e-Table 1. Major and trace element abundances in Kamen and Bezymiznny volcano rocks and plateau lavas.

Sample	2310*	KAM-07-04	KAM-07-12	KAM-07-14	KAM-07-15	KAM-07-16
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano
Lat (N)	55°57'54"	55°58'52.7"	55°58'42.5"	55°59'16.3"	55°59'35.3"	55°59'42.6"
Long (E)	160°27'8.7"	160°33'20.3"	160°28'51.0"	160°32'36.9"	160°32'41.9"	160°32'49.6"
SiO_2	50.76	56.26	53.98	53.71	54.33	54.92
TiO_2	1.12	0.91	1.03	1.02	0.95	1.01
Al_2O_3	16.90	17.61	17.97	17.80	17.17	17.54
FeO	10.04	7.79	8.23	8.82	8.43	8.21
MnO	0.19	0.16	0.16	0.18	0.16	0.17
MgO	7.13	4.50	5.36	5.50	5.85	5.22
CaO	10.46	7.95	8.45	8.62	8.91	8.31
Na_2O	2.69	3.43	3.71	3.21	3.16	3.34
K_2O	0.56	1.18	0.91	0.94	0.88	1.09
P_2O_5	0.16	0.21	0.19	0.19	0.17	0.19
Sum	100	100	100	100	100	100
Li	7.9	14.75		14.36	14.44	17.45
Be	0.4	0.67		0.61	0.59	0.7
Sc	39	25	27	29	34	29
V	316	216	242	254	272	239
Cr	220	21	56	15	99	38
Co	32.7	27	31	29	29	30
Ni	33	19	35	18	25	32
Cu		48	85	48	53	77
Zn	89.5	83	84	89	82	84
Ga	17	19	19	18	18	18
Rb	8	19.52	14	15.27	14.66	16.98
Sr	291.5	372	338	299	332	331
Y	21	20.07	23.0*	22.61	19.4	20.28
Zr	63.4	101	97	97	87	91
Nb	2.45	2.07	2.9*	1.87	1.79	1.94
Mo		1.01	0.7*	0.8	0.87	0.67
Cd		0.12		0.11	0.11	0.12
Sn		0.9		0.87	0.71	0.82
Sb		0.21		0.16	0.13	0.2
Cs	0.22	0.41	2.7*	0.39	0.34	0.43
Ba	180.00	451	381	325	304	419
La	4.58	9.58	5.0*	7.26	7.46	7.75
Ce	12.04	19.31	16.0*	15.79	15.33	16.35
Pr	2.03	2.89		2.5	2.36	2.55
Nd	11.23	14.13	11.0*	12.81	11.66	12.82
Sm	3.17	3.62	2.9*	3.56	3.17	3.48
Eu	1.10	1.14		1.17	1.05	1.13
Gd	3.53	4.01		4.13	3.67	3.95
Tb	0.68	0.6		0.66	0.58	0.63
Dy	3.87	3.97		4.49	3.88	4.14
Ho	0.83	0.79		0.9	0.77	0.82
Er	2.39	2.35		2.72	2.33	2.46
Tm	0.35	0.32		0.37	0.31	0.33
Yb	2.29	2.16	2.1*	2.53	2.14	2.29
Lu	0.35	0.32		0.37	0.31	0.33
Hf	1.92	3	2.8*	2.84	2.46	2.67
Ta	0.14	0.12		0.11	0.1	0.11
W		0.12		0.07	0.07	0.1
Tl	0.05	0.09		0.07	0.07	0.09
Pb	2.19	3.51	4.0*	2.95	2.58	2.98
Th	0.48	0.79	1.3*	0.58	0.69	0.57
U	0.25	0.54	0.3*	0.39	0.52	0.43

E-table 1 *(continued)*

Sample	KAM-07-22	KAM-07-23	KAM-07-24	KAM-08-07	KAM-08-10	KAM-08-13
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano
Lat (N)	55°59'3.4"	55°59'3.4"	55°59'5.3"	56°0'2.9"	56°0'11.3"	55°57'54"
Long (E)	160°34'10.1"	160°34'10.1"	160°34'4.7"	160°32'22.2"	160°33'4"	160°27'8.7"
SiO_2	52.36	52.40	52.93	52.54	54.69	51.08
TiO_2	1.07	1.07	1.13	1.05	1.00	1.14
Al_2O_3	18.64	18.67	18.39	17.91	17.05	17.00
FeO	9.04	9.03	9.11	9.34	8.19	9.58
MnO	0.18	0.18	0.18	0.18	0.16	0.18
MgO	5.36	5.35	5.03	5.79	5.75	7.03
CaO	9.19	9.17	9.03	9.35	8.71	10.34
Na_2O	3.28	3.26	3.24	2.93	3.20	2.86
K_2O	0.70	0.70	0.76	0.75	1.05	0.62
P_2O_5	0.19	0.18	0.20	0.16	0.19	0.16
Sum	100	100	100	100	100	100
Li		11.17	10.35	9.32		
Be		0.55	0.6	0.54		
Sc	28	30	31	34	32	39
V	266	263	283	298	241	317
Cr	31	31	24	56	47	152
Co	30	29	26	32	28	34
Ni	16	16	10	21	11	34
Cu	67	69	45	43	30	57
Zn	87	87	93	90	84	87
Ga	19	19	19	19	18	18
Rb	9	9.51	11.15	10.72	16	9
Sr	318	314	324	286	358	298
Y	24.8*	22.68	24.06	22.34	22.7*	25.4*
Zr	86	86	91	80	94	77
Nb	3.0*	1.95	2.03	1.68	3.1*	1.9*
Mo	0.9*	0.63	0.93	0.94	0.6*	0.6*
Cd		0.11	0.14	0.1		
Sn		0.83	0.89	0.79		
Sb		0.09	0.1	0.11		
Cs	0.2*	0.31	0.37	0.26		
Ba	211	207	244	284	391	190
La	5.0*	6.39	6.72	5.72	5.0*	3.0*
Ce	14.0*	14.41	15.02	12.78	17.0*	10.0*
Pr		2.33	2.43	2.07		
Nd	9.3*	12.07	12.69	10.75	13.7*	10.5*
Sm	2.5*	3.49	3.6	3.12	4.4*	3.3*
Eu		1.21	1.23	1.08		
Gd		4.1	4.3	3.88		
Tb		0.67	0.71	0.64		
Dy		4.52	4.66	4.32		
Ho		0.91	0.96	0.89		
Er		2.77	2.9	2.71		
Tm		0.37	0.39	0.37		
Yb	2.6*	2.6	2.73	2.55	2.8*	2.5*
Lu		0.39	0.4	0.38		
Hf	2.1*	2.48	2.61	2.3	2.2*	2.1*
Ta		0.11	0.12	0.1		
W		0.05	0.06	0.06		
Tl		0.04	0.05	0.04		
Pb	2.0*	2.07	2.5	2.22	3.8*	2.4*
Th	1.9*	0.35	0.51	0.46	1.1*	0.5*
U	0.5*	0.3	0.46	0.41	0.3*	0.1*

