Correction to: Geochemistry of ultramafic, mafic, and felsic xenoliths from the Gölcük (Isparta, SW Turkey) alkali rocks: genetic relationship with arc magmas

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Published online: 28 May 2019
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Correction to: Arabian Journal of Geosciences (2019) 12: 306
<https://doi.org/10.1007/s12517-019-4461-6>

The original version of this paper was published with error. Table 1 consists of five sheets but only one was processed, therefore four sheets were missing. Given in this article is the corrected table.

The online version of the original article can be found at <https://doi.org/10.1007/s12517-019-4461-6>

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Table 1 Whole-rock major (wt%) and trace (ppm) element analyses of representative samples of the host rocks, ultramafic, mafic, and felsic xenoliths from the Gölcük volcanics. Mg# = atomic $100 \times (\text{Mg}/\text{Mg} +$ $\text{Fe}^{2+})$, assuming $\text{Fe}_2\text{O}_3/\text{FeO} = 0.1$. Chemical compositions of host rocks are from Elitok et al. (2010)

Sample	KY-01	KY-03	KY-05	KY-19	KY-20	KY-22	KY-12	KY-16	KY-17	KY-21
Xenolith	Ultramafic						Mafic			
SiO ₂ (wt.%)	43.92	44.53	37.46	41.59	43.41	39.13	46.88	47.79	48.82	45.93
Al ₂ O ₃	11.69	12.94	12.86	7.91	9.06	8.00	8.01	6.15	12.64	13.49
Fe ₂ O ₃	7.61	10.03	4.95	10.31	11.30	7.88	8.82	5.74	7.62	9.27
MgO	10.06	8.37	25.93	13.99	13.71	14.64	10.61	16.96	8.45	7.87
CaO	15.03	14.52	1.21	14.23	11.09	16.63	17.33	17.44	11.88	12.46
Na ₂ O	1.86	2.46	0.63	0.65	0.61	0.52	1.84	0.56	2.88	2.44
K ₂ O	3.45	2.14	7.44	4.29	4.90	4.29	2.05	2.47	3.26	2.67
TiO ₂	1.19	1.29	0.36	2.09	1.84	1.47	0.76	0.85	0.90	1.21
P ₂ O ₅	3.23	2.04	1.26	2.84	1.35	5.40	2.01	0.22	1.61	1.35
MnO	0.11	0.17	0.43	0.19	0.18	0.10	0.22	0.08	0.14	0.22
LOI	0.8	0.4	1.5	0.8	1.2	0.8	0.7	0.8	0.5	1.9
Total	98.95	98.93	94.04	98.97	98.78	98.92	99.28	99.27	98.74	98.88
Mg#	73.0	63.0	91.0	73.0	71.0	79.0	71.0	86.0	69.0	63.0
Sr (ppm)	2637.0	4079.0	618.0	1061.0	660.0	1634.0	1943.0	872.8	5165.0	3954.0
Ba	3465.0	1525.0	13922.0	3431.0	6740.0	3689.0	934.0	2525.0	2586.0	2693.0
Rb	82.3	60.6	578.5	139.2	181.9	149.6	91.4	65.2	117.6	95.9
Cs	1.8	1.4	16.6	6.5	11.0	13.6	1.7	1.2	2.2	36.5
Ga	13.1	19.3	13.7	13.0	15.9	10.0	14.7	6.9	16.2	17.2
Hf	5.6	10.1	7.0	16.9	1.6	2.2	4.5	1.1	5.6	6.6
Ni	26.6	18.4	13.9	133.1	157.9	74.3	28.6	68.3	45.5	16.6
Sc	37	29	4	36	32	27	46	55	25	32
Cr	48	48	55	582	582	89	144	1383	157	82
Zr	177.9	322.6	277.5	789.3	51.3	65.4	134.8	44.3	213.2	261.9
Y	26.4	42.8	402.1	39.9	25.7	40.1	31.2	7.8	33.1	34.9
Nb	23.8	28.9	50.8	39.9	34.3	16.8	11.0	4.1	24.7	45.3
Ta	1.0	1.4	1.0	1.4	0.8	0.5	0.2	0.3	1.1	1.4
Th	34.2	33.0	132.3	13.6	5.5	18.9	16.5	3.3	26.3	22.4
U	6.7	6.0	248.7	2.6	2.1	4.3	4.2	0.5	6.0	4.3
Pb	3.5	3.5	9.3	1.7	2.0	2.0	1.9	3.7	2.1	6.6
La	193.3	281.5	11036	232.5	130.1	321.3	232.5	30.7	249.7	198.6
Ce	374.3	584.7	16201	438.3	275.9	626.2	443.5	63.9	501.5	402.9
Pr	43.38	70.39	1179	49.03	32.19	71.61	50.29	8.83	57.38	46.96
Nd	160.7	276.8	2986	180.8	127.4	289.4	187.2	39.7	221.0	181.1
Sm	25.21	40.25	245.5	26.67	18.48	37.88	26.04	6.76	32.03	26.17
Eu	5.91	9.33	63.28	6.60	4.07	9.22	6.03	1.89	7.64	5.93
Gd	16.60	22.77	156.3	19.16	12.40	24.13	15.92	4.86	19.97	16.30
Tb	1.63	2.60	13.78	2.30	1.36	2.32	1.67	0.51	2.00	1.85
Dy	6.31	10.91	58.85	10.14	5.69	9.68	6.81	2.28	7.50	8.86
Ho	0.86	1.43	9.22	1.61	0.99	1.21	1.15	0.29	1.18	1.24
Er	2.63	3.73	29.21	3.88	2.25	3.16	2.33	0.67	2.85	3.54
Tm	0.29	0.52	4.26	0.47	0.30	0.41	0.37	0.08	0.37	0.46
Yb	1.61	2.91	26.79	3.10	2.01	2.23	2.16	0.43	2.40	3.01
Lu	0.21	0.41	3.31	0.44	0.26	0.28	0.34	0.06	0.34	0.43
(La/Sm) _N	4.83	4.40	28.3	5.49	4.43	5.34	5.62	2.86	4.91	4.78
(Gd/Yb) _N	8.36	6.34	4.73	5.01	5.00	8.77	5.97	9.16	6.74	4.39

