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ULTRA-HIGH TEMPERATURE METAMORPHISM IN THE GUAXUPÉ COMPLEX: A LOWER CRUST SEGMENT
Thaís Güitzlaf LEME; Guillermo Rafael Beltran NAVARRO; Antenor ZANARDO

SUPPLEMENTARY TABLES

Table S.1 – Representative microprobe mineral chemistry analysis on garnet crystals and molecular proportion of the analyzed crystals. Atoms per formula unit (a.p.f.u.) were calculated on the basis of 12 oxygens.

Sample	**TGL-13**																			
Anlysis	6_1	6_2	6_3	6_5	6_6	6_7	6_8	6_9	6_10	6_11	6_13	6_14	6_15	6_16	6_17	6_18	6_19	6_20	6_21	6_22
Crystal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SiO_2	38.76	39.06	38.97	39.25	39.40	39.26	39.07	39.21	38.96	39.03	39.09	39.19	39.05	39.48	39.42	39.13	39.21	39.45	39.08	39.06
TiO_2	0.13	0.13	0.13	0.12	0.14	0.12	0.13	0.10	0.13	0.10	0.09	0.11	0.08	0.09	0.11	0.10	0.08	0.12	0.10	0.11
Al_2O_3	21.15	21.14	21.09	21.46	21.53	21.55	21.32	21.73	21.48	21.46	21.42	21.36	21.35	21.23	21.44	21.37	21.35	21.41	21.61	21.46
Cr_2O_3	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.01
FeO	24.30	24.19	24.31	23.55	23.64	23.39	23.15	23.28	23.37	23.04	23.44	23.69	23.57	23.38	23.50	23.64	23.43	23.26	23.30	23.59
MnO	0.71	0.67	0.68	0.66	0.64	0.73	0.64	0.65	0.64	0.63	0.63	0.62	0.68	0.64	0.63	0.63	0.64	0.62	0.63	0.60
MgO	8.25	8.43	8.58	8.93	8.88	8.95	9.08	9.05	9.05	9.05	8.77	9.04	9.09	8.99	9.09	8.85	9.07	9.13	9.12	9.24
CaO	6.32	6.28	6.27	6.26	6.14	6.35	6.12	6.18	6.27	6.27	6.57	6.22	6.24	6.12	6.38	6.17	6.26	6.18	6.16	6.24
Na_2O	0.01	0.00	0.00	0.02	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.02	0.01	0.01	0.01	0.01	0.00	0.01
K_2O	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00
Total	99.66	99.91	100.04	100.26	100.39	100.36	99.50	100.21	99.92	99.60	99.99	100.24	100.05	99.94	100.58	99.90	100.07	100.20	100.00	100.32
Si	2.99	3.00	2.99	2.99	3.00	2.99	3.00	2.99	2.98	2.99	2.99	2.99	2.98	3.02	2.99	3.00	2.99	3.01	2.98	2.97
Al^{IV}	0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.02	0.01	0.01	0.01	0.02	0.00	0.01	0.00	0.01	0.00	0.02	0.03
Sum 3	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.02	3.00	3.00	3.00	3.01	3.00	3.00
Al^{VI}	1.91	1.91	1.89	1.92	1.93	1.92	1.92	1.94	1.91	1.93	1.92	1.91	1.90	1.91	1.91	1.92	1.91	1.92	1.93	1.90
Fe^{3+}	0.08	0.07	0.10	0.07	0.04	0.07	0.06	0.06	0.09	0.07	0.08	0.09	0.10	0.04	0.08	0.07	0.08	0.05	0.07	0.12
Ti	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	0.00	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	0.00	0.00
Sum 2	2.00	1.99	2.00	2.00	1.98	2.00	1.99	2.00	2.01	2.00	2.00	2.00	2.01	1.96	2.00	1.99	2.00	1.98	2.01	2.02
Fe^{2+}	1.48	1.49	1.46	1.43	1.46	1.42	1.43	1.42	1.40	1.41	1.42	1.43	1.40	1.46	1.42	1.45	1.41	1.43	1.41	1.39
Mg	0.95	0.97	0.98	1.02	1.01	1.02	1.04	1.03	1.03	1.03	1.00	1.03	1.03	1.02	1.03	1.01	1.03	1.04	1.04	1.05
Mn	0.05	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Ca	0.52	0.52	0.52	0.51	0.50	0.52	0.50	0.50	0.51	0.52	0.54	0.51	0.51	0.50	0.52	0.51	0.51	0.51	0.50	0.51
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	0.00	0.00
Sum 3	3.00	3.01	3.00	3.00	3.02	3.00	3.01	3.00	2.99	3.00	3.00	3.00	2.99	3.03	3.01	3.01	3.00	3.02	2.99	2.98
Σ Cations	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Alm	49	49	49	48	49	47	47	47	47	47	47	47	47	48	47	48	47	48	47	46
Prp	32	32	33	34	33	34	34	34	35	34	33	34	35	34	34	34	34	34	35	35
Grs	13	14	12	13	14	14	14	14	13	14	14	13	12	15	13	14	13	14	13	11
Adr	4	3	5	4	2	3	3	3	5	3	4	4	5	2	4	3	4	2	4	6
Sps	2	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Uv	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table S.1 – *continuation*