E-table 1 *(continued)*

Sample	KAM-08-16	KAM-08-24	KAM-08-29	KAM-08-31	KAM-08-38	KAM-08-39
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano
Lat (N)	56°0'4.5"	56°1'15"	56°1'15.9"	55°59'51.5"	56°0'53.6"	56°1'21.3"
Long (E)	160°31'31.9"	160°32'53.7"	160°32'36.9"	160°32'7.4"	160°30'36.3"	160°31'48.8"
SiO_2	54.55	54.90	55.10	54.48	53.42	54.18
TiO_2	1.02	0.86	0.85	0.96	1.07	0.93
Al_2O_3	17.68	18.86	18.69	16.46	18.31	18.40
FeO	8.39	8.41	8.08	8.14	8.98	8.38
MnO	0.16	0.17	0.17	0.16	0.18	0.17
MgO	5.19	3.98	4.29	6.47	5.02	4.95
CaO	8.60	8.22	8.35	9.00	8.76	8.63
Na_2O	3.24	3.48	3.38	3.12	3.20	3.31
K_2O	1.01	0.94	0.91	1.03	0.88	0.88
P_2O_5	0.18	0.18	0.18	0.18	0.19	0.17
Sum	100	100	100	100	100	100
Li						11.96
Be						0.51
Sc	31	22	25	30	30	27
V	257	204	199	238	266	235
Cr	72	9	14	136	23	37
Co	27	27	25	32	30	28
Ni	16	12	12	52	18	20
Cu	47	51	43	80	38	57
Zn	84	89	87	85	93	84
Ga	19	19	19	18	19	18
Rb	16	14	14	15	13	13.48
Sr	338	335	315	315	313	316
Y	23.5*	25.3*	25.0*	24.2*	26.2*	21.87
Zr	91	96	95	102	92	89
Nb	2.6*	2.0*	2.2*	2.6*	2.4*	1.71
Mo	0.5*	0.4*	0.5*	0.5*	0.6*	0.55
Cd						0.12
Sn						0.8
Sb						0.16
Cs						0.38
Ba	318	301	296	387	373	285
La	9.0*	7.0*	4.0*	11.0*	6.0*	7.24
Ce	19.0*	19.0*	20.0*	14.0*	16.0*	15.18
Pr						2.32
Nd	10.9*	10.3*	9.8*	10.8*	13.2*	11.74
Sm	2.9*	2.7*	2.9*	3.0*	2.7*	3.13
Eu						1.09
Gd						3.8
Tb						0.62
Dy						4.09
Ho						0.85
Er						2.55
Tm						0.35
Yb	2.8*	2.9*	3.0*	2.6*	2.8*	2.45
Lu						0.37
Hf	2.5*	2.5*	2.5*	2.7*	2.3*	2.6
Ta						0.1
W						0.07
Tl						0.07
Pb	3.1*	3.9*	4.0*	2.8*	3.8*	2.72
Th	1.5*	0.5*	1.2*	0.8*	0.9*	0.62
U	0.5*	0.3*	0.4*	0.3*	0.3*	0.44

E-table 1 *(continued)*

Sample	KAM-08-40-1	KAM-08-43	KAM-08-45	KAM-09-52/2	KAM-08-59	KAM-08-61
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano
Lat (N)	56°1'21.3"	56°1'15.2"	56°1'15.6"	56°1'8.4"	56°1'48.2"	56°1'33.4"
Long (E)	160°31'52"	160°33'31.6"	160°33'7.55"	160°32'1.6"	160°31'40.3"	160°33'31.4"
SiO_2	55.42	54.82	54.80	53.63	53.27	54.32
TiO_2	0.85	0.88	0.88	0.97	0.96	0.94
Al_2O_3	18.44	18.84	18.88	17.87	18.31	18.48
FeO	7.96	8.31	8.26	8.55	8.68	8.34
MnO	0.18	0.17	0.17	0.17	0.17	0.17
MgO	4.23	4.17	4.17	5.48	5.45	4.73
CaO	8.26	8.16	8.21	9.03	8.92	8.43
Na_2O	3.51	3.51	3.52	3.25	3.21	3.44
K_2O	0.96	0.95	0.95	0.87	0.86	0.96
P_2O_5	0.19	0.18	0.18	0.17	0.16	0.18
Sum	100	100	100	100	100	100
Li		15.26				
Be		0.62				
Sc	27	23	23	29	29	26
V	200	207	206	255	247	220
Cr	22	16	16	50	54	36
Co	25	28	27	30	32	28
Ni	15	18	18	25	34	24
Cu	51	68	48	60	50	53
Zn	88	88	87	87	84	87
Ga	20	19	19	19	19	18
Rb	15	14.64	14	13	12	14
Sr	333	336	334	336	305	313
Y	25.6*	22.25	25.4*	23.6*	25.7*	26.4*
Zr	100	97	96	95	83	92
Nb	2.6*	1.79	2.4*	2.3*	1.9*	2.0*
Mo	0.3*	0.66	0.5*	0.4*	0.5*	0.4*
Cd		0.11				
Sn		0.86				
Sb		0.13				
Cs		0.44				
Ba	320	312	310	296	270	291
La	8.0*	7.59	8.0*	9.0*	6.0*	7.0*
Ce	16.0*	15.98	16.0*	21.0*	17.0*	17.0*
Pr		2.43				
Nd	12.9*	12.15	9.4*	10.1*	8.9*	10.9*
Sm	3.3*	3.25	3.0*	2.7*	3.0*	3.4*
Eu		1.12				
Gd		3.89				
Tb		0.63				
Dy		4.16				
Ho		0.87				
Er		2.64				
Tm		0.36				
Yb	2.9*	2.58	2.9*	2.7*	2.7*	2.8*
Lu		0.4				
Hf	2.7*	2.81	2.2*	2.1*	2.0*	2.3*
Ta		0.11				
W		0.1				
Tl		0.04				
Pb	3.8*	3.02	3.1*	2.7*	2.8*	3.9*
Th	0.2*	0.63	0.5*	0.4*	1.3*	1.2*
U	0.1*	0.44	0.2*	0.2*	0.3*	0.4*

