

Erratum to: Magma mixing in the 1100 AD Montaña Reventada composite lava flow, Tenerife, Canary Islands: interaction between rift zone and central volcano plumbing systems

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The original article was published incorrectly with an error in Table 1. The corrected and complete version is now provided below, which include the correct Pb concentrations along with Nb concentrations. We gratefully acknowledge the help of Dr. Mike Norry in pointing out this mistake.

The online version of the original article can be found under doi:[10.1007/s00410-010-0596-x](https://doi.org/10.1007/s00410-010-0596-x).

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Table 1 Major and trace element and Pb isotope data for Montaña Reventada

(wt.%)	Basanite										Inclusions					Phonolite					
	205-1		205-2		205-3		205-1 gm		205-2 gm		E 206A		E 206B		E 206D		E 204F		E 206 Cont		
SiO ₂	46.63	46.2	46.19	46.86	46.71	50.08	50.12	50.44	48.4	57.46											
TiO ₂	3.31	3.35	3.33	3.32	3.36	2.62	2.64	2.6	2.92	1.35											
Al ₂ O ₃	17.16	17.13	17.14	17.18	17.17	17.65	17.68	17.74	17.65	18.49											
Fe ₂ O ₃	11.13	11.22	11.21	11.09	11.19	9.04	9.04	9.02	9.84	5.3											
MnO	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.21	0.17											
MgO	4.42	4.53	4.55	4.48	4.58	3.35	3.44	3.39	3.75	1.46											
CaO	9	9.15	9.12	9.06	9.14	6.91	7.01	6.89	7.72	2.89											
Na ₂ O	4.94	4.97	4.93	4.83	4.86	6.3	6.05	6.07	5.67	7.59											
K ₂ O	1.92	1.85	1.88	1.91	1.91	2.46	2.62	2.66	1.75	4.32											
P ₂ O ₅	1.26	1.29	1.3	1.29	1.29	0.99	1	1	1.17	0.4											
H ₂ O	0.08	0.09	0.09			0.12	0.14	0.08	0.24	0.17											
CO ₂	0.02	0.02	0.02			0.02	0.02	0.01	0	0.04											
Sum	100.28	100.17	100.13	100.51	100.7	99.91	100.1	100.29	99.45	99.69											
(ppm)																					
Ba	581.9	728.4	528.8	526.1	616.2	780.3	594.6	708.7	1053.7	668.5											
Sr	982.1	1327.3	936.7	910.3	1068.2	968.5	767.4	885.2	1075.5	239.6											
Hf	7.0	8.5	6.0	6.3	7.3	8.3	6.7	8.4	6.5	7.7											
Th	6.5	8.6	6.3	5.6	7.2	11.1	7.7	11.1	6.4	9.0											
U	1.9	2.2	1.6	1.7	1.9	2.4	2.0	2.5	1.6	2.8											
Nb	82.3	115.3	77.5	81.3	99.8	113.4	93.3	110.3	110.8	113.8											
Ta	5.8	7.2	4.6	4.9	5.5	7.1	5.6	6.7	6.1	6.4											
Rb	39.5	36.3	29.9	36.0	33.2	58.2	48.0	53.6	25.9	64.7											
Pb	3.5	4.1	2.9	3.2	3.6	5.4	4.1	5.3	3.5	5.5											
²⁰⁶ Pb/ ²⁰⁴ Pb	19.7418 (16)	19.7401 (10)	19.7355 (7)	19.7377 (9)	19.7193 (10)	19.7641 (12)	19.7528 (7)	19.7594 (7)	19.7660 (8)	19.7671 (9)											
²⁰⁷ Pb/ ²⁰⁴ Pb	15.6122 (17)	15.6163 (9)	15.6213 (9)	15.6173 (16)	15.6146 (17)	15.6196 (15)	15.6117 (8)	15.6175 (8)	15.6142 (9)	15.6168 (15)											
²⁰⁸ Pb/ ²⁰⁴ Pb	39.5607 (31)	39.5673 (20)	39.5720 (14)	39.5638 (18)	39.5423 (22)	39.5858 (23)	39.5603 (15)	39.5786 (14)	39.5701 (16)	39.5769 (19)											