Table 1 (continued)

Eu/Eu*	0.88	0.94	0.99	0.89	0.82	0.93	0.91	1.01	0.92	0.88	
La _N	527	767	30071	634	354	875	634	84	680	541	
Yb _N	6.5	11.7	108.0	12.5	8.1	9.0	8.7	1.7	9.7	12.1	
(La/Yb) _N	81.1	65.4	278.4	50.7	43.7	97.4	72.7	48.2	70.3	44.6	
Ba/Nb	145.58	52.76	274.05	86.00	196.50	219.58	84.90	615.85	104.69	59.45	
La/Nb	8.12	9.74	217.24	5.83	3.79	19.12	21.13	7.49	10.11	4.38	
Rb/Nb	3.5	2.1	11.4	3.5	5.3	8.9	8.3	15.9	4.8	2.1	
Th/Ta	34.20	23.57	132.30	9.71	6.87	37.80	82.50	11.00	23.91	16.00	
Th/Nb	1.43	1.14	2.60	0.34	0.16	1.13	1.50	0.80	1.06	0.49	
Rb/Sr	0.031	0.015	0.936	0.131	0.276	0.092	0.047	0.075	0.023	0.024	
Sample	KY-23	KY-25	KY-04	KY-06	KY-07	KY-08	KY-09	KY-13	KY-14	KY-15	KY-18
Xenolith	Mafic		Felsic								
SiO ₂ (wt.%)	47.30	49.68	58.76	54.59	61.92	59.42	60.09	53.32	57.34	50.80	59.48
Al ₂ O ₃	7.06	5.31	16.11	16.83	17.67	17.52	18.35	17.99	17.82	17.67	17.25
Fe ₂ O ₃	6.47	6.63	3.02	6.02	3.22	4.71	3.81	6.32	5.23	6.04	3.55
MgO	16.46	14.45	3.08	3.15	1.34	1.49	1.56	3.06	1.73	1.65	1.79
CaO	14.51	18.21	8.10	7.14	2.13	3.75	3.71	6.88	4.66	5.49	3.98
Na ₂ O	0.57	0.93	4.95	4.78	5.70	5.34	6.28	4.01	4.53	5.27	4.45
K ₂ O	3.70	1.77	3.41	3.77	6.05	5.09	3.99	4.95	5.50	3.93	5.94
TiO ₂	1.10	0.66	0.38	0.79	0.54	0.64	0.49	0.87	0.67	0.81	0.44
P ₂ O ₅	0.63	0.46	0.30	0.72	0.21	0.27	0.29	0.74	0.31	0.31	0.33
MnO	0.09	0.16	0.17	0.13	0.07	0.10	0.08	0.12	0.11	0.12	0.09
LOI	1.2	0.9	0.4	1.0	0.3	0.5	0.5	0.4	0.6	0.4	1.8
Total	99.21	99.32	98.69	98.90	99.14	98.83	99.13	98.64	98.47	98.47	99.07
Mg#	84.0	81.0	67.0	51.0	46.0	39.0	45.0	49.0	40.0	35.0	50.0
Sr (ppm)	905.1	1242.0	5724.0	4750.0	3041.0	5040.0	3738.0	5308.0	6464.0	6967.0	3448.0
Ba	2590.0	1576.0	2852.0	2304.0	2291.0	2888.0	2111.0	3929.0	4281.0	4016.0	2696.0
Rb	104.9	55.5	50.9	85.2	120.0	69.7	72.6	80.0	74.0	49.5	149.9
Cs	9.9	4.0	0.3	3.1	0.9	0.4	0.9	0.5	0.2	0.2	3.6
Ga	8.5	8.4	21.1	22.0	23.6	19.6	22.5	23.4	21.1	21.3	20.7