E-table 1 *(continued)*

Sample	KAM-08-64	KAM-08-97	KAM-09-07	KAM-09-10	KAM-09-11	KAM-09-12
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano
Lat (N)	56°1'33.7"	55°57'49.7"	55°59'9.9"	55°59'14.1"	55°59'12.9"	55°58'55.6"
Long (E)	160°33'31.5"	160°40'57.8"	160°37'41.3"	160°37'35.2"	160°37'46.6"	160°39'37.5"
SiO_2	54.32	55.26	55.91	54.39	55.15	53.27
TiO_2	0.94	0.88	0.88	0.95	0.96	0.97
Al_2O_3	18.49	18.69	17.66	17.14	17.96	15.58
FeO	8.34	8.00	7.72	8.42	7.92	8.47
MnO	0.17	0.16	0.16	0.17	0.16	0.17
MgO	4.73	4.16	4.89	5.90	4.82	7.90
CaO	8.44	8.11	7.97	8.75	8.31	9.53
Na_2O	3.45	3.54	3.57	3.20	3.42	3.04
K_2O	0.95	0.99	1.03	0.89	1.10	0.89
P_2O_5	0.18	0.21	0.20	0.18	0.20	0.18
Sum	100	100	100	100	100	100
Li		17.07	16.23		14.39	
Be		0.66	0.65		0.62	
Sc	25	20	26	29	26	33
V	219	189	199	237	226	252
Cr	36	12	71	88	48	305
Co	27	24	27	32	27	36
Ni	25	15	42	51	28	73
Cu	57	51	65	85	62	65
Zn	88	89	86	83	83	80
Ga	19	19	19	18	18	17
Rb	14	15.43	16.17	13	19.01	14
Sr	313	327	412	330	329	323
Y	26.6*	21.57	20.07	23.8*	20.38	22.9*
Zr	92	100	98	89	96	92
Nb	2.3*	2.02	2.06	2.2*	2.24	2.3*
Mo	0.5*	0.75	0.62	0.4*	0.65	0.4*
Cd		0.11	0.11		0.1	
Sn		0.85	0.77		0.83	
Sb		0.13	0.16		0.18	
Cs		0.45	0.27		0.54	
Ba	290	367	425	365	398	308
La	8.0*	8.83	9.95	7.0*	8.45	5.0*
Ce	18.0*	18.03	20	18.0*	17.55	20.0*
Pr		2.76	3.02		2.71	
Nd	12.4*	13.52	14.71	9.6*	13.37	13.9*
Sm	3.6*	3.52	3.69	2.9*	3.56	3.6*
Eu		1.2	1.23		1.2	
Gd		4.09	4.08		4.04	
Tb		0.65	0.63		0.65	
Dy		4.21	4.07		4.2	
Ho		0.86	0.82		0.85	
Er		2.61	2.47		2.56	
Tm		0.36	0.33		0.35	
Yb	2.8*	2.5	2.31	2.6*	2.38	2.4*
Lu		0.38	0.34		0.35	
Hf	2.2*	2.91	2.99	2.3*	2.87	2.0*
Ta		0.11	0.12		0.13	
W		0.09	0.1		0.09	
Tl		0.07	0.06		0.06	
Pb	3.4*	2.94	3	3.6*	2.82	3.2*
Th	0.9*	0.68	0.79	0.8*	0.66	0.4*
U	0.3*	0.46	0.45	0.2*	0.44	0.2*

E-table 1 *(continued)*

Sample	KAM-09-15	KAM-09-18	KAM-09-24	KAM-09-30	KAM-09-33	KAM-09-36
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano
Lat (N)	56°0'46.1"	N 55°0'37.2"	N 56°0'48.2"	N 55°57'41.4"	N 55°58'49.8"	N 55°58'59.5"
Long (E)	160°38'27.4"	160°38'32.7"	160°38'22.5"	160°40'23.6"	160°38'22.2"	160°39'52.3"
SiO_2	53.43	58.55	54.06	53.85	54.37	53.36
TiO_2	0.98	0.82	0.97	1.02	1.00	0.98
Al_2O_3	16.43	17.17	17.76	17.04	17.27	15.56
FeO	8.72	6.65	8.49	8.51	8.63	8.47
MnO	0.18	0.14	0.17	0.17	0.18	0.17
MgO	6.83	4.27	5.43	6.03	5.51	7.93
CaO	9.36	7.31	8.77	8.86	8.81	9.40
Na_2O	2.98	3.75	3.33	3.25	3.15	3.02
K_2O	0.90	1.16	0.85	1.08	0.91	0.92
P_2O_5	0.19	0.18	0.18	0.18	0.17	0.19
Sum	100	100	100	100	100	100
Li	10.27					11.7
Be	0.51					0.6
Sc	34	24	29	32	31	34
V	261	186	260	248	276	246
Cr	152	68	63	107	64	319
Co	34	22	29	33	31	36
Ni	44	26	33	43	23	72
Cu	67	34	72	97	59	64
Zn	84	79	86	87	88	79
Ga	18	18	18	19	18	17
Rb	14.8	18	13	16	14	15.72
Sr	345	405	322	312	327	317
Y	18.98	20.6*	23.8*	26.4*	23.8*	19.32
Zr	88	96	91	111	84	93
Nb	1.81	2.5*	2.1*	2.9*	2.1*	2.11
Mo	0.82	0.4*	0.5*	0.5*	0.4*	0.7
Cd	0.08					0.09
Sn	0.79					0.81
Sb	0.1					0.11
Cs	0.34					0.42
Ba	348	497	314	364	427	317
La	8.64	10.0*	9.0*	7.0*	11.0*	8.27
Ce	18.07	18.0*	20.0*	15.0*	20.0*	17.38
Pr	2.76					2.65
Nd	13.57	11.6*	11.8*	12.2*	11.4*	13.16
Sm	3.57	3.3*	3.5*	3.8*	3.0*	3.52
Eu	1.18					1.16
Gd	3.98					3.97
Tb	0.63					0.63
Dy	4.03					4.07
Ho	0.81					0.82
Er	2.44					2.49
Tm	0.32					0.33
Yb	2.23	2.9*	2.7*	2.6*	2.7*	2.26
Lu	0.32					0.33
Hf	2.6	2.3*	2.1*	3.0*	2.3*	2.68
Ta	0.1					0.11
W	0.09					0.08
Tl	0.04					0.08
Pb	2.35	4.7*	4.4*	3.2*	3.4*	2.45
Th	0.62	1.0*	0.7*	1.3*	0.6*	0.61
U	0.38	0.5*	0.2*	0.4*	0.3*	0.36

