

TABLE A. CHEMICAL COMPOSITION OF SELECTED CERRO AZUL BASALTS

Sample: Type*	CA-3 Alk	CA-26 Alk	CA-37 Trn	CA-39 Trn	CA-18 Thl	CA-31 Thl	CA-43 Thl
SiO ₂	48.36	49.69	49.70	48.43	49.22	48.34	49.56
TiO ₂	3.43	3.73	2.75	2.39	2.31	2.24	2.55
Al ₂ O ₃	14.62	13.90	15.57	15.22	14.49	13.57	15.03
FeO	12.69	13.30	10.99	9.85	9.56	10.41	10.45
MnO	0.21	0.22	0.19	0.17	0.17	0.18	0.18
MgO	5.48	4.70	7.01	8.65	8.84	12.98	7.17
CaO	10.28	8.98	11.03	11.10	12.4	10.82	12.09
Na ₂ O	3.74	3.90	3.46	3.27	2.37	2.38	3.01
K ₂ O	0.79	0.96	0.68	0.59	0.37	0.33	0.53
P ₂ O ₅	0.42	0.51	0.36	0.32	0.23	0.20	0.28
Total	100.20	99.88	101.80	100.80	99.96	101.40	100.90
Rb	15	20	13	9	10	6	11
Sr	385	354	363	348	291	255	336
Ba	158	154	120	101	51	56	103
Cr	59	24	184	360	431	878	118
Ni	31	17	88	146	136	323	83
Sc	32	34	37	35	36	35	34
Zr	212	268	189	164	133	111	156
Y	35	43	32	28	24	22	29
Th	2.00	2.60	1.77	1.54	N.D.†	0.88	1.45
La	26.46	30.84	22.46	19.07	N.D.	11.44	17.74
Ce	55.14	66.01	47.2	40.37	N.D.	24.93	37.68
Pr	6.83	8.23	5.87	5.14	N.D.	3.28	4.79
Nd	29.94	36.84	26.52	22.99	N.D.	15.14	21.93
Sm	7.85	9.62	6.88	5.99	N.D.	4.26	5.85
Yb	3.00	3.81	2.75	2.46	N.D.	1.82	2.36

Note: Major-element oxides are in weight percent, and trace-element analyses are in parts per million. Major elements, Ni, Cr, Sc, v, Zr, Rb, and Sr, were determined by XRF techniques (Hooper et al., 1993). Other trace elements were determined by inductively coupled plasma-mass spectrometry (ICP-MS). Estimates of relative precision based upon analyses of standards and duplicate analyses are <2% for the major-element oxides and <5% for the trace elements. Nd and Sr isotopes were analyzed in the Chemistry Department at Woods Hole Oceanographic Institution according to methods of Kurz and Kammer (1991).

*Thl—tholeiitic, Trn—transitional, Alk—alkalic.

† N.D.—not determined.