

Appendix 3. Major element compositions (wt%) of whole rock peridotites from the northern Fizh mantle section in the northern Oman ophiolite

Reference no	SiO ₂	TiO ₂	Al ₂ O ₃	FeO ^{T a}	MnO	MgO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	Cr ₂ O ₃	NiO	Total	Mg# ^b	LOI
99111805	42.19	0.009	0.764	7.41	0.119	42.08	0.764	0.000	0.003	0.001	0.383	0.296	100.14	0.910	6.1
99111901	42.64	0.008	0.856	7.54	0.122	39.99	0.885	0.007	0.003	0.001	0.388	0.282	99.88	0.904	7.2
99111905	37.58	0.008	0.174	8.45	0.123	44.39	0.119	0.000	0.003	0.002	0.413	0.309	100.73	0.904	9.2
99112003	41.70	0.007	0.445	7.58	0.122	41.34	0.684	0.006	0.003	0.001	0.403	0.294	99.99	0.907	7.4
99112102	41.22	0.007	0.678	7.30	0.116	40.82	0.775	0.005	0.003	0.001	0.376	0.293	99.97	0.909	8.4
99112104	43.38	0.010	0.416	7.51	0.127	41.56	0.587	0.010	0.003	0.001	0.411	0.280	99.97	0.908	5.7
99112105	41.09	0.006	0.369	7.54	0.121	42.26	0.513	0.009	0.003	0.001	0.462	0.296	99.60	0.909	6.9
99112108	41.48	0.009	0.795	7.63	0.124	40.70	1.03	0.007	0.003	0.001	0.397	0.286	99.48	0.905	7.0
99112301	42.61	0.017	1.11	7.34	0.120	39.88	1.27	0.002	0.003	0.001	0.387	0.279	99.52	0.906	6.5
99112304	40.54	0.009	0.302	7.78	0.123	42.56	0.350	0.008	0.005	0.001	0.400	0.303	99.77	0.907	7.4
99112307	40.61	0.007	0.382	7.84	0.122	41.70	0.655	0.011	0.003	0.001	0.448	0.292	99.76	0.905	7.7
99112309	40.06	0.007	0.293	7.46	0.112	43.35	0.257	0.007	0.003	0.001	0.378	0.322	99.61	0.912	7.4
99112310	40.69	0.007	0.380	7.55	0.120	42.28	0.472	0.004	0.003	0.001	0.379	0.296	100.03	0.909	7.9
99112405	41.07	0.009	0.552	7.64	0.124	40.23	1.23	0.006	0.003	0.001	0.417	0.281	99.67	0.904	8.1
99112407	40.21	0.009	0.653	7.59	0.123	41.39	0.998	0.007	0.003	0.001	0.388	0.293	99.02	0.907	7.4
99112503	40.52	0.009	0.271	7.88	0.124	42.25	0.483	0.009	0.003	0.001	0.334	0.304	99.90	0.905	7.7
99112507	41.03	0.007	0.690	7.44	0.117	42.27	0.780	0.011	0.003	0.001	0.380	0.296	100.35	0.910	7.3
99112510	42.43	0.008	0.642	7.67	0.124	42.99	0.962	0.008	0.003	0.001	0.383	0.304	100.07	0.909	4.5
99112701	39.77	0.008	0.362	7.01	0.114	40.03	0.822	0.007	0.001	0.001	0.363	0.281	99.48	0.911	10.7
99112703	40.25	0.006	0.517	7.14	0.116	41.30	0.619	0.003	0.003	0.001	0.391	0.289	99.67	0.912	9.0
99112704	40.85	0.010	0.684	7.15	0.114	42.11	0.614	0.007	0.003	0.001	0.372	0.296	100.16	0.913	7.9
99112706	40.22	0.008	0.498	7.64	0.120	41.48	0.497	0.013	0.003	0.001	0.342	0.308	99.60	0.906	8.5
99112707	42.19	0.019	0.844	7.53	0.116	42.52	0.662	0.006	0.003	0.002	0.362	0.302	100.65	0.910	6.1
99112708	40.62	0.009	0.736	7.80	0.124	41.39	0.666	0.008	0.002	0.001	0.323	0.295	99.55	0.904	7.6