E-table 1 *(continued)*

Sample	KAM-09-38	KAM-09-39	KAM-09-41	KAM-09-54	KAM-09-55	KAM-09-56
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano	stratovolcano
Lat (N)	55°59'3.8"	55°59'19.7"	55°59'30.9"	55°56'21.5"	55°56'21.5"	55°56'17.2"
Long (E)	160°39'15.2"	160°38'22.3"	160°38'5.7"	160°39'24.8"	160°39'24.8"	160°39'23.1"
SiO_2	53.31	57.97	56.69	52.34	52.36	52.27
TiO_2	0.97	0.80	0.86	1.09	1.09	1.09
Al_2O_3	15.48	17.73	17.60	17.77	17.80	17.80
FeO	8.47	6.50	7.36	9.20	9.17	9.20
MnO	0.17	0.14	0.16	0.18	0.18	0.18
MgO	7.99	4.19	4.74	6.06	6.03	6.06
CaO	9.51	7.23	7.73	9.31	9.32	9.35
Na_2O	2.99	3.92	3.55	3.21	3.21	3.20
K_2O	0.93	1.30	1.11	0.67	0.67	0.66
P_2O_5	0.19	0.21	0.19	0.18	0.19	0.18
Sum	100	100	100	100	100	100
Li		19.39			10.83	
Be		0.78			0.54	
Sc	32	22	21	30	32	31
V	248	183	200	264	263	262
Cr	318	58	61	71	71	72
Co	36	23	26	32	32	31
Ni	73	40	41	24	24	24
Cu	68	66	72	52	51	47
Zn	80	79	80	87	87	88
Ga	17	18	18	18	18	18
Rb	15	22.62	17	9	9.29	8
Sr	319	398	354	312	313	313
Y	22.8*	17.74	22.1*	25.3*	21.13	25.3*
Zr	92	110	98	92	92	91
Nb	2.4*	2.44	2.7*	2.5*	2.1	2.8*
Mo	0.5*	0.8	0.4*	0.6*	0.76	0.6*
Cd		0.09			0.11	
Sn		0.76			0.82	
Sb		0.27			0.07	
Cs		0.65			0.27	
Ba	313	481	446	199	199	201
La	6.0*	10.5	9.0*	6.0*	6.6	8.0*
Ce	15.0*	20.82	19.0*	15.0*	14.81	14.0*
Pr		3.08			2.37	
Nd	13.8*	14.65	14.7*	8.6*	12.24	9.0*
Sm	4.0*	3.56	3.4*	2.8*	3.5	3.2*
Eu		1.16			1.21	
Gd		3.8			4.11	
Tb		0.59			0.69	
Dy		3.69			4.5	
Ho		0.74			0.91	
Er		2.25			2.78	
Tm		0.3			0.37	
Yb	2.4*	2.1	2.8*	2.7*	2.55	2.7*
Lu		0.31			0.37	
Hf	2.3*	3.22	2.4*	2.5*	2.6	2.3*
Ta		0.14			0.11	
W		0.31			0.06	
Tl		0.08			0.03	
Pb	3.7*	3.65	3.4*	2.5*	1.84	2.3*
Th	0.9*	0.89	0.9*	0.8*	0.36	0.1*
U	0.3*	0.59	0.4*	0.2*	0.3	0.1*

E-table 1 *(continued)*

Sample	KAM-09-61	KAM-09-65	KAM-08-86	KAM-08-21	KAM-07-17	KAM-07-19
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	stratovolcano	stratovolcano	stratovolcano	stratovolcano	dike	dike
Lat (N)	55°56'44.3"	55°57'10"	55°57'36.4"	56°0'54.3"	55°59'44.3"	55°59'39.1"
Long (E)	160°33'47.8"	160°37'5.3"	160°42'47.1"	160°31'0.2"	160°32'49.5"	160°32'17.6"
SiO_2	53.27	52.99	52.03	52.59	52.28	52.25
TiO_2	1.10	1.11	1.08	1.07	1.11	1.09
Al_2O_3	18.04	18.24	16.92	18.26	17.58	17.99
FeO	8.85	8.81	9.23	9.21	9.22	9.15
MnO	0.18	0.17	0.18	0.18	0.18	0.18
MgO	5.38	5.37	6.99	5.56	6.04	5.90
CaO	8.86	9.02	9.78	8.85	9.54	9.40
Na_2O	3.24	3.35	3.01	3.30	3.20	3.18
K_2O	0.89	0.74	0.63	0.78	0.67	0.68
P_2O_5	0.18	0.19	0.17	0.20	0.18	0.18
Sum	100	100	100	100	100	100
Li		13.01				11.01
Be		0.53				0.56
Sc	32	29	38	29	34	31
V	276	271	264	263	277	271
Cr	25	47	130	38	76	73
Co	31	29	34	31	32	31
Ni	18	19	38	20	24	22
Cu	46	50	62	57	60	55
Zn	92	88	84	90	88	87
Ga	19	19	17	19	18	18
Rb	13	10.32	9	10	9	9.8
Sr	307	318	298	304	327	321
Y	25.3*	21.45	24.8*	26.2*	25.3*	23.06
Zr	93	94	87	90	89	88
Nb	2.3*	2.24	2.7*	2.5*	2.7*	1.94
Mo	0.4*	0.71	0.6*	0.6*	0.7*	0.79
Cd		0.1				0.13
Sn		0.97				0.81
Sb		0.11				0.1
Cs		0.22				0.31
Ba	314	237	187	243	198	211
La	5.0*	6.87	4.0*	7.0*	8.0*	6.63
Ce	21.0*	15.33	15.0*	16.0*	19.0*	14.89
Pr		2.44				2.39
Nd	9.1*	12.57	7.8*	9.1*	13.3*	12.5
Sm	3.3*	3.63	2.5*	2.9*	3.5*	3.54
Eu		1.22				1.21
Gd		4.21				4.2
Tb		0.7				0.68
Dy		4.58				4.55
Ho		0.93				0.93
Er		2.84				2.8
Tm		0.38				0.37
Yb	2.7*	2.6	2.6*	2.7*	2.2*	2.61
Lu		0.38				0.38
Hf	2.4*	2.77	2.1*	2.4*	2.3*	2.54
Ta		0.12				0.13
W		0.08				0.05
Tl		0.04				0.05
Pb	3.4*	1.87	2.4*	3.1*	2.0*	2.11
Th	1.2*	0.41	0.5*	0.5*	1.0*	0.4
U	0.4*	0.34	0.2*	0.1*	0.3*	0.34

