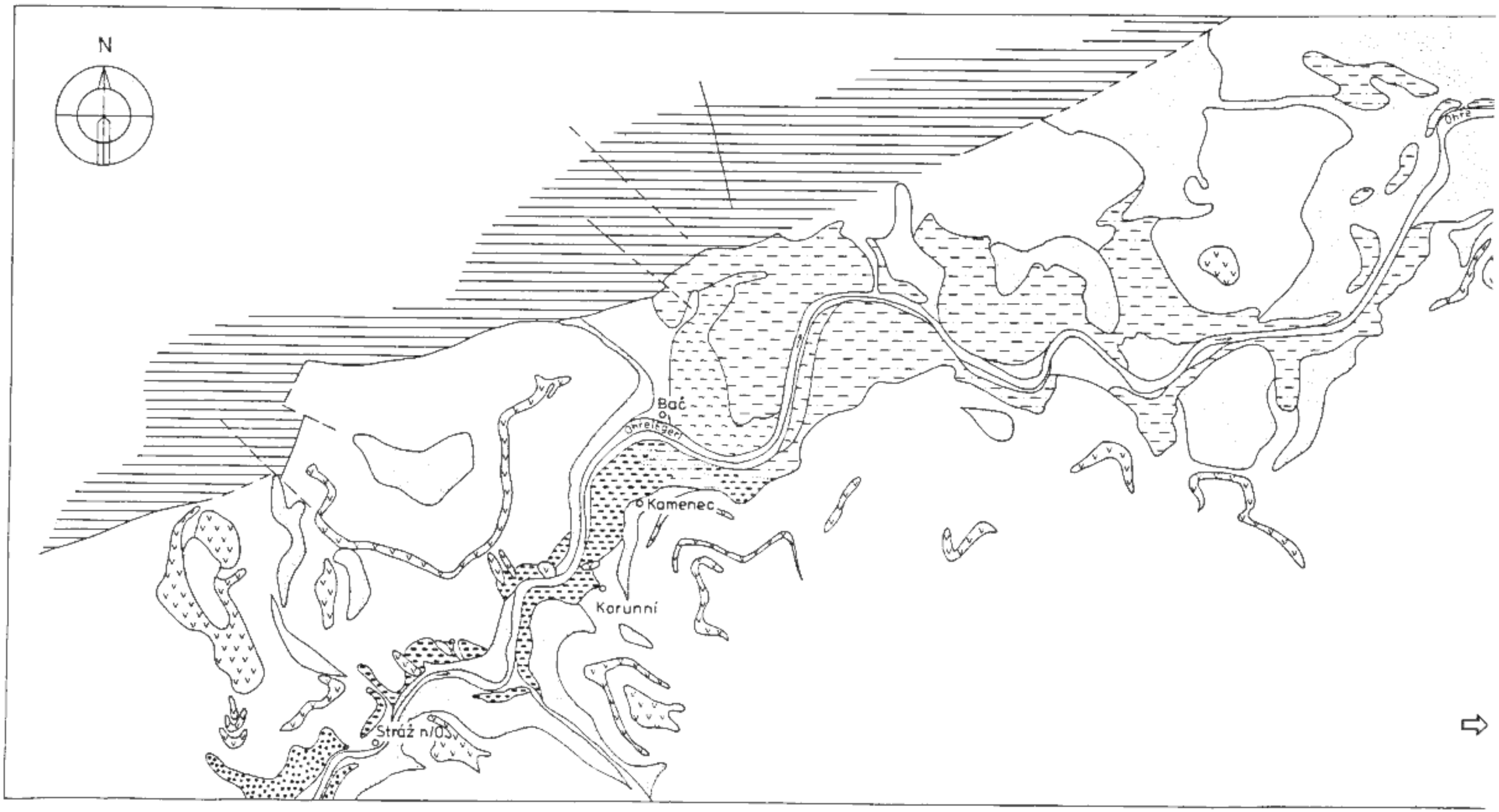
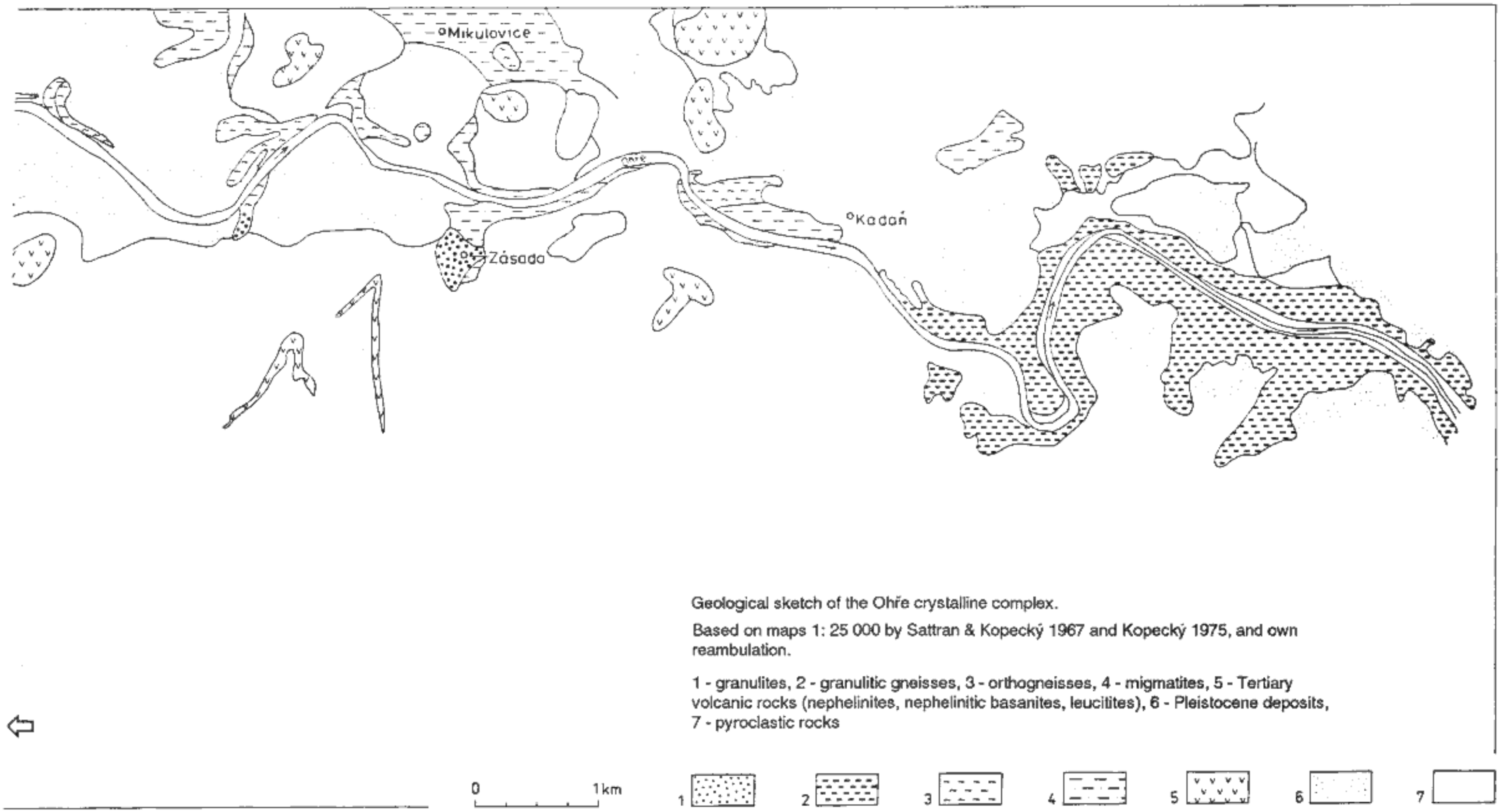
Appendix I





