

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	¹⁶ O CPS ^a	¹⁶ O Error (1 sigma)	¹⁸ O CPS ^a	¹⁸ O Error (1 sigma)	¹⁸ O/ ¹⁶ O	¹⁸ O/ ¹⁶ O Error (1 sigma)	Corrected ¹⁸ O/ ¹⁶ O	Error Corrected	Corrected ^δ ¹⁸ O	^δ ¹⁸ O Error (Internal) (1 sigma) ^b	^δ ¹⁸ O Error (External) (1 sigma)	Average ^δ ¹⁸ O	Standard Deviation (1 sigma)	Number of Samples (n)
SCM-34 (Pre-PST Trachyte - Alcyone)												6.77	0.29	20
SCM-34@1.ais	2.93E+09	1.21E+06	5.91E+06	2.27E+03	2.01E-03	1.08E-07	0.0020162	1.08E-07	6.82	0.05	0.14			
SCM-34@2.ais	2.95E+09	6.79E+05	5.95E+06	1.50E+03	2.01E-03	1.20E-07	0.0020154	1.20E-07	6.43	0.06	0.14			
SCM-34@3.ais	2.94E+09	1.55E+06	5.93E+06	3.37E+03	2.01E-03	1.20E-07	0.0020161	1.20E-07	6.77	0.06	0.14			
SCM-34@4.ais	2.98E+09	2.88E+05	5.99E+06	7.53E+02	2.01E-03	9.78E-08	0.0020156	9.79E-08	6.56	0.05	0.14			
SCM-34@5.ais	2.97E+09	1.08E+06	5.99E+06	2.27E+03	2.01E-03	1.03E-07	0.0020154	1.03E-07	6.43	0.05	0.14			
SCM-34@6.ais	2.96E+09	3.70E+06	5.96E+06	7.36E+03	2.02E-03	1.59E-07	0.0020168	1.59E-07	7.14	0.08	0.09			
SCM-34@7.ais	3.01E+09	1.68E+06	6.06E+06	3.34E+03	2.01E-03	1.41E-07	0.0020162	1.41E-07	6.85	0.07	0.09			
SCM-34@8.ais	3.03E+09	1.57E+06	6.10E+06	3.27E+03	2.01E-03	9.23E-08	0.0020157	9.23E-08	6.57	0.05	0.09			
SCM-34@9.ais	3.02E+09	2.23E+06	6.09E+06	4.42E+03	2.01E-03	8.58E-08	0.0020156	8.59E-08	6.56	0.04	0.09			
SCM-34@10.ais	3.06E+09	1.09E+06	6.16E+06	2.30E+03	2.01E-03	1.79E-07	0.0020155	1.79E-07	6.51	0.09	0.09			
SCM-34@11.ais	2.32E+09	1.71E+06	4.68E+06	3.52E+03	2.02E-03	1.49E-07	0.0020169	1.49E-07	7.17	0.07	0.25			
SCM-34@12.ais	2.34E+09	3.02E+06	4.71E+06	6.20E+03	2.02E-03	9.28E-08	0.0020166	9.28E-08	7.03	0.05	0.25			
SCM-34@13.ais	2.40E+09	1.22E+06	4.84E+06	2.54E+03	2.02E-03	1.60E-07	0.0020160	1.60E-07	6.75	0.08	0.25			
SCM-34@14.ais	2.34E+09	4.52E+06	4.71E+06	8.91E+03	2.02E-03	1.76E-07	0.0020170	1.76E-07	7.25	0.09	0.25			
SCM-34@15.ais	2.27E+09	3.41E+06	4.57E+06	6.97E+03	2.02E-03	1.39E-07	0.0020161	1.39E-07	6.78	0.07	0.25			
SCM-34@16.ais	2.14E+09	1.01E+06	4.33E+06	2.21E+03	2.02E-03	1.72E-07	0.0020171	1.72E-07	7.31	0.09	0.10			
SCM-34@17.ais	2.14E+09	8.99E+05	4.31E+06	1.70E+03	2.02E-03	1.65E-07	0.0020164	1.65E-07	6.92	0.08	0.10			
SCM-34@18.ais	2.12E+09	2.95E+05	4.27E+06	7.78E+02	2.01E-03	1.25E-07	0.0020151	1.25E-07	6.31	0.06	0.10			
SCM-34@19.ais	2.11E+09	4.24E+05	4.25E+06	9.27E+02	2.02E-03	1.82E-07	0.0020160	1.82E-07	6.76	0.09	0.10			
SCM-34@20.ais	2.08E+09	6.77E+05	4.19E+06	1.49E+03	2.02E-03	1.68E-07	0.0020156	1.68E-07	6.56	0.08	0.10			
SCM-41 (Pre-PST Trachyte - Gold Road)												6.28	0.90	20
SCM-41@1.ais	2.19E+09	7.60E+05	4.40E+06	1.75E+03	2.01E-03	1.84E-07	0.0020143	1.84E-07	5.91	0.09	0.21			
SCM-41@2.ais	2.16E+09	1.67E+06	4.35E+06	3.60E+03	2.01E-03	2.24E-07	0.0020139	2.24E-07	5.72	0.11	0.21			
SCM-41@3.ais	2.19E+09	1.33E+06	4.42E+06	2.73E+03	2.02E-03	1.63E-07	0.0020183	1.63E-07	7.87	0.08	0.21			
SCM-41@4.ais	2.28E+09	2.55E+06	4.58E+06	5.32E+03	2.01E-03	1.66E-07	0.0020127	1.66E-07	5.07	0.08	0.21			
SCM-41@5.ais	2.19E+09	8.40E+05	4.41E+06	1.63E+03	2.01E-03	1.79E-07	0.0020153	1.79E-07	6.39	0.09	0.21			
SCM-41@6.ais	2.21E+09	1.27E+06	4.45E+06	2.59E+03	2.01E-03	1.36E-07	0.0020139	1.36E-07	5.70	0.07	0.21			
SCM-41@7.ais	2.20E+09	1.53E+06	4.43E+06	3.20E+03	2.01E-03	1.48E-07	0.0020152	1.48E-07	6.35	0.07	0.21			
SCM-41@8.ais	2.22E+09	2.14E+06	4.48E+06	4.31E+03	2.01E-03	7.10E-08	0.0020148	7.10E-08	6.13	0.04	0.21			
SCM-41@9.ais	2.18E+09	1.07E+06	4.39E+06	2.18E+03	2.01E-03	1.89E-07	0.0020136	1.89E-07	5.55	0.09	0.21			
SCM-41@10.ais	2.23E+09	1.84E+06	4.49E+06	3.83E+03	2.01E-03	9.84E-08	0.0020139	9.85E-08	5.69	0.05	0.21			
SCM-41@11.ais	2.39E+09	1.18E+06	4.81E+06	2.30E+03	2.01E-03	1.45E-07	0.0020153	1.45E-07	6.38	0.07	0.25			
SCM-41@12.ais	2.39E+09	1.39E+06	4.82E+06	2.97E+03	2.01E-03	1.18E-07	0.0020157	1.18E-07	6.57	0.06	0.25			
SCM-41@13.ais	2.39E+09	1.45E+06	4.81E+06	2.97E+03	2.01E-03	1.10E-07	0.0020142	1.10E-07	5.83	0.05	0.25			
SCM-41@14.ais	2.40E+09	7.06E+05	4.83E+06	1.67E+03	2.01E-03	1.68E-07	0.0020148	1.68E-07	6.15	0.08	0.25			
SCM-41@15.ais	2.40E+09	1.09E+06	4.83E+06	2.45E+03	2.01E-03	2.02E-07	0.0020127	2.03E-07	5.10	0.10	0.25			
SCM-41@16.ais	2.40E+09	1.92E+06	4.84E+06	4.01E+03	2.01E-03	1.42E-07	0.0020145	1.42E-07	5.97	0.07	0.25			
SCM-41@17.ais	2.40E+09	1.44E+06	4.85E+06	3.04E+03	2.02E-03	1.15E-07	0.0020161	1.15E-07	6.77	0.06	0.25			
SCM-41@18.ais	2.41E+09	2.02E+06	4.85E+06	4.16E+03	2.01E-03	1.40E-07	0.0020155	1.40E-07	6.50	0.07	0.25			
SCM-41@19.ais	2.41E+09	1.97E+06	4.86E+06	4.08E+03	2.02E-03	1.11E-07	0.0020167	1.11E-07	7.08	0.06	0.25			
SCM-41@20.ais	2.40E+09	1.61E+06	4.85E+06	3.00E+03	2.02E-03	1.60E-07	0.0020203	1.60E-07	8.89	0.08	0.25			
Cook Canyon Tuff												6.39	0.28	36
MLPT-7A@1.ais	3.14E+09	1.83E+06	6.33E+06	3.62E+03	2.02E-03	1.24E-07	0.0020174	1.245E-07	6.10	0.06	0.21			
MLPT-7A@2.ais	2.85E+09	6.99E+06	5.75E+06	1.41E+04	2.02E-03	1.25E-07	0.0020192	1.256E-07	6.99	0.06	0.21			