E-table 1 *(continued)*

Sample	KAM-07-20	KAM-08-11	KAM-08-30	KAM-08-49	KAM-08-50	KAM-08-52
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	dike	dike	dike	dike	dike	dike
Lat (N)	55°59'17.8"	56°0'11.4"	55°59'50"	56°0'56.7"	56°0'56.5"	56°1'8.4"
Long (E)	160°31'57.8"	160°32'45"	160°32'9.6"	160°31'54.7"	160°31'57.1"	160°32'1.6"
SiO_2	61.42	54.43	61.25	54.55	53.46	53.50
TiO_2	0.57	0.97	0.59	1.06	1.07	1.07
Al_2O_3	17.41	16.50	17.46	17.83	18.37	18.33
FeO	5.29	8.17	5.41	8.50	8.92	8.97
MnO	0.12	0.16	0.12	0.18	0.18	0.18
MgO	3.22	6.37	3.21	4.92	4.97	4.96
CaO	6.45	9.04	6.45	8.35	8.77	8.71
Na_2O	4.07	3.15	4.06	3.40	3.20	3.21
K_2O	1.27	1.03	1.27	1.02	0.89	0.89
P_2O_5	0.18	0.18	0.18	0.19	0.19	0.19
Sum	100	100	100	100	100	100
Li			14		11.6	
Be			0.77		0.42	
Sc	17	34	18	28	28	27
V	119	241	126	266	261	262
Cr	47	128	39	13	19	20
Co	17	32	17	28	30	31
Ni	27	48	23	12	17	17
Cu	33	79	33	31	56	46
Zn	70	84	70	95	91	91
Ga	18	18	17	19	19	19
Rb	25	14	22.84	15	12.23	13
Sr	412	313	406	319	310	311
Y	16.2*	23.9*	15.02	26.1*	23.43	26.2*
Zr	120	100	119	94	91	91
Nb	2.8*	2.5*	2.26	2.8*	1.95	2.4*
Mo	0.4*	0.5*	0.83	0.6*	0.89	0.6*
Cd			0.08		0.14	
Sn			0.54		0.85	
Sb			0.24		0.12	
Cs	0.3*		0.37		0.29	
Ba	510	375	503	425	366	373
La	9.0*	9.0*	10.67	8.0*	7.13	8.0*
Ce	21.0*	19.0*	20.35	18.0*	15.36	15.0*
Pr			2.78		2.44	
Nd	12.4*	9.7*	12.4	12.9*	12.57	12.4*
Sm	3.2*	2.6*	2.78	3.7*	3.49	3.6*
Eu			0.88		1.19	
Gd			2.9		4.21	
Tb			0.43		0.68	
Dy			2.78		4.46	
Ho			0.56		0.91	
Er			1.71		2.76	
Tm			0.23		0.37	
Yb	2.0*	2.6*	1.69	2.8*	2.62	2.8*
Lu			0.26		0.39	
Hf	2.8*	2.9*	3.22	2.6*	2.63	2.5*
Ta			0.14		0.11	
W			0.11		0.06	
Tl			0.05		0.05	
Pb	4*	3.9*	3.85	3.5*	2.86	2.9*
Th	1.4*	0.9*	1.14	1.0*	0.55	0.4*
U	0.3*	0.2*	0.73	0.3*	0.45	0.2*

E-table 1 *(continued)*

Sample	KAM-08-84	KAM-08-A1	KAM-08-A4	KAM-09-01	KAM-09-03	KAM-09-04
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	dike	dike	dike	dike	dike	dike
Lat (N)	55°57'39.8"	55°58'54.2"	55°59'2.6"	55°59'56.9"	55°59'36.6"	55°59'34.4"
Long (E)	160°42'57.4"	160°41'12.6"	160°40'6.8"	160°38'44.6"	160°39'1"	160°39'2.2"
SiO_2	53.20	53.08	54.19	53.68	54.10	54.13
TiO_2	1.03	1.11	1.02	1.06	1.03	0.95
Al_2O_3	17.82	18.54	17.21	18.79	17.20	16.42
FeO	8.78	8.86	8.23	8.77	8.27	8.37
MnO	0.18	0.17	0.16	0.17	0.16	0.17
MgO	5.66	5.11	5.84	4.55	5.90	6.50
CaO	9.13	8.79	8.78	8.54	8.80	9.07
Na_2O	3.28	3.41	3.22	3.49	3.22	3.16
K_2O	0.73	0.74	1.14	0.76	1.13	1.04
P_2O_5	0.19	0.19	0.20	0.20	0.20	0.18
Sum	100	100	100	100	100	100
Li	10.44	12.14				15.69
Be	0.52	0.48				0.61
Sc	30	27	31	27	33	31
V	237	265	255	245	258	235
Cr	69	33	55	17	56	149
Co	29	28	31	27	31	32
Ni	24	17	25	12	25	44
Cu	50	46	47	48	44	81
Zn	88	89	84	90	86	84
Ga	18	20	18	20	18	17
Rb	10.95	9.99	17	11	17	15.1
Sr	322	324	340	337	343	303
Y	23.09	22.75	23.0*	25.5*	22.9*	21.92
Zr	98	95	95	99	95	107
Nb	2.19	2.2	2.3*	2.8*	2.5*	2.2
Mo	1.02	0.67	0.5*	0.6*	0.4*	0.88
Cd	0.12	0.12				0.14
Sn	0.9	0.81				1.08
Sb	0.1	0.11				0.14
Cs	0.34	0.26				0.39
Ba	217	237	385	233	379	319
La	7.02	6.95	12.0*	6.0*	8.0*	8
Ce	15.52	15.4	18.0*	18.0*	21.0*	16.9
Pr	2.45	2.43				2.62
Nd	12.37	12.54	12.7*	10.3*	14.9*	13.04
Sm	3.47	3.54	3.5*	3.1*	4.3*	3.52
Eu	1.2	1.23				1.16
Gd	4.17	4.23				4.06
Tb	0.67	0.69				0.66
Dy	4.41	4.53				4.32
Ho	0.9	0.93				0.89
Er	2.73	2.8				2.66
Tm	0.37	0.38				0.36
Yb	2.59	2.61	2.7*	2.8*	2.7*	2.5
Lu	0.39	0.39				0.37
Hf	2.73	2.72	2.4*	2.7*	2.4*	3.06
Ta	0.12	0.12				0.12
W	0.07	2.57				0.07
Tl	0.05	0.04				0.07
Pb	2.31	2.06	4.1*	3.4*	2.9*	2.63
Th	0.42	0.4	1.2*	0.5*	0.5*	0.48
U	0.35	0.32	0.4*	0.2*	0.2*	0.46