Sample	**TGL-13**																			
Analysis	6_23	6_24	6_25	6_26	6_27	6_28	6_29	6_30	8_1	8_2	8_3	8_4	8_5	8_6	8_7	8_8	8_9	8_10	8_11	8_12
Crystal	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
SiO_2	39.52	39.07	39.27	39.06	39.06	39.21	38.89	38.73	39.15	39.07	39.28	39.19	39.32	39.09	39.35	39.64	39.21	39.29	39.00	39.43
TiO_2	0.10	0.10	0.12	0.11	0.12	0.15	0.14	0.13	0.10	0.09	0.11	0.10	0.07	0.09	0.08	0.08	0.05	0.04	0.05	0.05
Al_2O_3	21.71	21.31	21.60	21.34	21.34	21.45	21.37	21.33	21.63	21.46	21.46	21.44	21.44	21.81	21.57	21.55	21.66	21.73	21.42	21.68
Cr_2O_3	0.02	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00
FeO	23.32	23.25	23.49	23.40	23.40	23.24	23.60	23.93	23.92	23.67	23.48	23.56	23.34	23.13	23.67	23.24	23.28	23.55	23.11	23.37
MnO	0.65	0.65	0.62	0.64	0.63	0.64	0.69	0.71	0.72	0.69	0.62	0.68	0.64	0.70	0.64	0.66	0.65	0.69	0.62	0.66
MgO	9.19	9.05	9.09	8.93	8.95	8.83	8.73	8.43	8.68	8.79	9.05	9.06	9.27	9.33	9.28	9.53	9.48	9.51	9.50	9.48
CaO	6.17	6.17	6.12	6.31	6.43	6.46	6.36	6.29	6.04	6.12	6.04	5.94	5.68	5.78	5.81	5.50	5.34	5.58	5.60	5.73
Na_2O	0.01	0.00	0.00	0.01	0.01	0.00	0.02	0.00	0.00	0.05	0.04	0.02	0.01	0.00	0.02	0.03	0.01	0.00	0.01	0.01
K_2O	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Total	100.68	99.60	100.30	99.82	99.96	99.99	99.79	99.55	100.26	99.95	100.10	100.02	99.76	99.94	100.42	100.19	99.68	100.38	99.33	100.41
Si	3.00	3.00	2.99	2.99	2.99	3.00	2.98	2.98	2.99	2.99	3.00	2.99	3.01	2.98	2.99	3.01	3.00	2.98	2.99	2.99
Al^{IV}	0.01	0.00	0.01	0.01	0.01	0.00	0.02	0.02	0.01	0.01	0.00	0.01	0.00	0.02	0.01	0.00	0.00	0.02	0.01	0.01
Sum 3	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.01	3.00	3.00	3.01	3.00	3.00	3.00	3.00
Al^{VI}	1.93	1.92	1.93	1.92	1.91	1.93	1.91	1.92	1.94	1.92	1.93	1.92	1.93	1.94	1.92	1.93	1.95	1.93	1.93	1.93
Fe^{3+}	0.06	0.07	0.06	0.08	0.09	0.05	0.09	0.08	0.06	0.08	0.06	0.07	0.04	0.06	0.08	0.03	0.05	0.08	0.07	0.07
Ti	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	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	0.00	0.00
Sum 2	2.00	1.99	2.00	2.00	2.00	1.99	2.01	2.00	2.00	2.01	2.00	2.00	1.98	2.01	2.00	1.97	2.00	2.01	2.00	2.00
Fe^{2+}	1.42	1.42	1.43	1.42	1.41	1.43	1.43	1.46	1.47	1.44	1.43	1.44	1.45	1.41	1.43	1.44	1.44	1.42	1.41	1.42
Mg	1.04	1.04	1.03	1.02	1.02	1.01	1.00	0.97	0.99	1.00	1.03	1.03	1.06	1.06	1.05	1.08	1.08	1.08	1.09	1.07
Mn	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04
Ca	0.50	0.51	0.50	0.52	0.53	0.53	0.52	0.52	0.49	0.50	0.49	0.49	0.47	0.47	0.47	0.45	0.44	0.45	0.46	0.47
Na	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	0.00	0.00	0.00	0.00	0.00	0.00
Sum 3	3.01	3.01	3.00	3.00	3.00	3.01	2.99	3.00	3.00	2.99	3.00	3.00	3.02	2.99	3.00	3.02	3.00	2.99	3.00	3.00
Σ Cations	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Alm	47	47	48	47	47	48	48	49	49	48	48	48	48	47	48	48	48	47	47	47
Prp	35	34	34	34	34	33	33	32	33	34	34	34	35	35	35	36	36	36	36	36
Grs	14	13	13	13	13	15	13	13	14	13	13	13	13	13	12	13	12	11	12	12
Adr	3	3	3	4	4	3	4	4	3	4	3	3	2	3	4	2	2	4	4	3
Sps	1	1	1	1	1	1	2	2	2	2	1	1	1	2	1	1	1	1	1	1
Uv	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table S.1 – *continuation*

