ²⁺	0.39	0.44	0.36	0.45	0.26	0.32	0.48	0.30	0.56	0.31	0.43	0.41	0.12	0.42	0.11	0.12	0.10	0.10	
Fe ³⁺	0.05	0.07	0.04	0.08	0.11	0.07	0.23	0.51	0.34	0.07	0.07	0.36	0.74	0.40	0.09	0.06	0.08	0.09	
Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	
Mg	0.65	0.58	0.70	0.55	0.71	0.74	0.56	0.48	0.29	0.71	0.55	0.18	0.02	0.19	0.91	0.92	0.92	0.91	
Ca	0.82	0.83	0.80	0.83	0.81	0.80	0.22	0.12	0.03	0.84	0.85	0.58	0.09	0.58	0.83	0.82	0.82	0.82	
Na	0.06	0.06	0.05	0.08	0.08	0.05	0.33	0.49	0.53	0.05	0.07	0.42	0.92	0.40	0.02	0.02	0.02	0.02	
K	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Cr	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.03	0.03	
Ni	0.00	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	
Total	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	
Mg #	59	53	63	51	66	65	44	37	25	65	52	19	3	19	83	83	83	83	
Wo	42.78	43.14	42.11	43.48	43.07	41.42	14.71	8.45	2.21	43.51	44.62	37.92	9.31	36.48	42.91	42.68	42.48	42.65	
En	34.01	30.06	36.53	28.75	37.50	38.34	37.42	33.89	24.02	36.75	28.91	11.72	2.51	11.91	47.13	47.69	48.03	47.54	
Fs	23.21	26.79	21.36	27.78	19.43	20.24	47.87	57.66	73.77	19.73	26.46	50.36	88.18	51.61	9.96	9.63	9.50	9.80	
Name															Aug.	Aug.	Aug.	Aug.	
Aeg	4.98	5.80	4.48	7.14	8.14	5.05	23.12	34.45	33.05	5.05	6.19	28.42	46.47	28.54					
Jd	2.68	2.90	2.62	3.70	3.99	2.55	15.63	16.89	20.83	2.55	3.14	15.48	26.20	14.56					
Di	92.34	91.30	92.90	89.15	87.87	92.40	61.25	48.67	46.12	92.41	90.67	56.10	27.33	56.91					
Name	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aeg.-Aug.	Aeg.	Aeg.	Aug.	Aug.	Aeg.-aug.	Aeg.	Aeg.-Aug.					

Table C. 3. Microprobe analyses of pyroxenes in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD10 Dolerite													
Point	7/1	7/2	7/3	12/1	12/2	12/3	12/4	13/1	13/2	13/3	13/4	14/1	14/2	14/3
SiO ₂	51.03	51.06	50.68	51.34	51.20	50.10	51.72	51.41	51.05	51.47	51.71	50.62	49.69	51.30
TiO ₂	0.45	0.41	0.48	0.45	0.48	0.83	0.43	0.46	0.49	0.61	0.42	0.67	1.13	0.59
Al ₂ O ₃	3.46	3.18	3.76	3.40	3.44	4.82	3.25	3.37	3.57	3.21	3.04	4.11	4.42	3.84
Fe ₂ O ₃ *	2.96	3.64	3.63	2.51	2.60	2.87	2.18	2.97	3.29	3.34	2.89	3.25	3.23	2.89
FeO*	3.69	3.15	3.51	4.27	3.99	4.46	4.18	3.67	3.73	4.40	3.66	5.84	5.58	5.65
FeO _T	6.35	6.42	6.78	6.53	6.33	7.04	6.14	6.34	6.69	7.40	6.26	8.76	8.49	8.25
MnO	0.15	0.15	0.16	0.15	0.12	0.16	0.15	0.13	0.14	0.15	0.13	0.23	0.17	0.19
MgO	16.72	16.97	16.74	16.97	16.74	16.36	16.95	16.83	16.64	16.94	17.11	16.96	15.65	17.55
CaO	20.88	20.99	20.65	20.35	20.66	19.99	20.74	20.83	20.89	20.49	20.79	18.50	19.89	18.46
Na ₂ O	0.22	0.20	0.22	0.22	0.26	0.27	0.23	0.29	0.25	0.22	0.27	0.23	0.27	0.22
K ₂ O	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
Cr ₂ O ₃	0.99	0.96	1.01	0.93	1.00	0.95	0.92	0.99	1.00	0.35	0.86	0.46	0.25	0.46
NiO	0.01	0.01	0.05	0.03	0.02	0.02	0.02	0.05	0.04	0.04	0.00	0.02	0.04	0.08
Total	100.55	100.73	100.89	100.62	100.51	100.83	100.78	101.00	101.08	101.22	100.89	100.90	100.33	101.23
<i>Structural formula per 4 cations</i>														
Si	1.87	1.86	1.85	1.87	1.87	1.83	1.88	1.87	1.86	1.87	1.88	1.85	1.83	1.86
Al	0.15	0.14	0.16	0.15	0.15	0.21	0.14	0.14	0.15	0.14	0.13	0.18	0.19	0.16
Ti	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.02	0.03	0.02
Fe ²⁺	0.11	0.10	0.11	0.13	0.12	0.14	0.13	0.11	0.11	0.13	0.11	0.18	0.17	0.17
Fe ³⁺	0.08	0.10	0.10	0.07	0.07	0.08	0.06	0.08	0.09	0.09	0.08	0.09	0.09	0.08
Mn	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	0.01
Mg	0.91	0.92	0.91	0.92	0.91	0.89	0.92	0.91	0.90	0.92	0.93	0.92	0.86	0.95
Ca	0.82	0.82	0.81	0.80	0.81	0.78	0.81	0.81	0.82	0.80	0.81	0.72	0.79	0.72
Na	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
K	0.00	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
Cr	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.01	0.02	0.01	0.01	0.01
Ni	0.00	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
Total	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
Mg #	82	82	81	82	82	81	83	83	82	80	83	78	77	79
Wo	42.52	42.31	41.94	41.48	42.26	41.43	42.23	42.34	42.40	41.11	42.01	37.80	41.19	37.43
En	47.38	47.59	47.31	48.13	47.64	47.18	48.02	47.60	47.00	47.30	48.11	48.22	45.09	49.51
Fs	10.09	10.10	10.75	10.39	10.11	11.39	9.76	10.06	10.60	11.59	9.87	13.97	13.72	13.06
Name	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.	Aug.