E-table 1 *(continued)*

Sample	KAM-09-08	KAM-09-09	KAM-09-16	KAM-09-34	KAM-09-40	KAM-09-45
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	dike	dike	dike	dike	dike	dike
Lat (N)	55°59'14.8"	55°59'14.8"	56°0'43"	55°58'46.6"	55°59'19.7"	55°59'21.3"
Long (E)	160°37'37.4"	160°37'37.4"	160°38'25.2"	160°37'59"	160°38'22.3"	160°38'13.7"
SiO_2	54.79	53.90	55.75	53.91	53.91	53.39
TiO_2	1.03	1.02	0.98	1.02	0.96	0.94
Al_2O_3	17.78	17.20	17.00	17.19	16.47	16.16
FeO	8.33	8.46	7.98	8.48	8.26	8.75
MnO	0.16	0.17	0.16	0.17	0.17	0.18
MgO	5.07	5.88	5.22	5.84	6.78	7.36
CaO	8.27	8.81	8.45	8.80	9.19	9.35
Na_2O	3.34	3.28	3.17	3.29	3.11	2.93
K_2O	1.03	1.09	1.11	1.10	0.98	0.77
P_2O_5	0.19	0.18	0.18	0.18	0.18	0.17
Sum	100	100	100	100	100	100
Li	14.48	15.35				14.26
Be	0.62	0.64				0.58
Sc	27	34	31	29	31	34
V	256	247	257	250	243	261
Cr	66	97	35	94	181	186
Co	28	33	25	31	32	36
Ni	18	39	6	38	52	57
Cu	36	88	16	91	57	64
Zn	85	87	85	87	83	84
Ga	19	18	18	19	17	18
Rb	17.46	16.06	17	15	15	16.11
Sr	333	315	328	315	335	309
Y	20.39	22.75	22.8*	26.6*	22.7*	21.8
Zr	96	112	87	112	94	81
Nb	2.12	2.3	2.1*	3.0*	2.4*	2.18
Mo	0.96	0.79	0.5*	0.5*	0.4*	0.83
Cd	0.11	0.26				0.12
Sn	0.83	1.02				0.92
Sb	0.14	0.15				0.15
Cs	0.54	0.42				0.43
Ba	339	363	406	366	357	326
La	7.99	8.32	7.0*	3.0*	11.0*	8.01
Ce	16.57	17.56	19.0*	17.0*	21.0*	16.81
Pr	2.53	2.75				2.63
Nd	12.68	13.71	11.3*	13.4*	12.3*	13.29
Sm	3.44	3.75	3.0*	3.6*	3.3*	3.68
Eu	1.16	1.22				1.22
Gd	3.98	4.35				4.28
Tb	0.64	0.71				0.7
Dy	4.17	4.66				4.59
Ho	0.84	0.94				0.94
Er	2.56	2.85				2.85
Tm	0.34	0.38				0.38
Yb	2.35	2.65	2.9*	2.7*	2.6*	2.64
Lu	0.35	0.39				0.39
Hf	2.78	3.19	2.4*	3.1*	2.4*	2.83
Ta	0.12	0.13				0.12
W	0.09	0.06				0.09
Tl	0.09	0.08				0.06
Pb	2.62	2.44	4.0*	4.2*	4.0*	3.04
Th	0.62	0.52	1.3*	0.9*	0.2*	0.66
U	0.47	0.45	0.4*	0.4*	0.1*	0.44

E-table 1 *(continued)*

Sample	2311*	KAM-07-03	KAM-07-09	KAM-07-10	KAM-07-11	KAM-07-13
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	cone[1]	cone	cone	cone	cone	cone
Lat (N)	55°57'54"	55°58'4.2"	55°58'27.7"	55°59'26.1"	55°59.899"	55°58'17.5"
Long (E)	160°27'8.7"	160°31'32.1"	E 160°29'3.5"	160°30'10.0"	160°30.275"	160°28'59.7"
SiO_2	52.24	52.82	52.54	52.49	53.02	52.46
TiO_2	0.98	0.91	0.97	0.97	0.89	0.96
Al_2O_3	17.27	17.39	17.27	17.20	15.07	17.32
FeO	9.29	8.46	8.74	8.79	8.61	8.73
MnO	0.17	0.16	0.17	0.17	0.17	0.17
MgO	6.46	6.89	6.63	6.66	8.81	6.65
CaO	9.68	9.25	9.65	9.67	9.76	9.67
Na_2O	3.06	3.25	3.19	3.20	2.79	3.20
K_2O	0.69	0.70	0.68	0.68	0.73	0.67
P_2O_5	0.17	0.16	0.16	0.16	0.16	0.16
Sum	100	100	100	100	100	100
Li	8.4	10.05			10.84	11.2
Be	0.42	0.48			0.53	0.49
Sc	31.65	30	34	32	34	34
V	269.5	238	260	262	248	264
Cr	194.5	162	100	94	428	92
Co	33	34	34	35	38	34
Ni	43.5	65	47	49	101	48
Cu		76	97	100	102	109
Zn	81	79	81	81	77	81
Ga	16	18	18	19	16	19
Rb	11	10.81	11	10	12.54	10.58
Sr	342.5	340	342	344	275	345
Y	19.55	18.44	21.2*	21.8*	17.85	19.01
Zr	72.65	82	81	82	80	81
Nb	2.55	1.58	2.4*	2.2*	1.55	1.55
Mo		0.7	0.5*	0.4*	0.74	0.58
Cd		0.09			0.09	0.1
Sn		0.69			0.68	0.66
Sb		0.13			0.17	0.1
Cs	0.35	0.21		2.0*	0.43	0.35
Ba	265	242	245	245	266	243
La	5.39	6.48	4.0*	10.0*	6.3	6.34
Ce	14.02	13.78	13.0*	20.0*	13.52	13.73
Pr	2.31	2.13			2.07	2.15
Nd	11.38	10.69	9.0*	11.6*	10.45	10.85
Sm	3.32	2.93	2.6*	3.0*	2.88	3.07
Eu	1.05	1.01			0.96	1.05
Gd	3.25	3.45			3.38	3.55
Tb	0.56	0.52			0.53	0.56
Dy	3.47	3.56			3.55	3.78
Ho	0.71	0.7			0.7	0.75
Er	2.04	2.11			2.08	2.23
Tm	0.31	0.28			0.28	0.3
Yb	2.05	1.91	2.1*	2.1*	1.89	2.04
Lu	0.31	0.28			0.28	0.3
Hf	1.97	2.34	2.2*	2.4*	2.37	2.29
Ta	0.14	0.09			0.09	0.09
W		0.07			0.09	0.05
Tl	0.02	0.04			0.05	0.05
Pb	2.44	2.67	3.0*	2.0*	2.85	2.34
Th	0.49	0.55	1.2*	1.3*	0.55	0.49
U	0.33	0.36	0.4*	0.3*	0.38	0.31