Sample	**TGL-13**																			
Analysis	8_13	8_14	8_15	8_16	8_17	8_18	10_1	10_2	10_3	10_4	10_5	10_6	10_7	10_8	10_9	10_10	10_11	10_12	10_13	10_14
Crystal	2	2	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
SiO_2	39.38	39.26	39.14	39.21	39.47	38.66	39.39	39.30	39.19	39.21	39.16	38.87	38.77	39.37	38.91	39.03	38.85	38.79	39.02	38.96
TiO_2	0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.10	0.10	0.08	0.06	0.08	0.06	0.05	0.06	0.05	0.11	0.10	0.10	0.11
Al_2O_3	21.62	21.66	21.48	21.75	21.53	21.17	21.45	21.44	21.71	21.66	21.68	21.51	21.52	21.52	21.83	21.77	21.63	21.54	21.54	21.52
Cr_2O_3	0.01	0.00	0.01	0.00	0.01	0.02	0.01	0.02	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.02	0.02
FeO	23.19	23.25	23.39	23.33	23.68	24.34	24.16	23.48	23.39	23.33	23.17	23.17	23.34	22.96	22.98	23.25	22.78	23.44	23.36	23.47
MnO	0.64	0.61	0.61	0.64	0.69	0.77	0.78	0.70	0.70	0.65	0.70	0.67	0.65	0.65	0.69	0.66	0.73	0.76	0.70	0.72
MgO	9.48	9.39	9.19	8.89	8.63	8.18	8.64	8.99	9.25	9.31	9.32	9.22	9.17	9.53	9.22	9.36	9.39	9.05	9.13	8.91
CaO	5.65	5.95	5.96	6.01	5.90	5.94	6.04	6.02	5.99	6.02	5.96	5.86	6.00	5.96	5.80	6.16	5.97	6.02	6.05	5.96
Na_2O	0.01	0.01	0.01	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.02	0.00	0.02
K_2O	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.00	0.01	0.01	0.00
Total	100.03	100.18	99.86	99.90	100.03	99.17	100.60	100.09	100.33	100.31	100.08	99.39	99.55	100.04	99.51	100.30	99.49	99.75	99.94	99.68
Si	3.00	2.99	2.99	3.00	3.02	3.00	3.00	3.00	2.98	2.98	2.98	2.98	2.97	3.00	2.98	2.97	2.97	2.97	2.98	2.99
Al^{IV}	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.02	0.02	0.02	0.03	0.00	0.02	0.04	0.03	0.03	0.02	0.01
Sum 3	3.00	3.00	3.00	3.00	3.02	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Al^{VI}	1.94	1.93	1.93	1.96	1.94	1.93	1.93	1.93	1.92	1.92	1.93	1.93	1.91	1.93	1.95	1.91	1.92	1.91	1.92	1.93
Fe^{3+}	0.05	0.08	0.07	0.03	0.01	0.06	0.05	0.05	0.08	0.08	0.08	0.08	0.10	0.07	0.06	0.11	0.09	0.10	0.08	0.07
Ti	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	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	0.00	0.00
Sum 2	1.99	2.01	2.00	1.99	1.95	1.99	1.98	1.99	2.01	2.01	2.01	2.01	2.02	2.00	2.01	2.03	2.02	2.02	2.01	2.00
Fe^{2+}	1.43	1.40	1.43	1.46	1.51	1.52	1.49	1.45	1.41	1.40	1.40	1.41	1.39	1.39	1.41	1.37	1.37	1.40	1.41	1.44
Mg	1.08	1.07	1.05	1.01	0.99	0.95	0.98	1.02	1.05	1.06	1.06	1.06	1.05	1.08	1.05	1.06	1.07	1.03	1.04	1.02
Mn	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.04	0.04	0.04	0.05	0.04	0.05	0.05	0.05	0.05
Ca	0.46	0.49	0.49	0.49	0.48	0.49	0.49	0.49	0.49	0.49	0.49	0.48	0.49	0.49	0.48	0.50	0.49	0.49	0.50	0.49
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	0.00	0.00
Sum 3	3.01	3.00	3.00	3.01	3.03	3.01	3.01	3.01	2.99	2.99	2.99	2.99	2.98	3.00	2.99	2.97	2.98	2.98	2.99	3.00
Σ Cations	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Alm	47	47	47	49	50	51	49	48	47	47	47	47	47	46	47	46	46	47	47	48
Prp	36	36	35	34	33	31	33	34	35	35	35	35	35	36	35	36	36	35	35	34
Grs	13	12	13	15	16	13	14	14	12	12	12	12	11	13	13	11	12	12	12	13
Adr	3	4	4	2	0	3	3	3	4	4	4	4	5	3	3	6	4	5	4	3
Sps	1	1	1	1	1	2	2	2	2	1	2	1	1	1	2	1	2	2	2	2
Uv	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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ULTRA-HIGH TEMPERATURE METAMORPHISM IN THE GUAXUPÉ COMPLEX: A LOWER CRUST SEGMENT
Thaís Güitzlaf LEME; Guillermo Rafael Beltran NAVARRO; Antenor ZANARDO

Table S.1 – *continuation*

Sample	**TGL-32**																			
Analysis	1_1	1_2	1_3	1_4	1_5	1_6	1_7	1_8	1_9	1_10	1_11	1_12	1_13	1_14	1_15	1_16	1_17	1_18	1_19	1_20
Crystal	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
SiO_2	38.55	38.68	39.04	38.37	38.68	38.63	38.79	38.72	38.78	38.38	38.65	38.61	38.47	38.54	38.54	38.51	38.68	38.71	38.89	38.56
TiO_2	0.08	0.07	0.07	0.07	0.08	0.06	0.08	0.08	0.06	0.06	0.09	0.07	0.08	0.06	0.05	0.05	0.05	0.05	0.09	0.07
Al_2O_3	21.60	21.39	21.61	21.55	21.83	21.64	21.61	21.78	21.64	21.78	21.79	21.59	21.77	21.59	21.63	21.62	21.65	21.57	21.89	21.42
Cr_2O_3	0.01	0.01	0.02	0.01	0.01	0.00	0.01	0.01	0.04	0.00	0.00	0.01	0.01	0.01	0.02	0.04	0.04	0.04	0.02	0.04
FeO	24.44	24.20	24.30	24.01	24.26	24.27	24.29	23.91	24.18	23.93	24.09	24.21	24.44	24.09	23.96	23.90	24.32	24.30	24.22	24.31
MnO	1.04	1.09	0.97	0.99	1.00	0.98	0.99	1.00	1.02	1.01	1.00	0.99	0.95	1.02	0.97	0.99	1.01	1.00	1.07	1.14
MgO	8.17	8.70	8.70	8.58	8.84	8.70	8.69	8.70	8.77	8.70	8.68	8.69	8.76	8.51	8.54	8.56	8.56	8.50	8.19	8.08
CaO	5.66	5.61	5.60	5.60	5.58	5.48	5.63	5.67	5.64	5.63	5.70	5.72	5.64	5.55	5.71	5.70	5.74	5.80	5.81	6.04
Na_2O	0.00	0.00	0.01	0.02	0.00	0.01	0.00	0.02	0.00	0.04	0.01	0.01	0.01	0.00	0.01	0.01	0.02	0.01	0.02	0.02
K_2O	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	0.00	0.00	0.00	0.01
Total	99.55	99.76	100.32	99.18	100.28	99.78	100.11	99.88	100.13	99.53	100.01	99.90	100.14	99.39	99.43	99.38	100.07	99.98	100.19	99.68
Si	2.98	2.97	2.98	2.97	2.95	2.97	2.97	2.97	2.97	2.95	2.96	2.96	2.94	2.97	2.97	2.97	2.96	2.97	2.98	2.98
Al^{IV}	0.02	0.03	0.02	0.04	0.05	0.03	0.03	0.03	0.03	0.05	0.04	0.04	0.06	0.03	0.03	0.03	0.04	0.03	0.02	0.03
Sum 3	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Al^{VI}	1.94	1.91	1.93	1.93	1.92	1.93	1.92	1.93	1.92	1.93	1.93	1.91	1.91	1.94	1.93	1.93	1.92	1.92	1.96	1.92
Fe^{3+}	0.07	0.10	0.07	0.10	0.11	0.10	0.09	0.09	0.10	0.12	0.10	0.11	0.14	0.08	0.09	0.09	0.11	0.10	0.05	0.09
Ti	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
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	0.00
Sum 2	2.01	2.02	2.01	2.03	2.04	2.02	2.02	2.02	2.02	2.04	2.03	2.03	2.05	2.02	2.02	2.02	2.03	2.02	2.01	2.02
Fe^{2+}	1.51	1.45	1.48	1.46	1.44	1.46	1.46	1.45	1.45	1.42	1.45	1.44	1.43	1.48	1.46	1.46	1.45	1.46	1.51	1.48
Mg	0.94	1.00	0.99	0.99	1.01	1.00	0.99	0.99	1.00	1.00	0.99	0.99	1.00	0.98	0.98	0.98	0.98	0.97	0.94	0.93
Mn	0.07	0.07	0.06	0.07	0.07	0.06	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.07	0.06	0.06	0.07	0.07	0.07	0.07
Ca	0.47	0.46	0.46	0.46	0.46	0.45	0.46	0.47	0.46	0.46	0.47	0.47	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.50
Na	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	0.00	0.00	0.00	0.00	0.00
Sum 3	2.99	2.98	2.99	2.97	2.97	2.98	2.98	2.98	2.98	2.96	2.97	2.97	2.95	2.98	2.98	2.98	2.97	2.98	2.99	2.98
Σ Cations	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Alm	51	49	49	49	48	49	49	49	49	48	49	48	48	50	49	49	49	49	50	50
Prp	31	33	33	33	34	33	33	33	34	34	33	33	34	33	33	33	33	33	31	31
Grs	12	10	12	11	10	10	11	11	10	10	11	10	9	12	12	11	11	11	14	12
Adr	3	5	4	5	6	5	5	4	5	6	5	6	7	4	4	4	5	5	2	5
Sps	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Uv	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Thaís Güitzlaf LEME; Guillermo Rafael Beltran NAVARRO; Antenor ZANARDO

