Tab. 1: U–Pb zircons data from CVMg–K, SVMg–K and W-CVG samples.

Analysis_#	zircon shape/CL	Spot location	Pb (ppm)	Th (ppm)	U (ppm)	Th/U	$^{207}Pb/^{235}U$	2 σ	$^{206}Pb/^{238}U$	2 σ	Rho
CN6											
10180411e	prism/uniform	rim	53	239	994	0.24	0.407	0.009	0.0537	0.0010	0.86
11180411e	prism/uniform	rim	90	305	1715	0.18	0.418	0.009	0.0537	0.0010	0.90
12180411e	prism/uniform	core	101	402	1905	0.21	0.401	0.009	0.0541	0.0010	0.90
17180411e	prism/uniform	core	93	402	1735	0.23	0.401	0.009	0.0539	0.0010	0.88
18180411e	prism/uniform	rim	77	336	1432	0.23	0.409	0.009	0.0540	0.0010	0.87
20180411e	prism/uniform	rim	129	549	2413	0.23	0.427	0.012	0.0541	0.0010	0.71
21180411e	prism/uniform	rim	68	280	1274	0.22	0.438	0.011	0.0537	0.0010	0.79
22180411e	prism/uniform	core	94	475	1762	0.27	0.400	0.009	0.0539	0.0010	0.87
28180411e	prism/uniform	rim	60	248	1126	0.22	0.400	0.009	0.0541	0.0010	0.83
29180411e	prism/uniform	rim	63	261	1194	0.22	0.396	0.009	0.0540	0.0010	0.83
30180411e	prism/uniform	core	106	465	2015	0.23	0.398	0.009	0.0537	0.0010	0.84
31180411e	prism/uniform	rim	69	410	1267	0.32	0.397	0.010	0.0538	0.0010	0.79
09180411f	prism/uniform	core	73	303	1406	0.21	0.400	0.009	0.0535	0.0010	0.84
10180411f	prism/uniform	core	70	395	1290	0.31	0.436	0.010	0.0535	0.0010	0.83
12180411f	prism/uniform	rim	149	651	2855	0.23	0.396	0.009	0.0533	0.0010	0.84
16180411f	prism/uniform	core	98	447	1811	0.25	0.422	0.010	0.0538	0.0010	0.78
17180411f	prism/uniform	rim	83	481	1595	0.30	0.408	0.010	0.0534	0.0010	0.72
18180411f	prism/uniform	rim	96	435	1840	0.24	0.400	0.010	0.0533	0.0010	0.77
07190411a	prism/uniform	core	67	236	1265	0.19	0.405	0.011	0.0536	0.0014	0.96
08190411a	prism/uniform	rim	107	426	2014	0.21	0.394	0.010	0.0536	0.0014	0.96
09190411a	prism/uniform	core	85	331	1632	0.20	0.413	0.011	0.0536	0.0014	0.97
10190411a	prism/uniform	core	133	417	2587	0.16	0.412	0.011	0.0536	0.0014	0.98
12190411a	prism/uniform	core	973	12424	15797	0.79	0.396	0.010	0.0534	0.0013	0.99
16190411a	prism/uniform	core	130	986	2248	0.44	0.464	0.012	0.0542	0.0013	0.96
19190411a	prism/uniform	rim	64	292	1220	0.24	0.412	0.011	0.0536	0.0013	0.93
20190411a	prism/uniform	rim	112	535	2090	0.26	0.440	0.012	0.0537	0.0013	0.93
19180411e	round/zoned	rim	93	358	1654	0.22	0.446	0.013	0.0578	0.0011	0.69
05190411a	round/uniform	rim	104	514	1824	0.28	0.422	0.011	0.0569	0.0015	0.97
06190411a	round/uniform	core	82	382	1451	0.26	0.432	0.011	0.0557	0.0014	0.97
11190411a	round/uniform	core	82	407	1488	0.27	0.416	0.011	0.0563	0.0014	0.96
17190411a	round/uniform	core	94	400	1670	0.24	0.425	0.011	0.0561	0.0014	0.95
18190411a	round/uniform	core	135	864	2313	0.37	0.421	0.011	0.0560	0.0014	0.95
21190411a	round/uniform	core	79	318	1458	0.22	0.414	0.011	0.0558	0.0014	0.93
22190411a	round/uniform	rim	108	411	1974	0.21	0.427	0.012	0.0558	0.0014	0.90
CS1											
05190411b	prism/uniform	rim	98	430	1833	0.23	0.398	0.010	0.0537	0.0013	0.97
08190411b	prism/uniform	rim	113	552	2103	0.26	0.392	0.010	0.0536	0.0013	0.96
09190411b	prism/uniform	rim	133	717	2497	0.29	0.393	0.010	0.0539	0.0013	0.96
10190411b	prism/uniform	core	121	592	2311	0.26	0.394	0.010	0.0535	0.0013	0.96
11190411b	prism/uniform	rim	108	472	2060	0.23	0.409	0.010	0.0535	0.0013	0.96
15190411b	prism/uniform	core	189	1094	3447	0.32	0.431	0.010	0.0536	0.0013	0.97
17190411b	prism/uniform	rim	108	565	2000	0.28	0.419	0.010	0.0537	0.0013	0.95
18190411b	prism/uniform	rim	102	552	1918	0.29	0.400	0.010	0.0533	0.0012	0.92
19190411b	prism/uniform	rim	106	451	2017	0.22	0.394	0.010	0.0536	0.0012	0.93
20190411b	prism/uniform	core	95	432	1806	0.24	0.392	0.010	0.0535	0.0012	0.92
22190411b	round/uniform	rim	151	763	2838	0.27	0.400	0.010	0.0535	0.0012	0.93
26190411b	prism/uniform	rim	137	514	2601	0.20	0.401	0.010	0.0536	0.0012	0.93
27190411b	prism/uniform	core	115	452	2176	0.21	0.406	0.010	0.0536	0.0012	0.90
28190411b	prism/uniform	rim	100	438	1878	0.23	0.404	0.010	0.0537	0.0012	0.91
29190411b	prism/uniform	core	94	511	1730	0.29	0.409	0.010	0.0536	0.0012	0.91
30190411b	prism/uniform	core	138	677	2524	0.27	0.447	0.011	0.0537	0.0012	0.91
05190411c	prism/uniform	core	83	343	1585	0.22	0.401	0.010	0.0536	0.0012	0.94
06190411c	round/uniform	rim	124	552	2343	0.24	0.396	0.009	0.0536	0.0012	0.96
08190411c	prism/uniform	rim	358	4870	6900	0.71	0.488	0.012	0.0538	0.0012	0.94
12190411c	prism/uniform	core	72	274	1372	0.20	0.410	0.010	0.0538	0.0012	0.90
19190411c	prism/uniform	rim	108	576	1998	0.29	0.437	0.012	0.0538	0.0012	0.84
20190411c	prism/uniform	core	101	506	1853	0.27	0.445	0.011	0.0535	0.0012	0.93
21190411c	prism/uniform	rim	107	418	2020	0.21	0.415	0.011	0.0537	0.0012	0.87
22190411c	prism/uniform	core	110	485	2022	0.24	0.444	0.012	0.0537	0.0012	0.86
25190411c	prism/uniform	rim	107	536	2022	0.27	0.404	0.010	0.0532	0.0012	0.91
26190411c	prism/uniform	rim	89	393	1645	0.24	0.431	0.011	0.0538	0.0012	0.90
29190411c	prism/uniform	core	109	485	2059	0.24	0.409	0.010	0.0537	0.0012	0.90

30190411c	prism/uniform	core	108	447	2054	0.22	0.402	0.010	0.0538	0.0012	0.89
31190411c	prism/uniform	core	132	545	2532	0.22	0.401	0.010	0.0535	0.0012	0.89
32190411c	prism/uniform	core	78	335	1486	0.23	0.417	0.011	0.0535	0.0012	0.88
21190411b	round/uniform	core	109	535	1949	0.27	0.410	0.010	0.0562	0.0013	0.93
32190411b	round/uniform	rim	228	1734	3801	0.46	0.430	0.011	0.0559	0.0013	0.91
17190411c	round/uniform	rim	90	388	1505	0.26	0.473	0.012	0.0604	0.0014	0.93
18190411c	round/uniform	rim	76	326	1254	0.26	0.479	0.012	0.0606	0.0014	0.92
BR14											
06180411b	prism/uniform	core	47	302	847	0.36	0.397	0.010	0.0539	0.0012	0.90
08180411b	prism/uniform	core	68	380	1206	0.32	0.420	0.012	0.0542	0.0013	0.79
12180411b	prism/uniform	rim	96	558	1735	0.32	0.437	0.013	0.0540	0.0012	0.77
15180411b	prism/uniform	core	87	455	1405	0.32	0.647	0.015	0.0557	0.0012	0.94
21180411b	prism/uniform	core	65	316	1192	0.26	0.444	0.012	0.0542	0.0012	0.84
22180411b	prism/uniform	core	58	389	1048	0.37	0.400	0.010	0.0542	0.0012	0.84
25180411b	prism/uniform	core	119	527	1858	0.28	0.790	0.019	0.0544	0.0012	0.92
27180411b	prism/uniform	rim	36	293	579	0.51	0.567	0.019	0.0542	0.0012	0.66
09180411c	prism/uniform	rim	131	577	2449	0.24	0.433	0.009	0.0538	0.0011	0.92
11180411c	prism/uniform	core	44	237	815	0.29	0.390	0.009	0.0534	0.0011	0.87
15180411c	prism/uniform	rim	55	253	1026	0.25	0.410	0.009	0.0538	0.0011	0.87
16180411c	prism/uniform	rim	43	114	842	0.14	0.407	0.011	0.0535	0.0011	0.76
19180411c	prism/uniform	rim	131	583	2429	0.24	0.433	0.010	0.0544	0.0011	0.90
21180411c	prism/uniform	core	32	131	614	0.21	0.400	0.010	0.0533	0.0011	0.82
31180411c	prism/uniform	core	38	217	706	0.31	0.405	0.014	0.0531	0.0011	0.60
BA11											
05180411a	prism/uniform	core	78	472	1404	0.34	0.402	0.012	0.0537	0.0015	0.97
07180411a	prism/uniform	core	73	449	1293	0.35	0.404	0.011	0.0536	0.0015	0.99
08180411a	prism/uniform	core	64	363	1138	0.32	0.435	0.012	0.0536	0.0015	0.98
12180411a	prism/uniform	rim	70	405	1298	0.31	0.393	0.011	0.0535	0.0014	0.96
15180411a	prism/uniform	core	75	516	1328	0.39	0.397	0.011	0.0535	0.0014	0.97
16180411a	prism/uniform	core	62	378	1116	0.34	0.409	0.011	0.0534	0.0014	0.95
21180411a	prism/uniform	core	87	499	1625	0.31	0.397	0.011	0.0536	0.0014	0.94
26180411a	prism/uniform	core	59	340	1060	0.32	0.413	0.011	0.0537	0.0013	0.93
27180411a	prism/uniform	core	60	303	1058	0.29	0.478	0.013	0.0535	0.0013	0.89
30180411b	prism/uniform	rim	78	473	1395	0.34	0.457	0.011	0.0541	0.0011	0.88
31180411b	prism/uniform	rim	73	437	1332	0.33	0.426	0.010	0.0539	0.0011	0.87
37180411b	prism/uniform	rim	95	569	1788	0.32	0.421	0.012	0.0525	0.0011	0.72
38180411b	prism/uniform	core	50	256	929	0.28	0.420	0.010	0.0540	0.0011	0.83
CO1											
05180411e	prism/uniform	core	67	402	1233	0.33	0.395	0.008	0.0539	0.0010	0.90
08180411e	prism/uniform	core	35	210	619	0.34	0.463	0.011	0.0540	0.0010	0.83
09180411e	prism/uniform	core	74	473	1323	0.36	0.430	0.010	0.0540	0.0010	0.86
25180411e	prism/uniform	core	35	233	627	0.37	0.451	0.011	0.0534	0.0010	0.80
26180411e	prism/uniform	core	75	473	1345	0.35	0.418	0.013	0.0541	0.0011	0.65
BAB4											
05190411e	prism/uniform	core	87	802	1443	0.56	0.405	0.011	0.0553	0.0014	0.95
06190411e	prism/uniform	core	71	846	1118	0.76	0.406	0.011	0.0550	0.0014	0.93
08190411e	prism/uniform	rim	47	428	771	0.56	0.409	0.011	0.0550	0.0014	0.93
09190411e	prism/uniform	rim	34	293	578	0.51	0.415	0.012	0.0551	0.0014	0.91
10190411e	prism/uniform	core	32	263	556	0.47	0.417	0.012	0.0549	0.0014	0.91
12190411e	prism/uniform	core	45	405	770	0.53	0.407	0.011	0.0549	0.0014	0.92
17190411e	prism/uniform	core	44	432	718	0.60	0.406	0.011	0.0551	0.0014	0.91
20190411e	prism/uniform	core	60	492	1034	0.48	0.449	0.012	0.0550	0.0014	0.89
21190411e	prism/uniform	rim	95	824	1654	0.50	0.403	0.011	0.0547	0.0013	0.93
22190411e	prism/uniform	rim	90	772	1538	0.50	0.407	0.011	0.0550	0.0013	0.93
26190411e	prism/uniform	rim	43	397	714	0.56	0.409	0.012	0.0551	0.0013	0.84
27190411e	prism/uniform	rim	61	526	1044	0.50	0.406	0.011	0.0549	0.0013	0.90
30190411e	prism/uniform	rim	83	766	1407	0.54	0.417	0.011	0.0551	0.0013	0.91
31190411e	prism/uniform	core	107	947	1800	0.53	0.408	0.011	0.0553	0.0013	0.91
BAB5											
05190411f	euhedral/uniform	core	57	475	992	0.48	0.400	0.010	0.0544	0.0013	0.92
07190411f	euhedral/uniform	core	85	641	1484	0.43	0.401	0.010	0.0544	0.0013	0.94
08190411f	euhedral/uniform	core	94	606	1644	0.37	0.426	0.012	0.0548	0.0013	0.80
09190411f	euhedral/uniform	core	97	713	1707	0.42	0.426	0.011	0.0548	0.0013	0.93
10190411f	euhedral/uniform	rim	61	462	1055	0.44	0.425	0.011	0.0553	0.0013	0.91
11190411f	euhedral/uniform	core	63	340	1161	0.29	0.412	0.010	0.0546	0.0013	0.92
12190411f	euhedral/uniform	rim	64	347	1162	0.30	0.409	0.010	0.0548	0.0013	0.90
15190411f	euhedral/uniform	rim	74	546	1291	0.42	0.403	0.010	0.0550	0.0013	0.91

