

## Martha et al. (2018)\_Geological Magazine (supplementary material)\_Table S2

Table S2. Representative chemical analyses on greenschist sample PKS12 from 700 m southwest of Kalami and calculation of structural formulae. Chemical composition of oxides in weight percent. For epidote, all iron is converted to Fe<sup>3+</sup>. Fe<sup>2+</sup>/Fe<sup>3+</sup> estimations for amphiboles are made by assuming 13 total cations excluding Ca, Na and K (Leake 1978). <sup>1</sup>An content = anorthite content of plagioclase [Ca/(Na+K+Ca)]. <sup>2</sup>Mineral abbreviations: alb = albite; act = actinolite; bio = biotite; epd = epidote; hbl = hornblende; qtz = quartz.

Analysis	p8	p9	p18	p16	p22	p2	p3	p4	p15	p20	p10	p7	p21
SiO <sub>2</sub>	56.55	55.77	56.06	48.26	50.54	68.35	68.64	68.23	66.23	67.10	41.36	38.19	39.32
TiO <sub>2</sub>	0.07	0.07	0.02	0.01	0.01	—	—	—	0.56	0.07	0.62	—	0.14
Al <sub>2</sub> O <sub>3</sub>	1.12	1.19	1.39	5.90	8.00	19.45	18.93	18.99	18.51	18.43	14.41	22.05	21.43
Cr <sub>2</sub> O <sub>3</sub>	0.23	0.19	—	0.02	0.03	—	0.01	—	—	—	0.96	—	0.01
FeO	7.61	7.98	7.04	9.39	7.97	0.10	0.09	0.14	0.32	0.36	12.12	13.09	12.49
MnO	0.25	0.29	0.27	0.27	0.25	—	—	0.01	0.02	0.02	0.17	0.11	0.12
MgO	19.33	18.79	19.23	20.27	17.80	0.01	0.01	0.01	0.21	0.40	15.09	0.04	0.04
CaO	12.38	12.77	12.44	8.70	7.31	0.76	0.44	0.57	1.67	1.20	0.04	22.84	21.91
NiO	0.03	—	0.02	0.07	0.05	—	—	—	—	—	0.07	—	—
Na <sub>2</sub> O	0.37	0.35	0.38	0.23	1.97	11.53	11.41	11.65	10.94	11.38	0.01	0.03	0.94
K <sub>2</sub> O	0.06	0.12	0.05	0.03	0.03	0.08	0.50	0.08	0.12	0.06	9.64	—	0.01
P <sub>2</sub> O <sub>5</sub>	—	—	—	—	0.01	0.01	—	—	0.29	0.15	—	—	0.01
<b>Total</b>	98.01	97.52	96.90	93.15	93.97	100.29	100.04	99.69	98.88	99.18	94.50	96.35	96.41
<b>Oxygens</b>	O = 23	O = 23	O = 23	O = 23	O = 23	O = 8	O = 8	O = 8	O = 8	O = 8	O = 11	O = 12.5	O = 12.5
Si	7.86	7.85	7.88	6.99	7.18	2.98	3.01	3.00	2.96	2.98	3.07	3.05	3.13
Ti	0.01	0.01	0.00	0.00	0.00	—	—	—	0.02	0.00	0.04	—	0.01
<sup>[4]</sup> Al	0.14	0.15	0.12	1.01	0.82	1.00	0.98	0.98	0.98	0.97	0.93	—	—
<sup>[6]</sup> Al	0.04	0.05	0.11	—	0.52	—	—	—	—	—	0.33	2.08	2.01
Fe <sup>3+</sup>	0.26	0.09	0.15	1.14	0.95	0.00	0.00	0.01	0.01	0.01	—	0.88	0.83
Fe <sup>2+</sup>	0.63	0.85	0.68	—	—	—	—	—	—	—	0.75	—	—
Mn	0.03	0.04	0.03	0.03	0.03	—	—	0.00	0.00	0.00	0.01	0.01	0.01
Mg	4.01	3.95	4.03	4.38	3.77	0.00	0.00	0.00	0.01	0.03	1.67	0.01	0.01
Ca	1.84	1.93	1.87	1.35	1.11	0.04	0.02	0.03	0.08	0.06	0.00	1.96	1.87
Na	0.10	0.10	0.10	0.06	0.54	0.98	0.97	0.99	0.95	0.98	0.00	0.01	0.15
K	0.01	0.02	0.01	0.01	0.01	0.00	0.03	0.00	0.01	0.00	0.91	—	0.00
<b>Σ cations</b>	14.95	15.04	14.99	14.97	—	5.01	5.00	5.01	5.01	5.03	7.72	7.98	8.01
<b>An content<sup>1</sup></b>	—	—	—	—	—	3.49	2.05	2.64	7.73	5.48	—	—	—
<b>Mineral phase<sup>2</sup></b>	act	act	act	hbl	hbl	alb	alb	alb	alb	alb	bio	epd	epd