Table S.1 – *continuation*

Sample	**TGL-32**																		
Analysis	4_1	4_3	4_4	4_6	4_7	4_8	4_9	4_10	4_11	4_13	4_14	4_15	8_1	8_2	8_3	8_4	8_5	8_6	8_7
Crystal	6	6	6	6	6	6	6	6	6	6	6	6	8	8	8	8	8	8	8
SiO_2	38.28	38.38	38.22	38.28	39.05	38.44	38.56	38.30	38.69	38.55	38.25	38.67	38.61	38.59	38.42	38.68	38.36	38.68	38.87
TiO_2	0.09	0.11	0.09	0.09	0.09	0.07	0.06	0.04	0.07	0.10	0.09	0.07	0.08	0.08	0.05	0.07	0.06	0.08	0.07
Al_2O_3	21.50	21.37	21.69	21.45	21.57	21.75	21.76	21.74	21.38	21.57	21.51	21.38	21.96	21.59	21.81	21.67	21.77	21.77	21.78
Cr_2O_3	0.03	0.01	0.04	0.02	0.03	0.04	0.02	0.02	0.02	0.04	0.03	0.02	0.03	0.04	0.01	0.03	0.02	0.00	0.00
FeO	24.86	24.67	24.62	24.52	24.42	24.68	24.51	24.73	24.69	24.54	24.72	24.54	24.59	24.36	24.40	24.21	24.44	23.95	24.40
MnO	1.18	1.13	1.14	1.10	1.11	1.13	1.12	1.12	1.15	1.08	1.15	1.14	1.11	1.06	1.05	1.06	1.08	1.08	1.10
MgO	7.74	8.01	8.07	8.06	8.20	8.14	8.17	8.09	8.19	8.09	7.91	7.84	8.08	8.43	8.25	8.51	8.33	8.53	8.55
CaO	6.00	5.72	5.81	5.76	5.89	5.74	5.83	5.67	5.86	5.87	5.82	6.00	5.85	5.65	5.70	5.66	5.55	5.70	5.60
Na_2O	0.01	0.01	0.02	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.01	0.01	0.01	0.02
K_2O	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	0.01	0.00	0.00	0.00	0.00
Total	99.70	99.41	99.69	99.29	100.36	100.03	100.04	99.70	100.03	99.84	99.48	99.66	100.31	99.82	99.71	99.90	99.63	99.81	100.39
Si	2.96	2.97	2.95	2.97	2.99	2.95	2.96	2.96	2.98	2.97	2.96	2.99	2.96	2.97	2.96	2.97	2.96	2.97	2.97
Al^{IV}	0.04	0.03	0.05	0.03	0.01	0.05	0.04	0.05	0.03	0.03	0.04	0.01	0.04	0.03	0.04	0.03	0.04	0.03	0.03
Sum 3	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Al^{VI}	1.92	1.92	1.92	1.92	1.94	1.92	1.93	1.93	1.91	1.93	1.92	1.93	1.94	1.92	1.94	1.93	1.93	1.94	1.93
Fe^{3+}	0.11	0.09	0.12	0.09	0.05	0.11	0.10	0.10	0.10	0.08	0.10	0.06	0.08	0.10	0.09	0.09	0.10	0.08	0.09
Ti	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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
Sum 2	2.03	2.02	2.04	2.02	2.00	2.04	2.03	2.04	2.02	2.02	2.03	2.00	2.03	2.03	2.03	2.02	2.04	2.02	2.02
Fe^{2+}	1.50	1.51	1.47	1.50	1.51	1.48	1.48	1.49	1.49	1.50	1.50	1.52	1.49	1.47	1.48	1.47	1.48	1.46	1.47
Mg	0.89	0.93	0.93	0.93	0.94	0.93	0.94	0.93	0.94	0.93	0.91	0.90	0.92	0.97	0.95	0.98	0.96	0.98	0.97
Mn	0.08	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Ca	0.50	0.48	0.48	0.48	0.48	0.47	0.48	0.47	0.48	0.49	0.48	0.50	0.48	0.47	0.47	0.47	0.46	0.47	0.46
Na	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	0.00
Sum 3	2.97	2.98	2.96	2.98	3.00	2.96	2.97	2.96	2.99	2.98	2.97	3.00	2.97	2.97	2.97	2.98	2.96	2.98	2.98
Σ Cations	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Alm	51	51	50	50	50	50	50	50	50	50	50	51	50	49	50	49	50	49	49
Prp	30	31	31	31	31	32	32	31	31	31	31	30	31	32	32	33	32	33	33
Grs	11	11	10	11	13	10	11	11	11	12	11	13	12	11	11	11	11	12	11
Adr	5	4	6	5	3	5	5	5	5	4	5	3	4	5	5	4	5	4	4
Sps	3	2	3	2	2	2	2	2	3	2	3	2	2	2	2	2	2	2	2
Uv	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table S.1 – *continuation*