Total Fe reported as FeO. Fe²⁺ and Fe³⁺ calculated from perfect stoichiometry. Rock unit abbreviations are as in Table A. C = core; R = rim; Rep. = repeat analysis; Aug. = augite; Di. = diopside; Aeg. = aegirine. Data in italics were analysed at the GFZ Potsdam (see Analytical Methods).

Table C. 4. Microprobe analyses of Fe-Ti oxides in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD39 BOM								TOD40 BOM						TOD21 IOM			
Point	10/2	10/3	10/4	10/5	12/11 H	17/1	17/4	17/5	6/1	6/2	11/4	11/5	12/6	12/7	7/1	7/2	8/1	8/2
SiO ₂	0.00	0.01	0.01	0.00	0.01	0.04	0.89	0.14	0.02	0.03	0.02	0.05	0.01	0.04	0.00	0.02	0.02	0.00
TiO ₂	48.01	48.40	48.10	47.89	50.18	10.52	15.13	17.84	50.38	9.03	52.36	10.80	51.03	8.47	53.10	49.97	47.98	47.80
Al ₂ O ₃	0.11	0.09	0.10	0.10	0.07	2.94	3.38	3.73	0.10	4.03	0.04	2.59	0.10	3.95	0.07	0.08	0.07	0.11
Fe ₂ O ₃ *	14.31	14.63	14.26	14.46	8.77	41.26	32.20	26.80	7.61	37.62	5.50	38.64	6.94	39.37	2.57	9.87	14.94	15.29
FeO*	29.70	30.11	31.51	29.92	32.45	36.14	37.90	39.43	34.03	36.33	33.54	35.98	35.10	36.27	38.09	32.36	31.31	31.45
FeO _T	42.58	43.28	44.34	42.94	40.34	73.27	66.87	63.55	40.87	70.18	38.49	70.75	41.35	71.70	40.40	41.24	44.75	45.21
MnO	0.55	0.57	0.43	0.56	0.55	0.25	0.37	0.54	0.45	0.22	0.46	0.28	0.43	0.31	0.48	0.53	0.42	0.45
MgO	7.14	7.03	6.15	7.01	6.73	3.04	5.60	5.40	6.00	1.60	7.30	3.06	5.73	1.30	5.10	6.68	6.34	6.16
CaO	0.01	0.00	0.01	0.01	0.01	0.15	0.05	0.06	0.02	0.00	0.01	0.03	0.01	0.03	0.00	0.00	0.01	0.01
Cr ₂ O ₃	0.47	0.50	0.62	0.54	0.42	5.76	5.43	6.24	0.41	7.07	0.24	5.98	0.39	6.50	0.43	0.39	0.58	0.52
NiO	0.14	0.12	0.12	0.06	0.10	0.34	0.23	0.24	0.10	0.43	0.06	0.28	0.11	0.40	0.08	0.10	0.09	0.07
ZnO	0.00	0.00	0.03	0.00	0.00	0.04	0.09	0.07	0.00	0.33	0.00	0.08	0.00	0.23	0.00	0.05	0.00	0.02
V ₂ O ₅					0.18				0.29	2.27	0.00	1.61	0.24	2.08				
CoO					0.03				0.03	0.05	0.02	0.01	0.03	0.05				
Total	100.45	101.52	101.39	100.55	99.50	100.48	101.30	100.51	99.43	99.01	99.55	99.39	100.13	99.00	99.93	100.05	101.77	101.88
<i>Structural formula per 3 cations for spinel group or 2 cations for haematite group</i>																		
Si	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Al	0.00	0.00	0.00	0.00	0.00	0.13	0.14	0.16	0.00	0.18	0.00	0.11	0.00	0.17	0.00	0.00	0.00	0.00
Ti	0.87	0.86	0.87	0.86	0.91	0.29	0.40	0.47	0.92	0.25	0.95	0.30	0.93	0.24	0.97	0.91	0.86	0.86
Fe ²⁺	0.60	0.60	0.63	0.60	0.66	1.10	1.11	1.17	0.69	1.14	0.67	1.11	0.71	1.14	0.77	0.65	0.62	0.63
Fe ³⁺	0.26	0.26	0.26	0.26	0.16	1.13	0.85	0.71	0.14	1.06	0.10	1.08	0.13	1.11	0.05	0.18	0.27	0.27
Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Mg	0.26	0.25	0.22	0.25	0.24	0.16	0.29	0.28	0.22	0.09	0.26	0.17	0.21	0.07	0.18	0.24	0.23	0.22
Ca	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	0.00	0.00
Cr	0.01	0.01	0.01	0.01	0.01	0.17	0.15	0.17	0.01	0.21	0.00	0.17	0.01	0.19	0.00	0.00	0.00	0.00
Ni	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
Zn	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	0.01	0.00	0.00	0.00	0.00
V ³⁺	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.03	0.00	0.04	0.00	0.00	0.00	0.00
Co	0.00	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
Total	2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00
TiO ₂	50.34	50.14	49.38	50.07	52.80	11.43	16.91	20.16	52.57	10.37	55.02	12.07	52.60	9.60	54.17	52.14	49.09	48.74
FeO	34.63	34.69	35.97	34.79	37.96	43.69	47.09	49.54	39.49	46.40	39.20	44.72	40.24	45.73	43.21	37.55	35.62	35.67
Fe ₂ O ₃	15.02	15.17	14.65	15.13	9.24	44.88	36.00	30.30	7.94	43.23	5.78	43.21	7.16	44.67	2.62	10.31	15.29	15.60
Usp %						35.36	49.55	60.56		37.95		38.25		35.04				
Ilm %	84.76	84.61	85.20	84.65	90.65				91.98		94.14		92.78		97.36	89.57	84.54	84.24
Name	<i>Ilm.</i>	<i>Ilm.</i>	<i>Ilm.</i>	<i>Ilm.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Ilm.</i>	<i>Ilm.</i>	<i>Ilm.</i>