16190411f	euhedral/uniform	core	69	504	1201	0.42	0.409	0.010	0.0548	0.0013	0.92
17190411f	euhedral/uniform	core	43	342	746	0.46	0.409	0.012	0.0550	0.0013	0.79
18190411f	euhedral/uniform	rim	81	616	1414	0.44	0.409	0.010	0.0547	0.0012	0.90
19190411f	euhedral/uniform	core	71	539	1226	0.44	0.441	0.016	0.0547	0.0013	0.65
20190411f	euhedral/uniform	core	111	932	1853	0.50	0.422	0.011	0.0551	0.0013	0.89
22190411f	euhedral/uniform	core	88	684	1523	0.45	0.418	0.011	0.0546	0.0012	0.89
28190411f	euhedral/uniform	rim	48	332	827	0.40	0.436	0.012	0.0548	0.0012	0.85
31190411f	euhedral/uniform	rim	60	433	1065	0.41	0.404	0.011	0.0545	0.0012	0.83
32190411f	euhedral/uniform	rim	84	601	1479	0.41	0.411	0.011	0.0547	0.0012	0.85
05200411c	euhedral/zoned	core	84	617	1434	0.43	0.426	0.014	0.0555	0.0018	0.97
07200411c	euhedral/uniform	core	59	464	991	0.47	0.421	0.014	0.0557	0.0018	0.97
08200411c	euhedral/uniform	rim	71	534	1201	0.45	0.413	0.014	0.0559	0.0018	0.97
10200411c	euhedral/uniform	rim	74	577	1261	0.46	0.422	0.015	0.0558	0.0018	0.93
11200411c	euhedral/uniform	core	76	617	1306	0.47	0.408	0.015	0.0557	0.0018	0.89
12200411c	euhedral/uniform	core	91	693	1565	0.44	0.409	0.014	0.0554	0.0018	0.97
16200411c	euhedral/zoned	rim	49	328	837	0.39	0.425	0.015	0.0559	0.0018	0.94
17200411c	euhedral/uniform	rim	41	309	699	0.44	0.421	0.015	0.0552	0.0018	0.92
18200411c	euhedral/zoned	core	74	576	1226	0.47	0.423	0.014	0.0564	0.0018	0.95
19200411c	euhedral/zoned	core	64	472	1086	0.43	0.431	0.014	0.0559	0.0018	0.95
20200411c	euhedral/uniform	core	62	524	1041	0.50	0.409	0.014	0.0553	0.0018	0.94
21200411c	euhedral/zoned	core	67	479	1111	0.43	0.439	0.015	0.0565	0.0018	0.94
22200411c	euhedral/uniform	core	124	849	2163	0.39	0.412	0.014	0.0556	0.0018	0.93
26200411c	euhedral/uniform	core	71	513	1192	0.43	0.428	0.015	0.0555	0.0018	0.93
27200411c	euhedral/uniform	core	61	449	1038	0.43	0.431	0.015	0.0555	0.0018	0.93
28200411c	euhedral/zoned	core	88	646	1480	0.44	0.431	0.015	0.0559	0.0018	0.94
29200411c	euhedral/uniform	rim	66	502	1143	0.44	0.409	0.014	0.0554	0.0018	0.93
30200411c	euhedral/uniform	core	80	587	1398	0.42	0.411	0.014	0.0556	0.0018	0.92
31200411c	euhedral/uniform	core	82	620	1409	0.44	0.421	0.015	0.0551	0.0018	0.92
GG4											
06200411a	round/uniform	rim	64	274	1107	0.25	0.571	0.019	0.0537	0.0017	0.98
07190411g		core	91	138	1453	0.10	0.911	0.022	0.0549	0.0012	0.91
10200411a	prism/uniform	core	93	360	1775	0.20	0.519	0.017	0.0530	0.0017	0.96
11200411a	prism/uniform	core	88	686	1244	0.55	0.537	0.019	0.0519	0.0017	0.93
19200411b	prism/uniform	core	107	85	2297	0.04	0.377	0.013	0.0505	0.0016	0.96
25200411b	prism/uniform	core	45	254	788	0.32	0.416	0.015	0.0524	0.0017	0.89
28200411b	prism/uniform	rim	74	98	1535	0.06	0.393	0.014	0.0514	0.0017	0.91
36200411b		core	106	155	2207	0.07	0.379	0.013	0.0512	0.0016	0.93
38200411b	prism/uniform	core	78	161	1556	0.10	0.419	0.014	0.0520	0.0017	0.95
41200411b	prism/uniform	core	41	37	883	0.04	0.379	0.015	0.0509	0.0017	0.84
10190411g	prism/uniform	core	93	360	1775	0.20	0.467	0.012	0.0514	0.0012	0.87
12190411g	prism/zoned	rim	11	15	54	0.27	5.489	0.158	0.0907	0.0022	0.84
05200411a	round/uniform	rim	155	343	2083	0.16	0.508	0.016	0.0570	0.0018	0.99
09200411a	round/uniform	core	71	183	1042	0.17	0.485	0.017	0.0567	0.0018	0.93
07200411b	round/uniform	rim	88	89	1673	0.05	0.446	0.015	0.0559	0.0018	0.98
10200411b	round/uniform	core	74	117	1333	0.09	0.499	0.017	0.0575	0.0018	0.95
31200411b	round/uniform	core	55	55	1084	0.05	0.412	0.014	0.0549	0.0018	0.92
32200411b	round/uniform	core	218	399	4185	0.09	0.406	0.013	0.0551	0.0018	0.96
42200411b	round/uniform	core	63	70	1136	0.06	0.495	0.017	0.0583	0.0019	0.92
08190411g	round/uniform	rim	60	92	1112	0.08	0.498	0.013	0.0567	0.0013	0.88
07200411a	prism/zoned	core	91	138	1453	0.09	0.526	0.017	0.0665	0.0021	0.97
08200411a	prism/zoned	core	60	92	1112	0.08	0.547	0.019	0.0669	0.0021	0.92
12200411a	prism/zoned	core	11	15	54	0.27	0.494	0.017	0.0631	0.0020	0.94
05200411b	prism/zoned	core	31	45	449	0.10	0.570	0.019	0.0726	0.0023	0.95
06200411b	prism/zoned	core	31	88	461	0.19	0.559	0.020	0.0682	0.0022	0.92
08200411b	prism/zoned	core	18	61	262	0.23	0.565	0.023	0.0679	0.0022	0.79
09200411b	prism/zoned	core	24	57	356	0.16	0.528	0.019	0.0688	0.0022	0.89
12200411b	round/uniform	rim	105	88	1597	0.06	0.550	0.018	0.0700	0.0022	0.97
15200411b	prism/zoned	core	25	73	348	0.21	0.574	0.020	0.0738	0.0024	0.93
26200411b	prism/zoned	core	27	36	380	0.10	0.581	0.020	0.0750	0.0024	0.92
27200411b	round/uniform	core	35	47	512	0.09	0.581	0.020	0.0725	0.0023	0.93
30200411b	prism/zoned	core	16	33	229	0.15	0.582	0.022	0.0736	0.0024	0.87
40200411b	prism/zoned	core	37	35	552	0.06	0.564	0.020	0.0716	0.0023	0.91
35200411b	prism/zoned	core	16	47	262	0.18	0.494	0.018	0.0635	0.0021	0.87
39200411b	prism/zoned	core	23	62	372	0.17	0.495	0.019	0.0636	0.0021	0.84
18200411b	prism/zoned	core	159	392	2610	0.15	0.575	0.019	0.0605	0.0019	0.96
06190411g	round/uniform	rim	64	274	1107	0.25	0.570	0.014	0.0559	0.0012	0.91

09190411g	round/uniform	core	71	183	1042	0.18	0.631	0.016	0.0653	0.0015	0.87

In italic, analysis of inherited zircons.

Age (Ma)		Isotopic ratios							
$^{206}Pb/^{238}U$	2 σ	$^{207}Pb/^{206}Pb$	1 σ	$^{206}Pb/^{238}U$	1 σ	$^{207}Pb/^{235}U$	1 σ	$^{208}Pb/^{232}Th$	1 σ
336.9	6.3	0.05504	0.00064	0.05365	0.00051	0.40727	0.00452	0.01594	0.00020
337.4	6.3	0.05646	0.00063	0.05374	0.00051	0.41839	0.00443	0.01703	0.00021
339.7	6.3	0.05372	0.00060	0.05411	0.00052	0.40092	0.00426	0.01687	0.00021
338.3	6.2	0.05397	0.00061	0.05387	0.00051	0.40097	0.00430	0.01648	0.00022
338.9	6.3	0.05489	0.00063	0.05397	0.00051	0.40851	0.00446	0.01663	0.00023
339.4	6.4	0.05734	0.00081	0.05406	0.00052	0.42743	0.00576	0.01860	0.00028
337.3	6.3	0.05907	0.00075	0.05371	0.00051	0.43757	0.00526	0.01937	0.00029
338.3	6.2	0.05378	0.00062	0.05388	0.00051	0.39962	0.00436	0.01586	0.00023
339.8	6.2	0.05360	0.00065	0.05412	0.00051	0.40003	0.00456	0.01698	0.00027
339.0	6.2	0.05315	0.00064	0.05400	0.00051	0.39578	0.00451	0.01699	0.00028
337.2	6.2	0.05370	0.00064	0.05371	0.00050	0.39771	0.00441	0.01706	0.00028
337.8	6.2	0.05347	0.00068	0.05380	0.00051	0.39668	0.00476	0.01703	0.00029
335.8	6.1	0.05419	0.00065	0.05348	0.00050	0.39960	0.00445	0.01722	0.00026
336.2	6.1	0.05912	0.00072	0.05353	0.00050	0.43646	0.00492	0.01778	0.00028
334.4	6.0	0.05390	0.00064	0.05325	0.00049	0.39579	0.00436	0.01683	0.00028
338.0	6.1	0.05682	0.00073	0.05384	0.00050	0.42187	0.00503	0.01904	0.00036
335.4	6.0	0.05542	0.00076	0.05340	0.00049	0.40813	0.00517	0.01325	0.00026
334.7	6.0	0.05445	0.00070	0.05330	0.00049	0.40020	0.00476	0.01719	0.00034
336.8	8.4	0.05475	0.00060	0.05364	0.00068	0.40501	0.00537	0.01725	0.00023
336.4	8.3	0.05330	0.00058	0.05357	0.00068	0.39376	0.00520	0.01575	0.00021
336.5	8.3	0.05587	0.00061	0.05358	0.00068	0.41291	0.00543	0.01766	0.00023
336.6	8.3	0.05569	0.00060	0.05361	0.00068	0.41178	0.00534	0.01774	0.00024
335.2	8.2	0.05373	0.00056	0.05338	0.00067	0.39561	0.00502	0.01583	0.00021
340.1	8.2	0.06204	0.00068	0.05417	0.00067	0.46353	0.00599	0.01618	0.00023
336.5	8.1	0.05579	0.00064	0.05358	0.00066	0.41226	0.00546	0.01697	0.00025
337.0	8.0	0.05945	0.00069	0.05367	0.00066	0.44007	0.00583	0.01899	0.00029
362.0	6.8	0.05601	0.00082	0.05777	0.00056	0.44614	0.00627	0.01841	0.00029
357.0	8.9	0.05370	0.00058	0.05694	0.00073	0.42172	0.00555	0.01765	0.00023
349.5	8.7	0.05628	0.00060	0.05572	0.00071	0.43249	0.00566	0.01839	0.00024
353.3	8.6	0.05357	0.00059	0.05633	0.00071	0.41619	0.00545	0.01585	0.00021
351.7	8.4	0.05493	0.00061	0.05608	0.00069	0.42484	0.00552	0.01801	0.00026
351.1	8.4	0.05457	0.00060	0.05597	0.00069	0.42129	0.00545	0.01710	0.00025
350.0	8.3	0.05379	0.00062	0.05579	0.00068	0.41390	0.00545	0.01731	0.00027
350.2	8.3	0.05548	0.00066	0.05583	0.00068	0.42717	0.00578	0.01830	0.00029
337.4	7.8	0.05375	0.00058	0.05373	0.00064	0.39830	0.00490	0.01697	0.00021
336.8	7.7	0.05294	0.00057	0.05363	0.00063	0.39160	0.00481	0.01663	0.00021
338.3	7.8	0.05294	0.00057	0.05388	0.00063	0.39332	0.00481	0.01648	0.00021
336.1	7.7	0.05334	0.00057	0.05351	0.00063	0.39366	0.00482	0.01642	0.00021
336.0	7.7	0.05540	0.00060	0.05350	0.00063	0.40875	0.00503	0.01806	0.00023
336.5	7.7	0.05826	0.00063	0.05358	0.00063	0.43051	0.00524	0.01845	0.00024
337.2	7.7	0.05658	0.00062	0.05370	0.00063	0.41902	0.00518	0.01800	0.00024
335.0	7.6	0.05440	0.00062	0.05334	0.00062	0.40022	0.00508	0.01648	0.00023
336.8	7.6	0.05330	0.00059	0.05363	0.00062	0.39422	0.00489	0.01708	0.00024
336.1	7.6	0.05317	0.0006	0.05352	0.00062	0.39249	0.00492	0.01633	0.00023
336.2	7.6	0.05419	0.00060	0.05354	0.00062	0.40012	0.00496	0.01594	0.00023
336.3	7.6	0.05435	0.00061	0.05356	0.00062	0.40147	0.00502	0.01813	0.00027
336.3	7.6	0.05493	0.00064	0.05356	0.00062	0.40568	0.00520	0.01830	0.00028
337.5	7.6	0.05449	0.00063	0.05374	0.00062	0.40386	0.00511	0.01702	0.00026
336.4	7.6	0.05537	0.00064	0.05357	0.00062	0.40905	0.00519	0.01831	0.00028
337.4	7.6	0.06037	0.00070	0.05374	0.00062	0.44739	0.00565	0.02022	0.00032
336.6	7.4	0.05432	0.00060	0.05360	0.00061	0.40147	0.00488	0.01660	0.00020
336.8	7.4	0.05348	0.00058	0.05364	0.00061	0.39560	0.00471	0.01594	0.00019
337.8	7.5	0.06580	0.00072	0.05379	0.00061	0.48813	0.00589	0.01850	0.00023
337.9	7.5	0.05529	0.00064	0.05381	0.00061	0.41023	0.00518	0.01648	0.00022
337.5	7.5	0.05902	0.00075	0.05375	0.00062	0.43744	0.00598	0.01429	0.00021
336.2	7.5	0.06028	0.00067	0.05354	0.00061	0.44507	0.00547	0.01795	0.00025
337.0	7.5	0.05614	0.00067	0.05366	0.00061	0.41545	0.00540	0.01699	0.00025
337.2	7.5	0.05999	0.00074	0.05370	0.00062	0.44424	0.00593	0.01838	0.00027
334.2	7.4	0.05502	0.00063	0.05321	0.00061	0.40372	0.00506	0.01406	0.00021
337.5	7.5	0.05808	0.00067	0.05375	0.00061	0.43050	0.00543	0.01904	0.00029
337.2	7.5	0.05528	0.00064	0.05371	0.00061	0.40940	0.00518	0.01715	0.00027

338.0	7.6	0.05420	0.00064	0.05384	0.00062	0.40240	0.00519	0.01650	0.00027
335.8	7.5	0.05441	0.00064	0.05347	0.00061	0.40120	0.00514	0.01621	0.00027
336.1	7.5	0.05652	0.00067	0.05352	0.00061	0.41714	0.00540	0.01717	0.00029
352.2	8.0	0.0530	0.00059	0.05616	0.00065	0.41047	0.00512	0.01677	0.00024
350.7	7.8	0.05573	0.00064	0.05590	0.00064	0.42965	0.00542	0.01938	0.00031
377.7	8.3	0.05685	0.00064	0.06035	0.00069	0.47313	0.00584	0.01773	0.00024
379.3	8.4	0.05729	0.00065	0.06060	0.00069	0.47880	0.00595	0.01907	0.00026
338.2	7.6	0.05346	0.00062	0.05386	0.00062	0.39702	0.00505	0.01661	0.00022
340.4	7.7	0.05621	0.00078	0.05423	0.00063	0.42036	0.00619	0.01768	0.00025
339.3	7.6	0.05869	0.00083	0.05404	0.00062	0.43745	0.00648	0.01850	0.00027
349.5	7.6	0.08412	0.00093	0.05572	0.00062	0.64652	0.00768	0.02925	0.00039
340.2	7.3	0.05938	0.00074	0.05419	0.00059	0.44390	0.00576	0.01994	0.00029
340.0	7.2	0.05360	0.00067	0.05415	0.00059	0.40044	0.00521	0.01703	0.00025
341.6	7.2	0.10526	0.00119	0.05442	0.00059	0.79020	0.00930	0.03948	0.00057
340.1	7.5	0.07592	0.00131	0.05417	0.00061	0.56735	0.00974	0.02119	0.00034
337.5	6.6	0.05848	0.00064	0.05375	0.00054	0.43348	0.00472	0.01869	0.00024
335.0	6.6	0.05302	0.00062	0.05335	0.00054	0.39005	0.00454	0.01590	0.00022
337.5	6.6	0.05529	0.00065	0.05375	0.00054	0.40984	0.00471	0.01559	0.00022
335.8	6.6	0.05515	0.00075	0.05346	0.00054	0.40661	0.00541	0.01642	0.00026
341.7	6.6	0.05773	0.00065	0.05444	0.00054	0.43338	0.00480	0.01853	0.00026
334.9	6.5	0.05440	0.00068	0.05333	0.00053	0.40003	0.00485	0.01728	0.00026
333.2	6.7	0.05531	0.00097	0.05305	0.00054	0.40457	0.00691	0.01715	0.00032
337.4	9.3	0.05432	0.00060	0.05373	0.00076	0.40247	0.00585	0.01609	0.00022
336.3	9.1	0.05472	0.00059	0.05355	0.00075	0.40413	0.00573	0.01640	0.00022
336.6	9.1	0.05883	0.00063	0.05359	0.00074	0.43492	0.00614	0.01740	0.00024
336.0	8.8	0.05320	0.00059	0.05351	0.00072	0.39270	0.00548	0.01601	0.00022
336.2	8.7	0.05370	0.00059	0.05354	0.00071	0.39673	0.00543	0.01638	0.00023
335.0	8.6	0.05550	0.00063	0.05335	0.00070	0.40855	0.00567	0.01613	0.00023
336.3	8.4	0.05367	0.00062	0.05355	0.00069	0.39660	0.00544	0.01594	0.00023
337.4	8.2	0.05569	0.00065	0.05373	0.00067	0.41280	0.00555	0.01746	0.00027
336.0	8.1	0.06474	0.00080	0.05351	0.00067	0.47788	0.00669	0.01994	0.00031
339.9	7.0	0.06119	0.00071	0.05414	0.00057	0.45703	0.00544	0.01981	0.00030
338.4	7.0	0.05733	0.00068	0.05390	0.00057	0.42621	0.00516	0.01713	0.00026
329.7	6.8	0.05816	0.00086	0.05247	0.00055	0.42085	0.00611	0.01793	0.00031
338.8	6.8	0.05650	0.00071	0.05397	0.00056	0.42046	0.00524	0.01814	0.00030
338.3	6.3	0.05317	0.00060	0.05388	0.00052	0.39511	0.00424	0.01529	0.00018
339.2	6.4	0.06215	0.00075	0.05403	0.00052	0.46313	0.00534	0.01851	0.00023
339.1	6.3	0.05775	0.00068	0.05402	0.00052	0.43017	0.00484	0.01631	0.00020
335.4	6.2	0.06129	0.00078	0.05340	0.00051	0.45139	0.00540	0.01975	0.00030
339.7	6.4	0.05607	0.00088	0.05411	0.00053	0.41835	0.00627	0.01742	0.00029
347.0	8.6	0.05312	0.00058	0.05530	0.00070	0.40513	0.00541	0.01504	0.00018
345.2	8.5	0.05348	0.00062	0.05501	0.00070	0.40569	0.00558	0.01485	0.00018
344.9	8.5	0.05396	0.00061	0.05496	0.00069	0.40891	0.00554	0.01617	0.00019
345.5	8.5	0.05460	0.00065	0.05506	00.0007	0.41462	0.00582	0.01586	0.00019
344.2	8.4	0.05517	0.00065	0.05485	0.00069	0.41731	0.00578	0.01626	0.00020
344.2	8.4	0.05375	0.00062	0.05485	0.00069	0.40657	0.00556	0.01554	0.00019
345.8	8.3	0.05347	0.00062	0.05511	0.00068	0.40638	0.00551	0.01597	0.00020
345.4	8.3	0.05916	0.00072	0.05504	0.00068	0.44903	0.00620	0.01667	0.00022
343.1	8.2	0.05344	0.00061	0.05466	0.00067	0.40287	0.00533	0.01558	0.00021
345.1	8.2	0.05372	0.00061	0.05500	0.00067	0.40747	0.00535	0.01611	0.00022
345.5	8.2	0.05389	0.00070	0.05507	0.00067	0.40920	0.00590	0.01631	0.00023
344.7	8.1	0.05354	0.00063	0.05492	0.00066	0.40553	0.00542	0.01560	0.00022
345.5	8.1	0.05494	0.00064	0.05506	0.00066	0.41709	0.00549	0.01596	0.00024
347.0	8.1	0.05344	0.00062	0.05530	0.00066	0.40752	0.00532	0.01674	0.00025
341.7	7.7	0.05331	0.0006	0.05444	0.00063	0.40019	0.00505	0.01705	0.00022
341.1	7.7	0.05355	0.00059	0.05435	0.00063	0.40134	0.00495	0.01721	0.00022
344.1	7.8	0.05634	0.00077	0.05482	0.00064	0.42593	0.00620	0.01892	0.00026
343.7	7.7	0.05644	0.00062	0.05476	0.00063	0.42620	0.00525	0.01780	0.00023
347.2	7.8	0.0557	0.00064	0.05533	0.00064	0.42495	0.00538	0.01792	0.00024
342.6	7.7	0.05476	0.00062	0.05458	0.00063	0.41216	0.00516	0.01817	0.00024
343.7	7.7	0.0542	0.00063	0.05476	0.00063	0.40927	0.00524	0.01801	0.00025
344.9	7.7	0.05316	0.00061	0.05497	0.00063	0.40297	0.00509	0.01692	0.00023