99112710	41.03	0.007	0.420	7.67	0.123	41.38	0.611	0.011	0.001	0.001	0.364	0.290	99.73	0.906	7.8
99112802	39.71	0.006	0.245	7.42	0.119	40.97	0.406	0.007	0.001	0.001	0.398	0.288	99.48	0.908	9.9
99112803	41.19	0.015	0.905	7.15	0.115	40.82	1.15	0.009	0.003	0.001	0.411	0.286	100.09	0.911	8.0
99112804	41.09	0.008	0.338	7.43	0.121	40.66	0.532	0.009	0.003	0.001	0.422	0.283	100.07	0.907	9.2
99112805	41.01	0.013	0.879	7.42	0.120	40.04	1.14	0.005	0.003	0.001	0.395	0.281	100.14	0.906	8.8
99112807	38.13	0.005	0.129	8.01	0.114	43.63	0.174	0.003	0.003	0.001	0.413	0.326	100.64	0.907	9.7
99112809	40.77	0.009	0.665	7.35	0.118	41.50	0.715	0.004	0.003	0.001	0.384	0.292	100.14	0.910	8.3
99112811	42.57	0.012	0.935	7.53	0.122	39.93	1.23	0.005	0.003	0.001	0.421	0.280	100.27	0.904	7.2
99112812	42.35	0.007	0.480	7.72	0.125	42.18	0.820	0.004	0.003	0.001	0.417	0.297	99.53	0.907	5.1
99112901	38.47	0.008	0.393	6.76	0.110	40.08	0.464	0.011	0.001	0.001	0.431	0.278	99.76	0.914	12.8
99112905	40.64	0.008	0.320	7.37	0.119	41.01	0.382	0.006	0.003	0.001	0.392	0.285	100.08	0.908	9.5
99112906	38.99	0.008	0.346	7.70	0.117	42.09	0.429	0.009	0.002	0.001	0.338	0.307	100.05	0.907	9.7
99112908	39.67	0.013	0.933	7.22	0.115	39.81	1.04	0.017	0.002	0.001	0.372	0.279	99.88	0.908	10.4
99112910	40.19	0.008	0.433	7.60	0.114	43.42	0.455	0.004	0.003	0.001	0.375	0.319	100.89	0.911	8.0
99112912	41.36	0.011	0.805	7.39	0.119	40.84	1.20	0.013	0.001	0.001	0.382	0.288	99.78	0.908	7.4
99112914	40.26	0.008	0.594	7.48	0.119	41.93	0.686	0.011	0.001	0.001	0.363	0.299	99.61	0.909	7.8
99112915	41.22	0.008	0.475	7.60	0.121	41.50	0.690	0.006	0.003	0.001	0.406	0.295	99.74	0.907	7.4
99120101	41.44	0.011	1.12	7.01	0.121	38.16	1.55	0.009	0.003	0.001	0.409	0.260	99.76	0.907	9.7
99120110	40.92	0.011	0.959	7.14	0.116	38.95	1.20	0.005	0.003	0.001	0.372	0.277	100.05	0.907	10.1
99120204	39.97	0.006	0.578	7.22	0.116	40.51	0.659	0.003	0.003	0.001	0.378	0.292	99.68	0.909	9.9
99120207	41.45	0.007	0.424	7.22	0.116	40.47	0.530	0.007	0.003	0.001	0.405	0.287	100.15	0.909	9.2
99120210	41.12	0.008	0.581	7.35	0.115	41.33	0.666	0.008	0.003	0.001	0.392	0.292	100.30	0.909	8.4
99120212	41.24	0.009	0.486	7.27	0.118	40.46	0.600	0.006	0.003	0.001	0.442	0.280	100.36	0.908	9.4
99120213	42.31	0.009	0.618	7.29	0.122	40.31	0.955	0.003	0.003	0.001	0.489	0.275	100.06	0.908	7.7
99120216	40.74	0.008	0.779	6.85	0.111	39.84	0.832	0.004	0.003	0.001	0.359	0.290	99.81	0.912	10.0
99120305	40.93	0.012	0.933	7.07	0.115	39.89	1.07	0.002	0.003	0.001	0.373	0.280	100.21	0.910	9.5

^aTotal Fe as FeO^T;^bMg# = Mg/(Mg+Fe^T).