MLPT-7A@3.ais	3.16E+09	1.53E+06	6.37E+06	3.02E+03	2.02E-03	1.13E-07	0.0020176	1.131E-07	6.20	0.06	0.21			
MLPT-7A@4.ais	2.93E+09	3.87E+06	5.91E+06	7.98E+03	2.02E-03	1.25E-07	0.0020184	1.249E-07	6.58	0.06	0.16			
MLPT-7A@5.ais	3.14E+09	1.93E+06	6.34E+06	3.89E+03	2.02E-03	1.45E-07	0.0020175	1.449E-07	6.15	0.07	0.16			

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Sample Name	¹⁶ O CPS ^a	¹⁶ O Error (1 sigma)	¹⁸ O CPS ^a	¹⁸ O Error (1 sigma)	¹⁸ O/ ¹⁶ O	¹⁸ O/ ¹⁶ O Error (1 sigma)	Corrected ¹⁸ O/ ¹⁶ O	Error Corrected	Corrected ^δ ¹⁸ O	^δ ¹⁸ O Error (Internal) (1 sigma) ^b	^δ ¹⁸ O Error (External) (1 sigma)	Average ^δ ¹⁸ O	Standard Deviation (1 sigma)	Number of Samples (n)
MLPT-7A@6.ais	3.06E+09	1.85E+06	6.17E+06	3.91E+03	2.02E-03	1.26E-07	0.0020179	1.259E-07	6.33	0.06	0.16			
MLPT-7A@7.ais	3.14E+09	3.02E+06	6.34E+06	6.06E+03	2.02E-03	9.63E-08	0.0020176	9.641E-08	6.20	0.05	0.16			
MLPT-7A@8.ais	3.11E+09	4.70E+06	6.28E+06	9.52E+03	2.02E-03	1.27E-07	0.0020184	1.276E-07	6.57	0.06	0.16			
MLPT-7A@9.ais	3.08E+09	3.96E+06	6.22E+06	7.74E+03	2.02E-03	1.45E-07	0.0020183	1.450E-07	6.53	0.07	0.16			
MLPT-7A@10.ais	3.13E+09	2.18E+06	6.32E+06	4.43E+03	2.02E-03	1.01E-07	0.0020183	1.010E-07	6.53	0.05	0.16			
MLPT-7A@11.ais	2.98E+09	8.46E+06	6.01E+06	1.67E+04	2.02E-03	1.84E-07	0.0020182	1.840E-07	6.46	0.09	0.16			
MLPT-7A@12.ais	3.14E+09	1.59E+06	6.34E+06	3.28E+03	2.02E-03	9.43E-08	0.0020173	9.440E-08	6.05	0.05	0.16			
MLPT-7A@13.ais	2.91E+09	4.46E+06	5.87E+06	8.83E+03	2.02E-03	1.37E-07	0.0020172	1.370E-07	5.98	0.07	0.16			
MLPT-7A@14.ais	3.13E+09	1.38E+06	6.32E+06	2.73E+03	2.02E-03	9.87E-08	0.0020178	9.875E-08	6.28	0.05	0.14			
MLPT-7A@15.ais	3.12E+09	1.90E+06	6.30E+06	3.86E+03	2.02E-03	8.69E-08	0.0020183	8.697E-08	6.56	0.04	0.14			
MLPT-7A@16.ais	3.10E+09	2.54E+06	6.26E+06	4.81E+03	2.02E-03	1.34E-07	0.0020188	1.343E-07	6.76	0.07	0.14			
MLPT-7B@1.ais	3.19E+09	2.05E+06	6.42E+06	3.99E+03	2.02E-03	1.16E-07	0.0020180	1.159E-07	6.36	0.06	0.24			
MLPT-7B@2.ais	3.19E+09	2.25E+06	6.42E+06	4.43E+03	2.02E-03	1.46E-07	0.0020176	1.458E-07	6.18	0.07	0.24			
MLPT-7B@3.ais	3.14E+09	6.00E+06	6.33E+06	1.19E+04	2.02E-03	1.87E-07	0.0020180	1.867E-07	6.36	0.09	0.24			
MLPT-7B@4.ais	3.15E+09	2.39E+06	6.36E+06	4.69E+03	2.02E-03	1.13E-07	0.0020181	1.134E-07	6.46	0.06	0.24			
MLPT-7B@5.ais	3.19E+09	1.62E+06	6.44E+06	3.08E+03	2.02E-03	1.22E-07	0.0020181	1.217E-07	6.46	0.06	0.24			
MLPT-7B@6.ais	3.18E+09	2.27E+06	6.41E+06	4.55E+03	2.02E-03	1.25E-07	0.0020178	1.255E-07	6.27	0.06	0.24			
MLPT-7B@7.ais	3.19E+09	1.95E+06	6.43E+06	4.07E+03	2.02E-03	9.03E-08	0.0020182	9.030E-08	6.47	0.04	0.24			
MLPT-7B@8.ais	3.17E+09	2.29E+06	6.39E+06	4.66E+03	2.02E-03	1.43E-07	0.0020177	1.435E-07	6.25	0.07	0.24			
MLPT-7B@9.ais	3.20E+09	2.16E+06	6.45E+06	2.02E+03	2.02E-03	1.24E-07	0.0020179	1.245E-07	6.35	0.06	0.24			
MLPT-7B@10.ais	3.17E+09	8.18E+06	6.40E+06	1.64E+04	2.02E-03	1.83E-07	0.0020164	1.827E-07	5.60	0.09	0.24			
MLPT-7B@11.ais	3.08E+09	6.53E+06	6.21E+06	1.32E+04	2.02E-03	9.99E-08	0.0020176	9.996E-08	6.20	0.05	0.20			
MLPT-7B@12.ais	3.18E+09	2.46E+06	6.42E+06	5.08E+03	2.02E-03	1.20E-07	0.0020180	1.202E-07	6.41	0.06	0.20			
MLPT-7B@13.ais	3.12E+09	5.89E+06	6.30E+06	1.16E+04	2.02E-03	1.54E-07	0.0020188	1.542E-07	6.76	0.08	0.20			
MLPT-7B@14.ais	3.16E+09	2.33E+06	6.38E+06	4.78E+03	2.02E-03	9.55E-08	0.0020183	9.556E-08	6.53	0.05	0.20			
MLPT-7B@15.ais	3.17E+09	2.58E+06	6.39E+06	5.26E+03	2.02E-03	1.73E-07	0.0020175	1.734E-07	6.11	0.09	0.20			
MLPT-7B@16.ais	3.10E+09	6.29E+06	6.28E+06	1.28E+04	2.02E-03	9.39E-08	0.0020186	9.394E-08	6.66	0.05	0.20			
MLPT-7B@17.ais	3.09E+09	2.25E+06	6.23E+06	4.51E+03	2.02E-03	1.12E-07	0.0020180	1.118E-07	6.36	0.06	0.20			
MLPT-7B@18.ais	3.15E+09	1.93E+06	6.36E+06	3.97E+03	2.02E-03	1.02E-07	0.0020182	1.024E-07	6.50	0.05	0.20			
MLPT-7B@19.ais	3.06E+09	3.39E+06	6.17E+06	6.76E+03	2.02E-03	1.21E-07	0.0020195	1.214E-07	7.11	0.06	0.20			
MLPT-7B@20.ais	3.17E+09	2.34E+06	6.40E+06	4.78E+03	2.02E-03	7.71E-08	0.0020177	7.712E-08	6.25	0.04	0.20			
Pre-PST Lavas												6.04	0.92	17
PST-11-1@1.ais	3.02E+09	6.53E+06	6.10E+06	1.32E+04	2.02E-03	1.08E-07	0.0020169	1.078E-07	5.82	0.05	0.17			
PST-11-1@2.ais	3.06E+09	5.04E+06	6.16E+06	9.94E+03	2.02E-03	1.65E-07	0.0020164	1.653E-07	5.57	0.08	0.17			
PST-11-1@3.ais	1.77E+09	1.49E+06	3.56E+06	3.00E+03	2.01E-03	2.15E-07	0.0020137	2.149E-07	4.22	0.11	0.17			
PST-11-1@4.ais	3.07E+09	1.17E+07	6.19E+06	2.35E+04	2.02E-03	1.19E-07	0.0020168	1.190E-07	5.80	0.06	0.17			
PST-11-1@5.ais	3.08E+09	8.28E+06	6.20E+06	1.67E+04	2.02E-03	7.86E-08	0.0020178	7.866E-08	6.29	0.04	0.17			
PST-11-1@6.ais	3.13E+09	2.66E+06	6.31E+06	5.13E+03	2.02E-03	1.27E-07	0.0020174	1.270E-07	6.08	0.06	0.17			
PST-11-1@7.ais	3.11E+09	2.10E+06	6.27E+06	4.22E+03	2.02E-03	1.04E-07	0.0020217	1.044E-07	8.23	0.05	0.17			
PST-11-1@8.ais	3.10E+09	2.19E+06	6.26E+06	4.42E+03	2.02E-03	1.61E-07	0.0020212	1.614E-07	7.96	0.08	0.17			