343.8	7.7	0.05411	0.00062	0.05477	0.00063	0.40869	0.00513	0.01755	0.00024
345.1	7.8	0.05395	0.00075	0.05500	0.00064	0.40915	0.00602	0.01746	0.00026
343.3	7.6	0.0542	0.00062	0.05469	0.00062	0.40878	0.00514	0.01649	0.00023
343.4	7.9	0.0585	0.00104	0.05472	0.00065	0.44142	0.00806	0.01753	0.00029
345.9	7.7	0.05546	0.00066	0.05513	0.00063	0.42158	0.00543	0.01851	0.00027
342.7	7.6	0.05556	0.00065	0.05460	0.00062	0.41829	0.00531	0.01698	0.00025
344.1	7.6	0.0576	0.00073	0.05484	0.00062	0.43559	0.00582	0.01791	0.00029
342.2	7.5	0.05379	0.00069	0.05451	0.00061	0.40440	0.00547	0.01728	0.00029
343.5	7.5	0.05449	0.00068	0.05473	0.00062	0.41128	0.00545	0.01732	0.00029
348.1	10.9	0.05565	0.00062	0.05549	0.00089	0.42584	0.00701	0.01730	0.00027
349.5	11.0	0.05482	0.00063	0.05571	0.00090	0.42117	0.00703	0.01663	0.00026
350.6	11.0	0.05358	0.00061	0.05589	0.00090	0.41297	0.00683	0.01675	0.00026
350.0	11.0	0.05486	0.00069	0.05580	0.00090	0.42218	0.00735	0.01603	0.00026
349.2	11.0	0.05315	0.00073	0.05566	0.00090	0.40802	0.00742	0.01555	0.00025
347.7	10.9	0.05355	0.00062	0.05541	0.00089	0.40920	0.00680	0.01581	0.00025
350.4	10.9	0.05515	0.00067	0.05586	0.00090	0.42484	0.00726	0.01742	0.00029
346.2	10.8	0.05536	0.0007	0.05517	0.00088	0.42119	0.00732	0.01691	0.00028
353.4	11.0	0.05443	0.00064	0.05635	0.00090	0.42299	0.00708	0.01703	0.00028
350.5	10.9	0.05595	0.00066	0.05588	0.00089	0.43122	0.00723	0.01722	0.00029
346.8	10.8	0.05368	0.00065	0.05527	0.00088	0.40917	0.00693	0.01627	0.00028
354.2	11.0	0.05635	0.00068	0.05649	0.00090	0.43897	0.00741	0.01734	0.00030
349.1	10.9	0.05368	0.00066	0.05564	0.00089	0.41195	0.00706	0.01543	0.00027
348.5	10.8	0.05585	0.00068	0.05554	0.00088	0.42784	0.00728	0.01774	0.00032
348.2	10.8	0.05625	0.0007	0.05550	0.00088	0.43053	0.00736	0.01707	0.00031
350.4	10.8	0.05595	0.00068	0.05586	0.00089	0.43103	0.00729	0.01721	0.00032
347.6	10.8	0.05359	0.00066	0.05539	0.00088	0.40939	0.00700	0.01631	0.00031
348.6	10.8	0.05361	0.00068	0.05557	0.00088	0.41079	0.00709	0.01573	0.00030
346.0	10.7	0.05538	0.00071	0.05513	0.00088	0.42108	0.00732	0.01733	0.00033
337.1	10.5	0.07714	0.00088	0.05368	0.00086	0.57105	0.00937	0.02900	0.00048
344.4	7.4	0.12043	0.00138	0.05487	0.00061	0.91128	0.01114	0.10056	0.00154
333.1	10.4	0.07096	0.00084	0.05303	0.00085	0.51894	0.00870	0.02489	0.00048
326.0	10.2	0.07507	0.00096	0.05187	0.00084	0.53703	0.00934	0.03809	0.00078
317.5	9.9	0.05415	0.00063	0.05049	0.00081	0.37700	0.00629	0.01674	0.00029
329.0	10.3	0.05759	0.00078	0.05236	0.00084	0.41578	0.00748	0.02422	0.00041
323.0	10.2	0.05548	0.00073	0.05139	0.00083	0.39312	0.00699	0.01792	0.00036
322.1	10.1	0.05368	0.00067	0.05124	0.00082	0.37926	0.00653	0.01537	0.00031
326.9	10.3	0.05845	0.00071	0.05202	0.00084	0.41930	0.00716	0.02102	0.00042
320.0	10.1	0.05399	0.00084	0.05089	0.00083	0.37885	0.00738	0.01656	0.00045
323.4	7.1	0.06588	0.0008	0.05144	0.00058	0.46734	0.00606	0.02061	0.00037
559.5	12.9	0.439	0.00614	0.09067	0.00109	5.48871	0.07892	0.30929	0.00626
357.6	11.1	0.06452	0.00071	0.05704	0.00091	0.50753	0.00822	0.02173	0.00035
355.7	11.1	0.06204	0.00078	0.05673	0.00091	0.48534	0.00834	0.01970	0.00038
350.4	10.9	0.05784	0.00064	0.05586	0.00089	0.44557	0.00728	0.02494	0.00038
360.5	11.2	0.06289	0.00075	0.05752	0.00092	0.49883	0.00839	0.02664	0.00042
344.4	10.8	0.05442	0.00068	0.05488	0.00088	0.41189	0.00715	0.01863	0.00037
345.9	10.8	0.05338	0.00061	0.05513	0.00088	0.40584	0.00674	0.01664	0.00030
365.5	11.4	0.06151	0.00078	0.05833	0.00094	0.49485	0.00865	0.03527	0.00075
355.3	7.7	0.06368	0.00075	0.05667	0.00063	0.49760	0.00629	0.02972	0.00049
414.9	12.8	0.0574	0.00065	0.06648	0.00106	0.52626	0.00864	0.02077	0.00036
417.5	13.0	0.05928	0.00076	0.06691	0.00107	0.54694	0.00952	0.02278	0.00042
394.7	12.3	0.0567	0.00071	0.06314	0.00102	0.49370	0.00849	0.02159	0.00046
451.9	14.0	0.05695	0.00069	0.07262	0.00117	0.57036	0.00971	0.02341	0.00037
425.4	13.2	0.05942	0.00076	0.06822	0.00110	0.55896	0.00978	0.02306	0.00036
423.5	13.4	0.06029	0.00104	0.06790	0.00111	0.56459	0.01173	0.02379	0.00042
428.8	13.4	0.05565	0.00077	0.06877	0.00111	0.52780	0.00961	0.01888	0.00032
436.1	13.5	0.05695	0.00064	0.07000	0.00112	0.54972	0.00904	0.02121	0.00034
459.0	14.2	0.05638	0.0007	0.07380	0.00119	0.57375	0.00991	0.01992	0.00032
466.1	14.5	0.05623	0.00072	0.07498	0.00121	0.58133	0.01017	0.02060	0.00039
451.1	14.0	0.05815	0.00072	0.07249	0.00117	0.58132	0.01004	0.02406	0.00044
457.6	14.3	0.05741	0.00082	0.07357	0.00119	0.58249	0.01079	0.02117	0.00042
445.8	13.9	0.05715	0.00074	0.07160	0.00115	0.56431	0.00994	0.02209	0.00048
396.9	12.5	0.05636	0.00081	0.06350	0.00103	0.49352	0.00920	0.02065	0.00042
397.7	12.5	0.05641	0.00086	0.06364	0.00103	0.49503	0.00952	0.01935	0.00042
378.5	11.8	0.06892	0.00081	0.06047	0.00097	0.57478	0.00964	0.02820	0.00045
350.5	7.5	0.0739	0.00085	0.05588	0.00062	0.56954	0.00698	0.02543	0.00037

407.6	8.9	0.07009	0.00084	0.06528	0.00073	0.63086	0.00811	0.03668	0.00062

Tab. 2: U–Th–Pb monazites analyses from sample G1-3 (W-CVG).

	Pb	Th	U							Age (Ma)	
Analysis_#	**(ppm)**	**(ppm)**	**(ppm)**	**Th/U**	**Pb^{208}/Th^{232}**	**2 σ**	**Pb^{206}/U^{238}**	**2 σ**	**Rho**	**Pb^{208}/Th^{232}**	**2 σ**
G1-3											
05200411d	641	39291	1383	28.4	0.0161	0.0005	0.0536	0.0020	0.5	322.9	9.8
07200411d	596	36715	1003	36.6	0.0165	0.0005	0.0570	0.0022	0.5	330.3	10.1
08200411d	639	40289	1169	34.5	0.0161	0.0005	0.0555	0.0021	0.5	322.1	9.9
09200411d	1234	71665	3502	20.5	0.0162	0.0005	0.0543	0.0021	0.5	325.1	10.0
10200411d	1201	55089	8253	6.7	0.0161	0.0005	0.0555	0.0021	0.5	322.3	10.0
11200411d	1299	70036	6000	11.7	0.0161	0.0005	0.0520	0.0020	0.5	323.5	10.0
12200411d	1522	81380	7137	11.4	0.0161	0.0005	0.0540	0.0021	0.5	323.4	10.1

Tab. 3: Representative whole-rock major-element analyses from CVMg–K, SVMg–K and CVG samples (wt. %).

	EV 381N	**EV 382O**	**EV 382N**	**EV 382M**	**EV 381M**	**EV 380M**
Groups	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Type	Basic rocks	Basic rocks	Basic rocks	Basic rocks	Basic rocks	Basic rocks
SiO_2	47.45	48.08	48.81	48.84	49.4	61.48
TiO_2	1.39	1.46	1.45	1.52	1.38	0.89
Al_2O_3	14.42	13.9	13.25	13.64	15.45	15.63
FeOt	8	7.95	7.95	8.07	6.99	4.74
MnO	0.14	0.13	0.14	0.13	0.11	0.06
MgO	8.59	9.16	9.84	9.27	7.47	3.59
CaO	6.33	6.38	5.44	5.46	5.42	2.1
Na_2O	1.72	1.54	1.67	1.62	1.97	2.85
K_2O	5.01	6.39	6.19	6.5	6.65	4.73
P_2O_5	1.46	1.53	1.5	1.5	1.26	0.59
LOI	3.9	1.8	2.1	1.7	2.3	2.3
Total	98.41	98.32	98.34	98.25	98.4	98.96
K_2O/Na_2O	2.91	4.15	3.71	4.01	3.38	1.66
A/CNK	0.73	0.66	0.69	0.69	0.76	1.15
mg	65.69	67.24	68.8	67.18	65.57	57.44

LOI: lost of Ignition; A/CNK=$Al_2O_3/(CaO+Na_2O+K_2O)$; mg=Mg/(Mg+Fe)*100 (molar percent)

	CN1	**CN5**	**CN7**	**BR 14**	**CS-36A**	**CS-3B**
Groups	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Type	Dark facies	Dark facies	Dark facies	Light facies	Light facies	Light facies
SiO_2	63.29	63.36	64.85	61.41	61.9	64.4
TiO_2	0.77	0.75	0.73	0.94	0.7	0.79
Al_2O_3	13.31	13.54	13.74	13.83	12.9	13.43
FeOt	3.91	3.82	3.4	4.44	3.81	4.09
MnO	0.06	0.07	0.06	0.08	0.07	0.07
MgO	4.23	4.56	3.82	4.46	4.82	4.66
CaO	2.64	2.21	1.29	2.99	2.45	2.75
Na_2O	2.37	2.21	2.19	2.54	1.34	2.22
K_2O	6.14	6.49	6.11	5.95	6.62	6.46
P_2O_5	0.53	0.59	0.54	0.77	0.49	0.53
LOI	1.9	1.6	2.4	1.6	3.51	0.9
Total	99.15	99.2	99.13	99.01	98.61	100.3
K_2O/Na_2O	2.59	2.94	2.79	2.34	4.94	2.91
A/CNK	0.87	0.92	1.09	0.86	0.93	0.86
mg	65.83	68.06	66.69	64.19	69.26	67.01

	CS-20A	**ME5**	**CS-19B**	**BR 15**	**ME1**	**CN3**
Groups	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Type	Light facies	Light facies	Light facies	Light facies	Light facies	Light facies
SiO_2	65.8	65.85	66.2	66.62	66.93	67.3
TiO_2	0.66	0.66	0.67	0.52	0.63	0.7
Al_2O_3	12.88	14.06	13.55	14.76	14.08	13.11
FeOt	3.55	3.18	3.11	2.54	2.84	3.82
MnO	0.06	0.05	0.06	0.05	0.05	0.04
MgO	4.18	2.84	4.17	2.16	2.73	2.9
CaO	2.34	1.44	1.01	1.17	1.26	0.78
Na_2O	2.29	2.79	2.08	3.47	2.61	2.21
K_2O	6.24	5.76	6.45	5.68	6.43	6.41
P_2O_5	0.49	0.54	0.41	0.37	0.48	0.53
LOI	1.17	2.2	2.02	2.1	1.3	1.5
Total	99.66	99.37	99.73	99.44	99.34	99.3
K_2O/Na_2O	2.72	2.06	3.1	1.64	2.46	2.9
A/CNK	0.87	1.05	1.11	1.06	1.04	1.09

mg	67.7	61.45	70.51	60.28	63.12	57.48

	GO2	**GO3**	**BAB4**	**BAI1**	**BAB3**	**BAB5**
Groups	CVMg_K	CVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Type	Light facies	Light facies	Basic rocks	Basic rocks	Basic rocks	Basic rocks
SiO_2	68.64	68.81	48.93	54.44	56.27	63.09
TiO_2	0.43	0.46	0.68	0.83	0.95	0.54
Al_2O_3	15.1	15.04	16.76	17.42	18.13	14.77
FeOt	2.3	2.26	7.23	6.05	6.35	4.38
MnO	0.05	0.04	0.16	0.13	0.1	0.1
MgO	1.68	1.45	7.44	3.39	2.78	2.85
CaO	1.22	1.18	10.07	5.42	2.52	3.11
Na_2O	2.93	2.83	2.58	3.54	4.23	3.04
K_2O	5.76	6.03	1.54	4.31	4.17	5.11
P_2O_5	0.38	0.27	0.13	0.43	0.39	0.33
LOI	1	1.1	3.3	2.9	2.9	1.9
Total	99.49	99.47	98.82	98.86	98.79	99.22
K_2O/Na_2O	1.97	2.13	0.6	1.22	0.99	1.68
A/CNK	1.14	1.13	0.69	0.86	1.13	0.91
mg	56.52	53.37	64.7	49.98	43.82	53.69

	VOS5	**VOS8**	**VOS3**	**BA5**	**BA13**	**BA14**
Groups	SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Type	Volcanic rocks	Volcanic rocks	Volcanic rocks	Porphy. granite	Porphy. granite	Porphy. granite
SiO_2	65.12	65.12	67.89	63.95	63.97	64.74
TiO_2	0.41	0.43	0.37	0.5	0.4	0.47
Al_2O_3	17.28	15.75	15.66	15.28	13.38	15.13
FeOt	3.03	3.46	2.66	3.78	2.72	3.56
MnO	0.08	0.07	0.05	0.07	0.07	0.05
MgO	0.64	1.87	0.48	2.74	1.91	2.16
CaO	0.35	1.61	0.33	1.71	4.39	1.59
Na_2O	4.62	3.2	4.26	3.42	2.29	2.95
K_2O	6.2	5.47	6.27	4.73	5.19	5.89
P_2O_5	0.13	0.24	0.1	0.33	0.26	0.31
LOI	1.4	2.1	1.4	2.7	4.9	2.3
Total	99.26	99.32	99.47	99.21	99.48	99.15
K_2O/Na_2O	1.34	1.71	1.47	1.38	2.27	2
A/CNK	1.16	1.12	1.09	1.1	0.77	1.07
mg	27.34	49.04	24.31	56.38	55.61	51.94