Table 1 continued

(wt.%)	Phonolite									
	206-2	206-3	206-5	206-2 gm	206-5 gm	207-4	207-5	207-6	207-4 gm	207-6 gm
SiO ₂	58.68	59.12	57.65	59.31	57.82	58.88	58.17	58.75	59.16	58.86
TiO ₂	1.08	1.03	1.28	1.06	1.28	1.1	1.21	1.12	1.08	1.11
Al ₂ O ₃	18.53	18.61	18.58	18.63	18.52	18.58	18.5	18.51	18.55	18.47
Fe ₂ O ₃	4.56	4.41	5.09	4.54	5.09	4.54	4.99	4.57	4.53	4.76
MnO	0.16	0.16	0.17	0.16	0.17	0.17	0.16	0.16	0.17	0.17
MgO	1.05	1	1.33	1.04	1.35	1.09	1.28	1.12	1.06	1.12
CaO	1.99	1.87	2.65	1.97	2.63	1.98	2.35	2.1	1.96	2.08
Na ₂ O	7.91	7.85	7.7	7.9	7.64	7.67	7.67	7.81	7.73	7.88
K ₂ O	4.75	4.81	4.42	4.82	4.52	4.73	4.57	4.66	4.83	4.74
P ₂ O ₅	0.29	0.28	0.37	0.29	0.38	0.29	0.35	0.31	0.29	0.32
H ₂ O	0.09	0.1	0.09			0.16	0.26	0.2		
CO ₂	0	0	0.01			0.02	0.01	0.02		
Sum	99.24	99.4	99.5	99.98	99.67	99.29	99.52	99.37	99.6	99.76
(ppm)										
Ba	996.9	1289.7	881.1	789.1	796.4	975.8	1055.4	1032.9	839.8	694.3
Sr	186.7	218.4	274.0	154.2	270.4	171.3	244.7	203.0	159.1	155.6
Hf	10.9	13.2	9.4	10.8	10.7	9.6	10.1	9.3	11.1	7.8
Th	14.9	19.9	12.3	12.5	12.6	14.0	15.1	11.8	14.9	10.6
U	3.7	4.7	3.3	3.3	3.5	3.6	3.7	2.8	3.8	2.3
Nb	157.8	192.1	134.4	157.3	164.4	146.6	157.8	162.0	165.1	121.8
Ta	8.8	10.4	7.5	8.1	8.2	8.3	8.2	7.9	8.4	6.0
Rb	101.6	116.6	79.9	91.3	95.4	90.1	97.7	86.1	91.3	62.9
Pb	8.9	10.9	7.3	8.2	7.9	8.3	8.6	6.8	8.7	5.3
²⁰⁶ Pb/ ²⁰⁴ Pb	19.7807 (11)	19.7762 (6)	19.7746 (6)	19.7723 (6)	19.7708 (10)	19.7767 (8)	19.7761 (7)	19.7802 (7)	19.7723 (10)	19.7750 (12)
²⁰⁷ Pb/ ²⁰⁴ Pb	15.6232 (14)	15.6175 (9)	15.6189 (8)	15.6178 (8)	15.6195 (15)	15.6219 (10)	15.6210 (9)	15.6210 (9)	15.6203 (16)	15.6209 (17)
²⁰⁸ Pb/ ²⁰⁴ Pb	39.5997 (23)	39.5845 (14)	39.5882 (13)	39.5835 (14)	39.5843 (22)	39.5980 (18)	39.5929 (14)	39.5983 (15)	39.5873 (22)	39.5931 (25)

Please note that additional trace element data along with Sr and Nd isotope data can be found in the online resource (Table A1). Samples with number 205 are from the basaltic phonolite sample just above the contact between basaltic and phonolite. Samples with number 207 are from the top of the phonolite layer, 206 samples are from the bottom of the phonolite. ‘‘gm’’ in a sample name denotes a groundmass sample