E-table 1 *(continued)*

Sample	KAM-08-01	KAM-08-14	KAM-08-18	KAM-08-19	KAM-08-20	KAM-08-66
Volcano	Kamen	Kamen	Kamen	Kamen	Kamen	Kamen
Complex	cone	cone	cone	cone	cone	cone
Lat (N)	56°0'1.9"	55°59'59.7"	56°0'22.6"	56°0'38.5"	56°0'7"	56°0'13.4"
Long (E)	160°30'46"	160°29'19.3"	160°30'56.4"	160°31'22.9"	160°20'15.8"	160°30'12.5"
SiO_2	52.96	53.93	52.27	52.34	52.25	53.29
TiO_2	0.90	1.04	1.11	1.10	1.11	0.91
Al_2O_3	15.11	17.94	16.71	16.70	16.70	16.10
FeO	8.67	8.29	8.86	8.85	8.86	8.67
MnO	0.17	0.16	0.17	0.17	0.17	0.17
MgO	8.78	5.39	6.98	6.98	7.04	7.42
CaO	9.69	8.44	9.74	9.70	9.76	9.62
Na_2O	2.81	3.69	3.22	3.22	3.19	2.94
K_2O	0.75	0.93	0.74	0.75	0.74	0.74
P_2O_5	0.16	0.19	0.19	0.19	0.19	0.15
Sum	100	100	100	100	100	100
Li	9.91	12.91			8.41	
Be	0.45	0.59			0.56	
Sc	37	29	35	33	34	36
V	250	245	271	268	268	251
Cr	414	58	121	121	124	221
Co	39	31	35	34	35	36
Ni	106	37	51	52	51	63
Cu	64	92	89	97	97	80
Zn	79	86	81	81	81	79
Ga	16	19	18	18	17	17
Rb	12.78	15.17	11	11	11.38	12
Sr	277	341	311	310	309	301
Y	17.96	20.53	24.1*	23.9*	21.31	19.6*
Zr	82	98	98	97	97	78
Nb	1.59	1.9	2.9*	2.7*	2.12	2.0*
Mo	0.72	0.73	0.6*	0.6*	0.73	0.5*
Cd	0.09	0.07			0.09	
Sn	0.7	0.9			0.88	
Sb	0.18	0.18			0.13	
Cs	0.46	0.49			0.37	
Ba	279	389	235	241	235	272
La	6.29	8.11	9.0*	3.0*	7.17	8.0*
Ce	13.6	16.92	18.0*	14.0*	15.7	12.0*
Pr	2.1	2.61			2.41	
Nd	10.43	12.97	11.7*	11.1*	12.3	8.5*
Sm	2.91	3.43	3.1*	3.2*	3.32	2.8*
Eu	0.96	1.14			1.13	
Gd	3.34	3.9			3.96	
Tb	0.54	0.62			0.63	
Dy	3.51	4.01			4.09	
Ho	0.71	0.81			0.83	
Er	2.11	2.41			2.46	
Tm	0.28	0.32			0.33	
Yb	1.98	2.23	2.5*	2.6*	2.29	2.4*
Lu	0.29	0.33			0.34	
Hf	2.36	2.82	2.6*	2.7*	2.7	2.1*
Ta	0.09	0.11			0.12	
W	0.09	0.09			0.08	
Tl	0.05	0.06			0.04	
Pb	2.83	3.36	3.7*	3.3*	2.57	3.5*
Th	0.57	0.76	0.8*	0.9*	0.55	1.2*
U	0.41	0.47	0.2*	0.3*	0.37	0.3*

E-table 1 *(continued)*

Sample	KAM-08-68	KAM-07-01	KAM-08-99	KAM-08-92	PLAT-08-01	PLAT-08-02
Volcano	Kamen	Kulich	Kroshka	Kamen	Ploskie Sopky	Ploskie Sopky
Complex	cone	lava dome	lava dome	Ambon[2]	KGV plateau[3]	KGV plateau[4]
Lat (N)	55°59'50.5"	55°57'57.8"	55°57'16.3"	55°57'40.8"	56°19'36.3"	56°3'25.3"
Long (E)	160°29'58.5"	160°30'58.9	160°42'6.3"	160°45'16.7"	160°50'32.3"	159°52'0.6"
SiO_2	52.99	59.31	61.51	60.31	55.01	53.65
TiO_2	0.91	0.58	0.60	0.69	1.48	1.34
Al_2O_3	15.16	18.83	17.49	18.16	17.85	18.22
FeO	8.68	6.63	5.56	5.79	8.26	8.62
MnO	0.17	0.17	0.13	0.12	0.15	0.15
MgO	8.70	2.20	3.08	3.03	3.53	3.82
CaO	9.66	6.63	6.30	6.44	7.74	8.52
Na_2O	2.81	4.15	3.78	3.88	3.50	3.65
K_2O	0.76	1.17	1.36	1.38	1.94	1.64
P_2O_5	0.16	0.33	0.18	0.20	0.53	0.38
Sum	100	100	100	100	100	100
Li	10.14				22.9	19.91
Be	0.43				1.48	1.17
Sc	35	14	15	16	22	22
V	252	61	120	126	287	302
Cr	400	3	57	24	20	41
Co	39	11	15	16	25	26
Ni	107	2	17	12	30	25
Cu	89	6	16	25	193	157
Zn	79	92	73	77	90	90
Ga	17	19	17	18	20	19
Rb	12.84	23	25	24	49.28	32.83
Sr	278	387	346	337	414	433
Y	18.18	24.1*	18.4*	20.2*	29.54	24.4
Zr	82	140	113	112	220	155
Nb	1.61	4.3*	3.4*	2.9*	5.23	3.54
Mo	0.77	1.0*	0.4*	0.3*	2.34	1.83
Cd	0.09				0.08	0.06
Sn	0.73				1.73	1.37
Sb	0.18				0.48	0.28
Cs	0.43	1.9			1.54	0.96
Ba	269	377	481	440	638	520
La	6.25	11.0*	14.0*	8.0*	21.67	15.67
Ce	13.41	26.0*	22.0*	21.0*	43.28	32.17
Pr	2.05				6.34	4.76
Nd	10.35	14.2*	11.5*	9.8*	29.74	23.22
Sm	2.8	3.5*	3.2*	3.1*	7.03	5.59
Eu	0.96				1.81	1.64
Gd	3.43				7	5.7
Tb	0.54				1.05	0.87
Dy	3.49				6.53	5.41
Ho	0.7				1.27	1.07
Er	2.1				3.84	3.21
Tm	0.28				0.5	0.41
Yb	1.95	2.3*	3.2*	3.2*	3.46	2.89
Lu	0.29				0.49	0.42
Hf	2.34	3.8*	3.1*	3.2*	6.28	4.64
Ta	0.09				0.29	0.19
W	0.09				0.28	0.56
Tl	0.04				0.09	0.05
Pb	2.69	3.0*	5.3*	5.4*	7.12	5.26
Th	0.5	1.2*	0.9*	1.3*	2.44	1.58
U	0.37	0.4*	0.4*	0.5*	1.43	0.97