PST-11-1@9.ais	2.09E+09	3.05E+06	4.21E+06	6.00E+03	2.01E-03	1.44E-07	0.0020160	1.444E-07	5.41	0.07	0.17			
PST-11-1@10.ais	3.13E+09	1.54E+06	6.31E+06	3.21E+03	2.02E-03	1.02E-07	0.0020175	1.023E-07	6.15	0.05	0.17			
PST-11-1@11.ais	3.05E+09	7.67E+06	6.15E+06	1.53E+04	2.02E-03	1.51E-07	0.0020178	1.507E-07	6.29	0.07	0.21			
PST-11-1@12.ais	3.13E+09	2.13E+06	6.30E+06	4.25E+03	2.01E-03	1.01E-07	0.0020160	1.012E-07	5.39	0.05	0.21			
PST-11-1@13.ais	2.38E+09	2.87E+06	4.80E+06	5.65E+03	2.01E-03	1.50E-07	0.0020163	1.503E-07	5.52	0.07	0.21			
PST-11-1@14.ais	3.02E+09	5.87E+06	6.10E+06	1.17E+04	2.02E-03	1.31E-07	0.0020178	1.313E-07	6.30	0.07	0.21			
PST-11-1@15.ais	2.85E+09	2.01E+06	5.74E+06	4.06E+03	2.01E-03	5.63E-08	0.0020163	5.637E-08	5.56	0.03	0.21			
PST-11-1@16.ais	3.09E+09	2.61E+06	6.22E+06	5.31E+03	2.02E-03	1.25E-07	0.0020171	1.252E-07	5.92	0.06	0.21			

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Sample Name	¹⁶ O CPS ^a	¹⁶ O Error (1 sigma)	¹⁸ O CPS ^a	¹⁸ O Error (1 sigma)	¹⁸ O/ ¹⁶ O	¹⁸ O/ ¹⁶ O Error (1 sigma)	Corrected ¹⁸ O/ ¹⁶ O	Error Corrected	Corrected ^δ ¹⁸ O	^δ ¹⁸ O Error (Internal) (1 sigma) ^b	^δ ¹⁸ O Error (External) (1 sigma)	Average ^δ ¹⁸ O	Standard Deviation (1 sigma)	Number of Samples (n)
PST-11-1@17.ais	2.71E+09	9.45E+05	5.46E+06	2.03E+03	2.02E-03	1.53E-07	0.0020174	1.531E-07	6.09	0.08	0.21			
PST (Trachyte)												6.70	0.32	19
MLPT-5D@1.ais	3.20E+09	1.06E+06	6.45E+06	2.23E+03	2.02E-03	7.32E-08	0.0020184	7.327E-08	6.60	0.04	0.32			
MLPT-5D@2.ais	3.19E+09	1.90E+06	6.44E+06	3.91E+03	2.02E-03	1.43E-07	0.0020187	1.429E-07	6.72	0.07	0.32			
MLPT-5D@3.ais	3.19E+09	1.87E+06	6.44E+06	3.86E+03	2.02E-03	1.27E-07	0.0020173	1.275E-07	6.03	0.06	0.32			
MLPT-5D@4.ais	3.20E+09	1.38E+06	6.46E+06	2.71E+03	2.02E-03	9.13E-08	0.0020178	9.132E-08	6.29	0.05	0.32			
MLPT-5D@5.ais	3.20E+09	2.53E+06	6.46E+06	5.24E+03	2.02E-03	9.57E-08	0.0020181	9.575E-08	6.44	0.05	0.32			
MLPT-5D@6.ais	3.18E+09	1.86E+06	6.43E+06	3.85E+03	2.02E-03	9.14E-08	0.0020186	9.145E-08	6.68	0.05	0.32			
MLPT-5D@7.ais	3.18E+09	1.79E+06	6.41E+06	3.71E+03	2.02E-03	1.04E-07	0.0020185	1.039E-07	6.64	0.05	0.32			
MLPT-5D@8.ais	3.19E+09	2.19E+06	6.43E+06	4.40E+03	2.02E-03	1.12E-07	0.0020186	1.118E-07	6.71	0.06	0.32			
MLPT-5D@9.ais	3.18E+09	1.97E+06	6.41E+06	4.17E+03	2.02E-03	8.99E-08	0.0020174	8.995E-08	6.06	0.04	0.32			
MLPT-5D@10.ais	3.18E+09	2.10E+06	6.41E+06	4.11E+03	2.02E-03	1.21E-07	0.0020187	1.207E-07	6.72	0.06	0.37			
MLPT-5D@11.ais	3.17E+09	2.53E+06	6.40E+06	4.98E+03	2.02E-03	1.35E-07	0.0020190	1.353E-07	6.89	0.07	0.37			
MLPT-5D@12.ais	3.19E+09	1.71E+06	6.44E+06	3.43E+03	2.02E-03	9.82E-08	0.0020195	9.831E-08	7.13	0.05	0.37			
MLPT-5D@13.ais	3.19E+09	2.22E+06	6.43E+06	4.54E+03	2.02E-03	1.35E-07	0.0020189	1.347E-07	6.84	0.07	0.37			
MLPT-5D@14.ais	3.18E+09	1.86E+06	6.42E+06	3.86E+03	2.02E-03	1.19E-07	0.0020189	1.192E-07	6.81	0.06	0.37			
MLPT-5D@15.ais	3.19E+09	2.29E+06	6.43E+06	4.66E+03	2.02E-03	1.19E-07	0.0020192	1.195E-07	7.01	0.06	0.37			
MLPT-5D@16.ais	3.18E+09	1.35E+06	6.43E+06	2.83E+03	2.02E-03	8.39E-08	0.0020188	8.400E-08	6.80	0.04	0.37			
MLPT-5D@17.ais	3.16E+09	2.50E+06	6.37E+06	5.26E+03	2.02E-03	1.04E-07	0.0020196	1.039E-07	7.17	0.05	0.37			
MLPT-5D@18.ais	3.16E+09	1.30E+06	6.38E+06	2.72E+03	2.02E-03	1.45E-07	0.0020194	1.451E-07	7.09	0.07	0.37			
MLPT-5D@19.ais	3.18E+09	1.66E+06	6.43E+06	3.39E+03	2.02E-03	1.28E-07	0.0020188	1.276E-07	6.77	0.06	0.37			
PST (Rhyolite)												6.33	0.40	49
MLPT-3B@1.ais	3.17E+09	5.18E+06	6.40E+06	1.07E+04	2.02E-03	1.08E-07	0.0020182	1.078E-07	6.46	0.05	0.14			
MLPT-3B@2.ais	3.06E+09	1.86E+07	6.18E+06	3.76E+04	2.02E-03	2.30E-07	0.0020183	2.304E-07	6.54	0.11	0.14			
MLPT-3B@3.ais	3.17E+09	2.26E+06	6.40E+06	4.52E+03	2.02E-03	1.48E-07	0.0020175	1.482E-07	6.15	0.07	0.14			
MLPT-3B@4.ais	3.17E+09	1.26E+06	6.40E+06	2.49E+03	2.02E-03	1.02E-07	0.0020178	1.025E-07	6.28	0.05	0.14			
MLPT-3B@5.ais	3.16E+09	9.21E+06	6.38E+06	1.82E+04	2.02E-03	1.79E-07	0.0020178	1.792E-07	6.26	0.09	0.14			
MLPT-3B@6.ais	3.18E+09	1.94E+06	6.41E+06	3.93E+03	2.02E-03	1.17E-07	0.0020184	1.167E-07	6.58	0.06	0.14			
MLPT-3B@7.ais	3.07E+09	2.09E+06	6.20E+06	4.46E+03	2.02E-03	1.25E-07	0.0020169	1.246E-07	5.83	0.06	0.14			
MLPT-3B@8.ais	3.17E+09	1.64E+06	6.40E+06	3.41E+03	2.02E-03	1.08E-07	0.0020193	1.077E-07	7.03	0.05	0.27			
MLPT-3B@9.ais	3.17E+09	4.79E+06	6.40E+06	9.46E+03	2.02E-03	1.30E-07	0.0020178	1.306E-07	6.29	0.06	0.27			
MLPT-3B@10.ais	3.18E+09	1.74E+06	6.41E+06	3.61E+03	2.02E-03	1.12E-07	0.0020185	1.125E-07	6.61	0.06	0.27			
MLPT-3B@11.ais	3.20E+09	1.88E+06	6.44E+06	3.73E+03	2.02E-03	1.17E-07	0.0020178	1.174E-07	6.27	0.06	0.27			
MLPT-3B@12.ais	3.20E+09	2.89E+06	6.46E+06	5.77E+03	2.02E-03	8.61E-08	0.0020175	8.613E-08	6.14	0.04	0.27			
MLPT-3B@13.ais	2.81E+09	1.57E+06	5.66E+06	3.07E+03	2.01E-03	1.82E-07	0.0020143	1.822E-07	4.54	0.09	0.27			
MLPT-3B@14.ais	3.18E+09	1.82E+06	6.41E+06	3.81E+03	2.02E-03	1.21E-07	0.0020179	1.212E-07	6.32	0.06	0.27			