Sample	**TGL-58**																	
Analysis	8_1	8_2	8_3	8_4	8_5	8_6	11_1	11_3	11_4	11_5	11_7	11_8	11_9	11_10	11_11	11_12	11_13	11_14
Crystal	3	3	3	3	3	3	5	5	5	5	5	5	6	6	6	6	6	6
SiO_2	39.17	39.80	39.65	39.75	39.76	39.14	39.09	39.51	39.40	39.62	39.68	39.62	39.51	39.77	39.87	39.34	39.70	39.59
TiO_2	0.09	0.08	0.10	0.10	0.09	0.08	0.06	0.06	0.11	0.07	0.09	0.07	0.08	0.05	0.07	0.05	0.06	0.07
Al_2O_3	22.45	22.62	22.18	22.51	22.39	22.14	22.21	22.27	22.28	22.21	22.04	22.47	22.29	22.55	22.26	22.42	22.14	22.12
Cr_2O_3	0.12	0.07	0.04	0.05	0.01	0.10	0.04	0.04	0.06	0.06	0.05	0.09	0.05	0.01	0.01	0.01	0.00	0.03
FeO	22.02	21.78	21.36	21.74	22.02	22.80	22.44	21.74	21.59	21.27	22.00	22.15	21.66	21.34	21.05	21.16	21.62	22.43
MnO	0.47	0.44	0.39	0.43	0.46	0.52	0.50	0.43	0.43	0.40	0.42	0.48	0.45	0.45	0.40	0.44	0.46	0.52
MgO	9.71	10.13	10.32	9.93	9.81	9.07	9.29	9.87	9.97	10.14	9.83	9.73	9.90	10.17	10.33	10.24	9.96	9.56
CaO	6.27	6.48	6.25	6.28	6.26	6.46	6.32	6.40	6.66	6.48	6.48	6.46	6.61	6.50	6.41	6.34	6.48	6.43
Na_2O	0.01	0.00	0.01	0.00	0.02	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.00	0.01
K_2O	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.02	0.00	0.00	0.01	0.01	0.00
Total	100.32	101.40	100.32	100.81	100.81	100.31	99.94	100.33	100.51	100.28	100.62	101.10	100.58	100.85	100.39	100.01	100.44	100.76
Si	2.96	2.97	2.99	2.99	2.99	2.97	2.98	2.98	2.97	2.99	2.99	2.97	2.98	2.98	3.00	2.97	2.99	2.99
Al^{IV}	0.04	0.03	0.01	0.01	0.01	0.03	0.03	0.02	0.03	0.01	0.01	0.03	0.02	0.02	0.00	0.03	0.01	0.01
Sum 3	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Al^{VI}	1.96	1.96	1.96	1.98	1.97	1.95	1.97	1.96	1.94	1.96	1.95	1.96	1.95	1.97	1.97	1.97	1.96	1.95
Fe^{3+}	0.06	0.05	0.04	0.02	0.02	0.05	0.05	0.04	0.07	0.03	0.04	0.05	0.06	0.04	0.02	0.05	0.04	0.05
Ti	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr	0.01	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	0.00	0.00
Sum 2	2.03	2.02	2.00	2.00	2.00	2.02	2.02	2.01	2.02	2.00	2.00	2.02	2.02	2.01	1.99	2.02	2.00	2.01
Fe^{2+}	1.34	1.31	1.31	1.35	1.36	1.40	1.38	1.34	1.29	1.31	1.34	1.34	1.31	1.30	1.31	1.28	1.33	1.37
Mg	1.10	1.13	1.16	1.11	1.10	1.03	1.05	1.11	1.12	1.14	1.11	1.09	1.11	1.14	1.16	1.15	1.12	1.08
Mn	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Ca	0.51	0.52	0.51	0.51	0.51	0.53	0.52	0.52	0.54	0.52	0.52	0.52	0.53	0.52	0.52	0.51	0.52	0.52
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
Sum 3	2.97	2.98	3.00	3.00	3.00	2.98	2.98	2.99	2.98	3.00	3.00	2.98	2.98	2.99	3.01	2.98	3.00	3.00
Σ Cations	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Alm	45	44	44	45	45	47	46	45	43	44	45	45	44	43	43	43	44	46
Prp	37	38	39	37	37	34	35	37	38	38	37	37	37	38	39	39	37	36
Grs	14	15	15	16	16	15	15	15	15	16	15	15	15	15	16	15	16	15
Adr	3	3	2	1	1	3	2	2	3	2	2	2	3	2	1	3	2	2
Sps	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Uv	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table S.1 – *continuation*

