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Mineralogical evolution of the northern Bossoroca ophiolite, São Gabriel terrane

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Supplementary Table 5. Electron microprobe analyses of Cr-spinel.

Chromite-talc-magnesite granofels, sample BO13

Analysis	1	2	3	5	6	9	10	12	13	14
Al ₂ O ₃	3.84	6.55	6.08	6.49	6.25	6.23	6.23	6.51	6.56	6.37
Cr ₂ O ₃	54.56	55.78	55.58	56.81	56.27	56.32	55.67	55.88	56.01	56.49
FeO	38.22	33.22	35.14	33.03	33.95	33.59	33.63	32.86	32.53	33.78
MgO	1.48	2.53	1.96	2.20	2.01	2.33	2.34	2.59	2.57	2.14
Total	98.10	98.08	98.76	98.53	98.48	98.47	97.87	97.84	97.67	98.78
Structural formulae based on 32 O										
Al	1.323	2.210	2.052	2.189	2.114	2.100	2.112	2.201	2.222	2.144
Cr	12.614	12.624	12.584	12.853	12.766	12.733	12.661	12.674	12.727	12.753
Fe(iii)	2.032	1.110	1.330	0.898	1.068	1.112	1.171	1.073	0.994	1.047
Fe(ii)	7.314	6.842	7.085	7.006	7.078	6.921	6.918	6.810	6.824	7.019
Mg	0.645	1.080	0.837	0.939	0.860	0.993	1.004	1.108	1.101	0.911
Total	23.928	23.866	23.888	23.885	23.886	23.859	23.866	23.866	23.868	23.874
Fe#	0.94	0.88	0.91	0.89	0.90	0.89	0.89	0.88	0.88	0.90
Cr#	0.91	0.85	0.86	0.85	0.86	0.86	0.86	0.85	0.85	0.86

Chromite-talc-magnesite granofels, sample C4P4

Analysis	1	2	3	4	5	6	7	8	9
Al ₂ O ₃	1.63	1.83	1.91	1.52	1.46	1.46	1.50	1.51	1.46
Cr ₂ O ₃	60.32	62.80	62.33	61.31	56.72	61.05	63.42	61.81	61.85
FeO	35.10	32.70	32.54	33.88	39.53	36.57	33.05	33.47	35.43
MgO	1.42	1.82	1.72	1.69	0.95	1.36	2.12	1.78	1.53
Total	98.47	99.15	98.50	98.40	98.66	100.44	100.09	98.57	100.27
Structural formulae based on 32 oxygen									
Al	0.566	0.630	0.661	0.527	0.507	0.498	0.511	0.523	0.498
Cr	14.053	14.505	14.481	14.255	13.200	13.960	14.505	14.363	14.149
Fe(iii)	1.367	0.856	0.840	1.205	2.258	1.529	0.984	1.100	1.348
Fe(ii)	7.282	7.132	7.156	7.127	7.473	7.316	7.011	7.126	7.225
Mg	0.624	0.793	0.754	0.741	0.417	0.586	0.914	0.780	0.660
Total	23.892	23.916	23.892	23.855	23.855	23.889	23.925	23.892	23.88

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Fe#	0.93	0.91	0.91	0.92	0.96	0.94	0.90	0.91	0.93
Cr#	0.96	0.96	0.96	0.96	0.96	0.97	0.97	0.96	0.97

Chromite-talc-magnesite granofels, sample C4P4

Analysis	10	11	12	13	14	15	16	17
Al ₂ O ₃	1.48	1.48	1.50	1.54	1.75	1.97	1.82	1.63
Cr ₂ O ₃	61.47	62.82	57.93	60.32	62.43	62.39	63.53	57.70
FeO	35.11	34.50	38.30	36.38	33.54	32.87	33.03	37.25
MgO	1.50	1.52	1.10	1.34	1.94	2.02	1.73	1.29
Total	99.56	100.32	98.83	99.58	99.66	99.25	100.11	97.87
Structural formulae based on 32 oxygen								
Al	0.508	0.505	0.520	0.529	0.598	0.676	0.621	0.569
Cr	14.157	14.374	13.460	13.889	14.319	14.358	14.531	13.509
Fe(iii)	1.321	1.112	2.003	1.578	1.074	0.961	0.849	1.909
Fe(ii)	7.232	7.237	7.410	7.283	7.063	7.040	7.142	7.317
Mg	0.651	0.656	0.482	0.582	0.839	0.877	0.746	0.570
Total	23.869	23.884	23.875	23.861	23.893	23.912	23.889	23.874
Fe#	0.93	0.93	0.95	0.94	0.91	0.90	0.91	0.94
Cr#	0.97	0.97	0.96	0.96	0.96	0.96	0.96	0.96

Chromite-talc-magnesite granofels, sample C4P4

Analysis	18	19	20	21	30	31	32	33	34
Al ₂ O ₃	1.65	2.89	2.43	2.05	2.52	4.09	4.27	3.89	1.60
Cr ₂ O ₃	56.48	62.98	62.99	61.26	61.95	62.49	62.76	63.40	59.78
FeO	34.67	31.39	31.35	33.96	32.72	30.53	30.46	31.88	35.09
MgO	2.60	2.51	2.48	1.94	1.57	2.50	2.40	1.81	1.24
Total	95.40	99.77	99.25	99.21	98.76	99.61	99.89	100.98	97.71
Structural formulae based on 32 oxygen									
Al	0.573	0.979	0.829	0.703	0.868	1.379	1.434	1.301	0.560
Cr	13.156	14.310	14.410	14.087	14.319	14.130	14.142	14.225	14.034
Fe(iii)	1.431	0.693	0.753	1.197	0.804	0.483	0.416	0.453	1.389
Fe(ii)	7.111	6.850	6.833	7.062	7.195	6.819	6.844	7.112	7.324

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Mg	1.142	1.075	1.070	0.841	0.684	1.066	1.020	0.766	0.549
Total	23.413	23.907	23.895	23.89	23.87	23.877	23.856	23.857	23.856
Fe#	0.88	0.88	0.88	0.91	0.92	0.87	0.88	0.91	0.94
Cr#	0.96	0.94	0.95	0.95	0.94	0.91	0.91	0.92	0.96

Chromite-talc-magnesite granofels, sample C3P10

Analysis	18	19	20	21	22	23
SiO ₂	3.16	0.38	5.02	0.00	0.00	0.46
Al ₂ O ₃	4.53	16.73	17.84	19.03	0.85	1.24
Cr ₂ O ₃	33.35	40.01	41.18	43.23	40.31	38.12
FeO	43.96	31.47	32.63	32.75	56.14	43.28
MgO	3.24	2.41	2.25	3.02	0.30	0.58
Total	88.24	91.00	98.92	98.03	97.60	83.68
Structural formulae based on 32 O						
Si	0.983	0.111	1.342	0.000	0.000	0.158
Al	1.661	5.763	5.619	6.052	0.298	0.502
Cr	8.205	9.245	8.700	9.222	9.468	10.360
Fe(iii)	3.928	0.731	0.000	0.698	6.020	4.562
Fe(ii)	7.512	6.961	7.292	6.691	7.928	7.879
Mg	1.503	1.050	0.896	1.215	0.133	0.297
Total	23.792	23.861	23.849	23.878	23.847	23.758
Fe#	0.88	0.88	0.89	0.86	0.99	0.98
Cr#	0.83	0.62	0.61	0.60	0.97	0.95