E-table 1 *(continued)*

Sample	BEZ-09-04	BEZ-09-12	BEZ-09-15	BEZ-09-19	BEZ-09-20	1563
Volcano	Bezymianny	Bezymianny	Bezymianny	Bezymianny	Bezymianny	Pre-Bezymianny
Complex	KGV plateau[5]	lava flow	lava flow	lava flow	lava flow	lava flow
Lat (N)	55°56'0.3"	55°56'36.8"	55°56'51.8"	55°56'27.6"	55°55'14.6"	55°57'17.8"
Long (E)	160°35'14"	160°33'50.8"	160°34'13.5"	160°36'21.2"	160°36'37.8"	160°36'54.6"
SiO_2	52.66	56.07	59.32	60.33	56.04	59.64
TiO_2	1.65	0.84	0.70	0.68	0.83	0.69
Al_2O_3	17.92	16.80	17.24	16.85	16.57	17.24
FeO	8.58	7.72	6.30	5.96	7.74	6.23
MnO	0.16	0.16	0.14	0.13	0.17	0.14
MgO	3.77	5.46	4.08	3.96	5.64	3.90
CaO	8.20	8.50	7.07	6.78	8.61	7.11
Na_2O	3.72	3.17	3.58	3.64	3.12	3.59
K_2O	2.56	1.09	1.40	1.49	1.10	1.27
P_2O_5	0.79	0.18	0.18	0.18	0.18	0.18
Sum	100	100	100	100	100	100
Li	19.35					28.91
Be	2.17					0.93
Sc	23	29	21	18	30	20
V	259	210	163	154	213	156
Cr	62	101	75	82	120	73
Co	24	28	22	20	29	19
Ni	27	27	24	28	31	22
Cu	256	45	39	33	42	27
Zn	95	78	73	70	77	80
Ga	20	17	17	17	17	17
Rb	73	23	27	29	23	24.26
Sr	380	325	346	334	323	350
Y	31.44	22.1*	19.3*	20.9*	21.9*	15.91
Zr	237	98	115	121	97	106
Nb	8.01	2.7*	3.0*	3.0*	2.8*	2.38
Mo	2.18	0.5*	0.3*	0.3*	0.4*	0.95
Cd	0.04					
Sn	2.19					
Sb	0.35					0.78
Cs	2.06					0.83
Ba	560	382	518	552	381	510
La	27.43	6.0*	10.0*	9.0*	11.0*	10.63
Ce	54.83	18.0*	21.0*	25.0*	17.0*	20.49
Pr	7.82					2.87
Nd	36.06	11.0*	11.9*	13.1*	11.2*	13.32
Sm	7.95	2.9*	3.1*	3.3*	3.1*	3.14
Eu	2.09					0.97
Gd	7.61					3.24
Tb	1.13					0.5
Dy	6.92					3.21
Ho	1.37					0.64
Er	4.18					1.99
Tm	0.55					0.26
Yb	3.82	2.8*	3.0*	3.0*	2.8*	1.87
Lu	0.55					0.28
Hf	6.56	2.8*	3.3*	3.2*	2.8*	3.1
Ta	0.42					0.15
W	0.38					0.14
Tl	0.05					0.14
Pb	6.48	4.1*	5.2*	6.8*	3.1*	3.95
Th	2.97	1.9*	1.3*	2.0*	1.0*	1.21
U	1.68	0.5*	0.4*	0.5*	0.3*	0.81

E-table 1 *(continued)*

Sample	1566	M-1484	KAM-09-62
Volcano	Pre-Bezymianny	Pre-Bezymianny	Pre-Bezymianny
Complex	lava flow	lava flow	lava flow
Lat (N)	55°57'17.8"	55°57'17.8"	55°57'17.8"
Long (E)	160°36'54.6"	160°36'54.6"	160°36'54.6"
SiO_2	60.33	57.25	56.59
TiO_2	0.69	0.78	0.81
Al_2O_3	16.85	16.90	16.74
FeO	5.96	7.40	7.53
MnO	0.13	0.16	0.16
MgO	3.95	4.84	5.33
CaO	6.78	8.08	8.32
Na_2O	3.65	3.23	3.18
K_2O	1.48	1.17	1.16
P_2O_5	0.18	0.18	0.18
Sum	100	100	100
Li			
Be			
Sc	20	27	28
V	154	194	204
Cr	81	76	116
Co	19	25	26
Ni	29	21	26
Cu	41	39	32
Zn	69	77	76
Ga	17	17	17
Rb	29	24	25
Sr	331	327	329
Y	20.6*	20.8*	21.7*
Zr	120	97	98
Nb	3.3*	3.0*	2.7*
Mo	0.4*	0.5*	0.4*
Cd			
Sn			
Sb			
Cs			
Ba	547	409	402
La	13.0*	9.0*	9.0*
Ce	25.0*	21.0*	20.0*
Pr			
Nd	15.1*	12.5*	13.2*
Sm	3.6*	3.9*	3.7*
Eu			
Gd			
Tb			
Dy			
Ho			
Er			
Tm			
Yb	3.0*	2.9*	2.9*
Lu			
Hf	2.7*	2.8*	2.5*
Ta			
W			
Tl			
Pb	5.5*	3.6*	3.4*
Th	1.4*	1.6*	1.2*
U	0.4*	0.5*	0.4*

* All major elements, Sc, V, Cr, Co, Ni, Zn, Ga, Sr, Zr, Ba and elements, marked by stars, are determined by XRF (X-ray fluorescence spectrometry). Others values come from the ICP-MS (inductively coupled plasma mass spectrometry) analyses. Major elements are presented in wt.%, trace elements in ppm.
[1] cone – lava flow from the monogenetic cone.
[2] Ambon – lava fragment from the Ambon deposits.
[3] KGV – Klyuchevskaya group of volcanoes. Sample PLAT-08-01 was collected in Klyuchi settlement.
[4] Sample PLAT-08-02 was collected in Kozyrevsk settlement.
[5] Sample BEZ-09-04 was collected near Plotina camp.