MLPT-3B@15.ais	3.18E+09	1.04E+06	6.42E+06	2.27E+03	2.02E-03	1.33E-07	0.0020178	1.333E-07	6.27	0.07	0.27			
MLPT-3B@16.ais	3.17E+09	1.53E+06	6.39E+06	3.11E+03	2.02E-03	1.38E-07	0.0020174	1.380E-07	6.09	0.07	0.27			
MLPT-3B@17.ais	3.19E+09	1.64E+06	6.43E+06	3.39E+03	2.02E-03	1.45E-07	0.0020185	1.447E-07	6.62	0.07	0.27			
MLPT-3B@18.ais	3.15E+09	1.34E+06	6.36E+06	2.70E+03	2.02E-03	8.53E-08	0.0020179	8.535E-08	6.34	0.04	0.32			
MLPT-2H@1.ais	3.11E+09	1.12E+06	6.28E+06	2.30E+03	2.02E-03	1.19E-07	0.0020187	1.194E-07	6.74	0.06	0.33			
MLPT-2H@2.ais	3.08E+09	1.59E+06	6.21E+06	3.22E+03	2.02E-03	1.21E-07	0.0020180	1.214E-07	6.41	0.06	0.33			
MLPT-2H@3.ais	3.06E+09	1.81E+06	6.18E+06	3.82E+03	2.02E-03	1.31E-07	0.0020181	1.310E-07	6.45	0.06	0.33			
MLPT-2H@4.ais	3.06E+09	2.35E+06	6.18E+06	4.97E+03	2.02E-03	1.61E-07	0.0020180	1.613E-07	6.41	0.08	0.33			
MLPT-2H@5.ais	3.09E+09	1.90E+06	6.24E+06	3.75E+03	2.02E-03	1.09E-07	0.0020178	1.089E-07	6.26	0.05	0.33			
MLPT-2H@6.ais	3.10E+09	2.00E+06	6.26E+06	3.99E+03	2.02E-03	1.47E-07	0.0020180	1.472E-07	6.37	0.07	0.33			
MLPT-2H@7.ais	3.10E+09	1.70E+06	6.25E+06	3.44E+03	2.02E-03	1.41E-07	0.0020187	1.411E-07	6.74	0.07	0.33			
MLPT-2H@8.ais	3.10E+09	2.25E+06	6.25E+06	4.48E+03	2.02E-03	1.00E-07	0.0020173	1.001E-07	6.02	0.05	0.33			

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	¹⁶ O CPS ^a	¹⁶ O Error (1 sigma)	¹⁸ O CPS ^a	¹⁸ O Error (1 sigma)	¹⁸ O/ ¹⁶ O	¹⁸ O/ ¹⁶ O Error (1 sigma)	Corrected ¹⁸ O/ ¹⁶ O	Error Corrected	Corrected $\delta^{18}\text{O}$	$\delta^{18}\text{O}$ Error (Internal) (1 sigma) ^b	$\delta^{18}\text{O}$ Error (External) (1 sigma)	Average $\delta^{18}\text{O}$	Standard Deviation (1 sigma)	Number of Samples (n)
MLPT-2H@9.ais	3.01E+09	2.51E+06	6.07E+06	5.16E+03	2.02E-03	1.86E-07	0.0020173	1.864E-07	6.01	0.09	0.33			
MLPT-2H@10.ais	3.08E+09	2.73E+06	6.21E+06	5.58E+03	2.02E-03	8.47E-08	0.0020176	8.473E-08	6.18	0.04	0.33			
MLPT-2H@11.ais	3.13E+09	2.11E+06	6.31E+06	4.49E+03	2.02E-03	1.10E-07	0.0020174	1.098E-07	6.09	0.05	0.33			
MLPT-2H@12.ais	3.08E+09	1.94E+06	6.20E+06	3.79E+03	2.02E-03	1.27E-07	0.0020173	1.270E-07	6.06	0.06	0.31			
MLPT-2H@13.ais	2.45E+09	2.07E+06	4.95E+06	4.23E+03	2.02E-03	1.01E-07	0.0020165	1.014E-07	5.64	0.05	0.31			
MLPT-2H@14.ais	3.12E+09	2.48E+06	6.29E+06	5.07E+03	2.02E-03	1.49E-07	0.0020179	1.488E-07	6.31	0.07	0.31			
MLPT-2H@15.ais	3.13E+09	1.99E+06	6.31E+06	4.11E+03	2.02E-03	7.67E-08	0.0020183	7.676E-08	6.52	0.04	0.31			
MLPT-2H@16.ais	3.12E+09	2.24E+06	6.29E+06	4.38E+03	2.02E-03	1.36E-07	0.0020167	1.361E-07	5.71	0.07	0.31			
MLPT-2H@17.ais	2.92E+09	3.51E+06	5.88E+06	6.87E+03	2.02E-03	1.49E-07	0.0020171	1.495E-07	5.93	0.07	0.31			
MLPT-2H@18.ais	3.11E+09	1.86E+06	6.28E+06	3.86E+03	2.02E-03	1.35E-07	0.0020180	1.348E-07	6.40	0.07	0.31			
MLPT-2H@19.ais	3.11E+09	2.48E+06	6.27E+06	4.90E+03	2.02E-03	1.24E-07	0.0020178	1.236E-07	6.30	0.06	0.31			
MLPT-2H@20.ais	3.10E+09	2.22E+06	6.26E+06	4.48E+03	2.02E-03	1.51E-07	0.0020176	1.513E-07	6.17	0.07	0.31			
MLPT-2H@21.ais	2.76E+09	9.73E+06	5.56E+06	1.92E+04	2.02E-03	2.01E-07	0.0020176	2.006E-07	6.18	0.10	0.31			
MLPT-2H@22.ais	3.03E+09	4.86E+06	6.12E+06	9.73E+03	2.02E-03	1.47E-07	0.0020177	1.475E-07	6.24	0.07	0.17			
MLPT-2H@23.ais	3.06E+09	5.54E+06	6.18E+06	1.11E+04	2.02E-03	1.12E-07	0.0020190	1.116E-07	6.89	0.06	0.17			
MLPT-2H@24.ais	3.10E+09	3.75E+06	6.25E+06	7.59E+03	2.02E-03	1.18E-07	0.0020185	1.182E-07	6.63	0.06	0.17			
MLPT-2H@25.ais	3.03E+09	4.85E+06	6.10E+06	9.72E+03	2.02E-03	1.45E-07	0.0020183	1.452E-07	6.55	0.07	0.17			
MLPT-2H@26.ais	3.06E+09	1.88E+06	6.18E+06	3.63E+03	2.02E-03	1.07E-07	0.0020187	1.069E-07	6.71	0.05	0.17			
MLPT-2H@27.ais	2.99E+09	1.50E+06	6.03E+06	2.86E+03	2.02E-03	1.31E-07	0.0020182	1.309E-07	6.48	0.06	0.17			
MLPT-2H@28.ais	3.08E+09	1.75E+06	6.21E+06	3.42E+03	2.02E-03	8.58E-08	0.0020181	8.586E-08	6.45	0.04	0.17			
MLPT-2H@29.ais	3.10E+09	1.74E+06	6.25E+06	3.56E+03	2.02E-03	1.24E-07	0.0020193	1.245E-07	7.05	0.06	0.17			
MLPT-2H@30.ais	2.97E+09	6.24E+06	5.99E+06	1.26E+04	2.02E-03	1.16E-07	0.0020185	1.157E-07	6.64	0.06	0.17			
MLPT-2H@31.ais	3.07E+09	2.16E+06	6.20E+06	4.37E+03	2.02E-03	1.07E-07	0.0020190	1.067E-07	6.90	0.05	0.17			
Moss Porphyry												6.25	0.53	72
SCM-6@1.ais	2.12E+09	1.78E+06	4.27E+06	3.62E+03	2.02E-03	1.55E-07	0.0020177	1.551E-07	6.22	0.08	0.29			
SCM-6@2.ais	2.15E+09	1.44E+06	4.34E+06	2.93E+03	2.02E-03	1.68E-07	0.0020182	1.683E-07	6.46	0.08	0.29			
SCM-6@3.ais	2.14E+09	1.67E+06	4.32E+06	3.27E+03	2.02E-03	9.69E-08	0.0020184	9.699E-08	6.57	0.05	0.29			
SCM-6@4.ais	2.13E+09	2.79E+06	4.30E+06	5.60E+03	2.02E-03	1.58E-07	0.0020173	1.578E-07	6.02	0.08	0.29			
SCM-6@5.ais	2.15E+09	1.75E+06	4.34E+06	3.50E+03	2.01E-03	5.66E-08	0.0020160	5.668E-08	5.41	0.03	0.29			
SCM-6@6.ais	2.13E+09	1.55E+06	4.30E+06	3.24E+03	2.02E-03	2.11E-07	0.0020173	2.112E-07	6.04	0.10	0.29			
SCM-6@7.ais	2.13E+09	1.21E+06	4.30E+06	2.38E+03	2.02E-03	1.47E-07	0.0020172	1.467E-07	6.00	0.07	0.29			