Hf	2.5	3.3	8.7	9.1	13.3	10.1	9.0	7.3	16.6	5.4	10.5
Ni	132.8	59.7	0.9	4.4	5.9	4.5	4.7	2.2	1.6	1.6	6.4
Sc	33	40	4	13	3	4	6	10	5	5	6
Cr	541	958	21	34	21	14	14	14	14	14	41
Zr	80.9	83.7	353.5	366.3	600.1	453.1	421.3	353.4	854.0	185.3	397.2
Y	14.7	17.8	34.3	26.5	27.0	28.1	18.2	26.3	31.5	32.8	21.8
Nb	17.9	10.8	55.7	48.7	52.7	63.5	40.8	58.1	61.0	72.7	68.3
Ta	0.5	0.7	2.4	1.6	2.7	3.5	2.0	2.3	3.7	4.4	3.0
Th	8.0	5.4	52.3	65.3	47.8	25.5	52.7	58.4	28.9	48.6	71.2
U	1.3	1.0	8.7	17.4	9.6	6.7	11.2	15.0	8.0	7.9	20.4
Pb	1.0	0.9	4.5	5.7	2.0	1.9	0.9	6.0	1.6	1.5	8.1
La	83.4	62.1	427.5	190.1	183.2	175.3	111.5	222.6	127.1	236.6	179.3
Ce	187.4	134.6	629.6	351.0	309.2	366.3	218.0	397.6	292.2	438.6	300.1
Pr	23.32	17.37	57.62	38.80	31.53	41.43	23.19	43.11	36.68	46.74	30.01
Nd	94.3	75.1	180.8	138.1	104.6	146.5	79.9	153.6	135.4	157.6	98.5
Sm	13.89	11.76	22.82	19.79	14.32	20.81	11.68	21.31	20.02	22.14	12.41
Eu	3.66	2.74	4.85	4.75	3.28	5.16	2.89	5.30	5.34	5.40	3.21
Gd	8.72	7.34	12.95	12.35	8.99	12.29	7.87	12.57	12.64	13.67	7.53
Tb	0.95	0.83	1.42	1.34	1.10	1.42	0.89	1.41	1.50	1.55	0.95
Dy	3.70	4.16	6.44	5.79	4.77	6.65	3.64	5.26	6.48	6.50	4.24
Ho	0.54	0.57	1.05	0.96	0.93	0.91	0.75	0.76	1.14	1.19	0.70
Er	1.29	1.62	3.07	2.54	2.83	2.70	2.16	2.67	3.05	2.69	2.23
Tm	0.17	0.22	0.51	0.35	0.40	0.40	0.29	0.31	0.39	0.42	0.33
Yb	1.04	1.47	3.19	2.30	2.38	2.25	1.73	1.86	2.55	2.54	2.02
Lu	0.14	0.19	0.46	0.34	0.42	0.40	0.24	0.31	0.36	0.34	0.32
(La/Sm) _N	3.78	3.32	11.79	6.05	8.05	5.30	6.01	6.57	4.00	6.73	9.09
(Gd/Yb) _N	6.80	4.05	3.29	4.35	3.06	4.43	3.69	5.48	4.02	4.36	3.02
Eu/Eu*	1.02	0.90	0.86	0.93	0.88	0.99	0.92	1.00	1.03	0.95	1.01
La _N	227	169	1165	518	499	478	304	607	346	645	489
Yb _N	4.2	5.9	12.9	9.3	9.6	9.1	7.0	7.5	10.3	10.2	8.1
(La/Yb) _N	54.2	28.5	90.6	55.9	52.0	52.6	43.6	80.9	33.7	62.9	60.0
Ba/Nb	144.69	145.92	51.20	47.31	43.47	45.48	51.74	67.62	70.18	55.24	39.47
La/Nb	4.66	5.75	7.67	3.90	3.47	2.76	2.73	3.83	2.08	3.25	2.62

