

Table A1.

Rock	Pelitic gneiss				Gamano granodiorite													
	Grt-Bt-Sil gneiss				Grt-granodiorite													
Sample	14060811				16012706													
Position	1-core	1-rim	2-core	2-rim	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SiO ₂	36.49	36.27	35.98	36.23	36.17	36.21	36.56	36.40	36.72	36.41	36.61	36.64	36.34	36.32	36.46	36.46	36.76	36.70
TiO ₂	0.00	0.05	0.04	0.02	0.04	0.00	0.01	0.03	0.01	0.23	0.02	0.11	0.12	0.10	0.07	0.01	0.00	0.02
Al ₂ O ₃	20.74	20.81	21.14	20.72	20.78	20.86	20.88	20.96	20.88	20.25	20.90	20.22	20.24	20.30	20.22	21.11	20.93	21.01
Cr ₂ O ₃	0.00	0.00	0.05	0.05	0.00	0.02	0.00	0.03	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FeO _T	29.41	29.60	30.17	30.00	27.67	28.87	29.58	29.66	30.62	31.77	30.62	31.12	31.14	30.76	30.26	30.48	30.90	30.10
MnO	9.12	8.88	8.64	8.98	10.91	8.88	7.56	6.76	6.84	6.93	6.84	6.75	6.79	7.02	6.77	6.89	6.54	7.85
MgO	2.37	2.40	2.41	2.36	2.41	2.88	3.19	3.32	3.47	3.29	3.46	3.42	3.30	3.26	3.36	3.52	3.41	2.97
CaO	0.72	0.71	0.71	0.74	1.12	1.14	1.07	1.11	1.13	1.21	1.12	1.23	1.22	1.19	1.21	1.12	1.11	1.15
Na ₂ O	0.01	0.01	0.04	0.02	0.05	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.02	0.01	0.01	0.02
K ₂ O	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	0.01	0.00	0.00	0.00	0.00
Total	98.87	98.73	99.19	99.13	99.14	98.89	98.86	98.27	99.67	100.10	99.64	99.48	99.19	98.97	98.38	99.60	99.66	99.82
O=12																		
Si	2.99	2.98	2.95	2.97	2.97	2.97	2.98	2.98	2.97	2.96	2.97	2.98	2.97	2.98	2.99	2.96	2.98	2.97
Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00
Al	2.01	2.02	2.04	2.00	2.01	2.01	2.01	2.02	1.99	1.94	2.00	1.94	1.95	1.96	1.96	2.02	2.00	2.01
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
Fe	2.02	2.03	2.07	2.06	1.90	1.98	2.02	2.03	2.07	2.16	2.08	2.12	2.13	2.11	2.08	2.07	2.09	2.04
Mn	0.63	0.62	0.60	0.62	0.76	0.62	0.52	0.47	0.47	0.48	0.47	0.47	0.47	0.49	0.47	0.47	0.45	0.54
Mg	0.29	0.29	0.29	0.29	0.29	0.35	0.39	0.41	0.42	0.40	0.42	0.42	0.40	0.40	0.41	0.43	0.41	0.36
Ca	0.06	0.06	0.06	0.07	0.10	0.10	0.09	0.10	0.10	0.11	0.10	0.11	0.11	0.10	0.11	0.10	0.10	0.10
Na	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Total	8.00	8.01	8.03	8.02	8.03	8.03	8.01	8.01	8.03	8.06	8.03	8.04	8.05	8.04	8.02	8.04	8.02	8.02
Alm	67.2	67.6	68.4	67.8	62.3	64.9	66.8	67.6	67.8	68.8	67.8	68.2	68.5	68.1	67.8	67.5	68.7	67.2
Sps	21.1	20.6	19.8	20.6	24.9	20.2	17.3	15.6	15.3	15.2	15.3	15.0	15.1	15.7	15.3	15.5	14.7	17.7
Pyr	9.6	9.8	9.7	9.5	9.7	11.5	12.8	13.5	13.7	12.7	13.6	13.4	12.9	12.8	13.4	13.9	13.5	11.8
Grs	2.1	2.1	2.1	2.2	3.2	3.3	3.1	3.2	3.2	3.4	3.2	3.4	3.4	3.4	3.5	3.2	3.1	3.3