SCM-6@8.ais	2.14E+09	1.35E+06	4.32E+06	2.81E+03	2.02E-03	2.14E-07	0.0020177	2.139E-07	6.25	0.11	0.28			
SCM-6@9.ais	2.13E+09	2.10E+06	4.30E+06	4.32E+03	2.02E-03	1.51E-07	0.0020185	1.511E-07	6.65	0.07	0.28			
SCM-6@10.ais	2.13E+09	1.23E+06	4.29E+06	2.57E+03	2.02E-03	1.85E-07	0.0020180	1.849E-07	6.39	0.09	0.28			
SCM-6@11.ais	2.14E+09	1.40E+06	4.33E+06	2.94E+03	2.02E-03	1.75E-07	0.0020183	1.755E-07	6.55	0.09	0.28			
SCM-6@12.ais	2.14E+09	1.91E+06	4.31E+06	3.78E+03	2.02E-03	1.80E-07	0.0020190	1.805E-07	6.87	0.09	0.28			
SCM-6@13.ais	2.14E+09	1.34E+06	4.32E+06	2.72E+03	2.02E-03	1.87E-07	0.0020173	1.874E-07	6.04	0.09	0.28			
SCM-6@14.ais	2.16E+09	3.01E+06	4.36E+06	6.35E+03	2.01E-03	2.42E-07	0.0020144	2.420E-07	4.59	0.12	0.28			
SCM-6@15.ais	2.14E+09	1.31E+06	4.30E+06	2.49E+03	2.02E-03	1.18E-07	0.0020170	1.180E-07	5.91	0.06	0.28			
SCM-6@16.ais	2.14E+09	9.88E+05	4.32E+06	1.78E+03	2.02E-03	1.90E-07	0.0020166	1.903E-07	5.68	0.09	0.28			
SCM-6@17.ais	2.14E+09	1.41E+06	4.31E+06	2.80E+03	2.02E-03	1.39E-07	0.0020174	1.386E-07	6.08	0.07	0.28			
SCM-6@18.ais	2.13E+09	9.44E+05	4.30E+06	1.92E+03	2.02E-03	1.20E-07	0.0020172	1.200E-07	5.97	0.06	0.28			
SCM-6@19.ais	2.14E+09	1.68E+06	4.31E+06	3.38E+03	2.02E-03	1.90E-07	0.0020180	1.898E-07	6.37	0.09	0.28			
SCM-6@20.ais	2.02E+09	7.52E+05	4.08E+06	1.56E+03	2.02E-03	1.55E-07	0.0020208	1.548E-07	7.76	0.08	0.28			
SCM-6@21.ais	2.15E+09	2.02E+06	4.34E+06	4.02E+03	2.02E-03	1.35E-07	0.0020169	1.355E-07	5.84	0.07	0.28			
SCM-6@22.ais	2.14E+09	1.44E+06	4.31E+06	2.90E+03	2.02E-03	1.41E-07	0.0020177	1.408E-07	6.21	0.07	0.28			
SCM-6@23.ais	2.14E+09	1.81E+06	4.31E+06	3.65E+03	2.02E-03	1.45E-07	0.0020179	1.452E-07	6.36	0.07	0.28			
SCM-6@24.ais	2.13E+09	1.62E+06	4.29E+06	3.48E+03	2.02E-03	1.90E-07	0.0020175	1.901E-07	6.16	0.09	0.28			

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	^{16}O CPS ^a	^{16}O Error (1 sigma)	^{18}O CPS ^a	^{18}O Error (1 sigma)	$^{18}\text{O}/^{16}\text{O}$	$^{18}\text{O}/^{16}\text{O}$ Error (1 sigma)	Corrected $^{18}\text{O}/^{16}\text{O}$	Error Corrected	Corrected $\delta^{18}\text{O}$	$\delta^{18}\text{O}$ Error (Internal) (1 sigma) ^b	$\delta^{18}\text{O}$ Error (External) (1 sigma)	Average $\delta^{18}\text{O}$	Standard Deviation (1 sigma)	Number of Samples (n)
SCM-6@25.ais	2.14E+09	1.44E+06	4.31E+06	3.14E+03	2.02E-03	1.86E-07	0.0020175	1.858E-07	6.12	0.09	0.28			
MP-1@1.ais	2.13E+09	1.41E+06	4.30E+06	2.79E+03	2.02E-03	1.82E-07	0.0020195	1.825E-07	7.13	0.09	0.28			
MP-1@2.ais	2.13E+09	3.28E+06	4.30E+06	6.52E+03	2.02E-03	1.59E-07	0.0020183	1.595E-07	6.54	0.08	0.28			
MP-1@3.ais	2.13E+09	1.75E+06	4.29E+06	3.57E+03	2.02E-03	1.99E-07	0.0020179	1.993E-07	6.31	0.10	0.28			
MP-1@4.ais	2.15E+09	1.48E+06	4.33E+06	3.10E+03	2.02E-03	1.42E-07	0.0020170	1.416E-07	5.90	0.07	0.28			
MP-1@5.ais	2.14E+09	1.29E+06	4.32E+06	2.71E+03	2.02E-03	1.74E-07	0.0020174	1.743E-07	6.11	0.09	0.28			
MP-1@6.ais	2.14E+09	1.34E+06	4.32E+06	2.74E+03	2.02E-03	1.15E-07	0.0020178	1.149E-07	6.29	0.06	0.28			
MP-1@7.ais	2.16E+09	1.12E+06	4.35E+06	2.30E+03	2.02E-03	1.40E-07	0.0020187	1.396E-07	6.75	0.07	0.28			
MP-1@8.ais	2.15E+09	9.70E+05	4.34E+06	2.05E+03	2.02E-03	1.95E-07	0.0020193	1.952E-07	7.03	0.10	0.28			
MP-1@9.ais	2.16E+09	8.50E+05	4.35E+06	1.64E+03	2.02E-03	1.87E-07	0.0020190	1.871E-07	6.87	0.09	0.28			
MP-1@10.ais	2.15E+09	1.25E+06	4.34E+06	2.44E+03	2.02E-03	1.51E-07	0.0020178	1.513E-07	6.31	0.07	0.28			
MP-1@11.ais	2.15E+09	8.55E+05	4.34E+06	1.74E+03	2.02E-03	1.47E-07	0.0020166	1.474E-07	5.71	0.07	0.28			
MP-1@12.ais	2.14E+09	1.17E+06	4.33E+06	2.37E+03	2.02E-03	1.47E-07	0.0020204	1.469E-07	7.57	0.07	0.28			
MP-1@13.ais	2.15E+09	1.25E+06	4.33E+06	2.55E+03	2.02E-03	1.58E-07	0.0020174	1.578E-07	6.09	0.08	0.28			
MP-1@14.ais	2.16E+09	1.26E+06	4.35E+06	2.50E+03	2.02E-03	1.71E-07	0.0020170	1.712E-07	5.87	0.08	0.28			
MP-1@15.ais	2.15E+09	1.29E+06	4.33E+06	2.73E+03	2.02E-03	1.27E-07	0.0020179	1.266E-07	6.35	0.06	0.28			
MP-1@16.ais	2.15E+09	1.55E+06	4.33E+06	3.27E+03	2.02E-03	1.39E-07	0.0020176	1.389E-07	6.18	0.07	0.28			
MP-1@17.ais	2.16E+09	2.10E+06	4.36E+06	4.19E+03	2.02E-03	1.16E-07	0.0020196	1.161E-07	7.17	0.06	0.28			
MP-1@18.ais	2.17E+09	1.79E+06	4.38E+06	3.66E+03	2.02E-03	1.34E-07	0.0020168	1.343E-07	5.76	0.07	0.28			
MP-1@19.ais	2.18E+09	1.61E+06	4.39E+06	3.22E+03	2.02E-03	1.63E-07	0.0020164	1.634E-07	5.57	0.08	0.28			
MP-1@20.ais	2.18E+09	1.89E+06	4.40E+06	3.77E+03	2.02E-03	1.32E-07	0.0020189	1.323E-07	6.84	0.07	0.28			
MP-1@21.ais	2.18E+09	1.44E+06	4.41E+06	2.89E+03	2.02E-03	1.86E-07	0.0020183	1.861E-07	6.53	0.09	0.28			
MP-1@22.ais	2.19E+09	1.32E+06	4.42E+06	2.58E+03	2.02E-03	2.30E-07	0.0020175	2.302E-07	6.14	0.11	0.28			
MP-1@23.ais	2.19E+09	1.35E+06	4.42E+06	2.85E+03	2.02E-03	3.01E-07	0.0020181	3.015E-07	6.43	0.15	0.37			
MPe-1nonenclave@1.ais	2.04E+09	5.16E+05	4.12E+06	9.69E+02	2.01E-03	1.80E-07	0.0020154	1.80E-07	6.46	0.09	0.21			