Table 1 (continued)

Rb/Nb	5.9	5.1	0.9	1.7	2.3	1.1	1.8	1.4	1.2	0.7	2.2
Th/Ta	16.00	7.71	21.79	40.81	17.70	7.28	26.35	25.39	7.81	11.04	23.73
Th/Nb	0.45	0.50	0.94	1.34	0.91	0.40	1.29	1.00	0.47	0.67	1.04
Rb/Sr	0.016	0.045	0.009	0.018	0.039	0.014	0.019	0.015	0.011	0.007	0.043
Sample	GI-8	GI-29	GI-39	GI-45	GI-47	GI-93	GP-11	GP-12			
Host rock	Trachyte										
SiO ₂ (wt.%)	66.31	66.09	61.35	64.31	63.40	61.06	63.27	63.03			
Al ₂ O ₃	16.99	17.09	19.23	16.81	16.12	16.94	16.48	16.40			
Fe ₂ O ₃	2.38	1.37	2.66	3.24	3.38	3.91	3.07	3.03			
MgO	0.56	0.49	0.40	0.96	1.39	1.55	1.84	1.72			
CaO	1.90	1.51	2.00	2.46	2.49	3.89	3.03	3.16			
Na ₂ O	4.68	5.24	5.10	5.09	4.81	5.34	5.12	5.17			
K ₂ O	5.33	5.04	6.03	5.43	6.34	5.25	5.80	5.80			
TiO ₂	0.53	0.41	0.40	0.48	0.50	0.50	0.38	0.37			
P ₂ O ₅	0.29	0.19	0.22	0.26	0.30	0.28	0.18	0.23			
MnO	0.02	0.01	0.03	0.06	0.06	0.09	0.18	0.06			
LOI	0.8	2.2	2.1	0.7	0.8	0.6	0.1	0.2			
Total	99.79	99.64	99.52	99.81	99.60	99.41	99.33	99.17			
Mg#	32.0	41.7	23.0	37.0	45.0	44.0	54.6	53.2			
Sr (ppm)	1314.5	2241.6	2746.4	1373.7	2352.2	3616.0	3302.4	3470.8			
Ba	1589.6	1179.8	2469.5	1379.1	2118.8	2488.6	2153.9	2277.0			
Rb	173.9	129.6	187.5	191.0	202.7	158.6	144.3	147.0			
Cs	5.7	6.9	12.3	5.9	6.9	2.6	2.3	1.7			
Ga	21.4	21.4	25.4	21.2	22.4	25.5	22.2	24.1			
Hf	8.7	6.6	13.1	9.5	11.1	11.3	9.1	9.6			
Ni	9	27	5	5	28	12	15.1	14.9			
Sc	5	4	3	4	5	5	4	3			
Cr	6.8	34	7	7	34	21	27.4	34.2			
Zr	357.8	285.4	523.9	353.5	431.4	460.4	319.8	294.5			
Y	20.7	9.6	34.2	23.2	22.3	24.0	17.0	17.2			
Nb	42.8	43.8	79.4	44.9	47.1	47.3	39.5	37.8			
Ta	2.6	3.0	4.2	2.7	2.6	2.6	2.1	2.1			
Th	45.1	38.5	98.4	55.2	65.1	78.6	61.0	63.1			