	BA17	**BA6**	**BA15**	**BA9**	**BA12**	**BA16**
Groups	SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Type	Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite
SiO_2	65.75	65.88	67.39	67.46	68.15	68.76
TiO_2	0.48	0.4	0.4	0.43	0.4	0.43
Al_2O_3	14.34	14.2	14.23	14.81	14.89	13.45
FeOt	3.38	2.95	2.8	3.26	3.1	3.02
MnO	0.08	0.05	0.06	0.06	0.05	0.07
MgO	2.6	1.86	1.81	2.12	1.7	2
CaO	2.81	2.57	1.79	0.64	0.8	2.58
Na_2O	3.06	2.73	3.02	3.32	2.98	3.08
K_2O	5.24	5.34	5.32	5.16	5.43	4.84
P_2O_5	0.3	0.26	0.25	0.28	0.25	0.25
LOI	1.3	3.2	2.4	1.9	1.7	1
Total	99.34	99.44	99.47	99.44	99.45	99.48
K_2O/Na_2O	1.71	1.96	1.76	1.55	1.82	1.57
A/CNK	0.91	0.95	1.02	1.21	1.22	0.9
mg	57.8	52.91	53.55	53.71	49.47	54.11

	TF5	**OR 8**	**TF4**	**BR 1**	**PA2**	**LV8**
Groups	E_CVG	E_CVG	E_CVG	E_CVG	E_CVG	E_CVG
Type	granite	granite	granite	granite	granite	granite
SiO_2	66.5	66.69	67.83	68.05	68.83	68.85
TiO_2	0.5	0.51	0.53	0.44	0.39	0.42
Al_2O_3	16.8	16.46	16.06	15.99	15.62	15.97
FeOt	2.31	2.5	2.3	2.09	2.13	1.83
MnO	0.03	0.04	0.04	0.04	0.04	0.03
MgO	1.18	1.4	1.14	1.34	1.06	0.92
CaO	1.37	1.42	1.49	0.82	1.5	1
Na_2O	3.64	3.67	3.54	3.68	3.45	3.48
K_2O	6	5.48	5.21	5.54	5.23	5.37
P_2O_5	0.2	0.23	0.23	0.24	0.18	0.19
LOI	1	1.1	1.1	1.3	1.1	1.5
Total	99.53	99.5	99.47	99.53	99.53	99.56
K_2O/Na_2O	1.65	1.49	1.47	1.51	1.52	1.54
A/CNK	1.12	1.13	1.13	1.18	1.11	1.2
mg	47.63	49.94	46.87	53.36	46.98	47.31

	BR 8	**OR 6**	**WI 10**	**TF10**	**LV2**	**PA3**
Groups	E_CVG	E_CVG	E_CVG	E_CVG	E_CVG	E_CVG
Type	granite	granite	granite	granite	granite	granite
SiO_2	69.2	69.25	69.39	69.45	69.49	69.62
TiO_2	0.36	0.38	0.28	0.39	0.36	0.33
Al_2O_3	15.97	15.7	16.18	15.95	15.51	15.36
FeOt	2.08	1.91	1.61	1.84	1.87	1.88
MnO	0.04	0.03	0.03	0.03	0.04	0.02
MgO	1.4	1.07	0.66	0.89	0.77	0.92
CaO	0.97	0.97	1.18	0.67	0.76	0.41
Na_2O	3.72	3.09	4.16	4.03	4.14	3.24
K_2O	4.42	5.79	5.02	5.09	4.77	5.91
P_2O_5	0.18	0.17	0.16	0.17	0.17	0.23
LOI	1.3	1.2	1	1.1	1.8	1.7
Total	99.64	99.56	99.67	99.61	99.68	99.62
K_2O/Na_2O	1.19	1.87	1.21	1.26	1.15	1.82
A/CNK	1.26	1.2	1.12	1.19	1.16	1.23
mg	54.56	50	42.21	46.24	42.31	46.58

	LV10	**BR 5**	**GG10A**	**GG10C**	**OR 4**	**HO 2**
Groups	E_CVG	E_CVG	W_CVG	W_CVG	W_CVG	W_CVG
Type	granite	granite	granite	granite	granite	granite
SiO_2	70.37	70.48	59.58	61.13	63.22	64.41
TiO_2	0.36	0.35	0.75	0.47	0.63	0.64
Al_2O_3	15.45	15.4	13.19	18.07	15.83	15.63
FeOt	1.8	1.75	4.29	2.2	3.57	2.88
MnO	0.04	0.03	0.07	0.02	0.06	0.05
MgO	0.88	0.93	5.5	1.82	3.19	2.33
CaO	1.22	0.66	3.27	1.19	1.37	1.3
Na_2O	3.66	3.69	1.81	3.11	2.56	2.91
K_2O	5.14	4.89	7.69	9.01	6.84	6.96
P_2O_5	0.17	0.15	1.24	0.78	0.79	0.47
LOI	0.6	1.3	1.6	1.5	1.2	1.8
Total	99.69	99.63	98.99	99.3	99.26	99.38
K_2O/Na_2O	1.4	1.33	4.25	2.9	2.67	2.39
A/CNK	1.12	1.23	0.76	1.06	1.12	1.06
mg	46.57	48.71	69.55	59.54	61.42	59.06

	GG6	**PA1**	**FU 4**	**FU 6**	**LV5**	**G1 5**
Groups	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
Type	granite	granite	granite	granite	granite	granite
SiO_2	68.27	68.45	68.69	69.14	69.16	69.43
TiO_2	0.5	0.47	0.44	0.42	0.37	0.39
Al_2O_3	15.42	14.56	16.19	16.25	15.58	15.61
FeOt	1.95	2.6	1.94	1.61	2.02	1.75
MnO	0.03	0.03	0.03	0.02	0.04	0.03
MgO	1.31	1.4	1	0.73	1.04	1.01
CaO	0.81	0.58	0.98	1.01	0.81	0.58
Na_2O	3.19	2.48	3.62	3.63	3.45	3.36
K_2O	6.52	6.51	5.2	5.21	5.48	6.2
P_2O_5	0.35	0.32	0.21	0.22	0.2	0.29
LOI	1.2	2.1	1.3	1.4	1.5	1
Total	99.55	99.5	99.6	99.64	99.65	99.65
K_2O/Na_2O	2.04	2.62	1.44	1.44	1.59	1.85
A/CNK	1.12	1.2	1.21	1.21	1.19	1.17
mg	54.46	48.97	47.84	44.69	47.8	50.77

	PA5	**HO 4**	**HO 3**	**RE 2**	**BR 11**	**RE 5**
Groups	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
Type	granite	granite	granite	granite	granite	granite
SiO_2	70.07	70.22	70.23	70.56	70.58	70.84
TiO_2	0.43	0.29	0.17	0.23	0.31	0.32
Al_2O_3	14.54	15.91	15.97	15.52	15.83	15.12
FeOt	2.63	1.53	1.3	1.26	1.5	1.41
MnO	0.04	0.02	0.04	0.02	0.03	0.01
MgO	0.8	0.55	0.33	0.51	0.66	0.25
CaO	0.98	0.8	0.48	0.9	0.76	0.29
Na_2O	2.83	3.97	3.69	3.9	3.94	3.1
K_2O	5.68	5.27	5.78	4.9	5.04	6.39
P_2O_5	0.2	0.15	0.21	0.19	0.19	0.18
LOI	1.4	1	1.6	1.8	0.9	1.8
Total	99.6	99.71	99.8	99.79	99.74	99.71
K_2O/Na_2O	2.01	1.33	1.57	1.26	1.28	2.06
A/CNK	1.16	1.16	1.21	1.16	1.19	1.21
mg	35.18	39.06	31.22	41.92	43.91	23.98

	GG2	**RE 11**	**L3**	**RE 4**	**GG4**	**GG5**
Groups	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
Type	granite	granite	granite	granite	granite	granite
SiO_2	71.67	71.69	72.36	72.39	72.47	72.52
TiO_2	0.25	0.22	0.17	0.22	0.25	0.14
Al_2O_3	15.34	15.74	14.45	15.14	14.41	15.33
FeOt	1.21	1.27	1.82	1.22	1.73	1
MnO	0.02	0.02	0.04	0.02	0.02	0.02
MgO	0.52	0.42	0.37	0.48	0.54	0.32
CaO	0.54	0.48	0.48	0.51	0.65	0.4
Na_2O	3.4	3.67	2.93	3.7	3.34	3.49
K_2O	5.6	4.98	5.87	4.94	5.11	5.18
P_2O_5	0.23	0.17	0.15	0.16	0.19	0.17
LOI	1	1.1	1.1	1	1	1.2
Total	99.78	99.76	99.74	99.78	99.71	99.77
K_2O/Na_2O	1.65	1.36	2	1.34	1.53	1.48
A/CNK	1.21	1.28	1.2	1.22	1.18	1.27
mg	43.46	37.11	26.63	41.15	35.78	36.35

EV 380N	**CN2**	**CN8**	**CN6**	**CS-12A**
CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Basic rocks	Dark facies	Dark facies	Dark facies	Dark facies
63.19	58.29	60.99	62.24	62.9
0.81	0.96	0.78	0.81	0.76
15.07	13.51	13.28	13.37	13.49
4.27	5.15	3.79	4.27	3.74
0.05	0.09	0.08	0.07	0.06
3.07	6.13	3.8	4.88	4.31
1.55	3.33	3.18	2.47	2.32
2.74	2.14	2.01	2.19	2.07
5.47	6.58	6.72	6.63	6.34
0.53	0.89	0.58	0.67	0.48
2.3	1.9	4	1.5	2.12
99.05	98.97	99.21	99.1	98.59
2	3.07	3.34	3.03	3.06
1.14	0.81	0.81	0.88	0.93
56.2	67.98	64.13	67.05	67.27

CS-10B	**CS-16A**	**CS-45A**	**BR 13**	**CS-21A**
CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Light facies	Light facies	Light facies	Light facies	Light facies
64.7	65.2	65.2	65.4	65.6
0.68	0.7	0.72	0.7	0.76
13.33	13.27	13.56	14.57	13.2
3.52	3.57	3.8	3.39	3.87
0.06	0.06	0.07	0.05	0.07
4.01	4.36	4.29	2.55	4.63
2.6	2.03	2.58	0.89	2.69
2.37	2.54	2.18	1.95	2.12
6.18	5.87	6.43	7.74	6.1
0.52	0.49	0.55	0.5	0.65
0.71	1.84	0.9	1.5	0.89
98.68	99.93	100.28	99.24	100.58
2.61	2.31	2.95	3.97	2.88
0.87	0.93	0.89	1.1	0.88
67.04	68.54	66.84	57.26	68.07

ME3	**CN11**	**GO4**	**CN10**	**GO1**
CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Light facies	Light facies	Light facies	Light facies	Light facies
67.37	67.44	67.81	67.84	68.22
0.59	0.65	0.57	0.63	0.58
13.94	13.7	14	14.12	14.4
2.93	3.13	2.83	2.49	2.82
0.06	0.05	0.05	0.05	0.05
2.64	2.27	2.37	2.15	2.23
1.72	0.45	0.93	0.67	0.76
2.79	2.27	2.8	2.46	2.7
6.07	6.51	5.62	6.38	5.45
0.47	0.34	0.45	0.37	0.44
0.8	2.5	2	2.2	1.8
99.38	99.31	99.43	99.36	99.45
2.18	2.87	2.01	2.59	2.02
0.98	1.18	1.13	1.16	1.23

61.6	56.37	59.85	60.59	58.53

VOS4	**VOS6**	**VOS2**	**VOS7**	**VOS1**
SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Volcanic rocks	Volcanic rocks	Volcanic rocks	Volcanic rocks	Volcanic rocks
50.81	54.41	62.9	63.53	63.7
1.19	0.82	0.52	0.49	0.56
20.01	16.98	16.01	15.8	16.1
7.92	6.24	4.18	3.97	4.35
0.18	0.14	0.08	0.08	0.08
2.72	4.08	2.36	2.7	2.27
5.34	4.53	2.06	1.16	1.29
4.31	3.79	3.67	4.04	4.28
2.75	4.87	4.97	5.1	4.11
0.37	0.45	0.27	0.28	0.16
2.9	2.5	2.2	2.1	2.4
98.5	98.81	99.22	99.25	99.3
0.64	1.28	1.35	1.26	0.96
1.01	0.86	1.06	1.11	1.16
37.98	53.8	50.19	54.81	48.22

BA11	**BA7**	**BA2**	**BA1**	**BA8**
SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite
65.07	65.23	65.32	65.46	65.59
0.4	0.48	0.49	0.51	0.46
14	14.75	14.84	15.13	14.37
2.89	3.29	3.37	3.46	3.01
0.05	0.05	0.06	0.07	0.05
2.23	2.51	2.1	1.45	2.22
2.97	2.69	1.55	1.41	2.68
3.06	2.91	2.98	2.66	3.14
4.89	5.47	5.6	6.29	4.84
0.26	0.3	0.31	0.33	0.3
3.6	1.6	2.7	2.5	2.7
99.42	99.28	99.32	99.27	99.36
1.6	1.88	1.88	2.36	1.54
0.89	0.95	1.08	1.1	0.94
57.92	57.6	52.59	42.79	56.84

BA10	**CO4**	**CO2A**	**CO1**	**CO3**
SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Porphy. granite	FG granite	FG granite	FG granite	FG granite
69.17	65.53	66.06	66.7	66.99
0.41	0.69	0.52	0.48	0.71
14.26	14.64	15.37	15.56	13.74
2.95	3.46	3.51	3.18	3.33
0.06	0.06	0.07	0.05	0.09
1.33	2.98	2.25	1.94	2.11
0.94	0.84	0.8	1.31	1
2.53	2.85	3.2	3.49	2.43
5.84	5.67	5.15	4.41	6.72
0.27	0.51	0.22	0.2	0.63
1.7	2.1	2.2	2.1	1.6
99.46	99.33	99.35	99.42	99.35
2.31	1.99	1.61	1.26	2.77
1.17	1.19	1.25	1.21	1.05
44.55	60.59	53.33	52.12	53.05

WI 4	**TF1**	**BR 12**	**TF9**	**HO 5**
E_CVG	E_CVG	E_CVG	E_CVG	E_CVG
granite	granite	granite	granite	granite
68.85	68.99	69.05	69.09	69.15
0.41	0.39	0.43	0.41	0.39
16.28	15.82	15.98	15.53	16.08
1.8	1.96	2.06	2.17	1.91
0.03	0.04	0.04	0.04	0.02
0.97	1.13	0.95	1.15	0.87
0.76	0.98	0.61	1.27	0.56
3.35	3.63	3.98	3.73	3.14
5.51	5.28	5.01	5.11	5.74
0.19	0.22	0.2	0.19	0.19
1.5	1.1	1.3	0.9	1.6
99.65	99.54	99.61	99.59	99.65
1.64	1.45	1.26	1.37	1.83
1.27	1.17	1.22	1.11	1.3
49	50.66	45.11	48.59	44.84

GG3	**BR 4**	**LV3**	**TF7**	**BR 10**
E_CVG	E_CVG	E_CVG	E_CVG	E_CVG
granite	granite	granite	granite	granite
69.64	69.9	70	70.25	70.26
0.31	0.39	0.37	0.37	0.27
15.57	15.6	15.69	15.2	15.72
1.38	1.87	1.68	1.83	1.51
0.03	0.03	0.04	0.04	0.04
0.88	0.98	0.85	1.09	0.73
0.74	1.15	0.98	1.07	1.1
3.28	3.8	3.79	3.9	4.09
6.71	4.86	4.99	4.95	4.82
0.22	0.19	0.18	0.17	0.17
0.9	0.9	1.1	0.8	1
99.66	99.67	99.67	99.67	99.71
2.05	1.28	1.32	1.27	1.18
1.11	1.15	1.17	1.11	1.13
53.26	48.28	47.38	51.54	46.26

WI 5	**HO 7**	**GG9**	**LV7**	**G1 3**
W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
granite	granite	granite	granite	granite
65.73	66.34	66.39	67.54	68.05
0.6	0.59	0.68	0.44	0.37
15.49	15.9	15.01	16.58	16.3
2.74	2.83	2.8	2.19	1.77
0.06	0.06	0.04	0.04	0.03
2.06	1.99	2.1	1.17	1.03
0.69	0.74	1.05	0.94	0.7
3.61	3.05	2.26	3.83	3.41
5.77	6.07	7.23	5.16	6.68
0.37	0.37	0.49	0.27	0.27
2.4	1.5	1.3	1.4	1
99.52	99.44	99.35	99.56	99.61
1.6	1.99	3.2	1.35	1.96
1.15	1.23	1.12	1.22	1.15
57.31	55.66	57.22	48.82	50.88

FU 1	**G1 2**	**PA4**	**G1 6**	**RE 12**
W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
granite	granite	granite	granite	granite
69.58	69.66	69.73	69.88	69.93
0.37	0.33	0.43	0.3	0.27
16.34	15.46	14.85	15.37	16.19
1.61	1.83	2.73	1.57	1.38
0.02	0.02	0.03	0.03	0.02
0.77	0.85	0.81	0.9	0.64
0.79	0.41	0.39	0.48	0.49
3.61	3.11	2.98	3.03	3.82
5.01	6.37	5.34	6.61	5.53
0.18	0.26	0.19	0.26	0.2
1.4	1.3	2.1	1.2	1.3
99.68	99.6	99.58	99.63	99.77
1.39	2.05	1.79	2.18	1.45
1.28	1.21	1.3	1.18	1.23
46.01	45.34	34.62	50.61	45.32

GG8	**G1 7**	**RE 6**	**RE 9**	**RE 7**
W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
granite	granite	granite	granite	granite
70.87	71.25	71.39	71.39	71.52
0.15	0.32	0.18	0.22	0.22
16.2	14.83	15.34	15.71	15.68
1.05	1.59	1.17	1.36	1.12
0.02	0.03	0.02	0.02	0.02
0.35	0.78	0.39	0.49	0.41
0.85	0.52	0.31	0.56	0.32
3.87	3.09	2.89	3.8	3.14
5.52	6.12	6.41	4.96	5.52
0.19	0.24	0.16	0.17	0.16
0.7	0.9	1.5	1.1	1.7
99.77	99.67	99.76	99.78	99.81
1.43	1.98	2.22	1.31	1.76
1.17	1.17	1.25	1.24	1.34
37.21	46.61	37.28	39.13	39.58

WI 1	**RE 8**	**L6**	**GG1**	**L4**
W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
granite	granite	granite	granite	granite
72.62	72.83	73.13	73.35	73.58
0.27	0.17	0.15	0.11	0.15
14.39	15.02	14.11	14.65	14.26
1.37	1.17	1.5	0.74	1.21
0.01	0.02	0.02	0.02	0.02
0.47	0.4	0.39	0.27	0.28
0.28	0.55	0.17	0.63	0.39
3.44	3.62	3.03	3.35	3.18
5.33	4.91	5.55	5.47	5.08
0.18	0.19	0.1	0.18	0.31
1.4	0.9	1.6	1.2	1.4
99.76	99.78	99.75	99.97	99.86
1.55	1.36	1.83	1.63	1.6
1.21	1.22	1.25	1.16	1.25
37.99	37.87	31.63	39.48	29.28

Tab. 4: Representative whole-rock trace-element analyses from CVMg–K, SVMg–K and CVG samples (ppm).