Sample	**MAG-11**																			
Analysis	3_1	3_2	3_3	3_4	3_5	3_6	3_8	3_9	3_10	3_11	3_12	5_1	5_2	5_3	5_4	5_5	5_6	5_7	5_8	5_9
Crystal	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
SiO_2	37.93	37.98	38.42	38.58	37.93	38.65	38.00	38.51	38.69	38.60	38.37	38.40	38.75	38.36	38.54	38.66	38.69	38.85	38.59	38.73
TiO_2	0.03	0.03	0.02	0.03	0.01	0.03	0.01	0.03	0.01	0.04	0.02	0.01	0.03	0.02	0.03	0.04	0.04	0.03	0.04	0.05
Al_2O_3	22.25	22.34	22.56	22.34	22.72	22.57	22.43	22.44	22.47	22.62	22.28	22.34	22.74	22.41	22.61	22.75	22.72	22.71	22.54	22.57
Cr_2O_3	0.06	0.07	0.08	0.06	0.07	0.07	0.09	0.07	0.07	0.07	0.07	0.12	0.06	0.06	0.05	0.08	0.06	0.06	0.07	0.07
FeO	22.12	22.05	21.79	21.30	21.34	21.22	21.95	21.25	21.41	21.78	22.01	22.25	21.24	21.02	20.74	20.74	20.59	20.40	20.51	20.87
MnO	1.08	1.03	1.00	0.94	0.99	1.00	1.07	0.97	1.02	1.03	1.09	1.24	1.12	1.03	0.99	1.00	1.01	1.01	0.97	1.01
MgO	9.34	9.64	9.77	10.10	9.82	10.13	9.70	10.15	10.16	10.03	9.42	9.36	10.12	10.39	10.58	10.72	10.74	10.60	10.50	10.31
CaO	6.00	5.96	6.14	5.92	5.91	5.93	6.18	5.93	5.88	5.85	6.11	6.15	5.89	5.99	5.99	6.13	5.96	6.00	6.01	6.10
Na_2O	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02
K_2O	0.01	0.01	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	0.00	0.00	0.01	0.00
Total	98.82	99.11	99.78	99.29	98.81	99.61	99.43	99.38	99.71	100.06	99.37	99.87	99.94	99.30	99.53	100.13	99.81	99.67	99.24	99.72
Si	2.92	2.91	2.92	2.94	2.91	2.94	2.93	2.94	2.92	2.94	2.93	2.93	2.92	2.92	2.91	2.92	2.94	2.93	2.93	2.91
Al^{IV}	0.08	0.09	0.08	0.06	0.10	0.07	0.07	0.06	0.08	0.07	0.08	0.07	0.08	0.08	0.09	0.08	0.06	0.07	0.07	0.09
Sum 3	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Al^{VI}	1.93	1.93	1.94	1.95	1.96	1.95	1.94	1.94	1.94	1.94	1.93	1.96	1.92	1.94	1.93	1.94	1.96	1.95	1.95	1.93
Fe^{3+}	0.14	0.15	0.13	0.10	0.13	0.10	0.12	0.11	0.13	0.11	0.13	0.09	0.15	0.13	0.15	0.13	0.09	0.10	0.11	0.14
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	0.00
Cr	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	0.01	0.00	0.00	0.00	0.00	0.00
Sum 2	2.08	2.08	2.07	2.05	2.09	2.06	2.06	2.06	2.07	2.06	2.07	2.06	2.08	2.07	2.08	2.07	2.06	2.06	2.06	2.08
Fe^{2+}	1.29	1.26	1.26	1.26	1.24	1.25	1.24	1.25	1.25	1.30	1.29	1.25	1.19	1.18	1.16	1.17	1.20	1.20	1.21	1.23
Mg	1.07	1.10	1.11	1.15	1.12	1.15	1.15	1.15	1.13	1.07	1.06	1.14	1.18	1.19	1.20	1.21	1.20	1.19	1.16	1.13
Mn	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.07	0.07	0.06	0.06	0.07	0.07	0.06	0.06	0.07
Ca	0.50	0.49	0.50	0.48	0.49	0.48	0.48	0.48	0.48	0.50	0.50	0.48	0.49	0.49	0.49	0.48	0.49	0.49	0.50	0.50
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	0.00	0.00
Sum 3	2.93	2.92	2.93	2.95	2.91	2.94	2.94	2.94	2.93	2.94	2.93	2.94	2.92	2.93	2.92	2.93	2.95	2.94	2.94	2.92
Σ Cations	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Alm	44	43	43	43	42	42	42	42	42	43	44	44	43	41	40	40	40	41	41	41
Prp	37	38	38	39	39	39	38	39	39	39	37	36	39	40	41	41	41	41	40	40
Grs	10	9	11	11	10	11	9	11	11	10	11	10	12	9	10	10	10	12	11	11
Adr	7	7	6	5	6	5	8	6	5	6	5	6	5	7	6	7	6	4	5	5
Sps	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2
Uv	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Table S.2 – Representative microprobe mineral chemistry analysis on pyroxene crystals. Atoms per formula unit (a.p.f.u.) were calculated on the basis of 6 oxygens.