U	10.7	14.7	28.0	16.1	17.6	18.2	17.7	19.7			
Pb	6.5	5.3	10.9	34.7	22.2	4.3	19.3	5.6			
La	91.5	85.1	211.3	119.4	158.8	165.9	121.5	126.8			
Ce	155.8	144.1	350.2	199.6	262.4	348.3	265.4	274.9			
Pr	16.03	14.00	32.75	18.95	25.74	30.95	23.68	24.56			
Nd	50.7	44.6	101.3	61.8	82.1	102.5	83.3	84.8			
Sm	7.6	6.3	13.1	8.5	11.0	14.4	9.7	10.2			
Eu	1.74	1.93	3.29	2.05	2.92	3.39	2.53	2.81			
Gd	4.13	2.89	7.40	5.04	5.85	7.67	5.29	5.75			
Tb	0.66	0.41	1.10	0.77	0.85	1.01	0.70	0.75			
Dy	3.59	2.12	5.17	4.00	3.83	4.46	3.20	3.35			
Ho	0.64	0.31	1.04	0.66	0.64	0.70	0.51	0.53			
Er	1.86	0.90	2.81	2.19	1.92	2.00	1.32	1.38			
Tm	0.30	0.17	0.47	0.31	0.29	0.32	0.22	0.25			
Yb	1.80	0.90	2.82	2.04	1.94	2.07	1.55	1.65			
Lu	0.26	0.13	0.40	0.33	0.30	0.34	0.25	0.22			
(La/Sm) _N	7.58	8.50	10.15	8.84	9.09	7.25	7.88	7.82			
(Gd/Yb) _N	1.86	2.60	2.13	2.00	2.44	3.00	2.77	2.82			
Eu/Eu*	0.95	1.38	1.40	0.96	1.11	0.98	1.08	1.21			
La _N	249	232	576	325	433	452	331	346			
Yb _N	7.3	3.6	11.4	8.2	7.8	8.3	6.3	6.7			
(La/Yb) _N	34.4	63.9	50.6	39.6	55.3	54.2	53.0	51.9			
Ba/Nb	37.14	26.93	31.10	30.71	44.99	52.61	54.53	60.24			
La/Nb	2.14	1.94	2.66	2.66	3.37	3.51	3.08	3.35			
Rb/Nb	4.1	3.0	2.4	4.3	4.3	3.4	3.7	3.9			
Th/Ta	17.45	12.83	23.43	20.44	25.04	30.23	29.05	50.05			
Th/Nb	1.05	0.88	1.24	1.23	1.38	1.66	1.54	1.67			
Rb/Sr	0.132	0.058	0.068	0.139	0.086	0.044	0.043	0.042			
Sample	GP-13	GI-5	GI-31	GI-57	GI-61	GI-67	GI-22	GI-38			
Host rock	Trachyte	Trachyandesite					Basaltic-trachyandesite				
SiO ₂ (wt.%)	60.53	57.89	56.79	55.22	57.11	57.10	50.38	50.64			
Al ₂ O ₃	16.67	18.98	17.05	15.60	17.95	16.75	17.33	19.33			