MPe-1nonenclave@2.ais	2.03E+09	7.04E+05	4.09E+06	1.30E+03	2.02E-03	1.77E-07	0.0020157	1.77E-07	6.57	0.09	0.21			
MPe-1nonenclave@3.ais	2.02E+09	4.65E+05	4.07E+06	1.01E+03	2.02E-03	1.72E-07	0.0020165	1.72E-07	7.01	0.09	0.21			
MPe-1nonenclave@4.ais	2.01E+09	9.57E+05	4.05E+06	1.95E+03	2.01E-03	1.94E-07	0.0020144	1.94E-07	5.94	0.10	0.21			
MPe-1nonenclave@5.ais	2.01E+09	9.68E+05	4.04E+06	2.03E+03	2.02E-03	1.19E-07	0.0020157	1.19E-07	6.57	0.06	0.21			
MPe-1nonenclave@6.ais	2.00E+09	1.01E+06	4.02E+06	2.05E+03	2.01E-03	1.63E-07	0.0020142	1.63E-07	5.82	0.08	0.21			
MPe-1nonenclave@7.ais	1.56E+09	8.10E+05	3.14E+06	1.72E+03	2.01E-03	3.69E-07	0.0020129	3.69E-07	5.20	0.18	0.21			
MPe-1nonenclave@8.ais	1.84E+09	8.72E+05	3.71E+06	1.82E+03	2.01E-03	1.48E-07	0.0020118	1.48E-07	4.65	0.07	0.21			
MPe-1nonenclave@10.ais	1.99E+09	1.79E+06	4.01E+06	3.65E+03	2.01E-03	1.93E-07	0.0020149	1.93E-07	6.17	0.10	0.21			
MPe-1nonenclave@11.ais	2.39E+09	3.63E+06	4.81E+06	7.39E+03	2.01E-03	1.20E-07	0.0020152	1.20E-07	6.34	0.06	0.21			
MPe-1nonenclave@12.ais	2.29E+09	1.84E+06	4.62E+06	3.67E+03	2.01E-03	1.39E-07	0.0020155	1.39E-07	6.50	0.07	0.21			
MPe-1nonenclave@13.ais	2.24E+09	2.06E+06	4.52E+06	4.12E+03	2.01E-03	1.81E-07	0.0020155	1.81E-07	6.50	0.09	0.21			
MPe-1nonenclave@14.ais	2.16E+09	5.76E+06	4.36E+06	1.19E+04	2.01E-03	3.53E-07	0.0020145	3.53E-07	5.97	0.18	0.21			
MPe-1nonenclave@15.ais	2.16E+09	1.57E+06	4.36E+06	3.32E+03	2.01E-03	1.40E-07	0.0020154	1.40E-07	6.44	0.07	0.21			
MPe-1nonenclave@16.ais	2.10E+09	7.08E+05	4.22E+06	1.58E+03	2.01E-03	1.56E-07	0.0020150	1.56E-07	6.23	0.08	0.21			
MPe-1nonenclave@17.ais	2.08E+09	5.43E+05	4.20E+06	1.30E+03	2.01E-03	2.37E-07	0.0020154	2.37E-07	6.45	0.12	0.21			
MPe-1nonenclave@18.ais	2.07E+09	9.21E+05	4.16E+06	1.80E+03	2.01E-03	1.38E-07	0.0020144	1.38E-07	5.97	0.07	0.21			
MPe-1nonenclave@19.ais	2.06E+09	8.73E+05	4.16E+06	1.93E+03	2.01E-03	1.86E-07	0.0020152	1.86E-07	6.33	0.09	0.21			
MPe-1nonenclave@20.ais	2.05E+09	1.46E+06	4.13E+06	3.07E+03	2.01E-03	1.55E-07	0.0020156	1.55E-07	6.52	0.08	0.21			
MPe-1nonenclave@21.ais	2.05E+09	6.23E+05	4.12E+06	1.37E+03	2.01E-03	1.78E-07	0.0020148	1.78E-07	6.15	0.09	0.21			
MPe-1nonenclave@22.ais	2.04E+09	1.14E+06	4.10E+06	2.41E+03	2.01E-03	1.31E-07	0.0020143	1.31E-07	5.90	0.07	0.21			
MPe-1nonenclave@23.ais	2.04E+09	1.05E+06	4.10E+06	2.25E+03	2.01E-03	1.59E-07	0.0020142	1.59E-07	5.85	0.08	0.21			
MPe-1nonenclave@24.ais	2.03E+09	1.38E+06	4.09E+06	2.90E+03	2.01E-03	1.58E-07	0.0020155	1.59E-07	6.49	0.08	0.21			
MPe-1nonenclave@25.ais	2.03E+09	1.04E+06	4.09E+06	2.29E+03	2.01E-03	2.28E-07	0.0020149	2.28E-07	6.18	0.11	0.21			

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	^{16}O CPS ^a	^{16}O Error (1 sigma)	^{18}O CPS ^a	^{18}O Error (1 sigma)	$^{18}\text{O}/^{16}\text{O}$	$^{18}\text{O}/^{16}\text{O}$ Error (1 sigma)	Corrected $^{18}\text{O}/^{16}\text{O}$	Error Corrected	Corrected $\delta^{18}\text{O}$	$\delta^{18}\text{O}$ Error (Internal) (1 sigma) ^b	$\delta^{18}\text{O}$ Error (External) (1 sigma)	Average $\delta^{18}\text{O}$	Standard Deviation (1 sigma)	Number of Samples (n)
Moss Porphyry Enclave												6.74	0.95	10
MPe-1@11.ais	3.39E+09	8.52E+06	6.82E+06	1.71E+04	2.01E-03	1.34E-07	0.0020146	1.34E-07	6.02	0.07	0.25			
MPe-1@12.ais	3.53E+09	7.12E+06	7.11E+06	1.44E+04	2.01E-03	7.78E-08	0.0020149	7.78E-08	6.18	0.04	0.25			
MPe-1@13.ais	3.65E+09	7.26E+06	7.34E+06	1.45E+04	2.01E-03	1.11E-07	0.0020145	1.11E-07	6.01	0.06	0.25			
MPe-1@14.ais	3.43E+09	3.04E+07	6.91E+06	6.11E+04	2.01E-03	9.33E-08	0.0020150	9.34E-08	6.22	0.05	0.25			
MPe-1@15.ais	2.92E+09	1.61E+07	5.89E+06	3.25E+04	2.01E-03	1.40E-07	0.0020158	1.40E-07	6.66	0.07	0.25			
MPe-1@16.ais	2.43E+09	2.68E+06	4.90E+06	5.52E+03	2.01E-03	1.23E-07	0.0020158	1.23E-07	6.65	0.06	0.25			
MPe-1@17.ais	2.39E+09	1.49E+06	4.81E+06	3.07E+03	2.01E-03	1.50E-07	0.0020147	1.50E-07	6.08	0.07	0.25			
MPe-1@18.ais	2.40E+09	1.22E+06	4.85E+06	2.65E+03	2.01E-03	1.60E-07	0.0020158	1.60E-07	6.65	0.08	0.25			
MPe-1@19.ais	2.41E+09	1.20E+06	4.86E+06	2.34E+03	2.02E-03	1.19E-07	0.0020200	1.19E-07	8.75	0.06	0.25			
MPe-1@20.ais	2.31E+09	1.73E+06	4.66E+06	3.34E+03	2.02E-03	1.45E-07	0.0020188	1.45E-07	8.13	0.07	0.25			
Times Porphyry												5.89	0.51	101
TIP-1@1.ais	2.20E+09	1.73E+06	4.43E+06	3.65E+03	2.02E-03	1.74E-07	0.0020168	1.737E-07	5.79	0.09	0.37			
TIP-1@2.ais	2.19E+09	1.14E+06	4.41E+06	2.32E+03	2.02E-03	1.82E-07	0.0020173	1.821E-07	6.03	0.09	0.37			
TIP-1@3.ais	2.19E+09	1.18E+06	4.42E+06	2.37E+03	2.02E-03	1.23E-07	0.0020163	1.229E-07	5.54	0.06	0.37			
TIP-1@4.ais	2.20E+09	1.47E+06	4.43E+06	2.95E+03	2.02E-03	1.23E-07	0.0020176	1.229E-07	6.20	0.06	0.37			
TIP-1@5.ais	2.20E+09	1.25E+06	4.44E+06	2.95E+03	2.02E-03	1.77E-07	0.0020176	1.773E-07	6.16	0.09	0.37			
TIP-1@6.ais	2.20E+09	1.70E+06	4.43E+06	2.95E+03	2.02E-03	1.82E-07	0.0020172	1.821E-07	5.99	0.09	0.37			
TIP-1@7.ais	2.20E+09	1.12E+06	4.44E+06	2.95E+03	2.02E-03	7.58E-08	0.0020173	7.588E-08	6.02	0.04	0.37			