Geological sketch of the Ohře crystalline complex.

Based on maps 1: 25 000 by Sattran & Kopecký 1967 and Kopecký 1975, and own reambulation.

1 - granulites, 2 - granulitic gneisses, 3 - orthogneisses, 4 - migmatites, 5 - Tertiary volcanic rocks (nephelinites, nephelinitic basanites, leucitites), 6 - Pleistocene deposits, 7 - pyroclastic rocks

Appendix II

Chemical composition of minerals: Felsic granulite

Garnets (Sample 63a)					
	Gt 2.16	Gt 4.1	Gt 4.2	Gt 4.3	Gt 4.4
SiO_2	37.72	37.95	38.12	38.12	37.78
TiO_2	0	0	0	0	0
Al_2O_3	21.69	21.48	21.65	21.90	21.80
Cr_2O_3	0	0	0	0	0
Fe_2O_3	0	0	0	0	0
FeO	33.98	31.61	31.98	33.82	33.65
MnO	1.42	1.42	1.39	1.24	1.25
MgO	3.32	3.20	3.40	3.57	3.65
CaO	1.36	3.62	3.48	1.26	1.78
Total	99.48	99.29	100.04	99.91	99.92
Si^{IV}	6.04	6.07	6.05	6.06	6.02
Al^{IV}	0	0	0	0	0
T site	6.04	6.07	6.05	6.06	6.02
Al^{VI}	4.10	4.05	4.05	4.10	4.09
Ti^{VI}	0	0	0	0	0
Cr	0	0	0	0	0
Fe^{+3}	0	0	0	0	0
O site	4.10	4.0	4.05	4.10	4.09
Fe^{+2}	4.55	4.22	4.24	4.50	4.48
Mn^{+2}	0.19	0.19	0.19	0.17	0.17
Mg	0.79	0.76	0.80	0.85	0.87
Ca	0.23	0.62	0.59	0.22	0.30
A site	5.77	5.80	5.83	5.72	5.82
O	24.00	24.00	24.00	24.00	24.00

Plagioclase (Sample 63a)			
	Pl 2.11	Pl 2.13	Pl 2.14
SiO_2	63.88	64.29	64.27
Al_2O_3	22.16	22.43	22.18
CaO	2.49	2.83	2.60
K_2O	0.13	0.28	0.27
Na_2O	10.26	10.33	10.28
Total	98.92	99.32	99.60
Si^{+4}	2.84	2.83	2.85
Al^{+3}	1.16	1.17	1.16
Ca^{+2}	0.12	0.13	0.12
K	0.01	0.01	0.01
Na^{+1}	0.89	0.88	0.88
Total	5.02	5.03	5.02
O^{-2}	8.00	8.00	8.00

Metapelitic granulite:

Garnets (Sample 6a)						
	38	39	40	41	45	54
SiO_2	39.74	40.14	40.11	40.47	40.64	40.6
TiO_2	0.03	0	0.01	0.07	0.11	0.04
Al_2O_3	22.57	22.42	22.85	22.40	22.43	22.60
Cr_2O_3	0.09	0.0	3 0.05	0.09	0.15	0
Fe_2O_3	0	0.42	0	0.61	0.61	0.53
FeO	22.66	22.58	21.72	21.09	20.62	23.21
MnO	0.39	0.3	2 0.21	0.37	0.38	0.38
MgO	10.42	11.39	11.59	10.68	10.17	11.23
CaO	4.5	3.35	3.77	5.16	6.40	2.65
Total	100.40	100.64	100.31	100.94	101.51	101.24
Si^{IV}	5.98	6.00	5.98	6.00	6.00	6.00
Al^{IV}	0.02	0	0.02	0	0	0
T site	6.00	6.00	6.00	6.00	6.00	6.00
Al^{VI}	3.99	3.95	3.99	3.91	3.90	3.94
Tl^{VI}	0	0	0	0.01	0.01	0
Cr	0.01	0	0.01	0.01	0.02	0
Fe^{+3}	0	0.05	0	0.07	0.07	0.06
O site	4.00	4.00	4.00	4.00	4.00	4.00
Fe^{+2}	2.85	2.82	2.71	2.62	2.55	2.87
Mn^{+2}	0.05	0.04	0.03	0.05	0.05	0.05
Mg	2.34	2.54	2.58	2.36	2.24	2.47
Ca	0.73	0.54	0.60	0.82	1.01	0.42
A site	5.97	5.94	5.91	5.84	5.84	5.81
O	23.96	23.94	23.90	23.85	23.85	23.81

Plagioclase (Sample 9a)			
	45	48	52
SiO_2	63.91	63.54	63.37
Al_2O_3	23.12	22.67	22.80
CaO	4.68	4.41	4.55
K_2O	0.36	0.40	0.50
Na_2O	8.65	8.88	8.67
Total	100.72	99.90	99.90
Si^{+4}	2.79	2.81	2.81
Al^{+3}	1.21	1.18	1.19
Ca^{+2}	0.23	0.21	0.22
K^{+1}	0.02	0.03	0.03
Na^{+1}	0.74	0.76	0.74
Total	4.99	5.00	4.99

Metapelitic granulite (continued)

	Biotite (Sample 10a)			Biotite (borehole T7)				Amphibole (Sample 6)	
	60	82	86	177	185	186	174		15
SiO_2	37.29	38.01	37.58	39.92	38.91	37.98	39.77	SiO_2	58.71
TiO_2	4.44	4.55	4.00	2.50	4.09	4.05	2.32	TiO_2	0.31
Al_2O_3	16.30	16.38	17.11	16.55	16.23	16.09	16.01	Al_2O_3	6.83
Cr_2O_3	0	0	0	0.05	0.05	0	0.11	Cr_2O_3	0.29
Fe_2O_3	0	0	0	0	0	0	0	Fe_2O_3	0
FeO	12.68	12.31	12.52	8.59	10.87	11.68	8.22	FeO	8.3
MnO	0	0	0	0	0.03	0.09	0	MnO	0.05
MgO	12.59	12.53	13.27	18.34	15.24	15.32	18.63	MgO	13.16
Li_2O	0	0	0	0	0	0	0	ZnO	0
BaO	0	0	0	0	0	0	0	CaO	9.85
CaO	0	0	0	0.02	0	0.03	0	Na_2O	0.49
Na_2O	0	0.42	0.36	0.05	0.08	0.09	0.01	K_2O	0.32
K_2O	10.42	10.25	9.69	10.11	10.18	9.82	10.23	H_2O	2.19
Rb_2O	0	0	0	0	0	0	0	F	0
Cs_2O	0	0	0	0	0	0	0	Cl	0
H_2O	4.08	4.09	4.10	4.20	4.12	4.08	4.16	O=F	0
F	0	0	0	0	0	0	0	O=Cl	0
Cl	0	0	0	0	0	0	0	Total	100.5
O=F	0	0	0	0	0	0	0	Si^{IV}	8.03
O=Cl	0	0	0	0	0	0	0	Al^{IV}	0
Total	97.79	98.53	98.63	100.33	99.80	99.23	99.46	Fe^{+3}	0
Si^{IV}	5.62	5.66	5.58	5.70	5.66	5.59	5.73	Ti^{IV}	0
Al^{IV}	2.38	2.34	2.42	2.30	2.33	2.41	2.27	T site	8.03
Fe^{IV}	0	0	0	0	0	0	0	Al^{VI}	1.10