	EV 381N	**EV 382O**	**EV 382N**	**EV 382M**	**EV 381M**	**EV 380M**
Groups	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Type	Basic rocks	Basic rocks	Basic rocks	Basic rocks	Basic rocks	Basic rocks
Rb	196.1	299.9	294.5	279.1	330.1	137.3
Cs	3.9	11.6	9.4	9.4	10.6	4.3
Ba	2268	2878	2673	2897	3033	1676
Sr	529.5	529.9	488.2	524.8	764.6	418.7
Th	5.7	5.7	6.2	3.7	5.9	64.2
U	6.4	6.8	6.5	4.5	5.7	6
Zr	490.5	446.2	503.8	468.9	506.2	465.5
Hf	14.5	12.8	14.3	13.3	14.3	13.9
Nb	30.3	28.4	26.7	27.6	32	21.1
Ta	1.3	1.3	1	1.1	1.2	1
Ga	21	22.3	20	21.6	20.1	20.5
Sc	28	31	29	28	26	14
Cr	554.2	533.68	622.62	581.57	403.68	157.37
Ni	73.8	61.1	110.1	93.8	66.7	38.5
Co	30.8	31.6	34.1	33.5	28.2	14.6
V	156	176	169	171	153	79
Pb	2.8	6.3	71.8	8.5	4.8	5.6
Zn	74	80	88	87	75	63
Cu	5.6	27.6	37	38.2	28.7	27
Sn	1	1	1	NA	NA	1
W	0.9	0.6	NA	NA	NA	NA
Be	2	NA	2	NA	2	2
Bi	NA	NA	NA	NA	NA	NA
As	1.8	1.4	9.3	0.9	1.2	8.4
Mo	NA	0.1	0.6	0.2	NA	NA
Sb	NA	NA	NA	NA	NA	NA
Y	33.4	34.5	36.9	34.1	30.1	42.9
La	51.1	51.3	56.6	48	46.6	90
Ce	132	136.4	140.7	124.3	118.3	198.4
Pr	17.42	18.16	18.66	17.24	15.64	22.45
Nd	78.6	79.9	86.2	78.3	70.8	86.6
Sm	17.21	18.44	18.89	16.99	15.03	16.45
Eu	3.16	2.8	2.85	2.78	3.06	2.1
Gd	10.57	12.11	11.54	11.56	9.51	11.23
Tb	1.37	1.52	1.5	1.49	1.25	1.69
Dy	6.64	7.3	6.82	7.08	5.79	8.63
Ho	1.14	1.21	1.19	1.23	1.09	1.55
Er	3.08	3.16	3.18	3.3	2.71	3.85
Tm	0.42	0.44	0.44	0.45	0.4	0.49
Yb	2.41	2.66	2.71	2.57	2.35	2.67
Lu	0.35	0.38	0.39	0.38	0.34	0.39
ΣREE	325.47	335.78	351.67	315.67	292.87	446.5
La_N/Yb_N	14.3	13	14.08	12.59	13.37	22.73
Eu/Eu*	0.72	0.57	0.59	0.61	0.78	0.47
Rb/Sr	0.37	0.57	0.6	0.53	0.43	0.33
Rb/Ba	0.09	0.1	0.11	0.1	0.11	0.08

NA: not analyzed

	CN1	**CN5**	**CN7**	**BR 14**	**CS-36A**	**CS-3B**
Groups	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Type	Dark facies	Dark facies	Dark facies	Light facies	Light facies	Light facies
Rb	326.4	436	341.1	299.6	355	360
Cs	11.8	52.6	16.6	21.1	11	28
Ba	1306	1334	1805	1850	1142	1420
Sr	347.1	357.6	352.7	413	195	310

Th	63.7	54.8	46.3	47.8	39.39	44.13
U	20.2	15.4	12.8	13.8	15.99	19.43
Zr	358.8	368.8	332.4	351.3	274.2	358.8
Hf	10.8	10.8	9.6	10.3	8.04	10.26
Nb	26.5	24.1	21.9	22.6	23.61	24.3
Ta	2.9	1.8	1.9	1.7	2.25	2.3
Ga	20.2	20.3	19.7	18.4	NA	NA
Sc	13	13	11	14	NA	NA
Cr	239.47	266.84	253.15	191.58	300	280
Ni	45.5	53.8	53.6	33.8	75	95
Co	14.6	15.5	16.3	15.7	13.73	15.03
V	79	83	75	78	74	79
Pb	10.5	8.5	8.2	33	248	35.27
Zn	35	63	45	59	180	80
Cu	9.3	24.8	14.2	18.2	20	NA
Sn	21	20	16	6	NA	NA
W	4.1	5.4	8.6	1.2	8.4	4.9
Be	10	7	8	5	NA	NA
Bi	0.4	0.1	0.4	0.1	NA	NA
As	17.8	6.1	12.8	3.7	20.9	19
Mo	0.4	0.3	0.4	NA	0.6	NA
Sb	0.2	0.3	0.2	0.3	0.6	0.11
Y	26.1	25.4	22.1	26.1	25	24
La	67.9	50.9	47.2	31.8	40.81	47.19
Ce	155.7	122	112.3	88.4	94.99	104
Pr	17.11	13.88	12.55	12.34	12.68	13.71
Nd	70.4	57	52.6	61.1	52.74	56.48
Sm	13.21	11.62	10.17	13.86	11.22	11.98
Eu	1.83	1.67	1.8	2.15	1.53	1.95
Gd	7.58	7.08	6.34	9.08	6.7	7.1
Tb	0.97	0.91	0.83	1.16	0.8	0.9
Dy	4.79	4.54	3.88	5.77	4.47	4.64
Ho	0.82	0.78	0.68	0.96	0.74	0.82
Er	2.26	2.09	1.96	2.6	2.13	2.26
Tm	0.35	0.34	0.28	0.38	0.24	0.32
Yb	2.31	2.08	1.83	2.19	2.07	2.07
Lu	0.33	0.32	0.28	0.31	0.22	0.28
ΣREE	345.56	275.21	252.7	232.1	231.34	253.7
La_N/Yb_N	19.82	16.5	17.39	9.79	13.29	15.37
Eu/Eu*	0.56	0.56	0.69	0.59	0.54	0.65
Rb/Sr	0.94	1.22	0.97	0.73	1.82	1.16
Rb/Ba	0.25	0.33	0.19	0.16	0.31	0.25

	CS-20A	**ME5**	**CS-19B**	**BR 15**	**ME1**	**CN3**
Groups	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Type	Light facies	Light facies	Light facies	Light facies	Light facies	Light facies
Rb	384	323.8	401	314.6	359.8	367.8
Cs	33	26.9	24	23.6	28	86.1
Ba	1249	1323	1247	1026	1361	1084
Sr	273	304.5	265	260.3	326.4	255.2
Th	45.96	44.9	49.54	42.2	42.6	58.3
U	10.65	11.9	13.86	11.8	11.2	7.1
Zr	294.1	254.4	347.2	232.5	274	313.5
Hf	8.64	8.1	10.23	8.3	8.9	9.3
Nb	24.27	16.4	23.76	17.1	18.3	21.6
Ta	2.56	1.5	2.04	1.8	1.9	1.7
Ga	NA	19.1	NA	20	19.3	18.6
Sc	NA	10	NA	8	9	12
Cr	240	171.05	260	95.79	164.21	218.94

Ni	99	27.5	95	19.2	40.6	55.7
Co	13.45	9.9	11.94	7.8	9.6	16.8
V	67	61	66	45	53	72
Pb	45.67	18.8	38.16	2.1	5.1	8.2
Zn	90	73	130	51	56	69
Cu	20	11.1	20	9.5	25.3	18.4
Sn	NA	9	NA	7	10	11
W	2.4	1.6	1.4	14.8	1.8	17.5
Be	NA	7	NA	8	7	4
Bi	NA	0.1	NA	3.3	0.3	0.6
As	4.6	8	4.8	17.1	5.7	20.4
Mo	NA	0.5	NA	NA	0.3	0.6
Sb	0.18	0.6	0.22	0.2	0.4	1.2
Y	23	20	27	20.6	22.4	19.9
La	53.36	39.5	51.44	26.4	40.9	45.7
Ce	113	96.5	106	67.8	98.9	116.7
Pr	14.39	11.76	14.23	9.02	12.16	12.46
Nd	57.59	52.2	57.4	41.7	51.2	50.6
Sm	11.87	10.17	12.2	8.68	10.27	9.58
Eu	1.7	1.59	1.79	1.38	1.67	1.5
Gd	6.9	5.93	7.4	5.52	6.19	5.81
Tb	0.8	0.77	0.9	0.73	0.8	0.78
Dy	4.3	3.7	4.85	3.71	4.14	3.81
Ho	0.71	0.65	0.83	0.71	0.73	0.68
Er	2.04	1.79	2.31	1.85	2.11	1.85
Tm	0.25	0.29	0.28	0.3	0.31	0.3
Yb	1.89	1.71	2.13	1.96	1.97	1.93
Lu	0.21	0.27	0.24	0.29	0.29	0.28
ΣREE	269.01	226.83	262	170.05	231.64	251.98
La_N/Yb_N	19.03	15.57	16.28	9.08	14	15.96
Eu/Eu*	0.57	0.63	0.58	0.61	0.64	0.61
Rb/Sr	1.41	1.06	1.51	1.21	1.1	1.44
Rb/Ba	0.31	0.24	0.32	0.31	0.26	0.34

	GO2	**GO3**	**BAB4**	**BAI1**	**BAB3**	**BAB5**
Groups	CVMg_K	CVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Type	Light facies	Light facies	Basic rocks	Basic rocks	Basic rocks	Basic rocks
Rb	317.8	346.3	96	216	184.8	287.1
Cs	27.1	30.1	24.5	20.8	29.2	23.2
Ba	1100	1092	521	2191	2221	1283
Sr	286.2	297.6	497.5	710	464.8	374.3
Th	28.7	32.6	10.9	51.3	24.8	54.2
U	7.7	6.3	3.1	13.9	7.8	13.8
Zr	206.3	210.6	104.3	304.1	406.4	175.2
Hf	6.4	6.6	3	8.2	9.4	5.9
Nb	13.6	12.5	3.3	15	10.6	12.4
Ta	1.4	1.3	0.2	1.1	0.6	1.4
Ga	20.2	20.1	14	16.9	17.1	14.2
Sc	7	6	45	17	12	12
Cr	75.26	75.26	123.16	54.74	13.68	136.84
Ni	16.6	13	17	13.8	3.1	19.6
Co	7.1	5.9	32.3	20.3	15.6	14.1
V	40	40	197	156	151	108
Pb	8.7	2.9	5.2	39.5	15.7	19
Zn	54	33	26	45	106	33
Cu	9.7	2.7	16.1	51.3	29.7	14
Sn	10	6	3	4	3	4
W	2.3	0.7	1.8	6.8	1.9	4.3
Be	5	6	1	4	3	5

Bi	0.3	NA	0.3	0.3	0.2	0.2
As	8.3	2.6	12	44.6	10	16.1
Mo	0.5	0.3	0.3	1.1	0.4	0.5
Sb	0.2	NA	NA	0.4	0.2	0.5
Y	19.3	16.1	23.4	26.8	28.9	17.3
La	32.8	38	16.5	49.3	46.4	38.1
Ce	76.9	90.2	40.6	102.9	96.3	77.1
Pr	9.04	9.95	5.16	11.56	11.19	8.29
Nd	36.7	38.9	22.3	43.6	43.4	31
Sm	6.91	6.86	4.78	7.46	7.64	5.21
Eu	1.3	1.2	1.23	1.51	1.97	1.03
Gd	4.73	4.5	4.66	6.04	6.45	3.96
Tb	0.7	0.63	0.77	0.92	1.01	0.55
Dy	3.46	3.01	4.18	4.66	5.36	2.84
Ho	0.66	0.54	0.87	0.91	1.07	0.56
Er	1.83	1.45	2.28	2.49	2.99	1.54
Tm	0.27	0.23	0.36	0.39	0.45	0.24
Yb	1.71	1.41	2.1	2.42	3.01	1.57
Lu	0.27	0.21	0.36	0.39	0.48	0.25
ΣREE	177.28	197.09	106.15	234.55	227.72	172.24
La_N/Yb_N	12.93	18.17	5.3	13.73	10.39	16.36
Eu/Eu*	0.7	0.66	0.8	0.69	0.86	0.69
Rb/Sr	1.11	1.16	0.19	0.3	0.4	0.77
Rb/Ba	0.29	0.32	0.18	0.1	0.08	0.22

	VOS5	**VOS8**	**VOS3**	**BA5**	**BA13**	**BA14**
Groups	SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Type	Volcanic rocks	Volcanic rocks	Volcanic rocks	Porphy. granite	Porphy. granite	Porphy. granite
Rb	265.9	292.9	283.4	295.2	352.8	414.3
Cs	8.1	23.3	5.4	12.1	13.5	19.8
Ba	2357	1518	1355	1457	1182	1399
Sr	183.7	479.3	153.5	476.2	350.9	422.4
Th	79.4	38.5	97	58.9	55.8	55.7
U	20.2	14.4	27.4	16	6.2	19
Zr	436.3	180.1	444.1	177.1	186.7	184.2
Hf	11.6	5.3	12.4	5.8	5.8	5.6
Nb	21.6	11.5	24.2	15.6	13.2	15.3
Ta	1.6	1.2	1.8	1.9	1.7	1.9
Ga	15.5	17.3	15.1	16.9	14.8	17
Sc	7	10	7	11	8	10
Cr	NA	61.58	NA	109.47	82.1	88.95
Ni	0.6	12.4	1	25.9	19.5	27
Co	2.6	8.3	2.8	13.9	10.2	11.5
V	21	69	17	85	66	86
Pb	21.2	19.7	11.2	8.5	5.5	13.4
Zn	44	101	42	55	33	32
Cu	2.3	2.5	3.2	4.3	0.5	969.7
Sn	4	5	7	6	5	7
W	2.8	3.5	5.7	2.3	7.6	34.1
Be	4	4	4	5	4	5
Bi	NA	0.2	0.7	0.3	NA	2.3
As	6	19.1	6.5	6.4	3	19
Mo	0.4	0.3	0.5	0.4	0.3	14.3
Sb	0.7	0.5	1.2	0.2	NA	0.7
Y	30.3	18.4	34.7	17.9	14.7	15.6
La	50.9	38.6	66.4	38.1	35.1	35
Ce	140.4	78.7	145.8	80.5	67.1	70.8
Pr	11.31	8.34	14.29	8.64	7.29	7.81
Nd	40.5	30.6	52.4	31.8	26.5	28.7

Sm	7.04	5.14	8.45	5.82	4.63	5.25
Eu	1.35	1.07	1.14	1.02	0.93	1
Gd	5.39	3.69	6.62	4.23	3.3	3.62
Tb	0.89	0.57	1.06	0.62	0.47	0.54
Dy	4.95	3.12	5.73	3.2	2.33	2.63
Ho	1.04	0.59	1.16	0.6	0.48	0.52
Er	3.12	1.72	3.6	1.64	1.26	1.39
Tm	0.52	0.26	0.58	0.27	0.2	0.23
Yb	3.33	1.86	3.64	1.7	1.3	1.48
Lu	0.55	0.28	0.61	0.27	0.23	0.24
ΣREE	271.29	174.54	311.48	178.41	151.12	159.21
La_N/Yb_N	10.31	13.99	12.3	15.11	18.2	15.94
Eu/Eu*	0.67	0.75	0.47	0.63	0.73	0.7
Rb/Sr	1.45	0.61	1.85	0.62	1.01	0.98
Rb/Ba	0.11	0.19	0.21	0.2	0.3	0.3