Table 1 (continued)

Fe ₂ O ₃	3.77	3.86	4.42	5.41	4.80	4.51	6.72	5.45
MgO	1.57	1.01	1.47	4.29	2.70	2.57	3.08	1.90
CaO	3.89	3.16	5.36	6.95	4.96	5.50	7.63	1.41
Na ₂ O	5.41	4.14	4.26	3.14	4.72	3.75	2.28	1.80
K ₂ O	5.48	6.37	5.76	5.67	4.87	5.71	5.50	5.37
TiO ₂	0.47	0.42	0.53	0.67	0.59	0.51	0.70	1.66
P ₂ O ₅	0.28	0.23	0.29	0.65	0.64	0.31	0.67	1.09
MnO	0.09	0.07	0.10	0.09	0.09	0.09	0.13	0.02
LOI	0.9	3.3	3.4	1.4	1.0	2.5	4.5	10.7
Total	99.06	99.44	99.42	99.11	99.44	99.31	98.92	99.38
Mg#	45.5	34.4	40.0	61.0	53.0	53.0	47.9	41.0
Sr (ppm)	3814.2	3096.9	3049.5	4978.8	3380.2	4203.9	5410.1	2970.7
Ba	2591.8	2350.8	2770.3	3456.0	2502.0	2634.9	3409.5	2887.0
Rb	154.6	163.7	147.8	139.2	101.0	134.7	92.2	138.2
Cs	2.8	38.7	9.9	7.3	1.0	3.1	1.4	106.0
Ga	24.7	22.4	20.9	21.5	22.5	20.1	20.2	21.7
Hf	12.5	11.0	9.6	9.7	8.6	10.0	8.1	9.8
Ni	4	5	5	23	19	15	6	95
Sc	5	3	5	11	7	9	10	15
Cr	3.4	6.8	7	48	21	41	7	21
Zr	398.0	477.9	388.6	414.6	393.6	395.7	376.6	419.0
Y	23.2	23.6	26.4	25.0	22.9	24.3	28.6	33.9
Nb	47.2	73.3	43.3	54.1	54.8	50.2	47.7	64.7
Ta	2.5	4.4	2.5	3.0	3.4	3.1	3.2	3.8
Th	77.2	71.4	57.6	68.4	45.1	57.5	59.0	35.6
U	18.9	13.5	13.2	16.8	10.5	15.5	11.4	4.9
Pb	3.6	10.6	9.3	5.8	9.6	13.3	6.4	6.5
La	152.0	211.6	197.1	228.0	185.5	191.3	273.4	112.6
Ce	350.4	374.6	345.4	430.5	317.7	324.5	495.9	214.0
Pr	30.69	36.45	33.86	44.92	31.31	31.49	50.54	23.83
Nd	109.3	111.8	111.9	154.4	99.5	98.4	174.6	91.9
Sm	13.2	13.3	13.9	19.5	13.2	13.1	22.7	16.2
Eu	3.14	3.15	3.47	5.04	3.43	3.41	5.70	4.53
Gd	7.52	5.89	6.66	9.00	6.65	6.56	10.54	10.57
Tb	0.94	0.93	1.02	1.24	0.94	0.94	1.30	1.44
Dy	4.20	4.02	4.65	5.04	4.61	4.71	5.38	6.44
Ho	0.67	0.73	0.80	0.78	0.74	0.72	0.82	1.15
Er	2.03	1.95	2.34	1.98	1.95	2.18	2.11	2.96
Tm	0.31	0.34	0.38	0.31	0.30	0.32	0.37	0.40
Yb	2.08	1.84	2.29	2.03	1.85	2.33	2.18	2.31
Lu	0.32	0.30	0.33	0.27	0.31	0.32	0.31	0.36
(La/Sm) _N	7.25	10.01	8.93	7.36	8.85	9.9	7.58	4.37
(Gd/Yb) _N	2.93	2.59	2.36	3.60	2.91	2.28	3.92	3.71
Eu/Eu*	0.96	1.10	1.10	1.16	1.12	1.12	1.12	1.05
La _N	414	577	537	621	505	521	745	307
Yb _N	8.4	7.4	9.2	8.2	7.5	9.4	8.8	9.3
(La/Yb) _N	49.4	77.7	58.1	75.9	67.8	55.5	84.7	32.9
Ba/Nb	54.91	32.07	63.98	63.88	45.66	52.49	71.48	44.62
La/Nb	3.22	2.89	4.55	4.21	3.39	3.81	5.73	1.74
Rb/Nb	3.3	2.2	3.4	2.6	1.8	2.7	1.9	2.1
Th/Ta	30.88	16.23	23.04	22.80	13.26	18.55	18.44	9.37
Th/Nb	1.65	0.97	1.33	1.26	0.82	1.15	1.24	0.55
Rb/Sr	0.040	0.053	0.048	0.028	0.030	0.032	0.017	0.047
Sample	Gl-40	Gl-48	Gl-55	Gl-70	Gl-81	Gl-96	Gl-109	
Hostrock	Basaltic-trachyandesite							
SiO ₂ (wt.%)	50.18	51.29	51.92	47.81	50.60	51.19	51.12	
Al ₂ O ₃	16.34	16.09	16.51	17.14	16.15	15.98	17.43	
Fe ₂ O ₃	6.17	5.59	6.01	7.14	5.79	6.50	6.27	
MgO	4.33	3.57	4.52	4.85	3.44	2.87	3.59	
CaO	6.46	9.12	8.25	7.76	9.06	7.51	8.18	
Na ₂ O	1.84	2.22	2.74	2.25	3.24	1.63	4.56	
K ₂ O	5.06	5.74	4.82	3.64	4.56	4.44	3.30	
TiO ₂	1.41	0.82	0.78	1.47	0.65	0.97	0.71	
P ₂ O ₅	1.05	0.69	0.64	1.11	0.61	0.87	0.70	