	Biotite (Sample 10a)			Biotite (borehole T7)				Amphibole (Sample 6)	
	60	82	86	177	185	186	174		15
Ti^{IV}	0	0	0	0	0	0	0	Fe^{+3}	0
T site	8.00	8.00	8.00	8.00	8.00	8.00	8.00	Ti^{IV}	0.03
Al^{VI}	0.51	0.54	0.57	0.49	0.45	0.38	0.45	Cr	0.03
Ti^{VI}	0.50	0.51	0.45	0.27	0.45	0.45	0.25	Mg	2.68
Cr	0	0	0	0.01	0.01	0	0.01	Fe^{+2}	0.95
Fe^{+3}	0	0	0	0	0	0	0	Zn	0
Fe^{+2}	1.60	1.53	1.55	1.03	1.32	1.44	0.99	Mn	0.01
Mn^{+2}	0	0	0	0	0	0.01	0	Ca	0.20
Mg	2.83	2.78	2.94	3.91	3.31	3.36	4.00	M1, 2, 3	5
Li	0	0	0	0	0	0	0	Mg	0
O site	5.43	5.36	5.51	5.70	5.54	5.63	5.71	Fe^{+2}	0
Ba	0	0	0	0	0	0	0	Zn	0
Ca	0	0	0	0	0	0.00	0	Mn	0
Na	0	0.12	0.10	0.01	0.02	0.03	0	Ca	1.44
K	2.00	1.95	1.84	1.84	1.89	1.84	1.88	Na	0.13
Rb	0	0	0	0	0	0	0	M4 site	1.57
Cs	0	0	0	0	0	0	0	Ca	0
A site	2.00	2.07	1.94	1.86	1.91	1.87	1.88	Na	0
O	19.91	19.94	19.94	20.00	20.0	0 20.00	20.0	K	0.06
OH	4.09	4.06	4.06	4.00	4.00	4.00	4.00	A site	0.06
F	0	0	0	0	0	0	0	O	22.00
Cl	0	0	0	0	0	0	0	OH	2.00
Charge	0.09	0.06	0.06	0.00	0.00	0.00	0.00	F	0
								Cl	0
								Charge	0

Pyroxene-bearing granulite:

Garnet (borehole T38)					
SiO_2	38.99	38.90	38.94	39.44	39.43
TiO_2	0.07	0.14	0.16	0.08	0.07
Al_2O_3	22.63	22.5	22.84	22.90	22.83
Cr_2O_3	0.07	0.06	0.04	0.10	0.05
Fe_2O_3	2.43	2.14	2.08	1.92	2.10
FeO	14.65	13.99	14.22	14.57	14.69
MnO	0.33	0.38	0.30	0.29	0.33
MgO	11.65	10.35	11.23	11.53	11.80
CaO	8.36	10.68	9.46	9.08	8.60
Total	99.18	99.14	99.27	99.91	99.90
Si^{IV}	5.86	5.87	5.84	5.88	5.88
Al^{IV}	0.14	0.13	0.16	0.12	0.12
T site	6.00	6.00	6.00	6.00	6.00
Al^{VI}	3.87	3.87	3.89	3.90	3.88
Ti^{VI}	0.01	0.01	0.02	0.01	0.01
Cr	0.01	0.01	0.01	0.01	0.01
Fe^{+3}	0.27	0.24	0.23	0.22	0.24
O site	4.16	4.13	4.14	4.14	4.13
Fe^{+2}	1.84	1.76	1.78	1.82	1.83
Mn^{+2}	0.04	0.05	0.03	0.03	0
Mg	2.61	2.33	2.51	2.56	2.62
Ca	1.35	1.73	1.52	1.45	1.37
A site	5.84	5.87	5.86	5.86	5.89
O	24.01	24.01	24.00	24.01	24.01

Pyroxene (borehole T38)				
SiO_2	52.27	52.29	51.99	51.93
TiO_2	0.43	0.52	0.48	0.41
Al_2O_3	9.59	10.1	9.44	9.4
Cr_2O_3	0.05	0.1	0.1	0.04
Fe_2O_3	2.56	2.39	2.22	2.96
FeO	0.64	1.11	1.25	0.44
MnO	0.09	0	0.02	0.07
NiO	0	0	0	0
MgO	12.25	12.11	12.69	12.52
CaO	19.17	19.22	19.9	19.48
Na_2O	3.4	3.38	2.85	3.16
K_2O	0	0	0	0.01
Total	100.45	101.22	100.94	100.42
Si^{IV}	1.87	1.86	1.86	1.86
Al^{IV}	0.13	0.14	0.14	0.14
T site	e 2.00	2.00	2.00	2.00
Al^{VI}	0.27	0.28	0.25	0.26
Ti	0.01	0.01	0.01	0.01
Cr	0	0	0	0
Fe^{+3}	0.06	0.06	0.06	0.08
Fe^{+2}	0.02	0.03	0.04	0.01
Mn^{+2}	0	0	0	0
Ni	0	0	0	0
Mg	0.65	0.64	1.68	0.67
Ca	0.73	0.73	0.76	0.75
Na	0.24	0.23	0.20	0.22
K	0	0	0	0
M1, M2	2.00	2.00	2.00	2.00
O	6.00	6.00	6.00	6.00
Charge	0	0	0	0

Appendix III

Major element whole rock analyses (Set I)