	BA17	**BA6**	**BA15**	**BA9**	**BA12**	**BA16**
Groups	SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Type	Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite
Rb	348.7	354.1	353.1	361.2	371.4	360.7
Cs	19.8	15.2	16.9	14.2	19.3	13.1
Ba	1193	1127	1224	1024	1101	845
Sr	402.2	360.3	358.2	348.1	369.6	335.5
Th	62.5	52.4	50.1	56.6	56.2	57.2
U	18.5	16.5	22.2	13.8	20.7	27.9
Zr	208.5	173.3	172.6	181.8	155	163.2
Hf	6.9	5.8	5.8	5.9	5	5.8
Nb	16.5	13	12.5	15.4	13.6	15.8
Ta	2.1	1.7	1.6	1.9	1.7	2.3
Ga	15.5	15.4	15.4	16.2	17	15.6
Sc	10	8	8	9	9	8
Cr	95.79	61.58	82.1	88.95	68.42	61.58
Ni	13.2	17.9	18.3	20.7	18.9	11.2
Co	11.9	9.4	8.8	10.8	9.5	9.8
V	81	68	61	77	73	66
Pb	17.9	6.5	10.2	7.5	35.5	7
Zn	69	33	54	39	44	31
Cu	2.8	5.2	2.1	0.9	8.2	2.6
Sn	5	6	5	5	11	9
W	20.9	21.5	8	6.9	8.9	28.6
Be	7	5	5	6	6	6
Bi	NA	0.4	0.1	0.1	8.8	0.1
As	40.4	3.3	8	9.6	9.8	4.2
Mo	1.2	3.1	0.5	0.4	0.8	1.5
Sb	0.2	0.2	0.2	0.2	0.2	NA
Y	17.3	13.4	14	12.8	11.4	14.8
La	36.4	32.2	28	30.1	31.7	32.6
Ce	75.9	65	61.2	65.5	67.9	67.9
Pr	8.27	6.86	6.44	6.45	6.17	7.11
Nd	30.7	24.9	23.8	22.9	21.7	26.6
Sm	5.58	4.38	4.34	4.09	3.88	4.71
Eu	1.02	0.83	0.81	0.76	0.77	0.81
Gd	4.02	3.12	3.09	2.9	2.76	3.45
Tb	0.58	0.46	0.47	0.43	0.41	0.49
Dy	2.94	2.3	2.44	2.27	2.17	2.55
Ho	0.6	0.45	0.46	0.46	0.41	0.48
Er	1.62	1.28	1.28	1.29	1.17	1.39
Tm	0.26	0.21	0.22	0.21	0.19	0.22
Yb	1.76	1.38	1.38	1.43	1.27	1.51

Lu	0.28	0.22	0.22	0.24	0.21	0.25
ΣREE	169.93	143.59	134.15	139.03	140.71	150.07
La_N/Yb_N	13.94	15.73	13.68	14.19	16.83	14.56
Eu/Eu*	0.66	0.69	0.68	0.67	0.72	0.61
Rb/Sr	0.87	0.98	0.99	1.04	1	1.08
Rb/Ba	0.29	0.31	0.29	0.35	0.34	0.43

	TF5	**OR 8**	**TF4**	**BR 1**	**PA2**	**LV8**
Groups	E_CVG	E_CVG	E_CVG	E_CVG	E_CVG	E_CVG
Type	granite	granite	granite	granite	granite	granite
Rb	225.4	224.4	267.1	275.6	256.8	269.8
Cs	31.4	19.9	23.8	16.2	20.5	30.7
Ba	1184	1228	1089	969	1050	938
Sr	341.2	333.8	277.7	244.1	399.4	249.2
Th	26.2	29.7	32.3	27.4	32.1	27.6
U	4.6	5.9	5.7	3.9	9.1	5.8
Zr	182.4	214.3	218.9	196.2	232	167.6
Hf	6	7	6.5	6.6	7.6	5.2
Nb	10.7	10.3	13.2	14	14.5	11.3
Ta	0.8	0.9	1.4	1.7	1.5	1.3
Ga	20.7	20.3	23.5	22.7	20.8	21.2
Sc	6	7	6	6	5	5
Cr	27.37	27.37	27.37	27.37	NA	20.53
Ni	6.5	6.3	6.8	11.2	7	4.2
Co	4.2	4.6	4.6	4.7	4.9	3.6
V	39	45	48	31	37	39
Pb	3.6	5.4	4.1	2.2	10.3	3.5
Zn	46	57	52	46	56	38
Cu	2.1	6.2	0.7	2.4	10.2	1.1
Sn	6	7	7	11	5	8
W	0.8	0.9	0.7	0.7	1.1	1
Be	6	5	7	10	4	6
Bi	0.3	NA	0.6	0.3	0.2	0.2
As	5.9	10	8.3	1.5	2.5	2.8
Mo	NA	0.2	NA	NA	0.5	NA
Sb	NA	NA	0.1	0.1	NA	0.2
Y	12.9	12.5	21.3	16.4	13.6	13.6
La	34	41.4	43	45	48.4	35
Ce	76.2	84.5	95.3	90.4	106.4	71.2
Pr	8.24	9.48	10.22	10.99	10.59	7.97
Nd	31.1	32.8	35.2	41.6	37.7	27.2
Sm	5.85	5.96	7.1	7.36	6.05	5.12
Eu	1.13	1.16	1.17	1.23	0.97	0.92
Gd	3.91	4.01	5.47	4.85	4.06	3.81
Tb	0.53	0.54	0.76	0.64	0.56	0.56
Dy	2.37	2.29	3.91	3.36	2.63	2.79
Ho	0.44	0.42	0.69	0.55	0.44	0.53
Er	1.25	1.16	1.94	1.53	1.19	1.48
Tm	0.18	0.17	0.32	0.22	0.17	0.22
Yb	1.06	0.96	1.45	1.51	0.98	1.21
Lu	0.16	0.15	0.24	0.22	0.15	0.19
ΣREE	166.42	185	206.77	209.46	220.29	158.2
La_N/Yb_N	21.63	29.07	19.99	20.09	33.3	19.5
Eu/Eu*	0.72	0.73	0.57	0.63	0.6	0.64
Rb/Sr	0.66	0.67	0.96	1.13	0.64	1.08
Rb/Ba	0.19	0.18	0.25	0.28	0.24	0.29

	BR 8	**OR 6**	**WI 10**	**TF10**	**LV2**	**PA3**
Groups	E_CVG	E_CVG	E_CVG	E_CVG	E_CVG	E_CVG

Type	granite	granite	granite	granite	granite	granite
Rb	179.2	234.8	253.4	257.1	230.4	305.9
Cs	24.9	31.9	15.3	26.3	13.5	41.9
Ba	682	1389	723	799	656	818
Sr	247.6	387.2	250.8	230.2	184.7	240.7
Th	13.4	8.1	21.5	26.5	21.8	24.1
U	4.9	3	4.5	4.3	4	3.5
Zr	111.9	113.7	121.6	169	136.8	174.8
Hf	3.7	3.4	4.3	5.2	4.4	5.6
Nb	8.5	7.2	8.3	11.2	10.1	12.5
Ta	0.9	0.9	1.1	1.5	1.6	1.3
Ga	18.5	17.5	22.7	20.2	20.8	23.1
Sc	7	7	5	5	5	5
Cr	20.53	20.53	NA	NA	NA	54.74
Ni	8.3	4.3	2.7	4.2	3.8	17
Co	3.2	2.9	2.4	3.1	2.6	5.2
V	37	40	23	33	22	26
Pb	3.4	2.6	10.4	3.4	2.8	4.7
Zn	56	26	58	46	40	31
Cu	3.4	2.7	3.5	1.9	0.8	10.8
Sn	6	8	9	7	12	12
W	0.9	1.9	0.9	4.6	11.5	7.4
Be	3	4	6	6	5	4
Bi	0.2	0.1	0.8	0.2	0.3	0.9
As	2.5	3.1	2.9	5.9	2.4	9.1
Mo	NA	NA	NA	0.1	NA	0.5
Sb	NA	0.1	NA	0.2	0.3	0.6
Y	20.3	23.7	10.4	12.4	10.6	14.1
La	22.9	25.4	27.7	17.4	21.9	22.3
Ce	51.1	60	59.8	38.7	50.8	52.7
Pr	5.59	6.36	6.47	4.53	5.49	5.54
Nd	22.4	23.9	23.9	15.4	20.2	20.1
Sm	4.36	4.96	4.54	4	4.12	3.99
Eu	0.83	1.18	0.76	0.77	0.73	0.84
Gd	3.96	4.27	2.97	3.04	2.92	3.1
Tb	0.63	0.71	0.42	0.45	0.41	0.5
Dy	3.51	3.87	2.13	2.48	2.12	2.57
Ho	0.69	0.78	0.36	0.44	0.37	0.48
Er	1.95	2.37	0.99	1.25	1.12	1.34
Tm	0.3	0.34	0.16	0.17	0.16	0.2
Yb	1.95	2.07	0.95	1.27	1.07	1.3
Lu	0.28	0.32	0.14	0.19	0.14	0.18
ΣREE	120.45	136.53	131.29	90.09	111.55	115.14
La_N/Yb_N	7.92	8.27	19.66	9.24	13.8	11.57
Eu/Eu*	0.61	0.78	0.63	0.68	0.64	0.73
Rb/Sr	0.72	0.61	1.01	1.12	1.25	1.27
Rb/Ba	0.26	0.17	0.35	0.32	0.35	0.37

	LV10	**BR 5**	**GG10A**	**GG10C**	**OR 4**	**HO 2**
Groups	E_CVG	E_CVG	W_CVG	W_CVG	W_CVG	W_CVG
Type	granite	granite	granite	granite	granite	granite
Rb	250	250.3	396.9	301.4	248.2	336
Cs	21.8	19.5	29.2	18	15.5	31.8
Ba	859	792	2175	2089	1486	1434
Sr	267.2	242.1	464.2	439.9	232.9	287.4
Th	29.4	22.3	110.9	42.2	9	33.8
U	4.6	3.9	27.7	6.2	9.3	6.8
Zr	159.6	144	472.7	336	193.1	253.4
Hf	4.9	4.4	14.9	10.5	5.6	8.5

Nb	9.9	10.8	29.9	22.7	18.7	19.5
Ta	1.1	1.4	2.8	2.5	1.5	1.8
Ga	20.3	21.7	20.4	20.7	21.5	20.4
Sc	5	5	13	6	11	9
Cr	20.53	20.53	191.58	68.42	143.68	123.16
Ni	4.6	4.7	70.3	29.3	27.6	27.9
Co	3.2	3.1	19.2	7.5	10.3	8.5
V	33	26	75	42	60	46
Pb	6	3.3	7.9	5.2	2.6	6.5
Zn	48	38	55	48	73	46
Cu	1.7	1.2	9.3	12.4	7.7	4.4
Sn	7	7	12	13	6	12
W	0.8	2.4	1.3	6.2	1.6	0.7
Be	5	5	6	6	3	10
Bi	0.2	0.1	2	0.7	0.2	0.3
As	2.2	1.7	9.8	4.2	5.6	7.7
Mo	NA	NA	NA	NA	NA	NA
Sb	NA	0.2	0.8	0.8	NA	0.5
Y	12.4	11.2	41.6	15.7	25.3	17.5
La	32.8	20.6	62.3	51.9	15.3	32.9
Ce	70.8	54.1	166.9	122.6	42.7	77.8
Pr	7.68	5.12	22.01	13.93	6.24	10.01
Nd	28	19.2	92.7	52.1	29.5	42.1
Sm	4.85	3.57	19.86	9.88	7.25	8.02
Eu	0.86	0.69	2.37	1.82	1.44	1.48
Gd	3.26	2.65	12.85	6.28	5.16	5.14
Tb	0.48	0.4	1.75	0.78	0.83	0.64
Dy	2.32	2.03	8.18	3.19	4.42	3.07
Ho	0.4	0.38	1.39	0.54	0.8	0.57
Er	1.08	1.06	3.36	1.42	2.28	1.61
Tm	0.18	0.17	0.41	0.21	0.37	0.24
Yb	1.24	1.04	2.45	1.29	2.14	1.64
Lu	0.17	0.14	0.36	0.21	0.29	0.25
ΣREE	154.12	111.15	396.89	266.15	118.72	185.47
La_N/Yb_N	17.83	13.35	17.14	27.12	4.82	13.52
Eu/Eu*	0.66	0.69	0.45	0.71	0.72	0.7
Rb/Sr	0.94	1.03	0.86	0.69	1.07	1.17
Rb/Ba	0.29	0.32	0.18	0.14	0.17	0.23

	GG6	**PA1**	**FU 4**	**FU 6**	**LV5**	**G1 5**
Groups	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
Type	granite	granite	granite	granite	granite	granite
Rb	332.7	447	267.6	238	267.9	355.2
Cs	19.1	59.1	34.7	18.7	21.6	27.1
Ba	891	711	639	874	685	757
Sr	192.7	217.7	163	183.6	143.5	171.7
Th	44.1	29.5	16	19.9	18.3	32.7
U	7.8	6.2	5.5	5	6.6	4.9
Zr	306.2	278.4	154.6	161.4	152.7	223.9
Hf	9.5	8.5	5.1	5	5.2	7.3
Nb	18.7	19.3	9.6	8.2	11.4	17.8
Ta	1.8	1.9	1.1	1	1.2	2.3
Ga	22.2	22.5	22.9	21.7	23.2	24.1
Sc	6	7	6	4	6	5
Cr	34.21	82.1	20.53	NA	20.53	34.21
Ni	11.6	27.4	5.2	2.8	5.7	7.7
Co	4.4	8.1	3.2	2.8	3.5	2.9
V	28	43	30	13	36	23
Pb	2.9	9.3	1.8	1.8	2.6	3.6

Zn	34	59	48	33	49	50
Cu	1.7	4.7	0.8	0.9	1.5	2.9
Sn	6	10	6	6	8	13
W	3.3	10	1.6	0.7	1.5	6.1
Be	4	4	5	5	5	6
Bi	0.2	0.5	0.3	0.3	0.3	0.4
As	13.8	14.4	2.7	3.6	1.1	2.7
Mo	NA	0.5	NA	NA	NA	NA
Sb	0.2	1	0.2	0.1	0.1	0.2
Y	16	21.8	14.9	13.7	13.5	16.3
La	43.4	32.1	24.9	34.2	31.9	28.6
Ce	116.8	78	53.1	69.7	69.8	72.3
Pr	11.88	8.62	6.28	8.16	8	7.42
Nd	45.8	31.3	23.2	29.9	28.9	29.3
Sm	8.07	6.29	4.94	5.97	5.73	5.23
Eu	0.76	0.74	0.8	0.91	0.77	0.74
Gd	5	5.15	3.91	4.51	4.14	3.94
Tb	0.71	0.81	0.59	0.61	0.59	0.58
Dy	3.31	4.08	2.98	2.97	2.74	3.04
Ho	0.56	0.73	0.49	0.44	0.44	0.53
Er	1.53	1.88	1.31	1.15	1.16	1.51
Tm	0.2	0.29	0.19	0.14	0.18	0.21
Yb	1.29	1.7	1.29	0.92	1.15	1.35
Lu	0.17	0.24	0.17	0.11	0.17	0.19
ΣREE	239.48	171.93	124.15	159.69	155.67	154.94
La_N/Yb_N	22.68	12.73	13.01	25.06	18.7	14.28
Eu/Eu*	0.37	0.4	0.56	0.54	0.48	0.5
Rb/Sr	1.73	2.05	1.64	1.3	1.87	2.07
Rb/Ba	0.37	0.63	0.42	0.27	0.39	0.47

	PA5	**HO 4**	**HO 3**	**RE 2**	**BR 11**	**RE 5**
Groups	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
Type	granite	granite	granite	granite	granite	granite
Rb	288.4	237	283.9	253.5	268.8	375.8
Cs	25.7	39.3	28.3	22.9	22.3	29.8
Ba	523	500	375	583	634	659
Sr	107.6	102.5	108.3	148.7	167.7	162.9
Th	24.5	10.1	10.7	13.7	18.4	26.1
U	4.7	4.7	2.5	4.5	4.6	4.5
Zr	215.5	100.1	77.4	112.1	120.2	161.4
Hf	6.8	3.2	3.1	3.6	4.1	5.1
Nb	11.3	7.8	11.8	9	10.6	13.1
Ta	1.3	0.8	1.7	1.5	1.6	1.8
Ga	19.1	21.1	22.8	23.4	22	20.2
Sc	7	4	3	4	4	4
Cr	27.37	NA	13.68	NA	13.68	13.68
Ni	3.2	1.2	1.6	2.2	3.6	1.4
Co	5	1.6	1.3	1.2	2.4	1.2
V	24	11	NA	NA	22	18
Pb	2.8	1.5	2.8	3.4	3.3	7.7
Zn	43	31	20	39	38	3
Cu	4.3	NA	0.7	1.3	1.8	1.1
Sn	11	8	8	11	10	14
W	1.4	1.5	2.4	3.5	3.5	15
Be	4	5	5	10	4	41
Bi	0.7	0.1	0.1	0.6	1.3	0.5
As	4.6	8.1	5.2	2.1	1.7	16.5
Mo	0.4	NA	0.1	NA	NA	NA
Sb	NA	0.2	0.6	0.2	NA	2.6