Sample	**TGL-13**						**TGL-32**						**TGL-58**						**MAG-11**				
Analysis	1_1	1_2	3_1	3_3	5_3	7_1	5	8	10	13	16	18	13	17	21	22	23	25	13	14	19	22	30
SiO_2	50.12	51.31	51.37	51.55	51.17	50.15	50.38	50.58	50.61	50.04	51.09	51.51	49.35	50.83	50.08	50.21	49.50	50.70	51.70	52.02	51.39	50.08	51.11
TiO_2	0.63	0.35	0.09	0.12	0.13	0.59	0.11	0.47	0.47	0.50	0.12	0.06	0.63	0.09	0.08	0.62	0.66	0.09	0.08	0.08	0.04	0.24	0.26
Al_2O_3	5.39	3.86	2.98	2.69	2.48	5.06	2.64	4.39	4.64	4.52	2.87	1.92	5.98	3.37	3.79	6.00	6.12	2.98	3.54	3.47	4.03	5.90	4.63
Cr_2O_3	0.04	0.06	0.03	0.02	0.03	0.01	0.02	0.04	0.04	0.05	0.04	0.03	0.13	0.06	0.05	0.12	0.11	0.06	0.03	0.02	0.06	0.10	0.04
FeO	10.05	9.62	22.84	23.42	23.49	9.48	24.51	10.29	9.86	10.25	23.34	23.83	10.15	23.87	23.85	9.08	9.81	24.14	20.45	20.20	20.06	8.25	8.24
MnO	0.16	0.12	0.29	0.28	0.25	0.14	0.45	0.21	0.23	0.19	0.36	0.43	0.21	0.45	0.44	0.09	0.12	0.45	0.42	0.39	0.42	0.20	0.21
MgO	11.48	12.60	20.87	21.04	20.85	11.44	19.35	11.59	11.39	11.16	20.23	20.60	11.07	20.04	19.82	11.39	11.42	20.02	23.02	22.69	22.75	12.22	12.81
CaO	20.72	21.30	0.89	0.56	0.54	21.17	0.64	21.10	21.26	21.27	0.92	0.49	21.22	0.48	0.55	21.17	20.38	0.57	0.44	0.75	0.67	22.03	21.30
Na_2O	1.12	0.77	0.05	0.02	0.02	1.00	0.01	0.89	0.88	0.94	0.03	0.02	1.01	0.03	0.03	1.14	1.14	0.01	0.00	0.04	0.02	0.85	0.92
K_2O	0.00	0.01	0.01	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
Total	99.72	99.99	99.43	99.69	98.97	99.06	98.12	99.57	99.37	98.93	99.00	98.89	99.76	99.22	98.69	99.82	99.25	99.03	99.69	99.67	99.43	99.88	99.52
Si	1.88	1.92	1.93	1.93	1.94	1.89	1.94	1.91	1.91	1.90	1.93	1.96	1.86	1.92	1.91	1.88	1.87	1.93	1.91	1.92	1.91	1.87	1.91
Al^{IV}	0.12	0.08	0.07	0.07	0.06	0.11	0.06	0.09	0.09	0.10	0.07	0.04	0.14	0.08	0.09	0.12	0.13	0.07	0.09	0.08	0.09	0.13	0.09
Sum 2	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Al^{VI}	0.12	0.09	0.06	0.05	0.05	0.12	0.06	0.10	0.11	0.10	0.06	0.04	0.12	0.07	0.08	0.14	0.14	0.06	0.07	0.08	0.08	0.13	0.11
Ti	0.02	0.01	0.00	0.00	0.00	0.02	0.00	0.01	0.01	0.01	0.00	0.00	0.02	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
Mg	0.64	0.70	1.17	1.18	1.18	0.64	1.11	0.65	0.64	0.63	1.14	1.17	0.62	1.13	1.13	0.63	0.64	1.13	1.27	1.25	1.26	0.68	0.71
Fe^{2+}	0.32	0.30	0.72	0.74	0.74	0.30	0.79	0.32	0.31	0.33	0.74	0.76	0.32	0.76	0.76	0.28	0.31	0.77	0.63	0.62	0.62	0.26	0.26
Mn	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
Ca	0.83	0.85	0.04	0.02	0.02	0.86	0.03	0.85	0.86	0.87	0.04	0.02	0.86	0.02	0.02	0.85	0.82	0.02	0.02	0.03	0.03	0.88	0.85
Na	0.08	0.06	0.00	0.00	0.00	0.07	0.00	0.07	0.06	0.07	0.00	0.00	0.07	0.00	0.00	0.08	0.08	0.00	0.00	0.00	0.00	0.06	0.07
Sum 2	2.02	2.01	2.00	2.00	2.00	2.01	2.00	2.02	2.01	2.02	2.00	2.00	2.02	2.00	2.01	2.01	2.02	2.00	2.01	2.00	2.00	2.02	2.02
ΣCations	4.02	4.01	4.00	4.00	4.00	4.01	4.00	4.02	4.01	4.02	4.00	4.00	4.02	4.00	4.01	4.01	4.02	4.00	4.01	4.00	4.00	4.02	4.02
Wo	46	46	2	1	1	47	1	46	47	47	2	1	43	0	0	42	41	0	0	0	0	43	43
En	36	38	61	61	60	36	57	36	35	35	59	60	33	58	57	34	35	58	64	64	64	36	38
Fs	18	16	38	38	39	17	41	18	18	18	39	39	17	38	39	15	17	39	32	32	32	14	14

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Table S.3 – Representative microprobe mineral chemistry analysis on feldspar (plagioclase and orthoclase) crystals. Atoms per formula unit (a.p.f.u.) were calculated on the basis of 8 oxygens.

Sample	**TGL-13**					**TGL-32**					**TGL-58**					**MAG-11**		
Analysis	7_1	4_1	4_6	4	10	8	14	15	1	9	1	2	4	1	2	18	20	21
SiO_2	59.62	59.45	59.09	63.75	64.70	58.60	58.91	58.92	64.73	65.11	59.19	59.11	58.95	63.66	63.33	55.14	55.57	55.31
Al_2O_3	25.88	25.88	26.53	18.92	19.23	26.27	26.24	26.12	19.21	19.29	26.07	25.75	25.74	19.03	19.18	29.12	28.79	28.85
Fe_2O_3	0.15	0.09	0.10	0.61	0.04	0.18	0.14	0.13	0.01	0.02	0.07	0.13	0.08	0.07	0.04	0.07	0.07	0.09
BaO	0.01	0.00	0.00	0.94	1.12	0.02	0.00	0.02	0.75	0.52	0.00	0.00	0.00	0.82	1.02	0.00	0.00	0.02
CaO	7.00	6.97	7.53	0.00	0.00	7.68	7.30	7.35	0.00	0.00	7.14	7.25	7.15	0.00	0.00	10.67	10.30	10.32
Na_2O	7.04	7.15	7.05	0.32	0.32	6.83	6.91	7.06	0.95	1.31	7.19	7.20	7.17	0.61	0.86	5.50	5.67	5.47
K_2O	0.58	0.56	0.45	14.77	15.09	0.57	0.51	0.55	14.39	13.94	0.34	0.30	0.34	14.68	14.43	0.12	0.13	0.12
Total	100.27	100.09	100.75	99.30	100.50	100.15	100.02	100.16	100.03	100.18	100.00	99.74	99.43	98.87	98.86	100.63	100.53	100.19
Si	2.65	2.65	2.62	2.97	2.98	2.62	2.63	2.63	2.98	2.98	2.64	2.64	2.64	2.97	2.96	2.47	2.49	2.48
Al	1.36	1.36	1.39	1.04	1.04	1.38	1.38	1.37	1.04	1.04	1.37	1.36	1.36	1.05	1.06	1.54	1.52	1.53
Sum 4	4.01	4.01	4.01	4.01	4.02	4.00	4.01	4.00	4.02	4.02	4.01	4.00	4.01	4.02	4.02	4.01	4.01	4.01
Fe^{3+}	0.00	0.00	0.00	0.02	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
Ba	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.00
Ca	0.33	0.33	0.36	0.00	0.00	0.37	0.35	0.35	0.00	0.00	0.34	0.35	0.34	0.00	0.00	0.51	0.49	0.50
Na	0.61	0.62	0.61	0.03	0.03	0.59	0.60	0.61	0.08	0.12	0.62	0.62	0.62	0.06	0.08	0.48	0.49	0.48
K	0.03	0.03	0.03	0.88	0.89	0.03	0.03	0.03	0.84	0.81	0.02	0.02	0.02	0.87	0.86	0.01	0.01	0.01
Sum 1	0.98	0.99	0.99	0.95	0.94	1.00	0.98	1.00	0.94	0.94	0.98	0.99	0.99	0.95	0.96	1.00	1.00	0.98
Σ Cations	4.99	4.99	5.00	4.95	4.96	5.00	4.99	5.00	4.96	4.96	4.99	5.00	5.00	4.97	4.98	5.00	5.00	4.99
Ab	62	63	61	3	3	60	61	61	9	13	63	63	63	6	8	48	50	49
An	34	34	36	0	0	37	36	35	0	0	35	35	35	0	0	51	50	51
Or	3	3	3	97	97	3	3	3	91	87	2	2	2	94	92	1	1	1