Table C. 4. Microprobe analyses of Fe-Ti oxides in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD21 IOM				TOD45 MOG										TOD47 FOG			
Point	8/3	20/2	20/3	20/4	4/1	4/2	4/3	4/5	4/6	8/6 H	8/3	13/1	13/2	13/3	6/1 L	6/2 H	6/2 L	6/3 L
SiO ₂	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.07	0.05	0.06	0.02	0.00	0.00	0.02	0.01	0.14	0.00	0.02
TiO ₂	46.79	50.30	49.83	51.90	50.43	50.05	48.81	8.65	17.15	4.35	49.81	50.39	52.62	52.30	49.91	1.20	49.55	49.88
Al ₂ O ₃	0.11	0.02	0.02	0.06	0.07	0.02	0.02	2.96	5.38	1.35	0.02	0.09	0.12	0.22	0.08	1.16	0.06	0.08
Fe ₂ O ₃ *	15.75	10.43	10.98	3.24	7.20	8.49	12.08	50.54	30.74	56.93	8.91	6.75	1.09	1.15	6.79	63.02	10.82	10.50
FeO*	32.14	32.35	32.76	39.12	37.87	37.37	35.93	37.63	43.65	33.96	38.18	38.72	41.42	40.55	36.29	31.00	35.27	36.05
FeO _T	46.32	41.73	42.64	42.04	44.35	45.01	46.80	83.11	71.32	85.19	46.20	44.80	42.40	41.58	42.40	87.71	45.01	45.50
MnO	0.36	0.62	0.54	0.39	1.14	1.20	1.27	0.23	0.41	0.18	1.31	0.85	0.87	1.09	0.78	0.08	0.83	0.77
MgO	5.35	6.78	6.36	3.83	3.49	3.56	3.67	1.40	2.38	0.33	2.88	3.19	2.79	2.95	4.33	0.50	4.66	4.48
CaO	0.00	0.00	0.00	0.02	0.01	0.02	0.02	0.01	0.00	0.04	0.08	0.01	0.00	0.01	0.00	0.02	0.00	0.01
Cr ₂ O ₃	0.89	0.45	0.37	0.66	0.04	0.00	0.04	0.12	0.11	0.03	0.03	0.00	0.05	0.01	0.00	0.07	0.05	0.04
NiO	0.00	0.09	0.09	0.12	0.03	0.02	0.09	0.13	0.11	0.16	0.03	0.00	0.00	0.04	0.06	0.23	0.08	0.06
ZnO	0.04	0.00	0.01	0.01	0.05	0.04	0.00	0.13	0.17	0.04	0.00	0.00	0.05	0.05	0.02	0.02	0.01	0.00
V ₂ O ₅										1.33					0.05	1.70		
CoO										0.01					0.02	0.02		
Total	101.46	101.08	100.98	99.40	100.34	100.78	101.95	101.86	100.18	98.78	101.28	100.02	99.01	98.41	98.34	99.16	101.34	101.88
<i>Structural formula per 3 cations for spinel group or 2 cations for haematite group</i>																		
Si	0.00	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
Al	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.23	0.06	0.00	0.00	0.00	0.01	0.00	0.05	0.00	0.00
Ti	0.85	0.90	0.90	0.96	0.93	0.92	0.89	0.24	0.47	0.13	0.92	0.94	0.99	0.99	0.93	0.03	0.90	0.90
Fe ²⁺	0.65	0.65	0.66	0.81	0.78	0.76	0.73	1.15	1.32	1.10	0.78	0.80	0.86	0.85	0.76	1.00	0.71	0.73
Fe ³⁺	0.29	0.19	0.20	0.06	0.13	0.16	0.22	1.39	0.83	1.65	0.16	0.13	0.02	0.02	0.13	1.83	0.20	0.19
Mn	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.01	0.01	0.01	0.03	0.02	0.02	0.02	0.02	0.00	0.02	0.02
Mg	0.19	0.24	0.23	0.14	0.13	0.13	0.13	0.08	0.13	0.02	0.11	0.12	0.10	0.11	0.16	0.03	0.17	0.16
Ca	0.00	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
Cr	0.00	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
Ni	0.00	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
Zn	0.00	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
V ³⁺	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
Co	0.00	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
Total	2.00	2.00	2.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00
TiO ₂	47.60	52.01	51.24	52.61	50.56	50.00	48.40	8.56	17.78	4.39	49.23	50.28	52.74	53.07	51.42	1.22	49.75	49.64
FeO	36.36	37.20	37.46	44.10	42.22	41.51	39.62	41.41	50.33	38.11	41.97	42.97	46.16	45.76	41.58	34.91	39.38	39.90
Fe ₂ O ₃	16.04	10.79	11.30	3.29	7.23	8.49	11.99	50.04	31.89	57.50	8.81	6.74	1.10	1.16	7.00	63.87	10.88	10.46
Usp %								25.76	56.15	13.52						3.70		
Ilm %	83.84	89.07	88.58	96.70	92.75	91.48	87.96				91.17	93.24	98.90	98.83	92.96		89.06	89.48
Name	<i>ilm.</i>	<i>ilm.</i>	<i>ilm.</i>	<i>ilm.</i>	<i>ilm.</i>	<i>ilm.</i>	<i>ilm.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>ilm.</i>	<i>ilm.</i>	<i>ilm.</i>	<i>ilm.</i>	<i>ilm.</i>	<i>Mgt.</i>	<i>ilm.</i>	<i>ilm.</i>