Y	31	13.3	17.4	13.2	14.9	12.9
La	34.8	21.4	15.6	22.2	25	28.3
Ce	83	48.9	33.5	49.1	53.1	62.6
Pr	9.29	5.55	3.89	5.51	6.04	6.62
Nd	33.8	20.9	14.8	20.8	22.5	23.3
Sm	6.71	4.56	3.41	4.08	4.1	4.21
Eu	0.81	0.69	0.59	0.68	0.69	0.64
Gd	5.76	3.63	3.22	3.49	3.3	3.18
Tb	0.98	0.55	0.57	0.52	0.5	0.49
Dy	5.49	2.76	2.83	2.6	2.52	2.3
Ho	1.09	0.46	0.55	0.4	0.49	0.44
Er	2.94	1.31	1.49	1.07	1.36	1.21
Tm	0.45	0.19	0.2	0.17	0.2	0.19
Yb	3	1.19	1.42	1.1	1.31	1.11
Lu	0.43	0.16	0.17	0.14	0.19	0.16
ΣREE	188.55	112.25	82.24	111.86	121.3	134.75
La_N/Yb_N	7.82	12.12	7.41	13.61	12.87	17.19
Eu/Eu*	0.4	0.52	0.54	0.55	0.57	0.53
Rb/Sr	2.68	2.31	2.62	1.7	1.6	2.31
Rb/Ba	0.55	0.47	0.76	0.43	0.42	0.57

	GG2	**RE 11**	**L3**	**RE 4**	**GG4**	**GG5**
Groups	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
Type	granite	granite	granite	granite	granite	granite
Rb	300.4	243.3	329	264	192.5	226.7
Cs	34.9	20.6	26.8	19.7	29.1	21
Ba	583	562	604	557	506	545
Sr	123.4	111.8	74.2	125.4	98.8	120
Th	21.3	13.2	17.1	14.8	12.1	8.6
U	5	4.1	4.7	7.6	3.3	3.5
Zr	138.7	101.3	148	111.1	101.4	65.8
Hf	4.5	3.3	4.9	3.6	3.4	2.6
Nb	11.2	9.1	11	10.2	11.2	8.8
Ta	1.6	1.2	1.5	1.3	1.6	1.4
Ga	21.1	22.6	20.5	22.9	16.9	17.9
Sc	4	4	5	4	5	4
Cr	13.68	NA	20.53	NA	20.53	NA
Ni	3.2	1.6	1.9	1.9	5.4	0.8
Co	1.9	1.5	1.9	1.3	3	0.8
V	12	NA	8	15	18	NA
Pb	2.8	3.5	4.5	3.1	2.4	3.6
Zn	34	37	37	41	29	21
Cu	1.2	1.1	2.1	13	3.8	1.4
Sn	16	12	10	13	5	11
W	5.9	2.2	2.6	2.7	3.9	1.8
Be	6	3	5	5	3	6
Bi	0.7	0.5	1.1	0.8	0.3	1.2
As	5.9	4.8	3.2	6.7	5.1	5.8
Mo	NA	NA	0.4	NA	0.1	NA
Sb	0.1	0.6	NA	0.2	0.4	0.2
Y	11.6	12.6	22.2	11.4	28.3	15.8
La	26.1	23.2	29.8	19.9	19.9	14.8
Ce	56	49.5	68.7	44.4	45.9	32.3
Pr	6.17	5.1	7.09	4.77	5.23	3.44
Nd	22.3	19.3	25.3	17.4	20.1	12.5
Sm	4.1	3.53	4.7	3.42	4.38	2.62
Eu	0.58	0.56	0.52	0.51	0.55	0.51
Gd	2.77	2.98	3.83	2.79	4.17	2.48
Tb	0.45	0.44	0.66	0.46	0.78	0.47

Dy	2.38	2.36	3.7	2.2	4.91	2.7
Ho	0.38	0.43	0.73	0.41	0.98	0.55
Er	1	1.18	2.01	1.02	2.92	1.56
Tm	0.16	0.18	0.33	0.15	0.44	0.22
Yb	1.02	1.06	1.99	0.93	2.74	1.38
Lu	0.13	0.16	0.3	0.14	0.37	0.2
ΣREE	123.54	109.98	149.66	98.5	113.37	75.73
La_N/Yb_N	17.25	14.76	10.1	14.43	4.9	7.23
Eu/Eu*	0.53	0.53	0.37	0.5	0.39	0.61
Rb/Sr	2.43	2.18	4.43	2.11	1.95	1.89
Rb/Ba	0.52	0.43	0.54	0.47	0.38	0.42

EV 380N	**CN2**	**CN8**	**CN6**	**CS-12A**
CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Basic rocks	Dark facies	Dark facies	Dark facies	Dark facies
175	434.4	404.5	432.7	376
1.4	23.5	36.3	30.6	19
1824	1674	1417	1433	1416
348.3	413.4	415.3	382.7	326
52.4	73.3	47.9	57.7	44.6
4.2	18.5	20.8	19	16.49
392.9	385.8	343.3	430.2	385.4
13.6	10.7	10.8	12.6	11.19
19.6	26.2	23.4	25.7	24.11
0.8	1.9	2.1	1.9	2.24
17.5	19.3	19.1	19.8	NA
11	18	13	14	NA
143.68	376.31	239.47	266.84	260
39	63	54.2	54.8	105
13	21.1	14.9	16.7	15.89
80	116	81	87	74
5.4	17.8	14.5	11.7	54.69
53	65	50	55	100
24.6	22.8	8	22	NA
NA	13	16	20	NA
0.6	7.4	3.9	1.3	2.5
6	5	6	7	NA
NA	0.3	0.3	0.3	NA
8.4	12.8	15.8	14.9	7.1
NA	0.3	0.5	0.8	NA
NA	NA	0.8	0.2	0.32
36.6	28.4	25.2	25.1	24
58.9	48.9	49.3	61.1	51.23
144	128.2	120.7	144.3	109
15.34	14.81	13.59	15.8	14.08
58.1	62	57.8	62.1	57.07
10.91	13.88	11.95	12	11.64
1.85	2.11	2.02	1.87	1.89
8.35	8.74	7.43	7.38	7
1.33	1.09	0.95	0.94	0.8
6.68	5.49	4.52	4.7	4.48
1.24	0.94	0.8	0.8	0.78
3.35	2.43	2.1	2.24	2.15
0.41	0.38	0.32	0.33	0.29
2.29	2.38	2.12	2.15	2.08
0.34	0.35	0.31	0.32	0.26
313.09	291.7	273.91	316.03	262.75
17.34	13.85	15.68	19.16	16.61
0.59	0.59	0.66	0.61	0.64
0.5	1.05	0.97	1.13	1.15
0.1	0.26	0.29	0.3	0.27

CS-10B	**CS-16A**	**CS-45A**	**BR 13**	**CS-21A**
CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Light facies	Light facies	Light facies	Light facies	Light facies
371	324	353	523.6	340
40	22	34	125	29
1343	1125	1275	1453	1034
311	236	299	258.2	249

54.24	46.93	63.16	46.6	42.03
16.88	17.3	24.7	8.9	14.65
373.4	311.3	287.3	302.6	280.4
10.68	9.15	8.11	9.2	8.12
22.74	21.17	21.72	19	25.38
2.05	1.92	1.7	1.9	2.91
NA	NA	NA	20.4	NA
NA	NA	NA	10	NA
230	250	250	143.68	300
94	91	49	33.1	102
12.77	13.56	13.53	10.8	14.67
66	69	71	66	76
51.26	22.61	42.19	5.9	38.09
70	90	80	65	90
20	NA	NA	8.1	NA
NA	NA	NA	6	NA
3.2	2.6	4.4	14.8	18.7
NA	NA	NA	8	NA
NA	NA	NA	0.2	NA
4.9	4.1	6.3	17.4	5.4
NA	NA	0.5	NA	NA
0.14	0.2	0.1	0.8	0.15
23	23	24	19.4	25
69.16	53.64	54.74	30.5	51.42
139	113	114	87	110
16.65	14.01	14.21	10.18	14.2
63.93	55.78	57.01	46.6	57.93
12.22	11.23	11.61	8.99	12.02
1.87	1.7	1.75	1.63	1.51
7.2	6.5	6.8	5.82	7.1
0.9	0.8	0.8	0.76	0.8
4.46	4.1	4.29	3.65	4.55
0.76	0.71	0.71	0.69	0.74
2.12	2.01	1.97	1.84	2.09
0.3	0.27	0.23	0.29	0.26
1.97	1.93	1.86	1.87	1.96
0.26	0.23	0.2	0.26	0.21
320.8	265.91	270.18	200.08	264.79
23.67	18.74	19.84	11	17.69
0.61	0.61	0.6	0.69	0.5
1.19	1.37	1.18	2.03	1.37
0.28	0.29	0.28	0.36	0.33

ME3	**CN11**	**GO4**	**CN10**	**GO1**
CVMg_K	CVMg_K	CVMg_K	CVMg_K	CVMg_K
Light facies	Light facies	Light facies	Light facies	Light facies
382.6	373.3	284.4	334.1	284.4
27.5	6.9	6.5	9.7	6.5
1208	1267	1162	1288	1202
319.8	263.4	247	363.4	291.3
43.3	45.4	42.2	45	43.3
11.3	8	8.3	10.2	8.7
240.8	358	254.6	353.4	240.3
7.6	11.2	7.6	10.2	8
16.8	24.3	16.5	23.7	16.2
1.8	2.2	1.5	2	1.5
20	21.8	19.7	21.2	19.5
10	9	8	9	8
123.16	116.31	109.47	143.68	150.52

27.9	38.5	30.7	38	23.7
9	13.1	9	11.6	7.6
55	52	50	52	52
27.8	10.7	35.7	7.8	5.2
60	60	52	33	34
8	60.1	4.2	19.5	4.5
8	15	9	24	9
0.6	5.3	1.5	3.1	4.1
8	9	7	7	5
0.3	1.1	0.2	9.8	0.2
7.8	15.2	10	9.2	8.6
0.7	0.3	0.5	1.3	0.4
0.1	0.4	0.4	0.4	0.1
20.5	17.3	19.1	15.8	18.2
37.6	66.1	35	48.7	29.7
93.9	155.1	88.4	143.1	87.4
11.34	14.63	10.33	11.86	9.81
48.9	54.7	44.2	44.1	42.1
9.64	8.33	8.94	7.66	8.63
1.56	1.29	1.52	1.39	1.36
5.88	4.64	5.39	4.51	5.38
0.76	0.63	0.72	0.6	0.72
3.61	3.05	3.53	3.1	3.64
0.67	0.57	0.66	0.55	0.65
2	1.6	1.83	1.53	1.74
0.3	0.25	0.27	0.23	0.27
1.92	1.51	1.72	1.61	1.73
0.3	0.23	0.27	0.23	0.26
218.38	312.63	202.78	269.17	193.39
13.2	29.51	13.72	20.39	11.57
0.63	0.63	0.67	0.72	0.61
1.2	1.42	1.15	0.92	0.98
0.32	0.29	0.24	0.26	0.24

VOS4	**VOS6**	**VOS2**	**VOS7**	**VOS1**
SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Volcanic rocks	Volcanic rocks	Volcanic rocks	Volcanic rocks	Volcanic rocks
84.1	231.4	246.7	248.1	153.6
20.7	19.6	14	10.7	8.3
3433	2020	1666	1633	1176
971.2	726.5	394	356.5	344.7
13	53.7	41.8	38.2	18.3
4.2	14.5	15.7	12.5	6.2
97.5	276.5	192.9	185.8	171.5
2.5	7.5	5.7	5.9	5.3
4.4	15.8	13	12.1	10.1
0.3	1.2	1.3	1.1	0.9
18.2	15.1	17.1	17.1	17.5
24	19	13	12	14
27.37	88.95	82.1	68.42	34.21
15.5	25	18.5	18.4	9.8
25.3	21.9	11.8	11.8	10
277	154	92	84	86
22.7	23.9	17.9	10.4	28.4
74	46	54	88	70
60.2	42.5	20.7	6.6	13.7
2	3	6	5	3
1.7	3	2	2.9	2.2
1	4	6	5	2

0.1	NA	0.2	0.2	0.2
25.7	12.2	30.1	32.5	11.8
0.8	0.9	0.4	0.5	0.6
0.5	0.4	0.8	0.6	0.7
26.9	24.1	26.1	20.9	23.5
31.3	48.4	44.1	35.8	33.3
68.6	104	84.3	75.6	70.8
7.66	11.33	10.15	8.3	7.43
29.9	42.8	40.3	32	27.3
6.22	7.34	7.01	5.84	4.91
1.71	1.5	1.37	1.2	1.04
5.77	5.69	5.49	4.41	4.18
0.89	0.81	0.81	0.7	0.7
4.81	4.37	4.18	3.54	3.97
0.94	0.8	0.81	0.71	0.8
2.56	2.24	2.4	2.14	2.28
0.37	0.34	0.35	0.31	0.35
2.29	2.22	2.13	1.93	2.27
0.36	0.33	0.34	0.31	0.36
163.38	232.17	203.74	172.79	159.69
9.21	14.7	13.96	12.51	9.89
0.87	0.71	0.68	0.72	0.7
0.09	0.32	0.63	0.7	0.45
0.02	0.11	0.15	0.15	0.13

BA11	**BA7**	**BA2**	**BA1**	**BA8**
SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite	Porphy. granite
302.8	395.1	418	461.7	336.1
12.6	24.6	16.6	23.9	15.2
1000	1497	1409	1431	1115
328.6	445.5	376.6	381.7	413
56.7	59.1	55.4	59.7	59.8
24	22.2	9.2	18.9	16.5
175.5	164.8	203.9	207.7	208.4
6	5.2	6.4	6.9	6.4
13.5	15.6	16	16.6	16.2
1.5	1.9	1.9	2.1	2
14.6	15.8	16.8	16.8	16.9
10	10	10	11	9
102.63	102.63	75.26	102.63	61.58
21.3	17	23.5	22.9	19.1
11.6	11	11.8	11	10.3
77	88	82	87	75
5.3	8	9.9	8.8	8.1
42	52	37	36	101
2	70.6	7.3	1.3	2
5	7	6	7	5
2.9	1.5	3.8	5.1	6.3
5	5	5	6	6
0.2	0.2	0.3	0.2	0.2
8.4	19.2	13.6	8.3	4.8
0.5	1.7	0.5	1	0.8
0.1	0.6	0.3	0.7	0.3
15.1	19.8	16.1	22.7	18.4
25.2	35.8	35.9	46.1	37.1
50.1	78	70.3	82.1	77.4
5.88	8.93	7.61	10.76	8.28
22.7	33.8	28.3	39.9	30.9

4.46	6.25	4.91	7.07	5.63
0.9	1.13	0.94	1.32	1
3.42	4.49	3.47	5.32	4
0.51	0.67	0.54	0.77	0.58
2.58	3.29	2.73	3.59	2.96
0.52	0.65	0.51	0.72	0.58
1.4	1.75	1.44	2.05	1.57
0.23	0.28	0.25	0.32	0.26
1.55	1.84	1.58	2.02	1.63
0.25	0.28	0.26	0.32	0.27
119.7	177.16	158.74	202.36	172.16
10.96	13.12	15.32	15.39	15.35
0.7	0.65	0.7	0.66	0.64
0.92	0.89	1.11	1.21	0.81
0.3	0.26	0.3	0.32	0.3

BA10	**CO4**	**CO2A**	**CO1**	**CO3**
SVMg_K	SVMg_K	SVMg_K	SVMg_K	SVMg_K
Porphy. granite	FG granite	FG granite	FG granite	FG granite
427.8	337.2	283.4	214.1	479.8
15.1	12.3	19.5	22.9	61.6
1060	1459	1145	1013	1597
278.8	350.8	330.8	355.7	332.2
62.6	50	27.9	19.1	52.4
22.1	12.4	4	9.6	14.4
201	286.8	157.8	159.5	281.4
6.6	9	5.2	5	8.9
15.4	18.3	13.2	12	19.7
2	1.5	1.6	1.2	1.6
15.3	20.5	18.4	18.1	19.4
9	10	9	9	11
61.58	130	68.42	47.89	164.21
18.3	29.9	16	14.9	35.5
9.8	12.1	8.9	8.6	13
69	67	69	63	64
11.3	3.9	3.1	106.3	6.1
49	68	68	71	61
4.1	4.3	6.9	11.8	8.6
6	5	14	7	10
40.9	5	5	2	15
5	7	3	3	6
0.1	0.3	0.1	0.2	1.1
3.2	32.6	34.3	6	22.2
0.9	0.2	0.3	0.7	0.4
NA	0.1	0.2	0.1	0.6
17.1	19	20.1	20.6	18.7
40.7	31.8	32.9	38.2	33.1
74.4	97.8	73.5	77.4	80.4
8.71	10.61	8.09	8.83	10.67
30.5	46.8	28.7	32.1	49.4
5.44	9.59	5.11	5.73	10.56
1.02	1.49	0.82	0.97	1.93
3.97	5.79	4.24	4.42	6.32
0.57	0.76	0.69	0.67	0.79
2.8	3.51	3.66	3.57	3.59
0.56	0.66	0.72	0.68	0.63
1.54	1.78	1.97	1.87	1.65
0.25	0.28	0.31	0.31	0.25
1.68	1.69	1.89	1.94	1.57

0.27	0.26	0.29	0.29	0.25
172.41	212.82	162.89	176.98	201.11
16.33	12.69	11.74	13.28	14.21
0.67	0.61	0.54	0.59	0.72
1.53	0.96	0.86	0.6	1.44
0.4	0.23	0.25	0.21	0.3