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Table S.4 – Representative microprobe mineral chemistry analysis on amphibole crystals. Atoms per formula unit (a.p.f.u.) were calculated on the basis of 23 oxygens.

Sample	**TGL-13**			**TGL-58**			**MAG-11**		
Analysis	2_1	4_1	4_3	1	3	4	26	29	35
SiO_2	41.82	41.19	41.54	41.27	42.49	41.08	41.22	40.87	40.83
TiO_2	2.57	2.98	2.97	2.73	2.86	2.42	1.51	2.06	2.02
Al_2O_3	12.27	12.65	12.54	12.98	12.21	13.21	14.02	14.01	14.13
Cr_2O_3	0.02	0.02	0.03	0.13	0.19	0.17	0.09	0.11	0.09
FeO	14.43	14.05	13.58	13.08	12.41	14.02	13.77	13.49	13.47
MnO	0.06	0.08	0.08	0.05	0.07	0.11	0.13	0.14	0.14
MgO	11.13	11.20	11.25	11.30	11.96	10.81	11.51	11.32	11.45
CaO	11.28	11.41	11.46	11.55	11.68	11.38	11.11	11.15	11.25
Na_2O	1.49	1.57	1.48	1.53	1.34	1.41	2.53	2.27	2.24
K_2O	1.88	1.97	1.90	2.09	1.87	2.07	0.86	1.08	1.12
Total	96.96	97.13	96.84	96.71	97.08	96.69	96.74	96.50	96.74
Si	6.30	6.20	6.25	6.21	6.33	6.21	6.19	6.15	6.13
Al^{IV}	1.70	1.80	1.75	1.79	1.67	1.79	1.81	1.85	1.87
Sum 8	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Al^{VI}	0.48	0.45	0.47	0.52	0.47	0.56	0.66	0.64	0.63
Ti	0.29	0.34	0.34	0.31	0.32	0.27	0.17	0.23	0.23
Cr	0.00	0.00	0.00	0.02	0.02	0.02	0.01	0.01	0.01
Mg	2.50	2.51	2.52	2.53	2.66	2.44	2.57	2.54	2.56
Fe^{2+}	1.73	1.70	1.66	1.62	1.53	1.71	1.58	1.58	1.57
Sum 5	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Fe^{2+}	0.09	0.07	0.04	0.02	0.02	0.06	0.15	0.12	0.12
Mn	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Ca	1.82	1.84	1.85	1.86	1.87	1.84	1.79	1.80	1.81
Na	0.08	0.08	0.10	0.11	0.11	0.08	0.05	0.07	0.05
Sum 2	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Na	0.35	0.38	0.33	0.34	0.28	0.34	0.69	0.60	0.60
K	0.36	0.38	0.37	0.40	0.36	0.40	0.16	0.21	0.21

Sum 1	0.71	0.76	0.70	0.74	0.64	0.74	0.85	0.80	0.82
Σ Cations	15.71	15.76	15.70	15.74	15.64	15.74	15.85	15.80	15.82

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Table S.5 - Representative microprobe mineral chemistry analysis on biotite crystals. Atoms per formula unit (a.p.f.u.) were calculated on the basis of 22 oxygens.

Sample	**TGL-58**				
Analysis	1	3	4	5	7
SiO_2	37.25	37.35	37.25	37.47	37.44
TiO_2	5.60	5.62	5.50	5.73	5.59
Al_2O_3	14.00	14.12	14.04	14.06	14.14
Cr_2O_3	0.12	0.08	0.15	0.12	0.10
FeO	11.02	11.49	12.29	11.61	11.27
MnO	0.00	0.02	0.02	0.01	0.03
MgO	15.81	15.44	15.19	15.28	15.54
BaO	0.25	0.36	0.30	0.30	0.28
CaO	0.00	0.00	0.00	0.00	0.00
Na_2O	0.04	0.05	0.02	0.03	0.02
K_2O	9.63	9.51	9.24	9.46	9.49
Total	93.75	94.08	94.03	94.11	93.94
Si	5.58	5.59	5.59	5.60	5.60
Al^{IV}	2.42	2.41	2.42	2.40	2.40
Sum 8	8.00	8.00	8.00	8.00	8.00
Al^{VI}	0.05	0.08	0.07	0.08	0.09
Ti	0.63	0.63	0.62	0.64	0.63
Cr	0.01	0.01	0.02	0.01	0.01
Mg	3.53	3.44	3.39	3.40	3.46
Fe^{2+}	1.38	1.44	1.54	1.45	1.41
Mn	0.00	0.00	0.00	0.00	0.00
Sum 6	5.61	5.60	5.64	5.59	5.60

Ba	0.02	0.02	0.02	0.02	0.02
Ca	0.00	0.00	0.00	0.00	0.00
Na	0.01	0.01	0.01	0.01	0.00
K	1.84	1.82	1.77	1.80	1.81
Sum 2	1.87	1.85	1.79	1.83	1.83
Σ Cations	15.47	15.45	15.43	15.42	15.43
XMg	0.72	0.71	0.69	0.70	0.71

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