Table C. 4. Microprobe analyses of Fe-Ti oxides in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD47 FOG							TOD26 FG											
	Point	6/4 L	6/7 H	13/3 L	13/4 H	13/5 H	13/1 L	13/5 H	3/1 H	3/1 H	3/2 L	3/3 H	3/4 H	3/5 L	9/3 H	9/4 H	9/6 L	9/7 H	9/10 H
SiO ₂	0.00	0.12	0.00	0.13	0.04	0.01	1.17	0.05	0.07	0.00	2.00	0.24	0.01	1.51	0.56	0.04	0.21	0.05	
TiO ₂	49.39	0.59	51.28	1.34	0.82	49.14	2.53	5.46	4.95	51.68	3.90	3.93	49.92	4.41	4.23	53.87	8.40	3.94	
Al ₂ O ₃	0.07	3.78	0.08	1.03	0.93	0.08	2.66	3.98	3.20	0.04	4.11	2.76	1.28	1.85	4.09	0.05	1.83	2.19	
Fe ₂ O ₃ *	10.64	64.71	5.37	63.45	65.00	12.52	59.88	51.38	56.54	4.10	52.31	58.14	5.54	54.01	54.05	0.01	51.11	59.08	
FeO*	35.81	30.61	35.86	31.01	30.73	33.47	33.95	34.17	34.85	39.16	32.89	33.84	40.10	34.55	33.78	40.48	38.43	33.96	
FeO _T	45.38	88.84	40.69	88.10	89.22	44.74	87.83	80.40	85.73	42.85	79.97	86.16	45.08	83.15	82.42	40.49	84.42	87.12	
MnO	0.85	0.02	0.77	0.12	0.08	0.92	0.24	0.32	0.18	1.03	0.14	0.11	1.53	0.04	0.00	0.75	0.16	0.10	
MgO	4.30	1.33	5.28	0.65	0.53	5.38	0.92	1.01	0.91	3.39	2.56	0.89	1.79	0.91	1.11	3.93	0.63	0.48	
CaO	0.01	0.01	0.00	0.06	0.02	0.02	0.08	0.00	0.04	0.02	0.45	0.06	0.00	0.64	0.08	0.05	0.04	0.04	
Cr ₂ O ₃	0.08	0.23	0.00	0.09	0.04	0.04	0.19	0.05	0.20	0.03	0.17	0.25	0.07	0.19	0.24	0.00	0.22	0.11	
NiO	0.07	0.19	0.03	0.20	0.20	0.05	0.16	0.16	0.12	0.03	0.09	0.20	0.02	0.19	0.17	0.06	0.11	0.22	
ZnO	0.00	0.00	0.01	0.02	0.01	0.07	0.10	0.03	0.00	0.02	0.06	0.02	0.00	0.02	0.17	0.07	0.02	0.01	
V ₂ O ₅			0.00	1.71	1.60			1.96											
CoO			0.03	0.02	0.03			0.05											
Total	101.22	101.61	98.71	99.82	100.03	101.71	101.89	98.62	101.07	99.53	98.62	100.45	100.26	98.33	98.51	99.34	101.18	100.20	
<i>Structural formula per 3 cations for spinel group or 2 cations for haematite group</i>																			
Si	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.07	0.01	0.00	0.06	0.02	0.00	0.01	0.00	
Al	0.00	0.16	0.00	0.05	0.04	0.00	0.12	0.18	0.14	0.00	0.18	0.12	0.04	0.08	0.18	0.00	0.08	0.10	
Ti	0.90	0.02	0.95	0.04	0.02	0.89	0.07	0.16	0.14	0.96	0.11	0.11	0.93	0.13	0.12	1.00	0.23	0.11	
Fe ²⁺	0.73	0.94	0.74	0.99	0.98	0.67	1.04	1.08	1.08	0.81	1.01	1.06	0.83	1.10	1.06	0.83	1.19	1.07	
Fe ³⁺	0.19	1.79	0.10	1.83	1.87	0.23	1.65	1.47	1.57	0.08	1.45	1.63	0.10	1.54	1.53	0.00	1.43	1.68	
Mn	0.02	0.00	0.02	0.00	0.00	0.02	0.01	0.01	0.01	0.02	0.00	0.00	0.03	0.00	0.00	0.02	0.00	0.00	
Mg	0.16	0.07	0.19	0.04	0.03	0.19	0.05	0.06	0.05	0.13	0.14	0.05	0.07	0.05	0.06	0.14	0.04	0.03	
Ca	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	0.03	0.00	0.00	0.00	0.00	
Cr	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	
Ni	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.01	
Zn	0.00	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	
V ³⁺	0.00	0.00	0.00	0.04	0.03	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	
Co	0.00	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	
Total	2.00	3.00	2.00	3.00	3.00	2.00	3.00	3.00	3.00	2.00	3.00	3.00	2.00	3.00	3.00	2.00	3.00	3.00	
TiO ₂	49.46	0.59	53.12	1.35	0.82	49.69	2.52	5.76	4.94	52.03	4.20	3.94	49.89	4.55	4.41	54.47	8.21	3.91	
FeO	39.88	34.25	41.31	34.72	34.16	37.64	37.68	40.05	38.65	43.84	39.41	37.73	44.57	39.66	39.18	45.52	41.78	37.46	
Fe ₂ O ₃	10.66	65.16	5.57	63.93	65.02	12.67	59.80	54.19	56.42	4.13	56.39	58.33	5.54	55.79	56.41	0.01	50.00	58.64	
Usp %		1.81		4.03	2.46		7.83	18.60	15.31		12.60	12.10		13.80	14.09		25.13	12.00	
Ilm %	89.28		94.39							95.86			94.45			99.99			
Name	<i>Ilm.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Mgt.</i>	