sample	local.	rock type	SiO_2	TiO_2	Al_2O_3	Fe_2O_3	FeO	MnO	MgO	CaO	SrO	BaO	Li_2O	Na_2O	K_2O	P_2O_5	CO	C	H_2O^+	F	S	H_2O^-	F-ekv	S-ekv	Sum
6	Stráž	Hb-Bt rock	41.68	0.11	3.08	4.21	3.4	0.11	35.28	2.59	0.001	0.006	0.002	0.24	0.08	0.02	0.04	0.04	7.93	0.01	0.05	0.27	-0.003	-0.012	99.13
6a	Stráž	subacid G	65.36	0.33	15.95	0.79	4.7	0.072	2.38	3.23	0.009	0.04	0.008	3.38	1.79	0.13	0.01	0.07	0.73	0.037	0.22	0.07	-0.016	-0.055	99.24
10a	Stráž	subacid G	63.75	0.46	15.92	2.39	4.74	0.065	2.66	4.25	0.007	0.023	0.009	2.96	1.2	0.05	0.01	0.02	0.57	0.036	0.03	0.06	-0.15	-0.007	99.18
x1c	Sviňky	subacid G	68.5	0.68	15.12	1.43	4.05	0.063	2.27	1.66	0.008	0.063	0.011	2.47	1.98	0.07	0.01	0.09	0.57	0.019	0.05	0.04	-0.08	-0.012	99.12
T21b	Měrunice	subacid G	66.65	0.65	16.425	1.44	3.37	0.072	2.36	2.53	0.008	0.054	0.01	3.55	2.246	0.08	0.02	0.07	0.55	0.05	0.03	0.12	-0.021	-0.007	100.62
X1a	Sviňky	acid G	76.77	0.02	26.98	0.35	0.9	0.037	0.22	0.77	0.006	0.054	0.005	3.62	3.63	0.01	0.01	0.02	0.17	0.014	0.06	0.04	-0.006	-0.015	99.15
x1b	Sviňky	acid G	71.1	0.17	14.22	0.84	1.93	0.033	0.77	1.71	0.011	0.093	0.007	2.95	4.72	0.18	0.01	0.04	0.28	0.044	0.03	0.04	-0.019	-0.007	99.14
X2c	Újezd	acid G	74.21	0.17	12.92	0.88	1.11	0.015	0.49	1.03	0.004	0.039	0.005	2.76	4.98	0.15	0.02	0.05	0.53	0.026	0.03	0.1	-0.011	-0.007	99.5
X2J	Újezd	acid G	73.15	0.26	12.63	0.93	2.12	0.032	0.85	1.52	0.005	0.047	0.004	2.68	4.26	0.17	0.03	0.04	0.62	0.047	0.04	0.13	-0.002	-0.001	99.54
4b	Málkov	acid G	74.69	0.17	13.13	0.39	1.01	0.019	0.26	0.76	0.009	0.058	0.004	2.64	5.17	0.11	0.01	0.03	0.43	0.032	0.04	0.17	-0.013	-0.01	99.1
73c	Blahuňov	acid G	75.86	0.17	12.5	0.38	0.77	0.015	0.24	0.52	0.004	0.031	0.004	2.35	5.39	0.13	0.01	0.04	0.64	0.017	0.02	0.12	-0.07	-0.005	99.19
75/a	Zelená	acid G	72.26	0.2	13.84	1.0	0.89	0.016	0.5	0.99	0.013	0.067	0.005	2.73	5.78	0.18	0.02	0.02	0.65	0.01	0.03	0.01	-0.001	-0.007	99.2
8	Stráž	acid G	75.93	0.04	12.46	0.44	0.93	0.031	0.33	1.02	0.009	0.033	0.002	2.74	4.88	0.06	0.01	0.03	0.14	0.01	0.03	0.06	-0.003	-0.007	99.16
8b	Stráž	acid G	71.04	0.35	14.54	0.91	1.66	0.021	0.59	1.81	0.015	0.135	0.01	3.05	4.52	0.13	0.01	0.03	0.59	0.044	0.04	0.08	-0.019	-0.01	99.54
10c	Stráž	acid G	77.27	0.01	12.53	0.31	0.68	0.03	0.13	0.57	0.006	0.026	0.002	3.52	4.18	0.02	0.01	0.03	0.22	0.01	0.03	0.01	-0.002	-0.007	99.57
63a	Stráž-S	acid G	76.93	0.04	12.78	0.47	0.71	0.032	0.14	0.78	0.004	0.03	0.006	3.52	3.79	0.01	0.01	0.02	0.34	0.01	0.03	0.06	-0.004	-0.007	99.69
76a	Stráž	acid G	77.35	0.04	12.21	0.45	0.75	0.034	0.11	0.57	0.004	0.018	0.004	3.39	3.98	0.03	0.02	0.02	0.25	0.025	0.02	0.06	-0.011	-0.005	99.32
13a	Želina	acid G	75.65	0.1	11.97	0.61	1.05	0.032	0.24	0.5	0.003	0.017	0.01	2.84	5.1	0.19	0.02	0.02	1.09	0.012	0.03	0.04	-0.005	-0.007	99.51
28	Kadaň	acid-subac G	70.38	0.51	15.015	1.69	1.45	0.048	1.068	1.247	0.017	0.099	0.008	2.51	4.97	0.17	0.02	0.01	0.52	0.01	0.03	0.01	-0.003	-0.007	99.77
40	Kamenec	acid-subac G	69.61	0.4	14.27	0.81	2.91	0.051	1.2	1.21	0.018	0.095	0.009	2.4	4.85	0.21	0.1	0.04	0.94	0.01	0.11	0.11	-0.003	-0.027	99.22
41	Kamenec	acid-subac G	68.63	0.66	15.98	2.0	1.97	0.061	1.336	1.442	0.02	0.097	0.007	2.39	4.958	0.19	0.01	0.02	0.77	0.016	0.03	0.08	-0.007	-0.007	100.64
45b	Kamenec	acid-subac G	68.62	0.66	15.825	1.2	2.9	0.063	1.598	1.891	0.023	0.08	0.009	3.31	3.335	0.16	0.01	0.03	0.85	0.011	0.03	0.07	-0.005	-0.007	100.65
72a	Kadan	acid G	74.59	0.43	13.24	0.89	2.77	0.066	1.34	2.13	0.041	0.047	0.007	3.85	1.37	0.149	0.02	0.01	0.62	0.092	0.02	0.05	-0.039	-0.005	100.39

