

Appendix 3

Rb-Sr, Sm-Nd and U-Pb isotopic data on carbonatites and associated alkaline silicate rocks from Tajno massif

sample n°	rock type	Rb	Sr	⁸⁷ Rb/ ⁸⁶ Sr	⁸⁷ Sr/ ⁸⁶ Sr	2σ	(⁸⁷ Sr/ ⁸⁶ Sr)t	Sm	Nd	¹⁴⁷ Sm/ ¹⁴⁴ Nd	¹⁴³ Nd/ ¹⁴⁴ Nd	2σ	(¹⁴³ Nd/ ¹⁴⁴ Nd)t	ε _{Nd} (t)	U	Th	Pb	²⁰⁶ Pb/ ²⁰⁴ Pb	²⁰⁷ Pb/ ²⁰⁴ Pb	²⁰⁸ Pb/ ²⁰⁴ Pb
		(ppm)	(ppm)					(ppm)	(ppm)						(ppm)	(ppm)	(ppm)			
1-767	pyroxenite	90.2	1064	0.2454	0.706002	0.000006	0.704786	26.6	150.6	0.10679	0.512504	0.000010	0.512261	1.39	1.82	10.9	6.31	19.2832	15.6354	40.1012
1-769.5	albitite	6.2	1681	0.0107	0.704133	0.000006	0.704080	8.81	129.4	0.04116	0.512396	0.000007	0.512302	2.19						
2-690.4	syenite	78.4	1559	0.1455	0.705048	0.000005	0.704327	18.16	105.1	0.10447	0.512488	0.000011	0.512250	1.17	2.09	8.81	9.97	18.1896	15.5187	38.2075
2-814.3	syenite	67.4	1677	0.1163	0.704964	0.000006	0.704388	18.3	104	0.10638	0.512470	0.000010	0.512228	0.74						
6-614.5	pyroxenite	16.1	339.1	0.1374	0.705410	0.000007	0.704388	7.00	34.2	0.12376	0.512765	0.000014	0.512483	5.73	0.46	1.71	6.52	19.0027	15.6326	38.7576
6-708.2	pyroxenite	14.5	515.9	0.081	0.704990	0.000005	0.704729	14.1	73.9	0.11536	0.512581	0.000007	0.512318	2.50						
6-1180.4	pyroxenite	18.0	554.2	0.0940	0.706513	0.000005	0.704587	20.7	112.5	0.11124	0.512408	0.000008	0.512155	-0.68						
7-1050.5	tuff	140.7	537.9	0.7572	0.706787	0.000005	0.706047	15.4	112.1	0.08306	0.512398	0.000007	0.512209	0.37						
7-1128.6	carbonatite	8.95	43440	0.0006	0.703733	0.000007	0.706412	18.67	174.7	0.06461	0.512473	0.000008	0.512336	2.66	0.51	0.78	22.4	17.8817	15.4909	37.6014
7-1134	carbonatite	2.21	43010	0.00015	0.703715	0.000006	0.703730	18.85	163.3	0.06979	0.512495	0.000007	0.512336	2.85						
7-1138	carbonatite	2.95	38770	0.00022	0.703744	0.000006	0.703743	17.91	158.2	0.06845	0.512506	0.000010	0.512350	3.12						
7-1138.5	carbonatite	3.73	49070	0.00022	0.703721	0.000006	0.703720	21.03	230.7	0.05511	0.512439	0.000011	0.512223	0.64						
7-1139.2	carbonatite	9.86	42650	0.00067	0.703726	0.000007	0.703723	17.95	165.4	0.06561	0.512473	0.000009	0.512324	2.62	0.19	1.85	23.6	17.8432	15.5027	37.6870
7-1173.8	carbonatite	7.98	33840	0.00068	0.703819	0.000006	0.703816	28.68	201.8	0.08593	0.512533	0.000012	0.512337	2.87	22.9	64.8	114.4	18.5413	15.5329	38.2664
8-1254.6	syenite	122.9	1523	0.2336	0.705596	0.000005	0.704439	5.72	37.47	0.09230	0.512456	0.000013	0.512246	1.09	2.31	9.44	23.1	18.0281	15.5311	38.0165
10-1049.5	pyroxenite	13.23	3990	0.0096	0.703927	0.000005	0.703879	29.91	152.7	0.11842	0.512599	0.000013	0.512329	2.71						
10-1059.7	carbonatite	13.43	28380	0.0014	0.703713	0.000006	0.703706	21.04	158.1	0.08046	0.512511	0.000009	0.512328	2.69	0.52	10.5	30.7	17.9329	15.4954	38.0043
10-1062.6	carbonatite	2.53	39880	0.00018	0.703716	0.000006	0.703715	18.57	157.1	0.07146	0.512508	0.000009	0.512345	3.02						
10-1083	carbonatite	6.78	30060	0.00065	0.703750	0.000008	0.703747	19.98	158.4	0.07626	0.512531	0.000017	0.512357	3.26						
10-1085	carbonatite	2.83	36250	0.00022	0.703697	0.000006	0.703696	22.65	180.5	0.07587	0.512529	0.000011	0.512356	3.24	0.89	1.01	16.8	18.0731	15.5112	37.7738
10-1091	albitite	16.62	1535	0.0313	0.703934	0.000005	0.703779	3.04	23.01	0.07988	0.512493	0.000010	0.512317	2.36						
10-1151	carbonatite	1.48	37050	0.00012	0.703701	0.000007	0.703700	20.75	175.1	0.07164	0.512499	0.000012	0.512336	2.85	0.08	14	12.1	17.9489	15.4965	37.6962
11-778.6	trachyte	137.8	2229	0.1789	0.704998	0.000007	0.704112	13.98	97.89	0.08616	0.512463	0.000012	0.512267	1.50						
11-1026	carbonatite	3.83	31450	0.00035	0.703817	0.000006	0.703800	29.56	252.2	0.07087	0.512508	0.000008	0.512347	3.06	0.85	4.80	14.4	18.0578	15.5050	38.0593
11-1027.5	carbonatite	20.71	32730	0.0018	0.703783	0.000007	0.703774	17.52	147.1	0.07201	0.512512	0.000011	0.512348	3.08						