

**Appendix; Geochemistry of the heavy mineral fraction; neutron activation; data listing**

Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Au_ppb	Ag_ppm	As_ppm	Ba_ppm	Br_ppm	Ca_%	Co_ppm	Cr_ppm	Cs_ppm	Fe_%	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Na_%	Ni_ppm	Rb_ppm
A02	168	3	3	18	3800	3	1	31	929	1	15.8	232	2.5	25	10	0.24	100	25
A03	68	3	3	20	100	3	1	47	825	1	15.9	232	2.5	25	10	0.3	100	25
A04	35	3	3	6	2500	3	6	28	586	1	13.9	238	2.5	25	10	0.37	100	25
A05	38	3	3	14	1400	3	1	31	1110	1	16.9	340	2.5	25	10	0.3	100	25
A06	209	102	3	11	1500	3	1	27	810	1	16.2	231	2.5	25	10	0.38	100	25
A07	255	42	3	1	100	3	1	35	1560	1	20.7	379	2.5	25	10	0.38	100	25
A08	119	394	3	16	2000	3	1	35	2010	1	14.2	303	2.5	25	10	0.29	100	25
A09	241	26	3	1	100	3	1	30	751	1	17.2	284	2.5	25	10	0.31	100	25
A10	133	30	3	24	100	3	1	45	941	1	18.2	466	2.5	25	10	0.25	100	25
A11	5	10	3	1	100	3	1	22	458	1	12.2	321	2.5	25	10	0.16	100	25
A12	126	107	3	1	1400	3	17	56	958	1	19.2	402	2.5	25	10	0.32	100	25
A13	137	3	3	126	100	3	1	43	1050	1	30	937	2.5	25	10	0.12	100	25
B02	118	3	3	22	100	3	16	40	1040	1	15.8	328	2.5	25	10	0.3	100	25
B03	82	128	3	28	100	3	1	20	963	1	14.1	467	2.5	25	10	0.35	100	25
B04	91	3	3	1	3700	3	1	25	773	1	13.8	324	2.5	25	10	0.32	100	25
B05	240	43	3	1	100	3	10	27	801	1	15.2	220	2.5	25	10	0.28	100	25
B06	153	1410	3	16	2800	3	1	31	1370	1	11.8	246	2.5	25	10	0.37	100	25
B07	233	102	3	11	100	3	1	40	1850	1	21.9	263	2.5	25	10	0.38	100	25
B08	245	53	3	31	100	3	1	34	1690	1	22.3	379	2.5	25	10	0.5	100	25
B09	98	423	3	13	100	3	1	29	1140	1	14.1	245	2.5	25	10	0.28	100	25
B10	11	3	3	10	100	3	1	21	545	1	9.44	378	2.5	25	10	0.14	100	25
B11	56	271	3	11	100	3	1	35	666	1	20.2	351	2.5	25	10	0.26	100	25
B12	173	3	3	60	100	3	1	49	809	1	30.8	1050	2.5	25	10	0.1	100	25
C02	189	72	3	1	940	3	1	30	859	1	18.3	225	2.5	25	10	0.28	100	25
C03	51	182	3	1	100	3	1	39	837	1	16.8	265	2.5	25	10	0.32	100	25
C04	6	10	3	8	450	3	1	12	526	1	8.08	154	2.5	25	10	0.15	100	25
C05a	93	3	3	10	2700	3	13	26	852	1	11.6	309	2.5	25	10	0.3	100	25
C05b	46	3	3	1	100	3	1	34	827	1	17.7	266	2.5	25	10	0.38	100	25
C06	237	3	3	1	2900	3	1	32	1060	1	16.5	357	2.5	25	10	0.26	100	25
C07	145	21	3	11	4300	3	1	28	1610	1	12.2	268	2.5	25	10	0.29	100	25
C08	136	224	3	11	100	3	7	26	1980	1	15.3	277	2.5	25	10	0.23	100	25
C09	131	96	3	48	100	3	1	39	968	1	15.1	170	2.5	25	10	0.21	100	25
C10	210	15	3	1	100	3	1	29	863	1	19.7	320	2.5	25	10	0.27	100	25
C11	169	147	3	49	100	3	1	33	1470	1	17.9	735	2.5	25	10	0.24	100	25
C12	166	869	3	23	100	3	1	34	1130	1	15	779	2.5	25	10	0.36	100	25
D02	143	3	3	14	3100	3	6	32	773	1	17.1	245	2.5	25	10	0.3	620	25
D03	149	36	3	6	100	3	6	25	607	1	12.7	266	2.5	25	10	0.3	100	25
D04	9	40	3	4	100	3	4	17	411	1	7.33	135	2.5	25	20	0.14	349	25
D05	106	105	3	53	6800	3	1	25	802	1	13.9	163	2.5	25	10	0.23	100	25
D06	3	30	3	20	2200	3	1	27	808	1	13	147	2.5	25	10	0.18	100	25
D07	14	279	3	9	1100	3	1	30	1120	1	14.1	286	2.5	25	10	0.23	100	25
D08	230	28	3	38	6000	3	1	36	1610	1	20.3	211	2.5	25	10	0.24	100	25

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Field	Lab	Au_ppb	Ag_ppm	As_ppm	Ba_ppm	Br_ppm	Ca_%	Co_ppm	Cr_ppm	Cs_ppm	Fe_%	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Na_%	Ni_ppm	Rb_ppm
D09	139	3	3	23	100	3	14	35	2080	1	16.7	363	2.5	25	10	0.4	100	25
D10	127	35	3	59	100	3	1	32	492	1	15.4	211	2.5	25	10	0.23	100	25
D11	39	114	3	1	100	3	1	47	1050	1	27.4	516	2.5	25	10	0.23	809	25
D12	225	45	3	1	100	3	1	32	780	1	21	437	2.5	25	10	0.26	100	25
E02	92	3	3	1	100	3	1	31	612	1	10.8	276	2.5	25	10	0.36	100	25
E03	190	3	3	13	100	3	16	31	804	1	17.9	315	2.5	25	10	0.42	679	25
E04	186	64	3	1	12000	3	13	39	1360	1	17.3	282	2.5	25	10	0.31	100	25
E05	61	53	3	14	100	3	1	31	1660	1	16.8	265	2.5	25	10	0.29	100	25
E06	12	71	3	11	4300	3	1	40	2450	1	18.5	312	2.5	25	22	0.28	100	25
E07	195	59	3	91	5900	3	1	40	897	1	22.5	183	2.5	25	10	0.23	100	25
E08	113	3	3	16	2500	3	1	33	2170	6	14.7	323	2.5	25	10	0.26	100	25
E09	181	23	3	1	100	3	1	26	581	1	11.8	197	2.5	25	10	0.26	100	25
E10	101	112	3	15	100	3	1	40	517	1	13.4	227	2.5	25	10	0.26	100	25
E11	167	309	3	19	100	3	1	38	827	1	18.6	322	2.5	25	10	0.25	100	25
F02	185	44	3	1	100	3	9	26	750	1	14.8	288	2.5	25	10	0.37	100	25
F03	198	3	3	25	100	3	15	40	1340	1	18.6	329	2.5	25	10	0.31	100	25
F04	211	179	3	26	5200	3	6	30	519	1	17.7	228	2.5	25	10	0.29	100	25
F05	142	3	3	10	8400	3	1	34	1480	1	15.9	267	2.5	25	10	0.32	100	25
F06	57	3	3	45	3500	3	11	51	1200	1	21.6	190	2.5	25	10	0.25	100	25
F07	64	3	3	1	100	3	1	37	1380	1	15	271	2.5	25	10	0.31	100	25
F08A	269	38	3	7	100	3	11	34	755	1	16.2	216	2.5	25	10	0.37	100	25
F08B	264	60	3	19	890	3	6	42	482	1	17.5	150	2.5	25	10	0.3	100	25
F09	229	3	3	1	100	3	1	16	499	1	10.5	303	2.5	25	10	0.33	100	25
F10	158	34	3	15	100	3	1	43	810	1	17.6	315	2.5	25	10	0.22	100	25
G02	125	3	3	19	100	3	1	34	855	1	13.1	196	2.5	25	10	0.32	100	25
G03	94	792	3	16	2500	3	1	31	806	5	11.4	236	2.5	25	10	0.31	100	25
G04	163	3	3	11	4700	3	1	28	1580	1	11	240	2.5	25	10	0.26	100	25
G05	236	3	3	1	12000	3	14	31	1510	1	17.2	320	2.5	25	10	0.3	100	25
G06	90	3	3	16	100	3	1	28	1370	1	13.7	415	2.5	25	10	0.3	100	25
G07	174	154	3	7	100	3	1	25	850	1	13.3	217	2.5	25	10	0.28	100	25
G08	193	54	3	8	100	3	1	35	1510	1	15.5	304	2.5	25	10	0.33	100	25
G09	232	3	3	1	100	3	6	32	550	1	16.1	101	2.5	25	10	0.26	100	25
G10	22	97	3	13	100	3	5	38	280	1	20.6	90	2.5	25	10	0.11	100	25
H02	222	36	3	38	12000	3	1	39	930	1	19.7	182	2.5	25	10	0.3	100	98
H03	179	9	3	1	100	3	1	43	3610	1	22.4	316	2.5	25	10	0.34	771	25
H04	105	97	3	10	100	3	7	29	1240	6	14	216	2.5	25	10	0.32	100	25
H05	124	25	3	14	320	3	8	30	1190	1	12.2	252	2.5	25	10	0.3	100	25
H06	77	106	3	11	100	3	1	33	765	1	15.4	230	2.5	25	10	0.32	100	25
H07	170	301	3	29	100	3	1	53	1520	1	30	416	2.5	25	10	0.2	100	25
H08	132	3	3	10	100	3	8	31	1220	1	11.4	202	2.5	25	10	0.3	100	25
H09	271	3	3	8	100	3	4	41	325	1	15.9	35	2.5	25	10	0.18	100	25
H10	7	62	3	14	100	3	5	42	340	1	21.5	56	2.5	25	10	0.18	100	25