Analysed by M.Huka & kol., Czech Geological Survey Prague

Appendix III (continued)

Trace element whole rock analyses (Set I)

sample	local.	rock type	As*	Ba	Be	Cd	Co	Cr*	Cu	Mo	Nb*	Ni	Pb	Rb*	Sr*	Zn	Zr*
6	Stráž	Hb-Bt rock	-7	50	-0.8	3	100	1593	25	-5	-7	1730	22	-7	-7	52	-7
6a	Stráž	subacid G	16	360	1.4	-2	44	65	31	-5	12	66	14	44	69	99	149
10a	Stráž	subacid G	15	210	1.9	-2	23	95	44	7	11	32	28	34	62	83	250
x1c	Sviňky	subacid G	-7	560	1.0	-2	28	96	11	-5	11	37	12	45	55	94	138
T21b	Měrunice	subacid G	-7	480	1.2	4	38	101	10	7	-7	42	10	80	56	81	117
X1a	Sviňky	acid G	-7	480	0.9	3	18	14	4	-5	-7	29	11	71	41	21	-7
x1b	Sviňky	acid G	-7	830	1.4	-2	26	44	7	-5	-7	48	18	162	85	48	189
X2c	Újezd	acid G	10	350	-0.8	-2	-10	17	5	-5	-7	13	89	187	68	15	112
X2J	Újezd	acid G	-7	420	0.9	-2	10	33	5	-5	10	22	13	127	79	25	253
4b	Málkov	acid G	-7	520	2.5	3	26	21	4	6	-7	23	24	157	54	22	165
73c	Blahuňov	acid G	-7	280	2.6	-2	13	16	8	6	-7	48	19	172	30	30	69
75/a	Zelená	acid G	-7	600	1.7	-2	22	13	8	-5	-7	25	37	229	113	38	111
8	Stráž	acid G	-7	300	1.1	-2	15	12	9	-5	-7	27	-10	114	68	23	46
8b	Stráž	acid G	-7	1210	2.0	-2	24	26	7	-5	-7	27	20	129	114	50	148
10c	Stráž	acid G	-7	230	0.9	-2	12	8	4	-5	-7	24	-10	126	47	19	-7
63a	Stráž-S	acid G	-7	270	1.2	-2	13	16	5	-5	-7	79	-10	147	34	25	-7
76a	Stráž	acid G	-7	160	0.8	-2	-10	12	5	-5	-7	34	12	152	31	49	-7
13a	Želina	acid G	-7	150	1.1	-2	15	21	5	-5	-7	26	25	345	27	32	61
28	Kadaň	acid-subac G	-7	890	1.7	-2	21	37	10	-5	11	37	46	158	128	53	172
40	Kamenec	acid-subac G	72	850	2.9	-2	32	62	29	-5	14	45	257	151	139	232	229
41	Kamenec	acid-subac G	9	870	1.8	-2	26	40	18	-5	15	38	38	140	159	86	216
45b	Kamenec	acid-subac G	-7	720	2.4	-2	27	82	11	-5	9	33	28	114	202	71	184
72a	Kadan	acid G	-7	420	2.8	-2	15	8	8	-5	-7	16	30	288	63	36	110

* - XRF method; the rest - AAS

- = below detection limit [also Ag (ppm), Sn* (ppm), Cs (2)]

Analysed by J.Princová, M.Pelikánová and E.Krystová, Czech Geological Survey, Prague

Appendix IV

Major and trace element whole rock analyses (Set II)