Appendix 3. *Continued.*

Reference no	SiO ₂	TiO ₂	Al ₂ O ₃	FeO ^{T a}	MnO	MgO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	Cr ₂ O ₃	NiO	Total	Mg# ^b	LOI
99120306	41.05	0.008	0.392	7.36	0.119	40.97	0.500	0.003	0.003	0.001	0.426	0.282	100.10	0.908	9.0
99120307	40.66	0.009	0.554	6.91	0.115	39.88	0.874	0.003	0.003	0.001	0.434	0.277	99.75	0.911	10.0
99120310	40.21	0.007	0.478	7.09	0.115	40.08	0.539	0.004	0.003	0.001	0.396	0.285	99.82	0.910	10.6
99120602	41.86	0.012	1.13	7.28	0.120	39.10	1.27	0.010	0.003	0.001	0.392	0.273	99.98	0.905	8.5
99120606	42.09	0.012	1.12	7.31	0.125	38.80	1.43	0.006	0.003	0.001	0.405	0.263	99.63	0.904	8.1
99120614	42.54	0.009	0.799	7.21	0.121	39.95	0.881	0.007	0.004	0.001	0.395	0.279	100.01	0.908	7.8
99120702	39.03	0.006	0.278	7.47	0.117	40.53	0.392	0.006	0.003	0.001	0.380	0.286	99.97	0.906	11.5
99120901	40.99	0.010	0.928	7.41	0.121	39.67	1.19	0.004	0.003	0.001	0.359	0.277	99.95	0.905	9.0
99120903	41.01	0.016	1.12	7.01	0.116	39.49	1.09	0.006	0.003	0.001	0.416	0.273	99.55	0.909	9.0
99120904	39.86	0.007	0.496	6.91	0.111	40.91	0.527	0.007	0.003	0.001	0.409	0.287	99.57	0.913	10.0
99120910	39.24	0.006	0.467	7.30	0.115	39.54	0.602	0.003	0.003	0.001	0.436	0.281	99.58	0.906	11.6
99121010	41.70	0.010	0.527	7.41	0.123	40.68	0.738	0.011	0.003	0.001	0.451	0.282	99.50	0.907	7.6
99121012	42.38	0.008	0.457	7.84	0.127	42.16	0.674	0.008	0.003	0.001	0.405	0.294	100.06	0.906	5.7
99121013	40.46	0.009	0.535	7.56	0.118	41.77	0.558	0.004	0.003	0.001	0.382	0.296	99.73	0.908	8.0
99121101	39.35	0.009	0.771	7.17	0.117	39.27	0.949	0.008	0.003	0.001	0.383	0.276	99.46	0.907	11.1
99121104	40.30	0.007	0.567	6.95	0.111	40.76	0.591	0.003	0.003	0.001	0.381	0.295	99.63	0.913	9.7
99121106	40.98	0.009	0.599	7.36	0.118	41.54	0.768	0.006	0.003	0.001	0.388	0.294	100.03	0.910	8.0
99121110	39.65	0.007	0.261	6.96	0.112	40.49	0.368	0.003	0.003	0.001	0.430	0.286	99.60	0.912	11.0
99121111	39.88	0.006	0.361	7.41	0.116	42.05	0.415	0.006	0.003	0.001	0.406	0.292	100.28	0.910	9.3
99121112	40.57	0.009	0.405	7.33	0.117	41.69	0.520	0.010	0.004	0.001	0.388	0.294	99.90	0.910	8.6
99121303	41.78	0.074	1.38	8.64	0.135	39.16	0.985	0.052	0.004	0.001	0.330	0.272	99.80	0.890	7.0
99121305	44.27	0.007	0.624	7.63	0.127	41.67	0.915	0.005	0.004	0.001	0.400	0.294	100.28	0.907	4.3
99121401	44.51	0.010	0.897	7.04	0.125	39.32	0.909	0.008	0.003	0.001	0.638	0.232	99.67	0.909	6.0
99121403	40.85	0.005	0.432	7.54	0.120	41.31	0.653	0.003	0.003	0.001	0.407	0.292	99.80	0.907	8.2
99121405	41.97	0.006	0.421	7.40	0.124	40.62	0.823	0.006	0.003	0.001	0.466	0.280	100.11	0.907	8.0