FeO_T: total Fe. Alm=100*Fe/(Fe+Mn+Mg+Ca), Sps=100*Mn/(Fe+Mn+Mg+Ca), Pyr=100*Mg/(Fe+Mn+Mg+Ca), Grs=100*Ca/(Fe+Mn+Mg+Ca)

Table A2.

Rock Sample position	Pelitic gneiss		Dioritic rock		Gamano granodiorite						Bioite granite	
	Grt-Bt-Sil gneiss		Diorite		Bt-granodiorite		Grt-granodiorite		Hb-granodiorite		Bt-granite	
	14060811		15050104B		16070605		16012706		14081804		15081804	
	core	core	core	rim	core	rim	core	rim	core	rim	core	rim
SiO ₂	62.15	62.18	54.72	54.92	55.59	55.88	59.07	58.86	54.78	57.31	57.17	59.63
TiO ₂	0.00	0.01	0.00	0.00	0.00	0.03	0.02	0.06	0.00	0.00	0.00	0.00
Al ₂ O ₃	23.85	23.33	28.48	28.53	28.37	27.47	25.01	24.89	28.64	26.46	26.55	25.11
Cr ₂ O ₃	0.00	0.00	0.00	0.02	0.01	0.00	0.02	0.04	0.01	0.00	0.00	0.00
FeO _T	0.03	0.00	0.07	0.12	0.10	0.05	0.00	0.03	0.09	0.08	0.02	0.08
MnO	0.00	0.03	0.03	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.05	0.00
MgO	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CaO	4.66	4.21	10.47	10.23	9.87	8.93	6.41	6.32	10.45	8.34	8.18	6.49
Na ₂ O	8.77	9.04	5.27	5.63	5.80	6.18	8.72	8.56	5.52	6.67	6.63	7.57
K ₂ O	0.19	0.21	0.20	0.14	0.22	0.20	0.36	0.36	0.28	0.46	0.25	0.34
Total	99.65	99.01	99.26	99.59	99.96	98.75	99.59	99.12	99.78	99.33	98.84	99.22
O=32												
Si	11.04	11.11	9.93	9.93	10.01	10.15	10.62	10.63	9.90	10.35	10.35	10.71
Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Al	4.99	4.91	6.09	6.08	6.02	5.88	5.30	5.30	6.10	5.63	5.67	5.31
Cr	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	0.00	0.00	0.01	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.01
Mn	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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
Ca	0.89	0.81	2.04	1.98	1.90	1.74	1.23	1.22	2.02	1.61	1.59	1.25
Na	3.02	3.13	1.85	1.97	2.02	2.18	3.04	3.00	1.94	2.34	2.33	2.63
K	0.04	0.05	0.05	0.03	0.05	0.05	0.08	0.08	0.07	0.11	0.06	0.08
Total	19.99	20.02	19.98	20.03	20.02	20.01	20.28	20.25	20.05	20.05	20.01	19.99
An	22.5	20.2	51.7	49.7	47.9	43.9	28.3	28.4	50.3	39.8	39.9	31.5
Ab	76.5	78.6	47.1	49.5	50.8	54.9	69.8	69.7	48.1	57.6	58.6	66.5
Or	1.1	1.2	1.2	0.8	1.3	1.2	1.9	1.9	1.6	2.6	1.5	2.0

FeO_T: total Fe. An=100*Ca/(Ca+Na+K), Ab=100*Na/(Ca+Na+K), Or=100*K/(Ca+Na+K)

Table A2. Continued.