Table C. 4. Microprobe analyses of Fe-Ti oxides in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD26 FG															TOD13C FMG		
Point	11/2 H	11/5 H	11/6 H	11/7 L	11/8 L	11/9 H	11/10 H	14/6 L	14/2 L	14/3 H	14/4 H	14/6 H	14/7 L	14/9 L	14/10 H	x/1	1/4 H	1/1 H
SiO ₂	0.47	0.04	0.02	0.07	0.34	0.04	0.07	0.04	0.00	0.80	0.02	0.03	0.09	0.00	0.04	0.04	0.05	0.04
TiO ₂	4.50	4.89	4.78	29.70	37.11	4.41	5.04	50.40	51.80	7.96	4.96	4.25	49.53	52.31	13.56	9.36	6.96	7.97
Al ₂ O ₃	4.19	4.43	3.01	9.66	1.33	2.54	1.81	0.04	0.19	2.68	2.62	8.00	0.41	0.32	2.61	3.58	4.03	3.24
Fe ₂ O ₃ *	54.40	54.87	55.30	35.15	27.63	58.06	56.36	6.48	3.63	49.64	57.50	51.98	6.01	1.36	40.83	45.03	48.94	51.67
FeO*	33.80	33.53	34.15	18.88	27.89	33.73	34.63	36.39	38.63	37.95	34.97	31.85	37.81	38.90	42.76	35.54	33.97	35.44
FeO _T	82.75	82.90	83.91	50.51	52.75	85.97	85.35	42.22	41.89	82.62	86.71	78.62	43.21	40.12	79.50	76.06	78.01	81.94
MnO	0.12	0.11	0.09	0.39	0.54	0.12	0.15	0.82	0.90	0.16	0.24	0.14	0.77	1.12	0.42	0.44	0.32	0.44
MgO	1.22	1.64	0.64	4.04	2.80	0.92	0.55	4.53	3.89	1.20	0.75	2.55	3.28	3.90	0.68	2.30	2.06	2.25
CaO	0.09	0.03	0.10	0.02	0.15	0.04	0.07	0.00	0.00	0.11	0.01	0.04	0.02	0.01	0.04	0.01	0.00	0.01
Cr ₂ O ₃	0.21	0.22	0.24	0.13	0.12	0.17	0.27	0.00	0.05	0.19	0.16	0.21	0.08	0.05	0.19	0.01	0.01	0.21
NiO	0.11	0.19	0.21	0.10	0.07	0.19	0.15	0.04	0.03	0.13	0.15	0.11	0.05	0.04	0.13	0.07	0.07	0.04
ZnO	0.11	0.02	0.07	0.23	0.06	0.06	0.00	0.02	0.09	0.03	0.07	0.17	0.02	0.00	0.15	0.08	0.06	0.09
V ₂ O ₅								0.33								1.76	1.99	
CoO								0.02								0.05	0.07	
Total	99.27	99.96	98.60	98.35	98.05	100.32	99.12	99.11	99.20	100.86	101.45	99.34	98.09	98.01	101.43	98.27	98.53	101.41
<i>Structural formula per 3 cations for spinel group or 2 cations for haematite group</i>																		
Si	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Al	0.18	0.19	0.13	0.28	0.04	0.11	0.08	0.00	0.01	0.12	0.11	0.34	0.01	0.01	0.11	0.16	0.18	0.14
Ti	0.13	0.14	0.14	0.54	0.71	0.12	0.14	0.94	0.96	0.22	0.14	0.12	0.93	0.98	0.37	0.26	0.20	0.22
Fe ²⁺	1.05	1.04	1.09	0.38	0.59	1.06	1.10	0.75	0.80	1.17	1.08	0.97	0.79	0.81	1.31	1.12	1.07	1.08
Fe ³⁺	1.53	1.53	1.58	0.64	0.53	1.63	1.62	0.12	0.07	1.38	1.60	1.42	0.11	0.03	1.13	1.27	1.38	1.42
Mn	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.02	0.02	0.00	0.01	0.00	0.02	0.02	0.01	0.01	0.01	0.01
Mg	0.07	0.09	0.04	0.15	0.11	0.05	0.03	0.17	0.14	0.07	0.04	0.14	0.12	0.15	0.04	0.13	0.12	0.12
Ca	0.00	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
Cr	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01
Ni	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	0.00	0.00
Zn	0.00	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
V ³⁺	0.00	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	0.04	0.00
Co	0.00	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
Total	3.00	3.00	3.00	2.00	2.00	3.00	3.00	2.00	2.00	3.00	3.00	3.00	2.00	2.00	3.00	3.00	3.00	3.00
TiO ₂	4.66	5.04	4.87	34.59	38.75	4.41	5.04	51.77	52.65	7.97	4.89	4.64	50.76	53.97	13.30	9.96	7.43	8.04
FeO	38.94	38.41	38.72	24.45	32.38	37.50	38.53	41.57	43.66	42.27	38.35	38.63	43.08	44.63	46.64	42.08	40.31	39.78
Fe ₂ O ₃	56.40	56.56	56.41	40.96	28.87	58.09	56.42	6.66	3.69	49.76	56.76	56.74	6.16	1.40	40.07	47.96	52.26	52.18
Usp %	14.72	15.51	15.24			13.30	15.36			24.62	14.98	14.96			41.23	29.71	22.67	23.14
Ilm %				58.68	71.05			93.30	96.30				93.82	98.59				
Name	Mgt.	Mgt.	Mgt.	Ilm.	Ilm.	Mgt.	Mgt.	Ilm.	Ilm.	Mgt.	Mgt.	Mgt.	Ilm.	Ilm.	Mgt.	Mgt.	Mgt.	Mgt.