TIP-1@8.ais	2.19E+09	1.59E+06	4.42E+06	2.95E+03	2.02E-03	2.02E-07	0.0020161	2.019E-07	5.45	0.10	0.37			
TIP-1@9.ais	2.20E+09	1.15E+06	4.44E+06	2.95E+03	2.02E-03	1.24E-07	0.0020176	1.238E-07	6.20	0.06	0.37			
TIP-1@10.ais	2.21E+09	1.20E+06	4.45E+06	2.95E+03	2.02E-03	1.16E-07	0.0020170	1.163E-07	5.88	0.06	0.37			
TIP-1@11.ais	2.20E+09	9.37E+05	4.44E+06	2.95E+03	2.02E-03	1.46E-07	0.0020166	1.458E-07	5.68	0.07	0.37			
TIP-1@12.ais	2.21E+09	1.16E+06	4.46E+06	2.95E+03	2.02E-03	2.09E-07	0.0020171	2.087E-07	5.92	0.10	0.37			
TIP-1@13.ais	2.21E+09	1.73E+06	4.45E+06	2.95E+03	2.02E-03	1.51E-07	0.0020175	1.513E-07	6.12	0.08	0.37			
TIP-1@14.ais	2.00E+09	9.12E+05	4.04E+06	2.95E+03	2.02E-03	1.74E-07	0.0020227	1.741E-07	8.74	0.09	0.37			
TIP-1@15.ais	2.20E+09	1.66E+06	4.43E+06	2.95E+03	2.01E-03	1.51E-07	0.0020156	1.516E-07	5.20	0.08	0.37			
TIP-1@16.ais	2.20E+09	1.03E+06	4.44E+06	2.95E+03	2.02E-03	1.35E-07	0.0020166	1.353E-07	5.71	0.07	0.37			
TIP-1@17.ais	2.20E+09	1.28E+06	4.44E+06	2.95E+03	2.02E-03	1.21E-07	0.0020169	1.210E-07	5.85	0.06	0.37			
TIP-1@18.ais	2.21E+09	1.35E+06	4.45E+06	2.95E+03	2.02E-03	1.15E-07	0.0020160	1.152E-07	5.37	0.06	0.37			
TIP-1@19.ais	2.20E+09	1.02E+06	4.43E+06	2.95E+03	2.02E-03	1.72E-07	0.0020169	1.721E-07	5.81	0.09	0.37			
TIP-1@20.ais	2.21E+09	1.20E+06	4.45E+06	2.95E+03	2.02E-03	1.67E-07	0.0020172	1.669E-07	5.97	0.08	0.37			
TIP-1@21.ais	2.21E+09	1.33E+06	4.45E+06	2.95E+03	2.02E-03	1.32E-07	0.0020168	1.323E-07	5.79	0.07	0.37			
TIP-1@22.ais	2.20E+09	1.38E+06	4.44E+06	2.95E+03	2.02E-03	1.48E-07	0.0020167	1.483E-07	5.72	0.07	0.37			
TIP-1@23.ais	2.20E+09	1.13E+06	4.44E+06	2.95E+03	2.02E-03	1.61E-07	0.0020162	1.609E-07	5.50	0.08	0.37			
TIP-1@24.ais	2.20E+09	1.37E+06	4.43E+06	2.95E+03	2.02E-03	1.62E-07	0.0020169	1.620E-07	5.83	0.08	0.37			
TIP-1@25.ais	2.20E+09	1.53E+06	4.44E+06	2.95E+03	2.02E-03	2.29E-07	0.0020174	2.287E-07	6.08	0.11	0.37			
TIP-1@26.ais	2.20E+09	2.29E+06	4.43E+06	2.95E+03	2.02E-03	1.84E-07	0.0020165	1.838E-07	5.64	0.09	0.37			
TIP-1@27.ais	2.20E+09	1.09E+06	4.43E+06	2.95E+03	2.02E-03	1.26E-07	0.0020176	1.258E-07	6.16	0.06	0.37			
TIP-1@28.ais	2.20E+09	1.05E+06	4.44E+06	2.95E+03	2.02E-03	1.15E-07	0.0020170	1.150E-07	5.89	0.06	0.37			
TIP-1@29.ais	2.21E+09	1.16E+06	4.46E+06	2.95E+03	2.02E-03	1.63E-07	0.0020177	1.632E-07	6.22	0.08	0.37			
TIP-1@30.ais	2.19E+09	1.46E+06	4.42E+06	2.95E+03	2.02E-03	9.32E-08	0.0020174	9.322E-08	6.06	0.05	0.21			
TIP-1@31.ais	2.19E+09	9.20E+05	4.41E+06	2.95E+03	2.02E-03	1.61E-07	0.0020165	1.615E-07	5.62	0.08	0.21			
TIP-1@32.ais	2.19E+09	2.37E+06	4.41E+06	2.95E+03	2.02E-03	1.78E-07	0.0020171	1.786E-07	5.92	0.09	0.21			
SCM-20@1.ais	2.20E+09	1.25E+06	4.44E+06	2.95E+03	2.02E-03	1.83E-07	0.0020177	1.829E-07	6.25	0.09	0.17			
SCM-20@2.ais	2.20E+09	1.64E+06	4.44E+06	2.95E+03	2.02E-03	2.03E-07	0.0020176	2.035E-07	6.17	0.10	0.17			
SCM-20@3.ais	2.20E+09	1.17E+06	4.43E+06	2.95E+03	2.02E-03	8.63E-08	0.0020171	8.632E-08	5.95	0.04	0.17			
SCM-20@4.ais	2.20E+09	1.45E+06	4.44E+06	2.95E+03	2.02E-03	1.78E-07	0.0020170	1.782E-07	5.91	0.09	0.17			

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	^{16}O CPS ^a	^{16}O Error (1 sigma)	^{18}O CPS ^a	^{18}O Error (1 sigma)	$^{18}\text{O}/^{16}\text{O}$	$^{18}\text{O}/^{16}\text{O}$ Error (1 sigma)	Corrected $^{18}\text{O}/^{16}\text{O}$	Error Corrected	Corrected $\delta^{18}\text{O}$	$\delta^{18}\text{O}$ Error (Internal) (1 sigma) ^b	$\delta^{18}\text{O}$ Error (External) (1 sigma)	Average $\delta^{18}\text{O}$	Standard Deviation (1 sigma)	Number of Samples (n)
SCM-20@5.ais	2.21E+09	1.55E+06	4.45E+06	2.95E+03	2.02E-03	1.94E-07	0.0020182	1.942E-07	6.51	0.10	0.17			
SCM-20@6.ais	2.20E+09	9.95E+05	4.43E+06	2.95E+03	2.02E-03	2.29E-07	0.0020185	2.291E-07	6.66	0.11	0.17			
SCM-20@7.ais	2.21E+09	1.55E+06	4.46E+06	2.95E+03	2.02E-03	1.20E-07	0.0020180	1.204E-07	6.40	0.06	0.17			
SCM-20@8.ais	2.20E+09	2.13E+06	4.44E+06	2.95E+03	2.01E-03	1.78E-07	0.0020162	1.781E-07	5.49	0.09	0.17			
SCM-20@9.ais	2.21E+09	1.64E+06	4.45E+06	2.95E+03	2.02E-03	1.46E-07	0.0020172	1.462E-07	5.99	0.07	0.17			
SCM-20@10.ais	2.21E+09	1.70E+06	4.45E+06	2.95E+03	2.02E-03	1.40E-07	0.0020178	1.403E-07	6.28	0.07	0.17			
SCM-20@11.ais	2.20E+09	1.12E+06	4.44E+06	2.95E+03	2.02E-03	1.09E-07	0.0020173	1.095E-07	6.04	0.05	0.17			
SCM-20@12.ais	2.22E+09	1.41E+06	4.47E+06	2.95E+03	2.02E-03	1.59E-07	0.0020171	1.588E-07	5.96	0.08	0.17			
SCM-20@13.ais	2.20E+09	1.65E+06	4.44E+06	2.95E+03	2.02E-03	2.31E-07	0.0020182	2.315E-07	6.49	0.11	0.17			
SCM-20@14.ais	2.21E+09	2.83E+06	4.45E+06	2.95E+03	2.02E-03	1.51E-07	0.0020173	1.511E-07	6.04	0.07	0.17			
SCM-20@15.ais	2.21E+09	1.45E+06	4.45E+06	2.95E+03	2.02E-03	1.23E-07	0.0020188	1.230E-07	6.79	0.06	0.17			
SCM-20@16.ais	2.22E+09	7.32E+05	4.47E+06	2.95E+03	2.02E-03	1.15E-07	0.0020172	1.148E-07	6.01	0.06	0.17			
SCM-20@17.ais	2.20E+09	1.57E+06	4.44E+06	2.95E+03	2.02E-03	1.50E-07	0.0020174	1.504E-07	6.08	0.07	0.17			