local.	rock type	SiO_2	TiO_2	Al_2O_3	FeO_{tot}	MgO	CaO	Na_2O	K_2O	Th	U	K	K/U	K/Th	Ba	Rb	Sr	Cr	Ni	V
Blahuňov	acid G	76.61	0.23	12.45	1.75	0.21	0.9	2.72	4.91	1.72	0.35	3.87	11057	2250	272	256	47	19	5	21
	acid G	74.74	0.21	13.21	1.07	0.31	0.64	4.06	5.37	5.01	1.89	4.21	2228	840	219	214	37	37	11	18
	acid G	73.87	0.25	14.7	1.09	0.41	0.84	3.34	5.18	2.16	0.75	3.91	5213	1810	433	225	56	46	13	13
	acid G	73.42	0.25	14.65	1.25	0.43	0.96	3.52	5.2	1.61	0.46	3.97	8630	2466	463	184	61	20	21	10
Domina	acid G	78.54	0.12	12.14	0.69	0.15	0.81	3.37	4.06	0.4	0.1	3.23	32300	8075	94	107	29	67	5	10
	acid G	76.48	0.13	12.57	1.76	0.17	1.14	3.87	3.63	4.05	0.27	4.33	16037	1069	267	174	39	41	10	6
	acid G	70.81	0.3	16.06	2.4	0.5	1.16	4.25	4.25	4.3	1.28	4.08	3188	949	761	183	88	42	21	5
	acid G	72.84	0.25	14.48	2.46	0.36	1.7	4.12	3.48	6.07	0.7	4.14	5914	682	759	141	83	52	11	5
	acid G	73.66	0.12	15.17	1.16	0.22	1.03	4.16	4.27	2.59	0.31	4.12	13290	1591	263	146	35	52	10	7
Málkov	acid G	77.48	0.22	12.56	0.91	-0.1	0.69	2.57	5.46	5.41	1.65	3.16	1915	584	239	150	39	8	19	5
	acid G	79.11	0.19	11.39	0.66	-0.1	0.66	2.75	5.12	1.56	0.48	2.78	5792	1782	109	109	31	10	16	5
	acid G	79.59	0.23	12.29	0.1	-0.1	0.58	1.9	5.2	5.45	0.46	3.34	7261	613	360	134	48	5	13	5
	acid G	75.47	0.29	13.79	1.38	0.17	1.07	2.64	5.13	9	1	2.56	2560	284	541	95	65	7	19	5
Stráž	acid G	77.06	0.17	12.9	1.48	-0.1	0.93	2.85	4.47	2.5	0.1	3.61	36100	1444	184	149	48	12	19	13
	acid G	76.58	0.14	13.01	1.63	-0.1	1.02	3.1	4.33	0.5	0.1	3.54	35400	7080	231	100	42	15	35	5
	acid G	71.58	0.27	15.11	2.48	0.44	1.74	3.67	4.49	3.32	0.42	3.5	8333	1054	1102	104	102	49	25	5
	acid G	77.56	0.12	13.08	1.3	0.11	0.95	2.95	3.79	0.4	0.1	2.88	28800	7200	137	95	28	10	10	5
Želina	acid G	77.08	0.22	12.19	1.23	0.22	0.52	3.55	4.8	4.33	1.07	3.85	3598	889	382	204	42	91	11	5
	acid G	78.48	0.16	12.02	0.52	0.22	0.47	2.69	5.25	4.58	1.57	4.2	2675	917	54	233	23	66	10	7
	acid G	77.42	0.21	12.57	1.66	0.27	0.54	2.33	4.68	5.44	0.98	3.7	3776	680	368	188	53	17	12	9
	acid G	78.34	0.14	12.21	0.69	0.23	0.34	2.69	5.25	1.82	0.94	4.22	4489	2319	37	243	10	56	10	7
Zásada	acid G	75.82	0.17	14.16	1.2	0.29	0.85	2.61	4.58	1.75	0.91	3.54	3890	2023	159	216	85	55	10	14
	acid G	75.09	0.17	13.88	1.24	0.1	0.96	3.34	4.84	1.5	0.94	3.66	3894	2440	363	167	94	46	10	5
	acid G	71.74	0.25	15.22	1.79	0.46	1.1	3.34	5.79	9.71	1.34	4.49	3351	462	703	195	113	43	19	5
	acid G	75.86	0.16	12.77	1.65	0.13	1.08	3.02	4.94	1.04	0.93	3.79	4075	3644	385	160	119	10	10	5

local.	rock type	SiO_2	TiO_2	Al_2O_3	FeO_{tot}	MgO	CaO	Na_2O	K_2O	Th	U	K	K/U	K/Th	Ba	Rb	Sr	Cr	Ni	V
T38-111.8	acid G	72.6	0.25	14.77	2.87	1.83	2.13	3.58	1.83	0.22	0.22	1.47	6682	6682	140	49	26	17	29	10,
123m	acid G	77.54	0.14	13.6	1.03	-0.1	1.27	3.41	2.83	0.95	0.1	2.14	21400	2253	50	100	13	15	13	14
243m	acid G	70.14	0.43	15.22	4.51	4.19	3.41	4.19	1.49	1.72	0.2	1.11	5550	645	1080	22	87	24	57	15
Stráž	subacid G	64.32	0.75	16.47	7.65	4.58	7.04	4.86	2.37	0.86	0.22	1.73	7864	2012	311	54	55	127	87	25
T38-137m	subacid G	62.77	0.84	16.3	7.18	1.99	3.91	4.76	1.97	10.44	0.65	1.47	2262	141	810	36	172	101	102	51
182m	subacid G	63.75	0.68	18.82	7.18	1.47	1.42	3.46	3.05	9.34	1.09	2.32	2128	248	780	55	88	94	109	60
206m	subacid G	65.31	0.71	15.75	6.87	1.08	3.55	4.61	1.76	6.51	0.6	1.24	2067	190	530	35	104	48	69	32
229m	subacid G	60.68	1.08	15.78	8.08	3.37	4.75	4.29	1.63	3.81	0.54	1.18	2185	310	470	33	102	128	134	50
236m	subacid G	65.74	0.69	17.03	6.71	1.27	2	3.62	2.72	10.78	1.03	1.96	1903	182	860	57	156	80	94	44
278m	subacid G	65.01	0.62	17.07	6.83	1.49	2.01	3.6	3.23	11.65	0.71	2.46	3465	211	1480	64	138	90	105	54
332m	subacid G	67.16	0.58	15.95	5.62	0.9	3.37	4.33	1.94	5.19	0.28	1.46	5214	281	940	34	82	38	85	28
346m	subacid G	63.24	0.72	16.29	7.28	2.08	3.84	4.25	1.96	4.67	0.72	1.42	1972	304	790	47	80	98	116	55
380m	subacid G	62.91	0.64	18.68	6.79	1.43	2.86	4.11	2.36	8.39	0.7	1.75	2500	209	940	41	123	69	96	38
398.5	subacid G	62.42	0.72	18.98	6.68	1.25	3.61	4.3	1.87	5.77	2	1.37	685	237	670	42	95	75	109	32
116m	subacid G	68.13	0.37	16.63	5.78	0.8	3.71	3.53	0.83	0.2	0.37	0.62	1676	3100	50	17	19	23	59	13,
119m	subacid G	64.66	0.75	17.15	6.64	1.61	3.24	4	1.77	6.28	0.84	1.32	1571	210	720	42	95	66	104	46
132.5	Px G	58.95	0.98	17.56	8.83	2.69	4.43	4.63	1.74	1.8	0.32	1.27	3969	706	330	41	47	129	148	61
258m	Px G	57.51	0.79	16.07	7.65	4.58	7.04	4.86	1.19	5.3	2.75	0.76	276	143	190	30	69	179	123	123
266m	Px G	52.56	0.77	15.51	10.5	6.19	8.25	4.99	0.94	2.07	0.49	0.61	1245	295	120	21	78	208	133	155
329m	Px G	57.37	0.71	16.47	7.71	4.16	7.25	5.01	0.96	8.75	1.26	0.68	540	78	360	20	88	153	127	139
Boč	orthogneiss	70.24	0.39	15.77	2.51	0.69	1.12	3.74	5.2	12.95	3.14	4.15	1322	320	882	178	117	28	21	9