99121407	40.72	0.006	0.553	7.11	0.120	40.67	0.939	0.003	0.003	0.001	0.438	0.280	99.58	0.911	8.7
99121410	40.02	0.006	0.325	7.48	0.119	41.92	0.422	0.008	0.003	0.001	0.372	0.302	99.75	0.909	8.8
99121412	41.05	0.006	0.537	7.10	0.113	41.77	0.489	0.006	0.003	0.001	0.381	0.299	100.13	0.913	8.4
99121701	41.11	0.007	0.670	7.38	0.120	39.72	0.794	0.013	0.003	0.001	0.384	0.278	99.95	0.906	9.5
99121806	43.74	0.012	0.947	7.06	0.127	39.34	2.032	0.011	0.003	0.001	0.441	0.263	99.39	0.909	5.4
99121808	42.15	0.009	0.879	7.36	0.120	40.06	0.916	0.022	0.005	0.001	0.397	0.282	99.79	0.907	7.6
00121902	40.89	0.009	0.613	7.41	0.119	41.01	0.669	0.003	0.003	0.001	0.326	0.295	99.81	0.908	8.5
00121908	41.11	0.008	0.697	7.31	0.119	40.62	0.797	0.009	0.005	0.001	0.343	0.293	99.68	0.908	8.4
00122202	42.17	0.007	0.339	7.60	0.123	42.41	0.463	0.002	0.003	0.001	0.397	0.309	99.58	0.909	5.8
00122203	42.29	0.012	0.893	7.30	0.121	39.84	1.17	0.016	0.003	0.001	0.412	0.277	99.98	0.907	7.6
00122206	42.81	0.013	0.909	7.47	0.123	41.75	1.18	0.005	0.002	0.001	0.419	0.329	99.54	0.909	4.5
00122208	41.64	0.016	1.16	7.07	0.120	39.34	1.85	0.051	0.050	0.001	0.459	0.262	99.89	0.908	7.9
00122603	40.97	0.006	0.392	7.59	0.123	42.02	0.597	0.007	0.003	0.001	0.375	0.302	99.72	0.908	7.3
00122607	42.26	0.012	0.840	7.18	0.117	41.20	0.900	0.005	0.003	0.001	0.379	0.295	99.57	0.911	6.4
00122802	41.00	0.008	0.582	7.35	0.116	42.25	0.595	0.020	0.003	0.001	0.410	0.295	100.03	0.911	7.4
00122805	39.92	0.005	0.524	7.42	0.116	40.58	0.761	0.010	0.003	0.001	0.376	0.296	99.62	0.907	9.6
00123002	42.31	0.011	0.601	7.73	0.124	41.41	0.991	0.011	0.003	0.001	0.395	0.289	99.67	0.905	5.8
00123004	41.02	0.006	0.318	7.50	0.122	41.54	0.504	0.011	0.004	0.001	0.382	0.285	99.87	0.908	8.2
00123006	40.90	0.005	0.336	7.50	0.121	41.58	0.581	0.005	0.003	0.001	0.404	0.295	99.94	0.908	8.2
00123007	41.46	0.004	0.226	7.72	0.118	44.17	0.348	0.005	0.003	0.001	0.381	0.323	100.10	0.911	5.3
00123009	42.63	0.005	0.382	7.42	0.125	41.80	0.704	0.008	0.003	0.001	0.425	0.290	99.52	0.909	5.7
00123104	40.55	0.006	0.404	7.31	0.113	43.11	0.462	0.001	0.003	0.001	0.549	0.303	100.26	0.913	7.5
01010301	40.67	0.006	0.346	7.48	0.121	41.25	0.798	0.006	0.003	0.001	0.393	0.294	99.84	0.908	8.5
01010303	40.62	0.006	0.399	7.41	0.118	41.93	0.582	0.006	0.003	0.001	0.371	0.299	100.09	0.910	8.3
01010701	42.28	0.010	0.672	7.78	0.126	42.19	0.971	0.005	0.003	0.001	0.404	0.299	99.55	0.906	4.8
01010704	41.09	0.008	0.522	6.81	0.109	42.00	0.399	0.004	0.003	0.001	0.367	0.304	99.70	0.917	8.1