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I02	34	37	3	11	100	3	1	29	1180	1	15.9	390	2.5	25	10	0.39	100	25
I03	87	155	3	10	1000	3	1	32	961	1	14.5	235	5	25	10	0.36	100	25
I04	165	491	3	13	100	3	1	34	1160	1	12.3	244	2.5	25	10	0.35	100	25
I05	217	59	3	10	100	3	7	34	644	1	13	179	2.5	25	10	0.34	100	25
I06	13	178	3	1	520	3	1	28	495	1	12.9	154	2.5	25	10	0.18	100	25
I07	86	3	3	10	100	3	7	29	918	1	14.1	194	2.5	25	10	0.25	100	25
I08	73	101	3	1	100	3	6	30	606	1	12.9	121	2.5	25	10	0.21	100	25
I09	60	30	3	7	100	3	6	27	440	1	14.3	120	2.5	25	10	0.18	100	25
I10	155	3	3	14	100	3	6	39	810	1	14.3	173	2.5	25	10	0.38	100	25
J02	66	11	3	18	6500	3	1	34	1250	1	17.3	259	2.5	25	10	0.32	100	25
J03	47	3	3	18	3200	3	1	35	1310	1	18.5	284	2.5	25	10	0.37	100	25
J04	103	213	3	17	930	3	1	28	1260	1	11.6	244	2.5	25	10	0.28	100	25
J05	226	42	3	1	100	3	1	33	831	1	14.5	182	2.5	25	10	0.35	100	25
J06	183	33	3	11	100	3	1	26	680	1	12.4	156	2.5	25	10	0.25	100	25
J07	204	70	3	12	100	3	1	38	512	1	17.4	134	2.5	25	10	0.24	100	25
J08	107	28	3	1	100	3	1	42	654	1	15.2	144	2.5	25	10	0.28	100	25
J09	130	186	3	1	100	3	1	43	783	1	18	137	2.5	25	10	0.26	100	25
J10	20	3	3	35	710	3	6	38	606	1	19.1	151	2.5	25	10	0.19	100	25
K02	273	331	3	40	4300	3	1	45	878	1	19.9	228	2.5	25	10	0.29	764	25
K03	41	3	3	9	3400	3	5	34	1140	1	14.7	289	2.5	25	10	0.39	100	25
K04	250	451	3	6	100	3	1	39	2040	1	16.6	351	2.5	25	10	0.31	100	25
K05	21	3	3	1	100	3	9	42	866	1	19.4	242	2.5	25	10	0.46	100	25
K06	261	150	3	8	100	3	4	52	445	1	25	42	2.5	25	10	0.28	100	25
K07	148	25	3	13	100	3	4	47	420	1	23	85	2.5	25	10	0.19	290	25
K08	121	3	3	10	100	3	3	43	370	1	18.7	33	2.5	25	10	0.18	220	25
K09	111	6	3	14	100	3	1	38	310	4	21.2	53	2.5	25	10	0.17	100	25
K10	228	3	3	13	100	3	1	40	594	1	25	119	2.5	25	10	0.3	100	25
L02	18	3	3	1	100	3	1	41	936	1	19.7	287	2.5	25	10	0.19	100	25
L03	251	98	3	13	1500	3	1	32	1250	1	18.5	308	2.5	25	10	0	100	25
L04	220	178	3	1	100	3	1	35	730	1	15	167	2.5	25	10	0.35	100	25
L05E	23	62	3	1	100	3	1	41	681	3	18.4	210	2.5	25	10	0.44	100	25
L05W	4	3	3	11	100	3	13	38	920	1	17	210	2.5	25	10	0.65	100	25
L06E	40	23	3	6	100	3	4	44	390	1	17.1	53	2.5	25	10	0.2	100	25
L06WA	218	236	3	1	100	3	1	36	761	1	20.8	130	2.5	25	10	0.36	100	25
L06WB	184	36	3	17	100	3	1	58	1000	1	25.8	274	2.5	25	10	0.47	100	25
L07	44	29	3	11	100	3	1	33	370	2	20.4	71	2.5	25	10	0.16	100	25
L08	267	3	3	11	100	3	5	34	375	1	20.6	64	2.5	25	10	0.22	100	25
L09	19	3	3	13	100	3	3	35	290	1	18.2	35	2.5	25	10	0.17	100	25
L10	99	3	3	11	100	3	6	39	290	1	16.6	67	2.5	25	10	0.16	100	25
L11	150	3	3	15	100	3	4	41	320	1	21.1	54	2.5	25	10	0.19	100	55
M02	78	3	3	14	100	3	6	40	1300	1	16.1	334	2.5	25	10	0.28	100	25
M03	152	70	3	19	100	3	1	33	994	1	11.3	355	2.5	25	10	0.36	100	25

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M04	248	165	3	1	100	3	1	34	950	1	16.4	281	2.5	25	10	0.32	100	25
M05	29	23	3	6	100	3	1	22	380	1	11.5	100	2.5	25	10	0.23	100	25
M06	49	172	3	1	100	3	8	29	479	1	12.1	89	2.5	25	10	0.22	100	25
M07	172	156	3	10	100	3	1	53	595	1	25.5	83	2.5	25	10	0.2	100	25
M08	128	18	3	12	100	3	1	40	377	1	15.2	47	2.5	25	10	0.25	100	25
M09	180	25	3	15	100	3	1	30	268	1	18	37	2.5	25	10	0.21	100	25
M10	188	3	3	38	480	3	1	36	337	4	27.6	81	2.5	25	10	0.19	100	25
M11	120	3	3	22	100	3	1	26	260	1	31	95	2.5	25	10	0.04	100	25
N03	215	34	3	9	560	3	8	32	677	1	15.6	182	2.5	25	10	0.32	100	25
N04	147	106	3	29	100	3	12	44	880	1	17.9	266	2.5	25	10	0.49	100	25
N05	138	67	3	7	290	3	1	22	444	1	9.04	111	2.5	25	10	0.28	100	25
N06	202	68	3	1	640	3	11	34	405	1	12.2	72	2.5	25	10	0.29	100	25
N07	16	161	3	7	100	3	4	37	430	1	17.8	52	2.5	25	10	0.24	100	25
N08	259	17	3	10	100	3	6	43	326	1	16.6	27	2.5	25	10	0.24	100	25
N09	32	74	3	9	100	3	1	34	417	1	18.3	83	2.5	25	10	0.29	100	25
N10	242	3	3	14	100	3	5	41	290	1	19.7	41	2.5	25	10	0.21	100	25
N11	266	3	3	18	100	3	1	28	245	1	19.9	62	2.5	25	10	0.14	206	25
N12	270	3	3	18	100	3	3	64	355	1	30.2	53	2.5	25	10	0.23	100	25
O03	177	24	3	14	100	3	9	27	650	1	13.5	161	2.5	25	10	0.29	100	25
O04	8	197	3	10	6000	3	1	37	1110	1	18.1	496	2.5	25	10	0.41	100	25
O05	272	61	3	5	100	3	7	32	391	1	12.2	70	2.5	25	10	0.36	451	25
O06	207	56	3	1	100	3	1	33	358	1	10.6	54	2.5	25	10	0.3	344	25
O07	182	78	3	13	100	3	5	52	473	1	22	53	2.5	25	10	0.29	100	25
O08	212	743	3	11	100	3	1	44	462	1	24.9	69	2.5	25	10	0.2	100	25
O09	246	8	3	9	100	3	1	28	313	1	18.3	44	2.5	25	10	0.2	100	25
O10	162	13	3	7	100	3	6	38	303	1	13.7	31	2.5	25	10	0.25	100	25
O11	221	3	3	12	100	3	5	45	315	1	18.2	39	2.5	25	10	0.17	100	25
O12	65	3	3	10	100	3	5	41	330	1	19	68	2.5	25	10	0.2	100	25
P03	37	117	3	10	100	3	19	31	895	1	15.9	283	2.5	25	10	0.33	829	25
P04	28	326	3	12	100	3	8	41	1090	1	16.1	417	2.5	25	10	0.29	565	25
P05	206	3	3	1	100	3	1	35	401	1	12	72	2.5	25	10	0.41	100	25
P06	268	49	3	10	100	3	11	32	403	1	13.5	83	2.5	25	10	0.41	100	25
P07	48	61	3	1	100	3	8	26	408	1	10.3	92	2.5	25	10	0.27	100	25
P08	247	151	3	6	100	3	1	28	511	1	15.8	205	2.5	25	10	0.43	100	25
P09	154	251	3	10	100	3	6	29	324	1	18.3	32	2.5	25	10	0.24	100	25
P10	157	86	3	4	100	3	5	49	323	1	11.5	24	2.5	25	10	0.37	100	25
P11	123	3	3	5	100	3	1	49	270	1	9.6	13	2.5	25	10	0.24	100	25
P12	62	3	3	6	100	3	4	58	246	1	14.2	24	2.5	25	10	0.22	100	25
P13	10	3	3	8	100	3	6	45	300	1	16.1	43	2.5	25	10	0.22	100	25
Q02	72	20	3	13	2900	3	1	35	601	1	14.8	259	2.5	25	31	0.51	100	25
Q03	200	106	3	104	4600	3	9	43	1180	1	23.5	193	2.5	25	10	0.21	100	25
Q03A	129	54	3	1	2900	3	8	34	738	1	12.7	287	2.5	25	10	0.36	100	25