Gamano granodiorite									
Rock	Hb-granodiorite								
Sample	16050409								
position	A				A'				
SiO ₂	60.51	57.99	56.18	55.69	56.97	59.40	56.36	54.84	58.11
TiO ₂	0.00	0.01	0.00	0.00	0.00	0.02	0.02	0.01	0.03
Al ₂ O ₃	24.14	26.59	27.91	28.32	27.02	25.54	27.81	25.54	26.52
Cr ₂ O ₃	0.02	0.02	0.01	0.01	0.00	0.00	0.06	0.00	0.01
FeO _T	0.06	0.07	0.03	0.05	0.04	0.09	0.10	0.02	0.00
MnO	0.03	0.02	0.01	0.00	0.00	0.00	0.03	0.00	0.00
MgO	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
CaO	5.97	8.60	9.38	9.99	8.56	6.80	9.42	12.23	8.00
Na ₂ O	8.01	6.75	5.88	5.70	6.62	7.25	6.04	5.39	6.89
K ₂ O	0.21	0.22	0.22	0.21	0.17	0.33	0.16	0.16	0.26
Total	98.95	100.26	99.62	99.98	99.38	99.43	100.01	98.18	99.84
O=32									
Si	10.87	10.37	10.12	10.02	10.27	10.64	10.12	10.13	10.41
Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Al	5.11	5.60	5.93	6.00	5.74	5.39	5.89	5.56	5.60
Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Fe	0.01	0.01	0.00	0.01	0.01	0.01	0.02	0.00	0.00
Mn	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Mg	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ca	1.15	1.65	1.81	1.92	1.65	1.31	1.81	2.42	1.54
Na	2.79	2.34	2.05	1.99	2.31	2.52	2.10	1.93	2.39
K	0.05	0.05	0.05	0.05	0.04	0.07	0.04	0.04	0.06
Total	19.99	20.02	19.97	20.00	20.03	19.95	20.00	20.08	20.01
An	28.81	40.82	46.23	48.61	41.28	33.49	45.84	55.15	38.48
Ab	69.97	57.96	52.46	50.20	57.73	64.60	53.23	43.99	60.00
Or	1.22	1.22	1.31	1.19	0.99	1.91	0.92	0.86	1.52

FeO_T: total Fe. An=100*Ca/(Ca+Na+K), Ab=100*Na/(Ca+Na+K), Or=100*K/(Ca+Na+K),

Positions from A to A' correspond with the analytical points of dots in figure 6.

Table A3.

Rock	Pelitic gniess		Dioritic rock		Gamano granodiorite						Biotite granite	
	Grt-Bt-Sil gneiss		Diorite		Bt-granodiorite		Grt-granodiorite		Hb-granodiorite		Bt-granite	
Sample	14060811		15050104B		16070607		16012706		14081804		150818 03	140527 01
Position	core	core	core	core	core	core	core	core	core	core	core	core
SiO ₂	34.00	34.29	35.12	35.15	35.01	34.72	34.39	34.22	34.43	35.11	34.19	34.71
TiO ₂	2.58	2.75	2.22	3.72	4.33	3.89	2.73	2.69	3.63	3.87	3.67	3.81
Al ₂ O ₃	19.70	19.57	15.08	14.56	15.01	15.42	19.29	19.30	14.43	14.58	15.73	15.50
Cr ₂ O ₃	0.04	0.02	0.02	0.01	0.00	0.05	0.00	0.00	0.03	0.02	0.03	0.00
FeO _T	19.98	20.66	22.17	23.00	23.44	24.02	19.50	19.87	22.27	23.41	22.87	24.79
MnO	0.32	0.38	0.30	0.30	0.28	0.44	0.42	0.30	0.37	0.43	0.56	0.44
MgO	7.50	7.40	9.26	8.27	6.93	6.63	8.16	8.18	7.81	7.64	6.61	5.92
CaO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Na ₂ O	0.21	0.19	0.10	0.09	0.09	0.11	0.17	0.19	0.05	0.10	0.13	0.10
K ₂ O	9.98	9.92	10.36	10.51	10.35	10.04	10.36	10.13	10.24	10.46	10.47	10.26
Total	94.30	95.19	94.64	95.61	95.46	95.32	95.02	94.88	93.25	95.61	94.25	95.54
O=22												
Si	5.29	5.29	5.54	5.51	5.50	5.48	5.31	5.29	5.53	5.52	5.45	5.49
Ti	0.30	0.32	0.26	0.44	0.51	0.46	0.32	0.31	0.44	0.46	0.44	0.45
Al	3.61	3.56	2.80	2.69	2.78	2.87	3.51	3.52	2.73	2.70	2.96	2.89
Cr	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Fe	2.60	2.67	2.92	3.02	3.08	3.17	2.52	2.57	2.99	3.08	3.05	3.28
Mn	0.04	0.05	0.04	0.04	0.04	0.06	0.05	0.04	0.05	0.06	0.07	0.06
Mg	1.74	1.70	2.18	1.93	1.62	1.56	1.88	1.88	1.87	1.79	1.57	1.40
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
Na	0.06	0.06	0.03	0.03	0.03	0.03	0.05	0.06	0.01	0.03	0.04	0.03
K	1.98	1.95	2.08	2.10	2.08	2.02	2.04	2.00	2.10	2.10	2.13	2.07
Total	15.62	15.61	15.86	15.77	15.65	15.65	15.67	15.67	15.72	15.74	15.71	15.66
Mg#	40.1	39.0	42.7	39.1	34.5	33.0	42.7	42.3	38.4	36.8	34.0	29.9