Table C. 4. Microprobe analyses of Fe-Ti oxides in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD13C FMG											TOD53 FMOG				TOD75 FL		
Point	1/2 H	1/3 H	1/4 H	1/6 L	1/7 L	8/1 L	8/3 H	8/5 H	8/6 L	8/7 H	8/8 L	10/2 L	2/3 H	8/5 H	8/6 L	3/6 L	3/7 H	3/8 H
SiO ₂	0.07	0.03	0.04	0.00	0.03	0.00	0.04	0.03	0.00	0.08	0.02	0.05	1.57	0.13	0.04	0.01	0.08	0.09
TiO ₂	8.91	8.38	8.86	53.07	52.29	51.90	5.28	6.21	52.77	9.71	52.15	51.94	7.21	2.62	52.13	50.73	10.88	10.39
Al ₂ O ₃	3.79	3.09	2.86	0.06	0.38	0.03	1.24	3.19	0.04	3.34	0.02	0.16	3.44	5.14	0.08	0.03	2.70	2.88
Fe ₂ O ₃ *	50.00	51.14	48.45	6.19	3.65	8.28	57.12	53.66	6.10	47.38	8.79	2.49	44.63	53.96	3.03	3.62	43.23	43.69
FeO*	33.90	35.91	35.29	32.32	35.93	32.39	33.71	33.49	32.44	36.84	31.78	38.85	36.18	31.15	37.07	42.38	39.83	39.95
FeO _T	78.89	81.93	78.89	37.89	39.22	39.84	85.11	81.78	37.93	79.47	39.69	41.09	76.34	79.70	39.79	45.64	78.73	79.26
MnO	0.25	0.47	0.30	0.49	0.41	0.61	0.32	0.36	0.55	0.35	0.89	0.40	0.16	0.17	0.72	1.35	0.50	0.08
MgO	3.98	2.19	2.15	8.31	5.95	7.66	1.04	2.06	8.01	2.31	7.93	4.18	1.83	1.44	5.09	1.02	0.40	0.30
CaO	0.00	0.00	0.02	0.01	0.02	0.00	0.01	0.04	0.00	0.01	0.00	0.00	0.16	0.04	0.00	0.01	0.06	0.07
Cr ₂ O ₃	0.13	0.19	0.15	0.00	0.01	0.06	0.15	0.19	0.02	0.15	0.02	0.00	0.01	0.00	0.00	0.03	0.00	0.00
NiO	0.14	0.11	0.05	0.00	0.04	0.00	0.13	0.07	0.07	0.05	0.01	0.02	0.07	0.07	0.02	0.02	0.03	0.05
ZnO	0.06	0.04	0.07	0.06	0.02	0.01	0.11	0.04	0.04	0.02	0.01	0.00	0.03	0.07	0.00	0.01	0.19	0.14
V ₂ O ₅												0.00	2.18	3.60	0.13	0.00	0.76	0.80
CoO												0.04	0.04	0.03	0.04	0.02	0.04	0.02
Total	101.22	101.55	98.31	100.52	98.74	100.94	99.18	99.35	100.06	100.23	101.65	98.13	97.51	98.42	98.35	99.23	98.70	98.46
<i>Structural formula per 3 cations for spinel group or 2 cations for haematite group</i>																		
Si	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
Al	0.16	0.13	0.13	0.00	0.01	0.00	0.06	0.14	0.00	0.14	0.00	0.00	0.15	0.23	0.00	0.00	0.12	0.13
Ti	0.24	0.23	0.25	0.94	0.96	0.93	0.15	0.17	0.94	0.27	0.92	0.97	0.21	0.07	0.97	0.96	0.31	0.30
Fe ²⁺	1.02	1.09	1.11	0.64	0.73	0.64	1.07	1.04	0.65	1.13	0.62	0.81	1.15	0.99	0.77	0.90	1.27	1.27
Fe ³⁺	1.35	1.40	1.37	0.11	0.07	0.15	1.64	1.50	0.11	1.31	0.16	0.05	1.27	1.54	0.06	0.07	1.24	1.25
Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.03	0.02	0.00
Mg	0.21	0.12	0.12	0.29	0.22	0.27	0.06	0.11	0.28	0.13	0.28	0.16	0.10	0.08	0.19	0.04	0.02	0.02
Ca	0.00	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
Cr	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	0.00	0.00	0.00	0.00	0.00
Ni	0.00	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
Zn	0.00	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
V ³⁺	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.07	0.00	0.00	0.02	0.02
Co	0.00	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
Total	3.00	3.00	3.00	2.00	2.00	2.00	3.00	3.00	2.00	3.00	2.00	2.00	3.00	3.00	2.00	2.00	3.00	3.00
TiO ₂	9.22	8.42	9.17	55.74	54.52	53.95	5.28	6.39	55.58	9.90	54.16	53.20	7.83	2.87	54.09	49.99	11.05	10.54
FeO	39.00	40.14	40.64	37.76	41.66	37.44	37.52	38.33	37.99	41.76	36.70	44.25	43.68	37.96	42.77	46.44	45.00	45.09
Fe ₂ O ₃	51.78	51.44	50.19	6.50	3.81	8.61	57.20	55.28	6.43	48.34	9.14	2.55	48.49	59.17	3.14	3.57	43.95	44.37
Usp %	24.63	24.22	26.31				15.16	18.40					25.27	9.60			34.98	34.17
Ilm %				93.38	96.15	91.25			93.46		90.71	97.44			96.84	96.43		
Name	Mgt.	Mgt.	Mgt.	Ilm.	Ilm.	Ilm.	Mgt.	Mgt.	Ilm.	Mgt.	Ilm.	Ilm.	Mgt.	Mgt.	Ilm.	Ilm.	Mgt.	Mgt.

Table C. 4. Microprobe analyses of Fe-Ti oxides in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD84 Bostonite															
	Point	1/1 L	1/2 L	1/3 L	1/4 H	1/5 H	1/6 H	4/3 H	4/4 L	4/5 L	11/1 H	11/4 H	17/2 H	17/3 H	17/5 L	17/6 L
SiO ₂	0.03	0.00	0.00	0.03	0.05	0.12	0.13	0.02	0.03	0.07	0.07	0.63	0.23	0.05	0.07	0.15
TiO ₂	50.58	51.84	50.70	0.55	1.19	0.88	1.46	46.97	51.26	0.78	0.81	4.79	20.69	52.58	52.82	3.29
Al ₂ O ₃	0.02	0.02	0.02	0.09	0.09	0.12	0.11	0.04	0.04	0.05	0.07	0.14	0.05	0.02	0.04	0.05
Fe ₂ O ₃ *	3.76	1.08	3.78	68.91	66.94	67.28	66.83	11.71	2.74	68.22	68.22	58.95	28.63	0.00	0.00	63.29
FeO*	41.80	43.88	42.32	31.91	32.19	32.12	32.97	38.37	41.09	31.99	32.13	35.20	48.25	42.32	41.13	34.16
FeO _T	45.18	44.85	45.73	93.92	92.43	92.66	93.11	48.90	43.55	93.37	93.52	88.25	74.01	42.32	41.13	91.11
MnO	3.12	2.28	2.72	0.01	0.10	0.10	0.10	2.64	4.45	0.12	0.11	0.30	1.65	3.58	4.97	0.26
MgO	0.19	0.14	0.17	0.03	0.07	0.00	0.00	0.11	0.06	0.03	0.04	0.04	0.10	0.09	0.13	0.04
CaO	0.00	0.02	0.03	0.01	0.01	0.01	0.02	0.08	0.05	0.03	0.02	0.53	0.17	0.08	0.09	0.12
Cr ₂ O ₃	0.00	0.02	0.01	0.12	0.18	0.14	0.09	0.05	0.04	0.14	0.16	0.11	0.19	0.04	0.05	0.15
NiO	0.26	0.09	0.19	0.13	0.00	0.03	0.00	0.25	0.32	0.03	0.08	0.12	0.20	0.21	0.35	0.21
ZnO	0.00	0.00	0.00	0.09	0.04	0.04	0.05	0.00	0.00	0.04	0.02	0.05	0.05	0.03	0.00	0.04
V ₂ O ₅																
CoO																
Total	99.75	99.39	99.95	101.89	100.88	100.84	101.77	100.39	100.09	101.50	101.73	100.94	100.25	99.00	99.64	101.76
<i>Structural formula per 3 cations for spinel group or 2 cations for haematite group</i>																
Si	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.01
Al	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Ti	0.96	0.99	0.96	0.02	0.03	0.03	0.04	0.89	0.97	0.02	0.02	0.14	0.58	1.01	1.01	0.09
Fe ²⁺	0.89	0.93	0.89	1.01	1.03	1.02	1.04	0.81	0.87	1.01	1.02	1.11	1.52	0.90	0.87	1.08
Fe ³⁺	0.07	0.02	0.07	1.96	1.92	1.93	1.90	0.22	0.05	1.95	1.94	1.68	0.81	0.00	0.00	1.80
Mn	0.07	0.05	0.06	0.00	0.00	0.00	0.00	0.06	0.10	0.00	0.00	0.01	0.05	0.08	0.11	0.01
Mg	0.01	0.01	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
Ca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00
Cr	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Ni	0.00	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
Zn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.01
V ³⁺	0.00	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
Co	0.00	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
Total	2.00	2.00	2.00	3.00	3.00	3.00	3.00	2.00	2.00	3.00	3.00	3.00	3.00	2.00	2.00	3.00
TiO ₂	50.17	50.97	49.92	0.52	1.14	0.85	1.39	46.34	51.42	0.74	0.77	4.65	20.09	52.77	53.59	3.14
FeO	46.10	47.97	46.35	33.80	34.43	34.37	34.92	42.10	45.83	34.00	34.09	38.04	52.10	47.23	46.41	36.31
Fe ₂ O ₃	3.73	1.06	3.73	65.68	64.43	64.78	63.69	11.56	2.75	65.25	65.13	57.31	27.81	0.00	0.00	60.54
Usp %				1.56	3.41	2.55	4.18			2.21	2.30	13.63	58.20			9.27
Ilm %	96.27	98.94	96.27					88.43	97.25					100.00	100.00	
Name	<i>Ilm.</i>	<i>Ilm.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Ilm.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Mgt.</i>	<i>Ilm.</i>	<i>Ilm.</i>	<i>Mgt.</i>