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Field	Lab	Au_ppb	Ag_ppm	As_ppm	Ba_ppm	Br_ppm	Ca_%	Co_ppm	Cr_ppm	Cs_ppm	Fe_%	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Na_%	Ni_ppm	Rb_ppm
Q04	257	3	3	10	100	3	1	26	595	4	14.8	195	2.5	25	10	0.32	100	25
Q05	203	34	3	1	100	3	6	31	384	1	11	73	2.5	25	10	0.33	100	25
Q06	108	47	3	1	100	3	9	30	465	1	11.4	112	2.5	25	10	0.3	100	25
Q07	17	362	3	11	100	3	1	33	662	1	15.6	167	2.5	25	10	0.35	100	25
Q08	156	28	3	9	100	3	1	29	538	1	13.2	122	2.5	25	10	0.29	100	25
Q09	96	70	3	10	100	3	1	30	425	1	13.8	86	2.5	25	10	0.27	100	25
Q10	275	931	3	8	400	3	1	49	383	1	22.6	46	2.5	25	10	0.35	100	25
Q11	58	3	3	6	100	3	6	43	300	1	13.2	42	2.5	25	10	0.29	100	25
Q12	97	3	3	1	100	3	6	59	240	1	13	14	2.5	25	10	0.19	100	25
Q13	263	3	3	7	100	3	5	40	327	1	15.6	18	2.5	25	10	0.23	100	25
R02	253	3	3	4	3300	3	1	37	660	1	14.8	241	2.5	25	10	0.39	100	25
R03	15	85	3	1	100	3	1	28	623	1	15.4	271	2.5	25	10	0.26	100	25
R04	199	60	3	1	100	3	8	37	790	1	17.2	270	2.5	25	10	0.41	100	25
R05	219	80	3	15	100	3	1	28	733	1	14.6	223	2.5	25	10	0.33	100	25
R06	164	3	3	11	790	3	1	33	753	1	11	247	2.5	25	10	0.38	100	25
R07	134	13	3	1	100	3	6	30	594	1	12.5	148	2.5	25	10	0.31	100	25
R08	24	3	3	6	100	3	1	36	573	1	14.7	194	2.5	25	10	0.45	100	96
R09	201	13	3	1	100	3	10	41	472	1	17.5	52	2.5	25	10	0.59	100	25
R10	151	15	3	6	100	3	1	38	441	1	21.2	58	2.5	25	10	0.34	100	25
R11	213	9	3	17	100	3	8	121	849	1	20	84	2.5	25	10	0.44	100	25
R12	194	15	3	4	100	3	5	63	256	1	12.6	12	2.5	25	10	0.15	100	25
R13	192	3	3	4	100	3	1	64	238	1	14.2	11	2.5	25	10	0.21	351	25
R14	171	28	3	4	100	3	1	54	280	1	13.5	14	2.5	25	10	0.23	100	25
R15	74	3	3	8	100	3	6	49	370	1	16.4	62	2.5	25	10	0.23	100	25
S01	75	31	3	70	4300	3	1	41	444	1	22	151	2.5	25	10	0.25	100	25
S02	45	200	3	13	2400	3	1	33	944	1	21.2	387	2.5	25	10	0.37	100	25
S03	112	17	3	28	2300	3	1	40	517	1	14.4	176	2.5	25	10	0.34	100	25
S04	79	58	3	1	100	3	11	24	603	1	10.2	219	2.5	25	10	0.22	100	25
S05	89	3	3	22	100	3	1	36	570	1	15.2	232	2.5	25	10	0.33	100	25
S06	53	67	3	1	100	3	1	79	712	1	16.1	225	2.5	25	10	0.34	100	25
S07	224	31	3	20	100	3	1	38	700	1	17	216	2.5	25	10	0.3	100	25
S08	81	3	3	7	100	3	9	40	777	1	17	266	2.5	25	10	0.5	100	25
S09	249	3	3	6	100	3	10	74	777	1	33.6	243	2.5	25	10	0.49	100	25
S10	55	154	3	12	900	3	1	30	323	1	14.4	54	2.5	25	10	0.41	100	25
S11	84	13700	3	50	100	3	1	58	585	1	15.7	84	2.5	25	10	0.53	100	25
S12	116	3	3	4	100	3	8	43	440	1	13	37	2.5	25	10	0.36	100	59
S13	146	3	3	1	100	3	3	88	250	1	18.8	26	2.5	25	10	0.18	100	25
S14	80	78	3	5	100	3	6	56	200	1	16.4	19	2.5	25	10	0.16	100	25
S15	187	6	3	6	100	3	1	45	332	1	15.9	30	2.5	25	10	0.24	100	25
S16	256	3	3	1	100	3	5	51	342	1	16	20	2.5	25	10	0.27	100	25
T01	71	69	3	13	2100	3	8	33	600	1	17.8	173	2.5	25	10	0.32	100	25
T02	144	202	3	8	4300	3	1	28	773	1	13.1	282	2.5	25	10	0.32	100	25

Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Au_ppb	Ag_ppm	As_ppm	Ba_ppm	Br_ppm	Ca_%	Co_ppm	Cr_ppm	Cs_ppm	Fe_%	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Na_%	Ni_ppm	Rb_ppm
T03	254	36	3	1	4700	3	14	34	653	1	20.9	215	2.5	25	10	0.36	100	25
T04	265	3	3	1	100	3	1	33	628	1	18.7	229	2.5	25	10	0.38	457	25
T05	88	3	3	8	100	3	1	30	651	1	13.8	337	2.5	25	10	0.34	626	25
T06	140	92	3	1	850	3	1	22	551	1	10.7	175	2.5	25	10	0.21	100	25
T07	117	40	3	11	100	3	7	28	622	1	10.9	172	2.5	25	10	0.3	100	25
T08	85	370	3	5	100	3	1	26	670	1	12.8	214	2.5	25	10	0.35	100	25
T09	67	893	3	20	1700	3	4	39	491	1	14.4	161	2.5	25	10	0.39	100	25
T10	27	3	3	1	100	3	14	29	113	1	8.25	19	2.5	25	10	0.73	100	25
T11	33	340	3	43	100	3	1	75	318	1	26.8	106	2.5	25	26	0.45	100	25
T11-2	260	96	3	23	940	3	1	51	312	1	23.2	75	2.5	25	36	0.59	100	159
T12	216	3	3	1	100	8	9	38	248	1	11.1	39	2.5	25	10	0.57	100	25
T14	208	3	3	1	100	3	5	42	379	1	7.62	17	2.5	25	10	0.3	100	25
T15	59	3	3	5	100	3	4	69	190	1	16.8	14	2.5	25	10	0.26	100	25
T16	25	3	3	1	100	3	7	100	490	1	20.3	16	2.5	25	10	0.44	100	25
U02	235	3	3	1	100	3	1	35	475	1	14.7	169	2.5	25	10	0.39	100	25
U03	191	96	3	1	660	3	1	33	651	1	15.7	252	2.5	25	10	0.32	100	113
U04	83	3	3	1	6100	3	1	28	605	1	12.8	250	2.5	25	10	0.26	100	25
U05	54	3	3	1	100	3	5	20	390	1	8.32	150	2.5	25	10	0.21	100	25
U08	234	84	3	55	100	3	9	53	703	1	20.5	156	2.5	25	10	0.32	100	25
U09	31	515	3	6	100	3	10	35	680	1	16.6	235	2.5	25	10	0.41	100	25
U10	135	33	3	5	100	3	9	27	268	1	9.76	90	2.5	25	10	0.38	100	25
U11	205	138	3	1	100	3	9	35	432	1	16.1	89	2.5	25	34	0.61	100	25
V02	70	53	3	5	100	3	1	30	598	1	14.8	239	2.5	25	10	0.38	100	25
V03	231	3	3	1	100	3	10	29	548	1	13.4	217	2.5	25	10	0.35	100	25
V04	50	3	3	1	100	3	1	35	607	1	14	248	2.5	25	10	0.27	100	25
V06	227	19	3	1	100	3	1	34	633	1	15.3	200	2.5	25	10	0.4	100	25
V07	36	45	3	12	100	3	10	37	770	1	14.7	320	2.5	25	10	0.39	100	25
V08	238	30	3	5	100	3	14	36	635	5	14.2	212	2.5	25	10	0.43	100	25
V09	178	73	3	87	100	3	1	26	183	1	8.78	28	2.5	25	10	0.42	100	25
W02	104	3	3	1	500	3	6	26	504	1	10.7	187	2.5	25	10	0.36	100	25
W03	102	678	3	10	2400	3	15	30	640	1	11.2	252	2.5	25	10	0.36	100	25
W04	175	36	3	13	100	3	1	27	724	1	12.9	220	2.5	25	10	0.33	100	25
W05	100	42	3	1	100	3	5	24	513	1	11.1	191	2.5	25	10	0.26	100	25
W06	196	67	3	12	100	3	1	32	645	1	15.8	223	2.5	25	10	0.36	100	25
X01	43	37	3	1	100	3	1	37	1080	1	17.9	439	2.5	25	10	0.33	100	25
X02	243	32	3	1	100	3	1	43	496	1	18.5	194	2.5	25	10	0.4	100	25
X03	274	82	3	1	1200	3	1	35	554	1	16.9	240	2.5	25	10	0.41	100	25
X04	110	74	3	19	390	3	1	37	564	1	12	237	2.5	25	10	0.41	100	25
X05	244	3	3	20	100	3	10	34	530	1	16.9	290	2.5	25	10	0.05	100	25
Y05	42	148	3	1	100	3	8	28	260	1	10.5	64	2.5	25	10	0.44	100	25

Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Au_ppb	Ag_ppm	As_ppm	Ba_ppm	Br_ppm	Ca_%	Co_ppm	Cr_ppm	Cs_ppm	Fe_%	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Na_%	Ni_ppm	Rb_ppm
Z01	109	3	3	10	100	3	11	27	433	1	10.3	190	2.5	25	10	0.35	100	25
Z02	160	184	3	12	100	3	9	31	388	1	9.2	159	2.5	25	10	0.31	100	25
Z03	223	105	3	34	100	3	11	55	510	1	17.4	114	2.5	25	10	0.36	100	25
Z04	141	3	3	1	100	3	4	32	420	1	12.6	80	2.5	25	10	0.28	100	25
Z05	161	3	3	5	100	3	6	40	376	1	10.9	44	2.5	25	10	0.31	100	25
Z06	176	1490	3	20	100	3	7	50	850	1	17	207	2.5	25	10	0.22	100	25
Z07	63	3	3	5	100	3	6	32	1300	1	9.84	65	2.5	25	10	0.31	100	25
Z08	258	3	3	6	100	3	6	56	706	1	17.1	65	2.5	25	10	0.44	100	25
Z09	239	3	3	5	100	3	6	49	576	1	11.6	37	2.5	25	10	0.36	628	25
Z10	26	3	3	1	100	3	1	24	421	1	14.9	138	2.5	25	10	0.27	100	25
Z11	262	55	3	1	100	3	7	34	226	1	14	64	2.5	25	10	0.44	100	25
Z12	76	37	3	1	100	3	9	30	220	1	12.3	98	2.5	25	10	0.4	100	25
Z13	159	221	3	1	100	3	6	32	277	1	14.1	96	2.5	25	10	0.46	100	25
Z14	52	62	3	1	100	3	8	22	270	1	11	110	2.5	25	10	0.31	100	25
Z15	30	3	3	4	100	3	7	25	270	1	10	83	2.5	25	10	0.42	100	25
Z16	214	49	3	1	100	3	1	41	330	1	18.3	122	2.5	25	10	0.41	100	25
Z17	252	23	3	14	100	3	5	37	311	1	14.7	115	2.5	25	10	0.4	100	25
Z18	69	3	3	3	740	3	9	62	250	1	11.6	7	2.5	25	10	0.22	100	25
Z19	122	3	3	1	100	3	5	67	330	3	12.2	7	2.5	25	10	0.24	100	25
Z20	115	3	3	7	100	3	7	58	257	1	9.12	8	2.5	25	10	0.27	100	25
92TCA	95	79	3	1	100	3	8	29	470	1	11.7	120	2.5	25	10	0.31	100	25
92TCA	114	129	3	1	100	3	4	27	721	1	12.6	119	2.5	25	10	0.31	100	25
92TCA	197	252	3	9	100	3	7	36	591	1	13.1	104	2.5	25	10	0.34	100	25



Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Au_ppb	Ag_ppm	As_ppm	Ba_ppm	Br_ppm	Ca_%	Co_ppm	Cr_ppm	Cs_ppm	Fe_%	Hf_ppm	Hg_ppm	Ir_ppb	Mo_ppm	Na_%	Ni_ppm	Rb_ppm
Z08	258	3	3	6	100	3	6	56	706	1	17.1	65	2.5	25	10	0.44	100	25
Dup258	276	3	3	1	100	3	1	45	604	1	12.9	61	2.5	25	10	0.4	100	25
P11	123	3	3	5	100	3	1	49	270	1	9.6	13	2.5	25	10	0.24	100	25
Dup123	277	3	3	4	100	3	1	48	271	1	12.7	15	2.5	25	10	0.28	100	25
Z14	52	62	3	1	100	3	8	22	270	1	11	110	2.5	25	10	0.31	100	25
Dup052	278	23	3	1	690	3	8	31	334	5	14.2	97	2.5	25	10	0.44	100	25
R12	194	15	3	4	100	3	5	63	256	1	12.6	12	2.5	25	10	0.15	100	25
Dup194	279	3	3	1	100	3	5	62	262	1	13.8	11	2.5	25	10	0.17	100	25
L10	99	3	3	11	100	3	6	39	290	1	16.6	67	2.5	25	10	0.16	100	25
Dup099	280	21	3	10	100	3	1	43	310	1	17.7	39	2.5	25	10	0.22	100	25
P13	10	3	3	8	100	3	6	45	300	1	16.1	43	2.5	25	10	0.22	100	25
Dup010	281	3	3	6	100	3	5	43	279	1	16.3	29	2.5	25	10	0.24	100	25
T14	208	3	3	1	100	3	5	42	379	1	7.62	17	2.5	25	10	0.3	100	25
Dup208	282	17	3	1	100	3	7	46	414	1	10.3	20	2.5	25	10	0.38	100	25
Z18	69	3	3	3	740	3	9	62	250	1	11.6	7	2.5	25	10	0.22	100	25
Dup069	283	33	3	1	660	3	6	54	203	1	10.7	8	2.5	25	10	0.23	100	25
Z13	159	221	3	1	100	3	6	32	277	1	14.1	96	2.5	25	10	0.46	100	25
Dup159	284	3	3	1	100	3	6	35	253	1	14.2	71	2.5	25	10	0.48	100	25
L06E	40	23	3	6	100	3	4	44	390	1	17.1	53	2.5	25	10	0.2	100	25
Dup040	285	3	3	6	100	3	5	41	377	1	16.9	28	2.5	25	10	0.22	100	25
N10	242	3	3	14	100	3	5	41	290	1	19.7	41	2.5	25	10	0.21	100	25
Dup242	286	12	3	14	100	3	4	36	251	1	17.6	40	2.5	25	10	0.2	100	25
H09	271	3	3	8	100	3	4	41	325	1	15.9	35	2.5	25	10	0.18	100	25
Dup271	287	3	3	6	100	3	4	42	316	1	16.7	25	2.5	25	10	0.19	100	25
S13	146	3	3	1	100	3	3	88	250	1	18.8	26	2.5	25	10	0.18	100	25
Dup146	288	3	3	4	100	3	4	70	213	1	17.1	15	2.5	25	10	0.17	281	25
O11	221	3	3	12	100	3	5	45	315	1	18.2	39	2.5	25	10	0.17	100	25
Dup221	289	3	3	11	100	3	1	46	304	1	18.2	34	2.5	25	10	0.19	100	25

Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Sb_ppm	Sc_ppm	Se_ppm	Sr_%	Ta_ppm	Th_ppm	U_ppm	W_ppm	Zn_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm
A02	168	3.6	64.7	10	0.1	17	174	24.3	2	347	453	808	369	53.4	9.3	8	32.5	4.97
A03	68	5.3	64	10	0.1	16	141	26.4	2	100	366	728	228	43.4	6.9	7	30	4.56
A04	35	1.4	69.1	10	0.1	12	148	25.4	2	316	295	552	251	44.3	8.4	1	29.6	4.5
A05	38	5.1	73.4	10	0.1	15	149	35.7	2	100	330	826	243	51.8	8.4	8	34.9	5.67
A06	209	1.6	61.2	10	0.1	17	125	28.3	2	100	380	640	234	43.6	7.6	6	29.7	4.56
A07	255	2.5	95.6	10	0.2	14	188	40	2	100	530	940	331	62.6	9.3	9	38.1	6.32
A08	119	2.1	73.8	10	0.1	1	189	29.4	2	100	415	721	316	57.8	9.4	8	35.7	5.86
A09	241	2.6	74.6	10	0.1	11	153	26.9	2	100	387	605	220	46.8	7.9	8	28.2	4.17
A10	133	4.6	84.2	10	0.2	19	250	45.8	2	100	742	1130	400	83.7	12.8	11	41.7	6.15
A11	5	2.6	42.2	10	0.1	17	196	31.4	2	289	558	844	300	54.6	8.6	7	30.2	4.56
A12	126	7.5	75	10	0.1	13	331	39.6	2	100	684	952	468	95.4	13.1	10	41.5	6.58
A13	137	4.8	61.1	10	0.1	16	306	75	2	2290	1010	1680	781	139	18.3	17	107	15.8
B02	118	2.8	70.2	10	0.1	1	249	30.6	2	100	456	812	337	61.8	9.6	1	36.9	6.01
B03	82	9.8	85.1	10	0.1	16	198	40	2	433	544	903	344	66.9	10.4	10	47.5	6.94
B04	91	1.7	67.2	10	0.1	15	134	33.6	2	100	315	799	230	48.8	8.8	7	37.4	5.61
B05	240	6	68.3	10	0.1	9	136	27.7	2	100	365	584	214	41.8	6.3	7	22.6	3.54
B06	153	1.7	76	10	0.1	13	135	29.6	2	100	409	873	284	51.9	9.7	8	32.7	5.12
B07	233	0.1	83.4	10	0.1	15	262	44.2	2	360	510	1050	469	76.9	10.7	6	41.4	5.86
B08	245	3	100	10	0.1	17	190	36.7	2	100	496	858	301	58.6	8.4	1	40.1	6.74
B09	98	2.8	60.6	10	0.1	10	131	29.6	2	100	320	579	303	45.1	8.9	8	29.7	4.48
B10	11	2.6	47.6	10	0.1	13	162	32.6	2	100	460	749	276	49.7	9.2	8	36	5.16
B11	56	3.8	59.4	10	0.1	18	240	30.7	2	100	615	994	353	69.2	10.4	12	32.3	5.03
B12	173	6.1	59.1	10	0.1	19	287	73.4	2	768	580	1190	547	98.1	17.5	12	92.7	14.4
C02	189	2.5	73.3	10	0.1	17	140	26.1	2	100	297	582	212	43.6	7.2	8	31.3	4.79
C03	51	1.7	72.1	10	0.1	17	202	24.4	2	100	375	757	342	55.6	8.7	1	32.8	4.91
C04	6	0.9	36	10	0.1	9	92.3	20.6	2	100	250	489	149	26.7	5.2	5	20.5	3.07
C05a	93	0.1	66.6	10	0.1	17	132	31.1	2	100	298	758	229	47.6	8.2	9	36.7	5.61
C05b	46	0.1	84.4	10	0.1	10	153	21	2	100	307	614	204	48	7.7	8	24.1	3.22
C06	237	12.8	67.7	10	0.1	18	140	35.4	2	100	437	706	259	53.3	8.7	10	34	5.12
C07	145	1.7	74.3	10	0.1	17	152	29.3	2	100	451	884	293	52.2	8.9	8	33.9	5.56
C08	136	1.5	63.7	10	0.1	21	181	35.1	2	100	472	840	383	59.3	9.6	9	34.9	5.64
C09	131	2.7	53.8	10	0.1	9	112	22.8	2	100	284	574	173	33.3	5.5	5	21.8	3.59
C10	210	3.4	74.4	10	0.1	16	177	30.4	2	225	491	787	241	44.7	7	6	28.1	4.42
C11	169	4.5	100	10	0.1	23	437	78	2	100	1100	1240	842	121	16.9	19	72.3	9.86
C12	166	8.5	92.3	10	0.1	17	335	58.3	2	100	848	1340	483	95.7	12.7	7	53.9	8.93
D02	143	2	73.5	10	0.1	13	151	24.7	2	225	338	633	308	48.9	9.6	6	33	5.36
D03	149	0.1	60.7	10	0.1	13	171	29.5	2	100	321	602	291	47.3	9.3	5	30.4	4.9
D04	9	1.1	32.9	10	0.1	7	77.6	14.6	2	100	201	405	116	22.7	4.5	4	16	2.55
D05	106	3.8	46.6	10	0.1	7	105	17.5	2	100	222	558	174	33.5	6.1	4	21.3	3.32
D06	3	2.5	37.7	10	0.1	9	92.3	16.8	2	100	273	424	156	26.6	4.8	5	17.3	2.41
D07	14	1.6	59.3	10	0.1	1	166	35.4	2	100	445	921	282	48.3	8.9	5	35.8	5.85
D08	230	13.2	56.4	10	0.1	11	115	22.3	2	247	379	559	191	39	6.5	7	23.7	3.41

## Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Sb_ppm	Sc_ppm	Se_ppm	Sr_%	Ta_ppm	Th_ppm	U_ppm	W_ppm	Zn_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm
D09	139	6.9	101.6	10	0.1	1	182	44.1	2	524	564	890	293	66.8	10.6	8	34.5	5.41
D10	127	3.2	46	10	0.1	13	107	21.2	2	100	232	410	173	34.4	5.8	1	23.7	3.82
D11	39	6.4	89.7	10	0.1	24	307	46.1	2	475	622	1240	413	84.4	11.5	9	43.3	6.25
D12	225	10.3	70.7	10	0.1	17	259	41.3	2	100	691	992	351	68.9	10.8	13	40.3	6.23
E02	92	1.2	70	10	0.1	13	147	27.8	2	100	267	703	225	44.7	8.5	6	31.2	4.67
E03	190	2.7	83.2	10	0.1	15	182	29.1	2	100	340	723	337	55.5	9.8	8	38.2	5.78
E04	186	3.2	77.2	30	0.1	1	156	30.4	2	312	456	508	311	52.1	8.8	6	29.1	4.59
E05	61	0.1	71.6	23	0.1	14	158	29.2	2	100	471	735	235	51.5	7.7	6	29	4.16
E06	12	2.3	75.4	10	0.1	25	194	40.5	2	100	498	904	378	60.7	12.4	7	39.8	6.39
E07	195	4.6	54.1	10	0.1	12	115	24.6	2	100	250	499	183	34.8	5.7	6	23.7	3.76
E08	113	2.2	73.6	10	0.1	22	184	37.6	2	100	421	728	285	57.3	9.8	8	39.2	6.09
E09	181	0.1	57.7	10	0.1	9	112	19.7	2	100	295	328	213	35.1	5.9	1	17.9	2.64
E10	101	0.1	59.2	10	0.1	15	180	21.4	2	100	381	682	276	49.7	7.4	5	23.5	3.37
E11	167	4.3	64.8	10	0.1	16	214	37.9	2	100	578	603	372	59.3	8.7	11	33.5	5.08
F02	185	0.1	71.2	10	0.1	13	160	29.3	2	100	378	560	430	49	8.9	7	34.1	5.27
F03	198	0.1	77.3	10	0.1	20	192	33.8	2	100	392	816	336	60.1	9.9	8	41	6.15
F04	211	2.6	50.9	10	0.1	9	90.6	21.5	2	239	272	490	149	29.7	5.7	5	20.2	3.02
F05	142	1.8	69.6	10	0.1	22	165	29.3	2	100	404	723	332	56.9	10.6	6	36.4	5.58
F06	57	5.9	58.9	10	0.1	9	119	21.8	2	391	335	531	183	38.7	6.3	4	21.5	3.06
F07	64	2.6	67.6	10	0.1	17	137	28.3	2	100	412	653	243	47.7	8.4	9	28	3.96
F08A	269	1.6	74.4	10	0.1	10	131	22.1	2	310	349	535	194	41.9	7.5	1	23.1	3.15
F08B	264	2.2	57.9	10	0.1	7	85.7	18.8	2	203	226	278	136	26.4	4.8	1	15.4	2.78
F09	229	9.8	44.9	10	0.1	13	123	25.6	2	100	375	583	225	43.1	6.7	7	28.5	4.33
F10	158	1.7	62.8	10	0.1	15	281	34.5	2	100	695	1330	431	77	10.9	6	39.4	6.14
G02	125	1.4	67.2	10	0.1	10	139	19.7	2	100	276	501	203	41.8	7.9	6	27	4.33
G03	94	2.6	64	10	0.1	10	142	28	2	100	278	709	212	44.4	7.8	8	29.8	4.39
G04	163	1.6	66.2	10	0.1	1	155	31.9	2	100	424	844	235	46.6	7.4	1	30.1	4.99
G05	236	4.7	68	10	0.1	16	167	26.1	2	100	466	753	295	57.8	7.8	1	33.6	4
G06	90	1.9	67.7	10	0.1	19	169	37.6	2	100	465	961	284	56.1	9.9	9	39.9	6.38
G07	174	0.1	62.2	10	0.1	11	124	24.6	2	100	334	468	310	41.6	6.9	4	27.2	4.25
G08	193	2.3	74.8	10	0.1	12	149	35.7	2	100	355	735	274	53.6	8.7	1	37.7	5.93
G09	232	1.4	53.1	10	0.1	6	81.3	11.7	2	100	191	248	113	23.6	3.7	3	13.4	2.27
G10	22	3.1	32.8	10	0.1	5	28	5.5	2	100	75	140	73	13	2.5	1	10.5	1.62
H02	222	2.1	63.5	10	0.1	11	136	21.6	2	100	390	630	214	41.5	7.1	5	25	3.94
H03	179	2.8	87.7	10	0.1	19	224	40.5	2	326	570	1120	471	80.6	12.7	7	48.1	7
H04	105	0.1	64.6	10	0.1	15	138	30.6	2	345	332	650	290	48.2	9.1	5	28	4.47
H05	124	0.9	65.1	21	0.1	14	139	30.2	2	100	294	538	256	45.2	8.2	1	29.5	4.89
H06	77	8.6	73	10	0.1	10	140	20.2	2	100	363	556	209	42.4	7	7	22.8	3.36
H07	170	2	81.7	10	0.1	1	269	42	2	296	739	798	276	78.7	11.5	1	44.6	6.31
H08	132	1.9	70.8	10	0.1	1	117	25.4	2	100	330	662	220	40.3	7.1	6	26.3	4.31
H09	271	1.8	40.5	10	0.1	4	17.1	5.2	2	100	54	84	26	7.7	1.6	1	6.6	1.23
H10	7	2.6	36	10	0.1	3	20	5.5	2	100	58	110	56	12	2.3	3	9.9	1.48

Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Sb_ppm	Sc_ppm	Se_ppm	Sr_%	Ta_ppm	Th_ppm	U_ppm	W_ppm	Zn_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm
I02	34	5.6	75.8	10	0.1	12	164	33.2	2	100	362	906	297	56.4	9.9	7	34	5.32
I03	87	7	70.4	25	0.1	13	110	28.3	2	321	342	562	228	42.6	8.2	7	24.8	3.43
I04	165	1.8	74.3	10	0.1	1	145	28.2	2	100	379	747	233	45.2	8.2	8	29	4.57
I05	217	1	67.3	10	0.1	9	116	18.1	2	100	284	475	175	35.4	5.9	6	19.1	2.97
I06	13	1.5	48.7	10	0.1	10	107	17	2	100	288	441	155	28.2	4.8	5	16.1	2.47
I07	86	1.5	58.8	10	0.1	13	117	21.4	2	100	323	648	187	39	6.4	6	25.2	3.89
I08	73	1.3	46	10	0.1	8	78.6	12.1	2	249	178	336	118	20.1	4.5	5	11.2	1.54
I09	60	1.6	36.8	10	0.1	9	45	8.4	2	100	128	240	93	17.6	3.4	1	12.2	2.22
I10	155	4.8	76.3	10	0.1	12	103	22	2	237	289	465	151	34.1	5.8	1	18.8	2.68
J02	66	0.1	79.8	10	0.1	15	146	24.2	2	212	410	672	269	50.4	9.3	8	27.3	3.9
J03	47	2.6	82.5	10	0.3	18	164	34.3	27	331	356	755	351	60.2	11.1	7	38.1	5.74
J04	103	1.5	64.8	10	0.1	13	139	31	2	100	302	791	242	45.8	8	5	29.2	4.64
J05	226	4.6	71.3	10	0.1	12	120	19.8	2	100	336	523	182	38.3	6.9	8	20.1	3.03
J06	183	0.1	56.6	10	0.1	7	99.6	16.1	2	100	273	373	280	33.1	5.2	4	21.5	3.34
J07	204	2.4	45.3	10	0.1	10	102	12.1	2	100	228	361	114	25.1	4	4	12.8	2.33
J08	107	2	62.9	10	0.1	10	87.1	15.1	2	227	193	376	133	27.2	4.7	6	16.3	2.37
J09	130	5.2	66.7	10	0.1	8	85.8	17.9	2	100	252	380	146	27.9	4.8	1	16.4	2.43
J10	20	4.5	51	10	0.1	12	94.7	17.4	2	263	267	428	147	27.9	5.7	6	16.4	2.56
K02	273	3.2	65.7	10	0.1	11	133	18.2	2	100	364	599	161	41.8	7.7	4	23.8	3.38
K03	41	1.6	71.8	10	0.1	17	138	28.3	2	266	321	610	266	49.2	10.6	5	34.5	5.12
K04	250	2.4	72	10	0.1	27	144	36.6	2	100	492	848	315	62.4	7	1	35.2	4.42
K05	21	2.6	84.5	10	0.1	10	136	23.7	2	100	291	600	215	43.5	6.9	5	21.7	2.92
K06	261	2.1	46.2	10	0.1	7	37.9	7.1	2	100	95	133	55	13	2.6	1	6.7	1.29
K07	148	2.2	42.4	10	0.1	8	37	6.9	2	100	104	210	120	16	3.4	1	9.4	1.78
K08	121	2.4	32	10	0.1	7	20	5	8	100	50	100	43	8	1.9	1	5.6	1.1
K09	111	3.3	32	10	0.1	5	20	4.9	2	100	58	120	72	10.4	2.5	3	8.9	1.47
K10	228	3.8	54.2	10	0.1	9	74.7	14.3	2	100	194	254	108	24.6	4.7	4	15.6	2.49
L02	18	3.9	88.8	10	0.1	13	218	34.7	2	100	573	922	291	62.2	9.8	7	33.4	5.12
L03	251	2.3	91.2	30	0.1	17	172	35.6	2	100	445	790	257	54	9.1	8	31.4	5.39
L04	220	0.1	70.1	10	0.1	12	103	22	2	100	334	606	153	36.1	6.3	4	19.7	2.84
L05E	23	1.7	82.6	10	0.1	13	128	15.1	2	100	265	512	180	38.3	6.1	4	21.6	2.96
L05W	4	1.7	62.3	10	0.1	1	151	31.9	2	323	432	741	366	64.3	9.4	7	34.9	4.5
L06E	40	1.4	44.8	10	0.1	5	27	4	2	100	74	160	87	15	3	3	8.9	1.44
L06WA	218	0.1	74.2	10	0.1	11	129	12.4	2	100	349	611	193	35.9	6	4	16.9	2.64
L06WB	184	2.2	97.5	10	0.1	14	163	32.8	2	548	450	492	383	51.9	8.4	9	30	4.4
L07	44	2.5	34.4	10	0.1	10	46	5.9	2	100	120	210	91	19	3.4	1	11.3	1.77
L08	267	2.4	39.2	10	0.1	6	54.9	10.4	2	100	157	177	87	18.5	3.5	1	9.9	1.56
L09	19	2.9	28.8	10	0.1	5	16	4.4	2	100	47	91	59	10	2	3	8.4	1.28
L10	99	2	38.4	10	0.1	5	20	5.5	2	100	55	120	66	11.2	2.4	3	9	1.43
L11	150	3.6	49	10	0.1	5	21	4.9	2	213	59	110	57	10.4	2.4	1	9.1	1.73
M02	78	2	74.2	10	0.1	17	175	31.3	2	100	391	758	359	58.2	11.1	7	39.5	6.04
M03	152	1.1	77.6	10	0.1	17	154	32	2	100	393	856	272	53.1	9.7	9	39.7	6.02

Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Sb_ppm	Sc_ppm	Se_ppm	Sr_%	Ta_ppm	Th_ppm	U_ppm	W_ppm	Zn_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm
M04	248	1.8	82.2	10	0.1	13	139	32	2	100	380	792	286	51.3	9.2	8	32.1	4.98
M05	29	0.1	43.2	10	0.1	8	67	6.1	2	100	168	310	130	28	4.4	1	13.5	2.26
M06	49	0.1	48.4	10	0.1	9	82.7	9.2	2	100	176	339	127	19.6	4.1	4	9.5	1.55
M07	172	3.1	57	10	0.1	10	79.7	8.9	2	100	196	311	89	18.2	3.8	1	11.4	2
M08	128	2	45	10	0.1	5	42.7	6.3	8	100	103	246	70	16.9	3	1	9.8	1.49
M09	180	3.4	27.1	10	0.1	4	21.2	7.6	2	100	56	110	34	7.4	1.9	1	8.2	1.57
M10	188	8	32.1	10	0.1	7	46.7	17.1	2	100	110	218	110	23.1	4.1	6	18.4	2.8
M11	120	6.6	18.4	10	0.1	9	37	13	2	100	112	230	88	17.6	3.7	5	14.9	2.77
N03	215	1.6	78.2	10	0.1	13	128	26	2	100	266	540	258	44.2	8.1	5	26.5	4.15
N04	147	3.3	75.8	10	0.1	16	186	26.7	27	100	371	816	386	62.4	11.4	8	33	5.32
N05	138	0.8	56.7	10	0.1	7	86.9	14.2	2	100	217	415	125	24.8	4.3	1	15.8	2.35
N06	202	0.7	55.6	10	0.1	5	74.8	7.4	2	100	191	316	117	24.6	4.3	4	11.3	2.07
N07	16	1.6	37.6	10	0.1	7	45	0.3	2	100	112	220	88	19	2.9	3	9.9	1.58
N08	259	1.6	44.1	10	0.1	5	16.5	4.4	2	100	50	85	39	8.2	1.7	1	6.1	1.17
N09	32	3.5	43.2	10	0.1	9	55.3	8.5	2	100	122	286	93	18.9	3.4	1	10.7	1.62
N10	242	2.7	38.1	10	0.1	4	20	7.1	2	100	55	99	44	9.5	1.9	2	8.7	1.56
N11	266	4.3	21.8	10	0.1	8	29.7	11.6	2	100	84	129	44	12.1	2.5	3	11.7	2.16
N12	270	5.4	51	10	0.1	6	35.4	9.3	2	100	110	174	69	18	3.3	3	11.4	1.7
O03	177	0.1	62.7	10	0.1	9	117	17.6	2	100	312	445	340	39.1	6.9	7	22.4	3.49
O04	8	3.2	89.7	10	0.1	15	197	50.2	2	100	405	872	399	68.6	14.4	1	56.3	8.29
O05	272	0.4	56.4	10	0.1	7	60.7	10.3	2	227	168	211	98	21.5	4.1	3	9.9	1.83
O06	207	1.1	51.4	10	0.1	6	50	3.7	2	244	132	225	75	19.6	3.9	3	8.9	1.55
O07	182	2.4	55.8	10	0.1	1	54.9	5.6	2	100	141	251	101	15.2	3.2	1	8.9	1.44
O08	212	3.9	42.4	10	0.1	12	74	11.5	2	100	164	259	83	17.9	3.1	1	10.2	1.76
O09	246	1.3	31.2	10	0.1	7	54.9	7.9	2	100	130	207	72	16.5	2.5	3	8	1.58
O10	162	1	40.4	10	0.1	5	21.3	5.4	2	100	59	125	38	7.1	1.8	1	6.1	1.07
O11	221	2.2	42.6	10	0.1	4	17.1	8.1	2	100	48	89	33	8.6	1.8	1	8.1	1.5
O12	65	2.1	42.4	10	0.1	5	15	4.6	2	100	46	99	62	9.6	2.7	1	9.1	1.48
P03	37	1.4	77.3	10	0.1	1	144	28.7	2	100	317	621	224	47.7	7.9	5	25.6	3.67
P04	28	1.8	78.9	10	0.1	16	184	35.8	2	100	401	797	415	61.8	12	8	45.7	7.19
P05	206	1.2	56.4	10	0.1	5	60	10.1	2	272	152	260	99	22.2	4.2	3	10.5	1.71
P06	268	1	59.9	10	0.1	7	83.2	8.3	2	100	212	258	131	25.2	4.1	1	11.4	1.89
P07	48	0.8	48.3	10	0.1	7	87.7	12.5	2	100	185	359	123	20.9	4.3	3	10.2	1.65
P08	247	0.1	84.8	10	0.1	13	133	25	2	100	333	714	264	48.3	9	7	26.6	4.16
P09	154	0.1	34.4	10	0.1	9	51.2	6.2	2	100	118	245	75	11.5	2.4	1	5.4	0.89
P10	157	0.6	50.9	10	0.1	5	17.9	2.5	2	100	53	111	37	8.8	1.7	1	5.4	0.82
P11	123	0.1	42.8	10	0.1	3	5.9	1.6	2	100	16	32	15	4	0.9	1	3.3	0.59
P12	62	2.7	42.1	10	0.1	3	11.4	3.8	2	100	37	80	20	6.4	1.3	1	5.9	0.88
P13	10	1.5	46.4	10	0.1	3	13	0.3	2	100	40	85	39	10	2.2	1	8.4	1.22
Q02	72	1.3	72.4	10	0.1	13	158	27.4	2	100	302	651	345	56.6	11.5	6	31.8	4.59
Q03	200	5.2	48.1	10	0.1	10	101	22.6	2	100	233	466	187	33.8	6.3	6	23.7	3.65
Q03A	129	3.6	86.9	10	0.1	11	139	25.4	2	284	372	593	215	45.1	8.3	7	25.9	3.83

Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Sb_ppm	Sc_ppm	Se_ppm	Sr_%	Ta_ppm	Th_ppm	U_ppm	W_ppm	Zn_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm
Q04	257	0.1	77.6	10	0.1	14	107	18.9	2	100	276	591	162	37.8	6.7	6	23.9	3.73
Q05	203	0.1	49.8	10	0.1	6	65.3	7.6	2	100	148	263	84	21.5	4	4	9.5	1.78
Q06	108	1.2	54.4	10	0.2	7	99.4	15.8	2	261	198	370	145	23.8	5.1	4	11	1.53
Q07	17	3.2	66.8	10	0.1	10	135	24.4	2	100	372	584	192	39	7.6	5	21.3	2.99
Q08	156	1.3	59.6	10	0.1	12	167	18.2	2	100	408	766	218	44	5.6	7	18.5	2.98
Q09	96	0.1	50.8	10	0.1	9	93.3	12.1	2	209	199	359	121	21	4.1	1	10.2	1.74
Q10	275	0.8	60.9	10	0.1	1	64.2	7.3	2	100	180	321	119	25	3.7	1	9	1.28
Q11	58	0.7	40.8	10	0.1	4	23	2.5	2	100	71	160	110	15.2	3.5	3	6.4	1.12
Q12	97	0.1	44.8	10	0.1	2	2.2	0.3	2	100	16	39	25	4.7	1.1	1	3.5	0.65
Q13	263	0.9	56.5	10	0.1	3	9.5	2.9	2	100	33	60	19	5.3	1.1	1	4.5	0.71
R02	253	2	74.5	10	0.1	12	136	27.8	2	100	405	668	323	57.3	8.1	6	29.4	4.31
R03	15	2.6	61.5	10	0.1	10	163	28.6	2	100	405	647	248	44.6	7.9	6	25.1	3.62
R04	199	3.9	83.7	10	0.1	13	135	25.9	2	231	308	504	231	47.1	9.2	6	27.3	3.89
R05	219	0.1	71.7	10	0.1	10	111	25.6	2	100	333	642	224	43.6	7.6	6	21.5	3.37
R06	164	1.9	75.9	10	0.1	11	125	27.4	19	100	335	719	232	46.4	9.3	1	28.4	4.46
R07	134	0.1	59	10	0.1	11	124	24.4	2	100	246	456	170	28.7	5.8	5	13.8	1.91
R08	24	0.1	71.3	10	0.1	1	131	19.8	2	100	284	594	314	49.6	10.3	6	25.9	4.02
R09	201	1.7	60.7	10	0.1	1	106	0.3	2	100	269	458	262	52.5	9	6	12.7	1.8
R10	151	1.2	50.6	10	0.1	10	81.1	10.3	2	251	169	343	167	28.9	4.8	1	11.1	1.64
R11	213	0.1	81.9	10	0.1	12	129	12.3	2	257	240	510	257	43.7	8	5	17.8	2.6
R12	194	0.1	41	10	0.1	1	3.2	0.3	2	100	16	46	16	4.4	0.9	1	3.3	0.58
R13	192	0.1	41.9	10	0.1	1	3.3	1.7	2	100	13	41	14	3.3	0.8	1	3.7	0.68
R14	171	0.5	54.3	10	0.1	1	4	1.9	2	100	20	50	22	4	1.1	1	3.9	0.66
R15	74	1.5	52	10	0.1	7	21	4.1	2	100	59	130	90	11.2	2.8	2	8.9	1.64
S01	75	13.3	65.5	10	0.1	6	110	18.8	2	351	282	450	172	34	4.9	6	19.8	2.98
S02	45	2.2	87.6	10	0.1	23	300	49.8	2	100	529	1080	478	83.1	13.2	11	47.9	6.89
S03	112	4	68.2	10	0.1	8	117	21	2	362	249	342	164	36.4	7	6	19	2.95
S04	79	0.1	53.8	10	0.1	11	108	22.1	2	239	250	462	184	29.8	7	6	16.8	2.73
S05	89	1.6	73.8	10	0.1	14	159	29.7	2	100	388	806	239	49.6	7.8	6	29.5	4.17
S06	53	0.1	77.6	10	0.1	12	139	24.1	2	100	390	662	241	48.5	8.1	1	23.1	3.37
S07	224	0.1	66.6	10	0.1	12	122	22.7	2	100	360	640	196	43.3	7.7	1	26.5	3.98
S08	81	1.2	85.6	10	0.1	11	173	33.9	2	295	358	767	368	62.3	10.8	1	35.5	5.2
S09	249	4.7	90	10	0.1	14	152	25.1	2	100	1020	1700	307	63	8.7	8	30	3.46
S10	55	1.8	66.7	10	0.1	7	109	8.8	2	100	284	457	174	37.6	5.7	3	15.9	2.16
S11	84	4.1	54.9	10	0.1	8	285	16.8	2	100	539	1152	544	87	11.6	1	19.7	2.69
S12	116	0.5	48.8	10	0.1	4	25	2.4	2	100	88	220	140	19.2	4.8	3	6.7	1.33
S13	146	0.1	47.2	10	0.1	6	3	0.3	2	241	17	45	42	6.6	1	1	5	0.96
S14	80	0.4	40	10	0.1	5	4.1	2	2	100	14	46	5	3.8	0.9	1	3.4	0.55
S15	187	1.5	45.5	10	0.1	4	13.5	3.8	2	100	40	84	31	5.7	1.6	1	6.5	1.17
S16	256	0.8	68.8	10	0.1	1	10.9	0.3	2	100	33	75	24	6.6	1.5	1	5.5	0.83
T01	71	10.3	87.9	10	0.1	9	153	22.1	2	381	358	563	201	43.5	6.1	7	22.6	3.23
T02	144	1.7	83.1	10	0.1	13	159	32.6	2	100	397	833	270	49.7	8.7	1	34.1	5.08

Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Sb_ppm	Sc_ppm	Se_ppm	Sr_%	Ta_ppm	Th_ppm	U_ppm	W_ppm	Zn_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm
T03	254	0.1	104	10	0.1	13	158	23.1	2	100	386	663	224	48.9	6.9	9	28.7	4.91
T04	265	0.1	94.1	10	0.1	10	164	18.8	2	100	400	679	252	47.3	6.6	7	25.6	4.39
T05	88	3.2	77.3	10	0.1	12	177	36.8	2	238	457	715	243	50.4	7.8	9	28.9	4.43
T06	140	1.3	52.8	10	0.1	8	119	28.2	2	100	244	464	162	29	5.3	5	14.4	2.29
T07	117	0.1	64.4	10	0.1	6	121	19.4	2	100	250	457	212	39.5	6.8	6	24	3.66
T08	85	0.1	70.2	10	0.1	1	120	23.9	2	100	321	684	234	43.7	8	4	26.5	3.98
T09	67	2	63.7	10	0.1	11	117	22.6	8	100	235	490	247	42.7	8.1	6	22.3	3.48
T10	27	1.7	32.3	10	0.1	1	37.8	7.7	2	100	122	359	148	29.1	6	4	4.3	0.73
T11	33	2.2	74.1	10	0.1	18	445	38.7	30	100	738	1560	711	104	7.6	9	34.4	5.12
T11-2	260	0.1	91.8	10	0.1	12	236	0.3	2	100	493	901	302	58.1	5.2	7	23.7	3.85
T12	216	0.1	45.8	10	0.1	5	112	11.8	2	206	293	522	185	41.3	6.3	1	8.9	1.54
T14	208	0.1	39.2	10	0.1	1	7.3	0.3	2	100	37	95	35	8.6	2.4	1	3.9	0.6
T15	59	0.1	42.4	10	0.1	5	2.8	1.9	2	205	20	55	35	6	1.5	1	3.7	0.66
T16	25	0.1	92	10	0.1	3	14.9	0.3	2	100	30	98	48	9.5	2.3	1	7.8	1.2
U02	235	8.6	70.4	10	0.1	9	124	16.2	2	221	325	518	194	39.1	6.8	5	17.9	2.52
U03	191	0.1	75.4	10	0.1	13	162	30.5	2	100	307	663	278	49	7.8	1	29.5	4.73
U04	83	1.5	69.6	10	0.1	12	121	27.5	2	100	324	481	172	35.3	5.8	7	22.1	3.47
U05	54	1.3	44.8	10	0.1	6	99	19.2	2	100	202	380	119	24.1	5.4	4	12.2	1.73
U08	234	5.4	51.9	10	0.1	1	91.7	15.8	2	283	277	474	179	37.5	5.3	1	18	2.19
U09	31	1	79.2	10	0.1	13	163	28.9	2	100	342	756	379	59.7	11.3	6	31.4	4.78
U10	135	0.1	64.9	10	0.1	9	128	18.6	2	100	249	532	167	36.5	5.5	1	17	2.71
U11	205	0.1	103	10	0.1	8	339	24.5	2	100	634	1150	314	72.8	5.9	1	19.9	2.87
V02	70	1.8	80	10	0.1	10	170	25.1	2	232	418	682	236	48.8	7.5	9	23.9	3.7
V03	231	0.8	66.5	10	0.1	9	102	24.5	2	256	271	379	179	36	6.3	5	19.8	3.39
V04	50	0.1	68.2	10	0.1	9	123	22.6	2	100	306	475	157	33.4	5.8	7	21.2	3.2
V06	227	5.3	73.7	10	0.1	11	110	18.3	2	303	302	487	198	38.7	7.1	7	20.7	2.98
V07	36	3.8	74.7	10	0.1	17	128	26.4	2	100	279	748	245	48.3	8.9	9	29.4	4.39
V08	238	2.7	70.5	10	0.1	6	102	22	2	100	278	488	234	42.9	7.3	1	22.4	2.61
V09	178	0.8	47.4	10	0.1	5	14.6	5.2	2	100	48	139	56	10.8	3.8	2	10.1	1.7
W02	104	1.2	62.1	10	0.1	9	120	20.7	2	100	260	521	259	42.4	8.2	5	24.4	3.52
W03	102	0.1	70.4	10	0.1	15	139	23.7	2	100	270	714	227	45.1	8.9	8	28.7	4.36
W04	175	0.1	61.5	10	0.1	9	115	27	2	100	342	394	290	40	7.2	7	22.6	3.4
W05	100	0.1	54.6	10	0.1	10	114	18.7	2	100	235	437	151	27.4	5.9	5	14.4	2.16
W06	196	5.2	75.1	10	0.1	14	125	22.1	2	100	265	410	197	39	7.1	4	21	3.19
X01	43	2.9	88.5	10	0.1	13	160	30.6	2	100	378	798	265	54.8	10	8	33.6	4.89
X02	243	8	75.3	10	0.1	12	110	21.1	2	100	299	522	208	41.9	7.9	8	19.4	2.92
X03	274	0.1	80.6	10	0.1	9	146	23.1	2	322	379	648	228	49.9	9.5	5	22.4	3.36
X04	110	1.4	76.8	10	0.1	15	140	26	2	203	287	593	193	45.2	8	1	22.9	3.51
X05	244	0.1	79	10	0.1	12	130	15	2	100	370	690	380	64	11.5	7	33.1	3.42
Y05	42	0.1	46.4	10	0.1	4	54	8.1	2	100	144	280	140	29	5.2	1	14	1.97

Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Sb_ppm	Sc_ppm	Se_ppm	Sr_%	Ta_ppm	Th_ppm	U_ppm	W_ppm	Zn_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm
Z01	109	1.2	61.7	10	0.1	14	131	24.2	2	100	264	671	230	44.8	8.4	5	20.8	3.22
Z02	160	0.9	57.2	10	0.1	9	92.3	17.7	2	100	239	482	168	30.7	6	1	17.7	2.69
Z03	223	0.8	64.5	10	0.1	8	86.8	16.2	2	100	240	420	143	28.1	5.2	3	16.4	2.55
Z04	141	0.1	58.4	10	0.1	1	65	9.2	2	100	144	290	130	20.8	3.4	4	11.6	1.85
Z05	161	0.1	48.8	10	0.1	5	47.8	8.1	2	100	106	211	50	9.9	1.9	2	8.6	1.49
Z06	176	0.9	68.7	10	0.1	9	89.5	18	2	100	257	404	205	31.4	4.2	1	21.7	3.17
Z07	63	0.1	40.8	10	0.1	6	35	3.4	2	100	80	150	73	11.2	2.8	1	7.3	1.25
Z08	258	0.1	63	10	0.1	1	53.6	4.2	2	211	124	162	64	14	2.4	3	8.4	1.47
Z09	239	0.4	43.7	10	0.1	1	40.4	4.7	2	100	85	136	45	10	1.6	2	7.6	1.44
Z10	26	1.1	46.7	10	0.1	13	262	26.4	2	100	377	650	153	41.8	5.5	1	18.3	2.85
Z11	262	0.1	63.1	10	0.1	8	76.3	13.4	2	221	92	131	57	15.4	3.7	1	11.2	2.05
Z12	76	0.1	58.4	10	0.1	9	66	9.7	2	100	88	190	110	16.8	4.3	1	12.3	1.91
Z13	159	0.1	70.6	10	0.1	5	63.5	10.9	2	100	150	270	90	17.2	4.6	3	9.6	1.52
Z14	52	0.1	45.6	10	0.1	6	63	7.9	2	100	152	310	130	23.2	4.7	5	10.2	1.94
Z15	30	0.1	42.4	10	0.1	1	34	4	2	100	104	230	120	24	5.1	1	9.3	1.56
Z16	214	0.1	62.1	10	0.1	6	89.2	13.7	2	100	280	500	174	31.7	6.1	5	15	2.27
Z17	252	0.1	58.8	10	0.1	4	68.9	10.5	2	100	194	257	134	26.3	5.5	3	10.3	1.88
Z18	69	0.1	59.2	10	0.1	1	3	0.3	2	100	12	29	5	4.3	1.2	1	3.4	0.65
Z19	122	0.1	58.4	10	0.1	1	17	3.5	2	100	48	110	58	8.8	1.2	1	3.7	0.65
Z20	115	0.4	49.5	10	0.1	1	5.3	0.3	2	100	15	29	14	3.7	0.7	1	3.4	0.48
92TCA	95	0.9	53.6	10	0.1	7	67	8.7	2	100	168	320	150	23.2	5.1	6	14.1	2.21
92TCA	114	0.1	52.9	10	0.1	8	115	12.6	2	100	206	386	127	22.6	4.9	1	11.2	1.36
92TCA	197	1.2	60.2	10	0.1	12	106	12.4	2	235	218	365	134	25.8	4.1	1	13	2.38



Appendix. Geochemistry of the heavy mineral fraction; neutron activation

Field	Lab	Sb_ppm	Sc_ppm	Se_ppm	Sr_%	Ta_ppm	Th_ppm	U_ppm	W_ppm	Zn_ppm	La_ppm	Ce_ppm	Nd_ppm	Sm_ppm	Eu_ppm	Tb_ppm	Yb_ppm	Lu_ppm
Z08	258	0.1	63	10	0.1	1	53.6	4.2	2	211	124	162	64	14	2.4	3	8.4	1.47
Dup258	276	0.1	53	10	0.1	1	51.6	3.5	2	100	137	169	58	13.2	2.2	1	7.7	1.22
P11	123	0.1	42.8	10	0.1	3	5.9	1.6	2	100	16	32	15	4	0.9	1	3.3	0.59
Dup123	277	0.5	42.9	10	0.1	3	5.8	2.3	2	100	22	36	17	4	0.9	1	3.5	0.61
Z14	52	0.1	45.6	10	0.1	6	63	7.9	2	100	152	310	130	23.2	4.7	5	10.2	1.94
Dup052	278	1.1	61.9	10	0.1	7	77	10.1	2	217	195	240	115	24.4	4.7	1	9.8	1.75
R12	194	0.1	41	10	0.1	1	3.2	0.3	2	100	16	46	16	4.4	0.9	1	3.3	0.58
Dup194	279	0.1	43.9	10	0.1	4	3	1.6	2	100	17	33	15	4.2	1	1	3.3	0.54
L10	99	2	38.4	10	0.1	5	20	5.5	2	100	55	120	66	11.2	2.4	3	9	1.43
Dup099	280	2.2	48	10	0.1	1	17.9	6.7	9	100	54	109	30	8.4	1.9	1	8.4	1.32
P13	10	1.5	46.4	10	0.1	3	13	0.3	2	100	40	85	39	10	2.2	1	8.4	1.22
Dup010	281	1.1	50.3	10	0.1	1	13.2	4.1	2	100	40	76	29	6.6	1.6	1	5.9	0.98
T14	208	0.1	39.2	10	0.1	1	7.3	0.3	2	100	37	95	35	8.6	2.4	1	3.9	0.6
Dup208	282	0.1	52.3	10	0.1	1	7.4	0.3	2	100	44	108	42	9.2	2.3	1	3.8	0.58
Z18	69	0.1	59.2	10	0.1	1	3	0.3	2	100	12	29	5	4.3	1.2	1	3.4	0.65
Dup069	283	0.1	54.7	10	0.1	1	4.7	0.3	2	100	15	34	12	3.7	0.7	1	3.3	0.48
Z13	159	0.1	70.6	10	0.1	5	63.5	10.9	2	100	150	270	90	17.2	4.6	3	9.6	1.52
Dup159	284	0.1	72.3	10	0.1	5	52.2	9.8	2	100	136	198	87	17.8	3.6	3	9.4	1.33
L06E	40	1.4	44.8	10	0.1	5	27	4	2	100	74	160	87	15	3	3	8.9	1.44
Dup040	285	1.5	49.1	10	0.1	4	21.8	3.9	2	100	67	128	41	9.1	1.6	1	6.6	1.04
N10	242	2.7	38.1	10	0.1	4	20	7.1	2	100	55	99	44	9.5	1.9	2	8.7	1.56
Dup242	286	2.7	35.5	10	0.1	5	19.9	6.3	2	100	58	119	33	8.9	1.7	2	7.9	1.31
H09	271	1.8	40.5	10	0.1	4	17.1	5.2	2	100	54	84	26	7.7	1.6	1	6.6	1.23
Dup271	287	1.8	44.3	10	0.1	4	14.5	4.5	2	100	46	89	28	6.7	1.5	1	5.9	0.95
S13	146	0.1	47.2	10	0.1	6	3	0.3	2	241	17	45	42	6.6	1	1	5	0.96
Dup146	288	0.1	43.9	10	0.1	5	2.7	0.3	2	100	15	38	16	4.5	0.7	1	4	0.63
O11	221	2.2	42.6	10	0.1	4	17.1	8.1	2	100	48	89	33	8.6	1.8	1	8.1	1.5
Dup221	289	1.8	47.5	10	0.1	3	15.1	5.8	2	100	51	102	33	8.1	1.9	1	7.6	1.19