Analysed by ing. Janečková, Geotest Brno, ing. Houdková, and dr.Vaňková, GÚ ČSAV

Appendix V

Rare earth element and Y abundances of selected samples

Sample	Locality	Rock type	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	tot REE	Y	Eu*	Eu/Eu*	La/Yb norm
X1a	Sviňky	acid G	2.53	-3	-2.4	2.15	-1.2	-0.13	-1.2	-1	1.89	0.3	1.72	0.34	2.04	0.29	2.33	12.8	-5.39353	0.3279316	0.8361322
X1b	Sviňky	acid G	33.2	70.3	7.6	32.3	6.9	0.88	6.7	1.1	7.7	1.5	4.36	0.57	4.08	0.58	177.84	44.5	30.62667	0.3909269	5.486085
X1c	Sviňky	subacid G	34.1	64.6	7.5	28.8	5.73	1.06	5.16	-1	5.62	1.06	3.2	0.4	3.17	0.44	159.84	29.3	24.65370	0.5849739	7.252366
T21b	Měrunice	subacid G	15.6	34	3.79	17.4	3.71	0.76	3.34	-1	4.22	0.71	2.6	0.39	2.65	0.41	88.58	22.5	15.96070	0.6478499	3.968837
X2c	Újezd	acid G	23.9	51.7	6.4	23.3	5.35	0.58	4.66	-1	6.9	1.36	4.8	0.82	4.84	0.68	134.29	40.1	22.71409	0.3474124	3.329179
X2J	Újezd	acid G	25.1	56.3	7.1	27.5	7.2	0.79	8	1.1	9.6	1.97	5.42	0.77	4.67	0.65	156.23	53.5	33.90555	0.3170070	3.623610
6a	Stráž	subacid G	14.13	31.18	4.17	18.87	5.09	1.03	5.2	-1	4.74	0.7	2.53	-0.3	2.71	0.38	89.43	25.68	23.08989	0.6069152	3.515260
8	Stráž	acid G	13.42	22.84	2.89	7.78	2.12	0.39	2.39	-1	4.3	0.79	2.5	0.42	2.9	0.36	62.1	25.55	10.04980	0.5279830	3.119889
8a	Stráž	acid G	19.51	40.79	5.42	19.16	4.87	0.89	5.71	-1	6.16	1.12	3.14	0.38	2.98	0.39	109.52	33.92	23.51035	0.5150432	4.413932
10a	Stráž	subacid G	6.31	10.02	-2.4	4.91	2.55	0.96	2.85	-1	2.86	-0.3	1.32	-0.3	1.55	0.21	29.54	14.37	12.04039	1.084784	2.744620
13A	Želina	acid G	11.73	25.95	4.15	11.37	2.99	0.2	2.76	-1	5.32	1.1	3.46	0.52	4.19	0.55	73.29	32.87	12.99485	0.2093974	1.887420
40	Kamenec	acid-suba	38.01	77.98	9.42	35.79	7.41	1.05	7.74	1.4	7.22	1.55	4.41	0.54	4.08	0.51	197.19	40.87	33.94208	0.4208850	6.280906
73C	Blahuňov	acid G	11.6	23.88	3.46	9.36	3.08	0.23	2.22	-1	4.22	1.04	3.31	0.59	3.98	0.54	66.51	27.63	12.18315	0.2568508	1.964986
T7	133m	subacid G	18.8	40.35	5.74	20.5	5.22	1.21	6.46	-2	7.1	1.76	4.1	0.56	4.14	0.59	114.53	40.4	25.85566	0.0467983	3.061555
T7	166.5m	subacid G	37.8	76.9	11	36.4	6.25	1.58	6.6	-2	5.72	1.48	3	0.38	3.49	0.5	189.1	32.6	28.76695	0.0549241	7.302154
T7	455.7m	subacid G	42.7	83	11.4	34.9	6.03	1.33	6.21	-2	5.92	1.49	3.28	0.41	3.71	0.52	198.9	33	27.44996	0.0484518	7.759586
T7	140m	acid G	30.4	64.9	8.3	30.4	6.1	1.02	7.5	-2	7.5	1.78	4.13	0.49	4.15	0.58	165.25	41.9	30.11979	0.0338648	4.938671
T7	203.2m	acid G	9.9	17.6	3.01	7.4	2.61	0.47	4.61	-2	5.77	1.51	3.96	0.45	3.91	0.56		33.9	15.59192	0.0301438	1.707037

- = below detection limit

Analysed by R.Štangl, Czech Geological Survey Prague