Table 1 (continued)

MnO	0.07	0.11	0.11	0.09	0.12	0.11	0.12
LOI	6.5	4.0	2.8	6.0	5.1	6.5	3.0
Total	99.42	99.25	99.11	99.28	99.32	98.57	98.98
Mg#	58.0	56.0	60.0	57.7	54.0	46.9	53.0
Sr (ppm)	3143.7	4362.8	5390.0	3067.6	3530.8	6535.9	5678.5
Ba	2418.2	2951.0	2835.0	2910.9	3495.6	5351.6	3586.2
Rb	118.5	149.6	102.7	42.4	107.2	28.8	130.9
Cs	1.5	3.8	1.7	0.7	3.9	7.5	3.4
Ga	18.9	19.3	19.1	21.2	21.2	23.1	22.2
Hf	8.3	10.1	7.8	9.9	9.3	20.4	9.3
Ni	54	12	19	58	10	8	13
Sc	13	11	14	15	13	9	12
Cr	34	14	68	34	34	14	14
Zr	360.2	427.5	336.9	406.6	386.1	817.3	415.6
Y	25.7	30.4	25.7	26.2	28.3	40.5	29.3
Nb	55.8	47.4	45.3	61.8	50.7	90.9	51.8
Ta	3.1	2.7	2.9	3.5	3.1	5.0	3.4
Th	31.2	48.4	43.6	33.8	55.2	66.4	66.6
U	4.7	12.7	8.8	5.3	13.1	4.7	14.0
Pb	6.0	6.1	3.7	8.1	11.3	18.7	1.7
La	165.3	223.6	196.1	174.9	189.3	317.4	297.6
Ce	312.9	405.5	354.3	325.5	345.2	610.5	550.7
Pr	32.46	42.29	36.17	33.62	33.89	62.36	54.21
Nd	114.3	145.3	118.5	113.7	115.0	215.4	188.7
Sm	16.2	19.3	16.4	16.5	16.4	30.4	23.5
Eu	4.17	4.83	4.15	4.48	3.98	7.69	5.79
Gd	8.78	9.55	8.41	9.35	8.50	15.13	10.08
Tb	1.18	1.25	1.22	1.13	1.16	2.11	1.25
Dy	5.29	5.81	5.25	5.50	5.38	8.07	5.61
Ho	0.90	0.93	0.84	0.88	0.87	1.18	0.93
Er	1.99	2.50	2.15	2.21	2.36	3.04	2.26
Tm	0.31	0.36	0.35	0.31	0.32	0.44	0.36
Yb	1.65	2.24	2.09	2.11	2.17	2.80	2.36
Lu	0.25	0.33	0.31	0.26	0.34	0.44	0.34
(La/Sm) _N	6.42	7.29	7.53	6.67	7.27	6.57	7.97
(Gd/Yb) _N	4.31	3.46	3.26	3.59	3.17	4.38	3.46
Eu/Eu*	1.07	1.09	1.08	1.10	1.03	1.09	1.15
La _N	450	609	534	477	516	865	811
Yb _N	6.7	9.0	8.4	8.5	8.8	11.3	9.5
(La/Yb) _N	67.7	67.5	63.4	56.0	58.9	76.6	85.2
Ba/Nb	43.34	62.26	62.58	47.10	68.95	58.87	69.23
La/Nb	2.96	4.72	4.33	2.83	3.73	3.49	5.75
Rb/Nb	2.1	3.2	2.3	0.7	2.1	0.3	2.5
Th/Ta	10.06	17.93	15.03	9.66	17.81	13.28	19.59
Th/Nb	0.56	1.02	0.96	0.55	1.09	0.73	1.29
Rb/Sr	0.038	0.034	0.019	0.014	0.030	0.004	0.023