FeO_T: total Fe. Mg# = 100*Mg/(Fe+Mg)

Table A4.

Rock	Dioritic rock				Gamano granodiorite			
	Diorite				Hb-granodiorite			
Sample	15050104B				14081804			
Position	core	core	rim	rim	core	core	rim	rim
SiO ₂	44.37	44.59	43.19	43.33	42.27	41.74	41.39	41.68
TiO ₂	1.42	1.40	1.56	1.37	1.00	1.21	1.31	1.37
Al ₂ O ₃	7.94	8.06	8.86	9.23	8.40	8.73	8.71	8.79
Cr ₂ O ₃	0.02	0.00	0.01	0.01	0.00	0.03	0.00	0.02
FeO _T	18.84	19.11	19.36	19.94	24.56	25.30	24.42	24.23
MnO	0.41	0.42	0.50	0.44	1.12	1.16	1.26	1.39
MgO	8.89	9.01	8.03	7.84	5.40	5.10	5.28	4.81
CaO	11.60	11.58	11.56	11.77	10.16	10.13	10.27	10.36
Na ₂ O	1.08	1.08	1.10	0.96	1.53	1.40	1.50	1.33
K ₂ O	1.01	0.97	1.18	1.14	1.04	1.19	1.25	1.23
Total	95.58	96.22	95.35	96.02	95.48	95.98	95.38	95.21
O=23								
Si	6.88	6.87	6.75	6.73	6.78	6.69	6.67	6.71
Ti	0.17	0.16	0.18	0.16	0.12	0.15	0.16	0.17
Al	1.45	1.46	1.63	1.69	1.59	1.65	1.65	1.67
Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe	2.44	2.46	2.53	2.59	3.29	3.39	3.29	3.27
Mn	0.05	0.05	0.07	0.06	0.15	0.16	0.17	0.19
Mg	2.05	2.07	1.87	1.81	1.29	1.22	1.27	1.15
Ca	1.93	1.91	1.93	1.96	1.75	1.74	1.77	1.79
Na	0.32	0.32	0.33	0.29	0.47	0.43	0.47	0.42
K	0.20	0.19	0.23	0.22	0.21	0.24	0.26	0.25
Total	15.49	15.50	15.53	15.52	15.65	15.67	15.71	15.62
Mg#	45.7	45.7	42.5	41.2	28.1	26.4	27.8	26.1

FeO_T: total Fe. Mg# = 100*Mg/(Fe+Mg)