Table C. 4. Microprobe analyses of Fe-Ti oxides in rocks of the Doros suite (and associated dolerite) continued.

Sample	TOD10 Dolerite							
Point	9/1	9/2	9/3	9/4	15/1	15/2	15/3	15/4
SiO ₂	0.10	0.06	0.09	0.07	0.05	0.04	0.04	0.05
TiO ₂	0.63	0.61	0.62	0.60	1.48	1.34	1.24	1.20
Al ₂ O ₃	18.06	18.33	18.36	18.27	14.34	13.37	13.35	12.82
Fe ₂ O ₃ *	10.15	9.99	9.71	10.82	22.79	19.34	19.28	19.45
FeO*	14.63	14.81	16.40	16.66	18.75	18.94	18.86	18.71
FeO _T	23.77	23.80	25.14	26.39	39.26	36.35	36.21	36.21
MnO	0.12	0.10	0.16	0.14	0.16	0.21	0.12	0.16
MgO	13.60	13.41	12.36	12.07	10.67	10.56	10.54	10.56
CaO	0.02	0.01	0.00	0.02	0.04	0.02	0.01	0.01
Cr ₂ O ₃	43.52	43.09	42.66	42.42	32.49	37.08	37.24	37.77
NiO	0.21	0.15		0.18	0.15	0.12	0.10	0.14
ZnO	0.02	0.06	0.03	0.04	0.04	0.02	0.10	0.05
V ₂ O ₅								
CoO								
Total	101.07	100.63	100.57	101.37	101.03	101.05	100.89	100.93
<i>Structural formula per 3 cations for spinel group or 2 cations for haematite group</i>								
Si	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Al	0.66	0.67	0.68	0.67	0.55	0.51	0.51	0.49
Ti	0.01	0.01	0.01	0.01	0.04	0.03	0.03	0.03
Fe ²⁺	0.38	0.39	0.43	0.43	0.51	0.51	0.51	0.51
Fe ³⁺	0.24	0.23	0.23	0.25	0.55	0.47	0.47	0.48
Mn	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Mg	0.63	0.62	0.58	0.56	0.51	0.51	0.51	0.51
Ca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr	1.07	1.06	1.06	1.05	0.83	0.95	0.96	0.97
Ni	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Zn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V ³⁺	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Co	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
TiO ₂	2.31	2.27	2.17	2.02	3.29	3.20	2.98	2.88
FeO	60.14	60.81	63.81	61.85	46.19	50.44	50.54	50.17
Fe ₂ O ₃	37.55	36.92	34.02	36.14	50.53	46.35	46.48	46.94
Usp %	27.56	28.13	31.64	27.27	18.22	21.96	20.75	19.82
Ilm %								
Name	<i>Mg-Fe-Cr-Spl</i>	<i>Mg-Fe-Cr-Spl</i>	<i>Mg-Fe-Cr-Spl</i>	<i>Mg-Fe-Cr-Spl</i>	<i>Mg-Fe-Cr-Spl</i>	<i>Mg-Fe-Cr-Spl</i>	<i>Mg-Fe-Cr-Spl</i>	<i>Mg-Fe-Cr-Spl</i>

Total Fe reported as FeO. Fe²⁺ and Fe³⁺ calculated from perfect stoichiometry. Rock unit abbreviations are as in Table A. H = host; L = lamella; A = alteration; Ilm. = ilmenite; Mgt. = magnetite; Spl. = spinel. Ulvöspinel and ilmenite mol % calculated from the procedure of Stormer (1983). Data in italics were analysed at the GFZ Potsdam (see Analytical Methods).

Table C. 5. Microprobe analyses of amphiboles in the Doros bostonite.