WI 4	**TF1**	**BR 12**	**TF9**	**HO 5**
E_CVG	E_CVG	E_CVG	E_CVG	E_CVG
granite	granite	granite	granite	granite
281.8	240.3	260.8	255.9	251.3
28.4	12.6	24.9	23.4	35.4
832	1022	817	886	845
199	303.8	361.1	268.4	188.8
20.6	27.1	31.5	27.4	26.8
4.4	6.3	5.3	5.7	4
152.2	157	171.7	166.8	164.1
4.8	5.2	5.6	5.8	5.5
10.7	9.9	11.7	11.2	9.8
1.1	0.9	1.4	1.2	1.1
23.4	21.7	21.2	22.3	20.9
6	6	6	6	6
20.53	20.53	20.53	20.53	20.53
5.6	5.8	5.1	6.2	4.5
4.1	3.8	3.3	3.7	3.2
23	35	35	37	26
2	4.7	3.2	5	2.3
48	51	31	50	39
1.2	6	2.4	3.7	3.4
8	7	9	8	8
4.1	0.8	2.3	0.9	2.5
4	4	7	6	2
0.3	0.3	0.5	0.1	0.2
6.1	8.4	39.1	7.2	5.1
NA	NA	0.3	NA	0.1
0.2	0.1	1.5	0.1	0.7
14	12.8	14.8	14.5	12.8
20.5	28.9	36.9	33.6	26.8
44.5	75.4	77.4	67.9	57
4.7	7.2	8.6	7.92	6.5
16.1	25.8	32.5	28.5	23.6
3.52	4.74	5.5	5.44	4.49
0.82	0.92	0.96	0.92	0.71
3.45	3.38	3.87	3.75	3.27
0.54	0.49	0.53	0.54	0.47
2.62	2.42	2.66	2.68	2.43
0.43	0.42	0.45	0.46	0.44
1.36	1.19	1.41	1.28	1.12
0.19	0.19	0.19	0.2	0.18
1.32	1.25	1.28	1.39	1.11
0.2	0.18	0.19	0.19	0.16
100.25	152.48	172.44	154.77	128.28
10.47	15.59	19.44	16.3	16.28
0.72	0.7	0.64	0.62	0.57
1.42	0.79	0.72	0.95	1.33
0.34	0.24	0.32	0.29	0.3

GG3	**BR 4**	**LV3**	**TF7**	**BR 10**
E_CVG	E_CVG	E_CVG	E_CVG	E_CVG

granite	granite	granite	granite	granite
317.4	237.9	253.8	257.5	246.6
19.2	25.1	16.4	15.2	25.1
952	924	785	757	584
274.6	294.5	256	296.8	187.9
29.4	27.9	21.2	27.7	15.1
6.5	5.4	5.7	12.7	8.5
265.1	173.3	150.9	138.6	112.2
9.1	5.4	5	4.4	3.9
14.8	10	11.1	10.2	10.8
1.4	0.9	1.3	1.5	1.6
21.7	21	21.9	20.6	20.1
4	5	5	5	5
34.21	20.53	20.53	20.53	NA
12.3	5.5	4.2	5.2	3.4
3.2	4	3.1	3.1	2.2
16	34	35	29	19
4.6	2.7	15.2	9.1	5.5
42	45	46	62	39
1.3	1.5	6.6	2.2	4.2
13	5	9	9	13
2.7	1.8	2.2	0.8	2.3
8	6	5	8	7
0.3	0.1	0.5	0.5	1.2
2.2	8.9	4.6	9.8	9.2
NA	NA	NA	NA	NA
0.1	0.1	NA	NA	0.1
10.9	14.9	12.8	12.7	13.2
40.7	34.7	28.3	32.1	22.9
88.7	74.1	62.6	68.9	49.2
9.08	8.15	6.66	7.57	5.47
31.7	29.8	23.4	27.1	20.5
5.03	5.44	4.66	5.06	3.89
0.88	0.99	0.81	0.85	0.69
3.11	3.7	3.34	3.49	3.19
0.45	0.55	0.5	0.49	0.47
2.1	2.82	2.36	2.37	2.36
0.36	0.5	0.42	0.39	0.44
0.97	1.33	1.2	1.15	1.21
0.15	0.19	0.19	0.18	0.19
0.94	1.17	1.17	1.14	1.16
0.13	0.17	0.18	0.16	0.16
184.3	163.61	135.79	150.95	111.83
29.19	20	16.31	18.98	13.31
0.68	0.67	0.63	0.62	0.6
1.16	0.81	0.99	0.87	1.31
0.33	0.26	0.32	0.34	0.42

WI 5	**HO 7**	**GG9**	**LV7**	**G1 3**
W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
granite	granite	granite	granite	granite
266	307.9	259.6	221.8	376.1
14.9	12.5	25.2	16.8	36
936	1092	1196	878	769
251.3	250.2	287.9	225.8	216.6
32.1	39.3	93	21.3	41
12.7	8.2	13.8	5.1	9.6
264.5	234.3	504.2	168.4	245.2
8.8	7.9	15.2	5.6	8.3

14.5	17	18	10.1	17.8
1.7	1.6	2.2	1	2.2
18.5	21.9	19.2	23.1	24.1
8	8	8	6	5
82.1	82.1	82.1	20.53	34.21
20.4	22.1	14.7	4.8	6.7
8	7.2	8.5	3.3	3.2
45	39	32	39	22
2.8	1.9	4.5	3.3	4.4
35	38	46	41	51
2	1.9	7.4	1.4	3.4
8	10	7	6	17
2.8	2.2	0.8	0.9	4.2
5	9	6	6	12
0.7	0.3	0.6	NA	0.6
12	6	5.3	1	5.1
NA	NA	NA	NA	NA
0.2	0.2	0.2	0.2	0.2
19.1	19.4	18.6	14.1	15.8
43.9	42.5	133	32	36.3
100.9	121.7	284.1	75.3	79.5
11.56	11.32	29.28	7.48	9.11
46.3	45.9	97	26.5	34.6
8.42	8.4	12.69	5.23	5.8
1.3	1.28	1.47	0.91	0.79
5.08	5.69	7.57	3.63	4.01
0.69	0.77	0.87	0.55	0.59
3.34	4.04	3.69	2.66	2.82
0.63	0.65	0.67	0.49	0.53
1.68	1.83	1.89	1.34	1.41
0.27	0.27	0.25	0.2	0.21
1.72	1.74	1.78	1.23	1.34
0.26	0.25	0.24	0.17	0.18
226.05	246.34	574.5	157.69	177.19
17.21	16.47	50.38	17.54	18.26
0.61	0.57	0.46	0.64	0.5
1.06	1.23	0.9	0.98	1.74
0.28	0.28	0.22	0.25	0.49

FU 1	**G1 2**	**PA4**	**G1 6**	**RE 12**
W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
granite	granite	granite	granite	granite
247.1	333.9	254.4	391.2	272.5
16.5	20.9	17.6	31.4	32.5
591	716	540	782	584
138.1	178.9	87.7	198.3	122.4
11.5	36.8	21.6	32.4	16.9
4.8	4.9	3.9	4.9	4.8
110.3	213	172.8	244.2	121.2
3.8	7.2	5.6	7.9	4.6
7.6	18.6	11.1	11.2	11.6
0.8	2.6	1.5	0.9	1.5
23.5	21.7	19.2	23.5	22.2
5	5	7	4	4
NA	34.21	NA	27.37	NA
3	7.8	3.6	7	1.9
2.1	4	7.6	3.3	1.6
25	19	26	19	13
2.5	2.6	3.3	3.9	3.4

24	37	40	43	46
17.6	1	1.7	1.4	1.3
9	13	11	15	15
2.9	4.1	1.9	4.3	5.9
5	4	3	12	5
0.7	0.2	0.5	0.5	1.3
6.7	8.6	6	4.7	13.2
0.1	NA	0.3	NA	NA
0.4	0.3	NA	0.2	0.2
12.2	15	25.1	13.7	11.3
22.3	23.2	31.5	24.4	21.3
47.6	50.8	76.8	61.1	44.1
5.63	5.22	7.74	5.6	4.92
22	19.4	29.5	21.6	17.8
4.59	3.28	5.79	3.69	3.1
0.78	0.62	0.57	0.63	0.56
3.57	2.81	4.81	2.86	2.41
0.49	0.48	0.79	0.47	0.39
2.38	2.56	4.3	2.58	2.08
0.38	0.51	0.89	0.44	0.37
1.06	1.41	2.45	1.21	1.04
0.15	0.22	0.41	0.2	0.17
0.94	1.38	2.44	1.24	1.06
0.13	0.19	0.38	0.16	0.14
112	112.08	168.37	126.18	99.44
15.99	11.33	8.7	13.27	13.55
0.59	0.62	0.33	0.59	0.63
1.79	1.87	2.9	1.97	2.23
0.42	0.47	0.47	0.5	0.47

GG8	**G1 7**	**RE 6**	**RE 9**	**RE 7**
W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
granite	granite	granite	granite	granite
197.1	340.3	366	246.1	306.2
17	21.5	60	23.6	49.4
647	640	599	608	613
134.8	161.3	87.8	108.9	113.6
7.7	37.1	8.8	8.4	12.4
5.3	6.8	3.8	4.2	4.7
61.7	208.2	82.2	87.7	98.8
2.3	6.8	3	3.3	3.5
7.2	16	8.3	8.2	9.4
1.1	2.4	1.3	1.2	1.5
16.9	23.7	21.9	23.3	22.9
3	4	4	4	4
NA	27.37	NA	NA	NA
1.5	5	1.2	1.5	1.5
1.1	2.9	0.9	1.4	2.5
NA	18	11	14	16
10.5	6.8	4.6	5.2	3.2
29	31	39	45	21
1.8	14.1	1.8	0.8	1.5
10	13	13	12	16
2.3	5.9	5.6	1.9	8
10	7	3	5	4
1	0.8	0.7	0.6	1.6
22.4	16.9	6.3	2.8	31.4
0.1	NA	NA	NA	0.1
0.2	0.3	0.3	0.3	0.4

15.6	14.2	13.2	10.6	14.8
12.8	32.3	15.8	14.7	20.9
28.6	72.2	33.8	31.9	44
3.06	7.83	3.79	3.5	5.03
10.7	28.2	13.3	12.9	18
2.4	5.13	3.07	2.65	3.65
0.67	0.62	0.54	0.44	0.62
2.51	3.49	2.75	2.13	3.29
0.43	0.54	0.47	0.35	0.55
2.67	2.64	2.23	1.74	2.66
0.55	0.46	0.43	0.35	0.47
1.44	1.3	1.21	0.94	1.33
0.22	0.19	0.19	0.16	0.19
1.75	1.16	1.16	0.91	1.13
0.2	0.17	0.16	0.13	0.17
68	156.23	78.9	72.8	101.99
4.93	18.77	9.18	10.89	12.47
0.83	0.45	0.57	0.57	0.55
1.46	2.11	4.17	2.26	2.7
0.3	0.53	0.61	0.4	0.5

WI 1	**RE 8**	**L6**	**GG1**	**L4**
W_CVG	W_CVG	W_CVG	W_CVG	W_CVG
granite	granite	granite	granite	granite
242.2	267	354.3	198.8	409.2
43.8	21.7	24.8	9.2	25.4
609	481	299	175	181
144.3	90.6	78.5	64.6	47.2
20.1	8.8	14.8	4.6	9.8
3.2	5.2	4.9	3.6	4.1
122.8	90	84.4	52	63.8
4.2	3.1	3.5	1.9	2.3
9.4	8.5	9.8	5.1	17.8
1.2	1.2	1.7	0.8	3.1
17.9	21.5	18.6	14.2	23
5	3	4	3	3
20.53	NA	13.68	20.53	NA
5.5	2	1	6.9	1.3
2.2	1.1	2.2	1.4	1.3
18	10	9	NA	NA
5.8	3.8	5.2	3.7	10.7
29	39	28	11	34
1.5	1.1	1.2	3	1.5
7	12	17	7	22
5.1	2.4	8	0.7	6.7
3	6	5	4	2
0.5	0.9	0.6	NA	0.9
5.1	8.5	4	3.2	3
NA	NA	0.5	NA	0.4
2.2	0.2	2.1	0.1	NA
12.1	12.2	18.5	12.1	9.2
21.1	15.9	22.7	7.9	12.7
45.6	34.8	51.3	17.6	31.9
5.06	3.87	5.72	1.92	3.52
19.2	14.5	21.5	7	13.6
3.37	2.89	4	1.55	3.16
0.59	0.47	0.36	0.28	0.32
2.49	2.69	3.23	1.49	2.73
0.4	0.43	0.54	0.31	0.44

2.23	2.21	3.08	1.94	1.95
0.41	0.4	0.62	0.4	0.27
1.19	1.07	1.83	1.19	0.63
0.19	0.16	0.3	0.2	0.09
1.2	1	1.88	1.33	0.52
0.17	0.15	0.28	0.18	0.08
103.2	80.54	117.34	43.29	71.91
11.85	10.72	8.14	4	16.47
0.62	0.52	0.31	0.56	0.33
1.68	2.95	4.51	3.08	8.67
0.4	0.56	1.18	1.14	2.26

Tab. 5: Sr–Nd isotopic data for Mg–K rocks of the Central and Southern Vosges Mts.

Sample		Rb (ppm)	Sr (ppm)	$^{87}Rb/^{86}Sr$	$^{87}Sr/^{86}Sr$	2σ(m)	$(^{87}Sr/^{86}Sr)_{340}$	Sm (ppm)	Nd (ppm)
CVMg-K									
Basic rocks	EV 382N	295	488	1.74486	0.722133	0.000008	0.713671	18.89	86.2
Dark facies	CN 7	341	353	2.79737	0.725322	0.000006	0.711752	10.17	52.6
Light facies	CS 3	360	310	3.35903	0.727326	0.000008	0.711028	11.98	56.5
	CS 21	340	249	3.94960	0.7295	0.000007	0.710332	12.02	57.9
	ME 1	360	326	3.18848	0.726829	0.000006	0.711359	10.27	51.2
	BR 14	300	413	2.09829	0.719834	0.000006	0.70966	13.86	61.1
SVMg-K									
Basic rocks	BAB 5	287	374	2.21864	0.715875	0.000006	0.705122	5.21	31.0
	BAB 3	185	465	1.15003	0.710428	0.000007	0.704857	7.64	43.4
Porphyritic granite	BA 8	336	413	2.35392	0.717469	0.000006	0.706059	5.63	30.9
	BA 16	361	336	3.10976	0.723490	0.000006	0.708407	4.71	26.6
Fine-grained granite	CO 3	480	332	4.17767	0.727601	0.000009	0.707330	10.56	49.4
	CO 4	337	351	2.78036	0.723063	0.000006	0.709578	9.59	46.8
Volcanics	VOS 4	84	971	0.25047	0.707656	0.000006	0.706443	6.22	29.9
	VOS 8	293	479	1.76797	0.715035	0.000007	0.706469	5.14	30.6

Tab. 6: Sr–Nd isotopic data for CVG samples.

Sample	Rb (ppm)	Sr (ppm)	$^{87}Rb/^{86}Sr$	$^{87}Sr/^{86}Sr$	2σ(m)	$(^{87}Sr/^{86}Sr)_{320}$	Sm (ppm)	Nd (ppm)	$^{147}Sm/^{144}Nd$
E-CVG									
LV 8	270	249	3.13161	0.723577	0.000006	0.709283	5.12	27.2	0.1138
TF 1	240	304	2.28791	0.719805	0.000006	0.709366	4.74	25.8	0.1111
WI 10	253	251	2.92249	0.724993	0.000008	0.711652	4.54	23.9	0.1148
BR 4	238	295	2.33659	0.719567	0.000008	0.708906	5.44	29.8	0.1104
W-CVG									
GG 4	193	99	5.63569	0.745478	0.000007	0.719700	4.38	20.1	0.1317
GG 9	260	288	2.60817	0.727093	0.000007	0.715184	12.69	97.0	0.0791
RE 11	243	112	6.29468	0.746988	0.000010	0.718191	3.53	19.3	0.1106
G1 3	376	217	5.02248	0.738888	0.000008	0.715929	5.80	34.6	0.1013

$^{147}Sm/^{144}Nd$	$^{143}Nd/^{144}Nd$	2σ(m)	$(^{143}Nd/^{144}Nd)_{340}$	ε^{340}_{Nd}	T^{Nd}_{DM} (Ga)
0.1325	0.512189	0.000006	0.511894	-5.97	1.52
0.1169	0.51215	0.000004	0.51189	-6.06	1.53
0.1282	0.512177	0.000006	0.511892	-6.03	1.53
0.1254	0.512141	0.000009	0.511861	-6.62	1.57
0.1213	0.512202	0.000004	0.511932	-5.23	1.46
0.1371	0.512162	0.000005	0.511857	-6.71	1.58
0.1016	0.512307	0.000004	0.512081	-2.33	1.24
0.1064	0.512511	0.000004	0.512274	1.44	0.94
0.1102	0.512307	0.000006	0.512062	-2.7	1.26
0.1071	0.512300	0.000007	0.512062	-2.7	1.27
0.1292	0.512245	0.000003	0.511957	-4.74	1.42
0.1239	0.512219	0.000005	0.511943	-5.02	1.45
0.1258	0.512532	0.000007	0.512252	1.01	0.97
0.1016	0.512210	0.000004	0.511984	-4.22	1.38

$^{143}Nd/^{144}Nd$	2σ(m)	$(^{143}Nd/^{144}Nd)_{320}$	ε^{320}_{Nd}	T^{Nd}_{DM} (Ga)
0.512241	0.000005	0.512002	-4.36	1.38
0.512250	0.000004	0.512018	-4.07	1.36
0.512217	0.000005	0.511976	-4.87	1.42
0.512239	0.000006	0.512008	-4.26	1.37
0.512158	0.000005	0.511882	-6.72	1.56
0.512053	0.000006	0.511888	-6.6	1.56
0.512145	0.000006	0.511913	-6.1	1.52
0.512113	0.000006	0.511901	-6.35	1.54