Sample Point	TOD64 Bostonite								TOD84 Bostonite									
	7/1	7/2	7/4	7/5	10/1	10/2	10/3	10/5	6/35	6/2	12/41	12/1	12/2	12/3	16/43	16/4	16/7	16/8
SiO ₂	49.32	48.93	49.64	49.69	50.04	50.51	50.06	51.19	50.06	52.80	50.40	49.00	49.22	50.26	50.19	46.74	47.58	51.01
TiO ₂	1.99	1.86	2.03	2.40	2.26	2.14	2.45	2.20	2.02	1.45	1.92	2.09	1.94	1.81	1.90	2.18	2.13	2.11
Al ₂ O ₃	2.42	2.69	2.65	1.57	1.50	1.42	1.64	1.51	2.87	0.88	2.42	3.64	3.20	2.38	2.55	4.03	3.84	0.91
FeO _T	21.40	20.15	21.15	22.70	22.30	21.42	22.16	23.56	16.69	25.46	17.27	16.91	17.73	18.07	17.37	16.94	17.35	24.42
MnO	0.33	0.36	0.27	0.34	0.39	0.36	0.41	0.42	0.28	0.59	0.29	0.29	0.33	0.31	0.29	0.27	0.26	0.57
MgO	9.76	10.46	10.28	9.27	9.51	9.78	9.22	8.98	11.86	7.29	11.30	12.31	12.26	11.98	11.85	13.21	12.62	9.07
CaO	7.04	7.41	7.23	6.04	5.93	5.89	5.90	5.79	8.16	1.40	7.55	8.10	7.79	7.18	7.72	8.47	8.41	4.54
Na ₂ O	4.74	5.19	4.56	5.70	5.05	4.79	4.21	3.88	5.00	5.81	5.38	4.71	4.84	5.08	5.45	4.91	4.67	5.37
K ₂ O	1.29	1.20	1.25	1.41	1.31	1.28	1.39	1.35	1.13	1.57	1.20	1.09	1.12	1.15	1.17	1.10	1.13	1.32
Cr ₂ O ₃	0.00	0.00	0.03	0.01	0.02	0.03	0.00	0.01	0.00	0.00	0.01	0.00	0.05	0.03	0.00	0.04	0.00	0.00
NiO	0.00	0.03	0.00	0.00	0.00	0.03	0.01	0.05	0.02	0.06	0.00	0.06	0.03	0.00	0.03	0.05	0.04	0.06
Total	98.29	98.29	99.12	99.15	98.38	97.70	97.49	99.07	98.07	97.36	97.74	98.22	98.59	98.33	98.53	98.04	98.05	99.43
<i>Structural formula per 23 O</i>																		
Si	7.48	7.41	7.45	7.53	7.60	7.67	7.64	7.71	7.46	8.08	7.55	7.30	7.34	7.50	7.47	7.04	7.15	7.71
Al	0.43	0.48	0.47	0.28	0.27	0.25	0.30	0.27	0.50	0.16	0.43	0.64	0.56	0.42	0.45	0.72	0.68	0.16
Ti	0.23	0.21	0.23	0.27	0.26	0.24	0.28	0.25	0.23	0.17	0.22	0.23	0.22	0.20	0.21	0.25	0.24	0.24
Fe ²⁺ _T	2.72	2.55	2.65	2.88	2.83	2.72	2.83	2.97	2.08	3.26	2.16	2.11	2.21	2.26	2.16	2.13	2.18	3.09
Mn	0.04	0.05	0.03	0.04	0.05	0.05	0.05	0.05	0.04	0.08	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.07
Mg	2.21	2.36	2.30	2.09	2.15	2.21	2.10	2.02	2.63	1.66	2.52	2.73	2.72	2.66	2.63	2.97	2.83	2.04
Ca	1.14	1.20	1.16	0.98	0.96	0.96	0.97	0.93	1.30	0.23	1.21	1.29	1.24	1.15	1.23	1.37	1.35	0.73
Na	1.39	1.52	1.33	1.67	1.49	1.41	1.25	1.13	1.44	1.72	1.56	1.36	1.40	1.47	1.57	1.43	1.36	1.57
K	0.25	0.23	0.24	0.27	0.25	0.25	0.27	0.26	0.21	0.31	0.23	0.21	0.21	0.22	0.22	0.21	0.22	0.25
Cr	0.00	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
Ni	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01
Total	15.90	16.02	15.87	16.03	15.88	15.78	15.69	15.61	15.90	15.68	15.92	15.93	15.97	15.93	15.99	16.17	16.05	15.89
Mg #	44	48	46	42	43	44	42	40	55	33	53	56	55	54	54	58	56	39
Wo	18.86	19.66	19.01	16.48	16.22	16.26	16.38	15.79	21.65	4.44	20.54	21.08	20.14	18.92	20.44	21.14	21.29	12.53
En	36.38	38.61	37.60	35.18	36.18	37.57	35.61	34.07	43.78	32.29	42.78	44.57	44.09	43.92	43.65	45.86	44.44	34.84
Fs	44.76	41.73	43.40	48.34	47.60	46.17	48.02	50.15	34.57	63.27	36.68	34.35	35.77	37.17	35.90	33.00	34.28	52.63
Name	<i>Kat.</i>	<i>Kat.</i>	<i>Kat.</i>	<i>Fe-richt.</i>	<i>Fe-richt.</i>	<i>Fe-richt.</i>	<i>Fe-winch.</i>	<i>Fe-winch.</i>	Mg-kat.	<i>Fe-glauc.</i>	Richt.	<i>Mg-kat.</i>	<i>Mg-kat.</i>	Richt.	Mg-kat.	<i>Mg-kat.</i>	<i>Mg-kat.</i>	<i>Fe-richt.</i>

Fe-glauc. = ferro-glaucophane; Fe-winch. = Ferro-winchite; Kat. = kataphorite; Mg-kat. = magnesio-kataphorite; Richt. = richterite; Fe-richt. = ferro-richterite. Data in italics were analysed at the GFZ Potsdam (see Analytical Methods).

Table C. 6. Microprobe analyses of glass in the Doros chilled margin.

Sample Point	TOD59 Chilled margin				
	4/1	4/2	4/3	4/4	4/5
SiO ₂	56.78	56.71	58.06	57.75	58.82
TiO ₂	2.64	2.47	3.74	2.94	2.58
Al ₂ O ₃	16.76	16.81	17.08	17.10	17.45
FeO _T	10.15	10.32	8.47	9.26	8.05
MnO	0.16	0.14	0.15	0.10	0.09
MgO	0.18	0.18	0.17	0.15	0.06
CaO	0.76	0.80	0.65	0.83	0.85
Na ₂ O	9.55	9.60	9.99	10.12	10.10
K ₂ O	0.07	0.10	0.11	0.09	0.10
Cr ₂ O ₃	0.06	0.05	0.04	0.05	0.05
NiO	0.00	0.02	0.02	0.02	0.00
ZnO	0.02	0.06	0.02	0.00	0.00
Total	97.13	97.26	98.51	98.42	98.14
Mg#	3	3	4	3	1
<i>Normative mineral abundance (wt. %)</i>					
Orthoclase	0.44	0.59	0.65	0.54	0.56
Albite	72.05	71.11	75.80	72.92	75.96
Anorthite	2.64	2.48	1.44	0.96	2.00
Nepheline	4.74	5.49	4.73	6.89	5.15
Diopside	1.01	1.32	1.59	2.82	1.99
Olivine	11.15	11.46	7.12	8.63	7.53
Ilmenite	5.01	4.69	7.10	5.58	4.90

CIPW norm calculated from the scheme of Kelsey (1965) assuming FeO = 0.85Fe₂O_{3T}.