SCM-20@18.ais	2.21E+09	1.29E+06	4.45E+06	2.95E+03	2.02E-03	1.36E-07	0.0020176	1.364E-07	6.16	0.07	0.17			
SCM-20@19.ais	2.20E+09	1.28E+06	4.43E+06	2.95E+03	2.02E-03	1.08E-07	0.0020183	1.083E-07	6.52	0.05	0.17			
SCM-20@20.ais	2.20E+09	1.82E+06	4.43E+06	2.95E+03	2.02E-03	1.80E-07	0.0020181	1.800E-07	6.45	0.09	0.17			
SCM-20@21.ais	2.20E+09	1.17E+06	4.43E+06	2.95E+03	2.02E-03	1.77E-07	0.0020175	1.767E-07	6.16	0.09	0.17			
SCM-20@22.ais	2.21E+09	1.69E+06	4.45E+06	2.95E+03	2.02E-03	2.02E-07	0.0020179	2.024E-07	6.33	0.10	0.21			
SCM-20@23.ais	2.20E+09	8.92E+05	4.44E+06	2.95E+03	2.02E-03	1.68E-07	0.0020170	1.682E-07	5.87	0.08	0.21			
SCM-20@24.ais	2.21E+09	1.49E+06	4.45E+06	2.95E+03	2.02E-03	1.54E-07	0.0020166	1.541E-07	5.67	0.08	0.21			
SCM-20@25.ais	2.22E+09	7.04E+05	4.46E+06	2.95E+03	2.02E-03	1.76E-07	0.0020163	1.764E-07	5.54	0.09	0.21			
SCM-20@26.ais	2.20E+09	1.00E+06	4.44E+06	2.95E+03	2.02E-03	1.37E-07	0.0020166	1.371E-07	5.69	0.07	0.21			
SCM-20@27.ais	2.21E+09	1.01E+06	4.45E+06	2.95E+03	2.02E-03	1.86E-07	0.0020165	1.858E-07	5.65	0.09	0.21			
SCM-20@28.ais	2.20E+09	8.70E+05	4.44E+06	2.95E+03	2.02E-03	1.96E-07	0.0020174	1.962E-07	6.07	0.10	0.21			
SCM-20@29.ais	2.20E+09	1.41E+06	4.44E+06	2.95E+03	2.02E-03	1.31E-07	0.0020177	1.309E-07	6.25	0.06	0.21			
SCM-38@1.ais	2.48E+09	4.82E+05	4.98E+06	1.11E+03	2.01E-03	1.26E-07	0.0020149	1.26E-07	6.19	0.06	0.13			
SCM-38@2.ais	2.48E+09	1.07E+06	4.99E+06	2.21E+03	2.01E-03	1.32E-07	0.0020150	1.32E-07	6.25	0.07	0.13			
SCM-38@3.ais	2.51E+09	3.43E+06	5.04E+06	6.64E+03	2.01E-03	1.65E-07	0.0020137	1.65E-07	5.58	0.08	0.13			
SCM-38@4.ais	2.46E+09	6.99E+06	4.95E+06	1.42E+04	2.01E-03	1.57E-07	0.0020141	1.58E-07	5.80	0.08	0.13			
SCM-38@5.ais	2.51E+09	6.59E+05	5.04E+06	1.42E+03	2.01E-03	1.48E-07	0.0020147	1.48E-07	6.09	0.07	0.13			
SCM-38@6.ais	2.55E+09	7.24E+05	5.13E+06	1.32E+03	2.01E-03	1.82E-07	0.0020152	1.83E-07	6.33	0.09	0.13			
SCM-38@7.ais	2.57E+09	1.36E+06	5.16E+06	2.64E+03	2.01E-03	7.89E-08	0.0020149	7.90E-08	6.21	0.04	0.13			
SCM-38@8.ais	2.58E+09	1.45E+06	5.19E+06	3.06E+03	2.01E-03	1.06E-07	0.0020150	1.06E-07	6.23	0.05	0.13			
SCM-38@9.ais	2.59E+09	6.03E+05	5.20E+06	1.15E+03	2.01E-03	1.30E-07	0.0020151	1.30E-07	6.27	0.06	0.13			
SCM-38@10.ais	2.59E+09	9.80E+05	5.22E+06	2.05E+03	2.01E-03	1.53E-07	0.0020159	1.53E-07	6.71	0.08	0.13			
SCM-37@1.ais	3.95E+09	1.91E+06	7.95E+06	3.75E+03	2.01E-03	7.13E-08	0.0020142	7.14E-08	5.82	0.04	0.09			
SCM-37@2.ais	2.96E+09	3.23E+06	5.96E+06	6.53E+03	2.01E-03	1.24E-07	0.0020136	1.24E-07	5.54	0.06	0.09			
SCM-37@3.ais	3.80E+09	7.95E+05	7.64E+06	1.66E+03	2.01E-03	9.98E-08	0.0020140	9.99E-08	5.75	0.05	0.09			
SCM-37@4.ais	3.72E+09	5.87E+05	7.48E+06	1.29E+03	2.01E-03	9.84E-08	0.0020140	9.84E-08	5.75	0.05	0.09			
SCM-37@5.ais	3.70E+09	5.26E+05	7.44E+06	1.47E+03	2.01E-03	1.66E-07	0.0020140	1.66E-07	5.76	0.08	0.09			
SCM-37@6.ais	3.58E+09	1.06E+06	7.20E+06	2.16E+03	2.01E-03	6.32E-08	0.0020132	6.33E-08	5.33	0.03	0.09			
SCM-37@7.ais	3.61E+09	2.05E+06	7.27E+06	4.27E+03	2.01E-03	8.44E-08	0.0020138	8.45E-08	5.64	0.04	0.09			
SCM-37@8.ais	3.58E+09	1.92E+06	7.19E+06	3.89E+03	2.01E-03	1.16E-07	0.0020137	1.16E-07	5.59	0.06	0.09			
SCM-37@9.ais	3.57E+09	1.62E+06	7.18E+06	3.16E+03	2.01E-03	7.65E-08	0.0020132	7.65E-08	5.36	0.04	0.09			
SCM-37@10.ais	3.59E+09	6.36E+06	7.22E+06	1.27E+04	2.01E-03	1.06E-07	0.0020132	1.06E-07	5.36	0.05	0.09			
SCM-37@11.ais	2.16E+09	6.51E+05	4.35E+06	1.39E+03	2.01E-03	1.43E-07	0.0020138	1.43E-07	5.63	0.07	0.39			
SCM-37@12.ais	2.15E+09	1.47E+06	4.33E+06	3.05E+03	2.01E-03	1.60E-07	0.0020141	1.60E-07	5.79	0.08	0.39			
SCM-37@13.ais	1.91E+09	2.17E+06	3.84E+06	4.30E+03	2.01E-03	1.33E-07	0.0020127	1.33E-07	5.08	0.07	0.39			

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	¹⁶ O CPS ^a	¹⁶ O Error (1 sigma)	¹⁸ O CPS ^a	¹⁸ O Error (1 sigma)	¹⁸ O/ ¹⁶ O	¹⁸ O/ ¹⁶ O Error (1 sigma)	Corrected ¹⁸ O/ ¹⁶ O	Error Corrected	Corrected ^δ ¹⁸ O	^δ ¹⁸ O Error (Internal) (1 sigma) ^b	^δ ¹⁸ O Error (External) (1 sigma)	Average ^δ ¹⁸ O	Standard Deviation (1 sigma)	Number of Samples (n)
SCM-37@14.ais	2.14E+09	1.78E+06	4.30E+06	3.64E+03	2.01E-03	1.46E-07	0.0020123	1.46E-07	4.92	0.07	0.39			
SCM-37@15.ais	2.09E+09	3.60E+06	4.21E+06	7.44E+03	2.01E-03	2.05E-07	0.0020131	2.05E-07	5.30	0.10	0.39			
SCM-37@16.ais	2.17E+09	1.93E+06	4.36E+06	3.98E+03	2.01E-03	1.47E-07	0.0020130	1.47E-07	5.26	0.07	0.39			
SCM-37@17.ais	2.17E+09	1.68E+06	4.36E+06	3.47E+03	2.01E-03	1.16E-07	0.0020125	1.16E-07	4.98	0.06	0.39			
SCM-37@18.ais	2.16E+09	1.58E+06	4.34E+06	3.29E+03	2.01E-03	1.25E-07	0.0020120	1.25E-07	4.74	0.06	0.39			
SCM-37@19.ais	2.15E+09	1.21E+06	4.32E+06	2.57E+03	2.01E-03	2.19E-07	0.0020122	2.19E-07	4.85	0.11	0.39			
SCM-37@20.ais	2.14E+09	1.74E+06	4.31E+06	3.76E+03	2.01E-03	1.97E-07	0.0020129	1.97E-07	5.19	0.10	0.39			
SCM-38@11.ais	1.99E+09	5.23E+05	4.01E+06	1.08E+03	2.01E-03	2.25E-07	0.0020145	2.25E-07	6.00	0.11	0.09			
SCM-38@12.ais	2.05E+09	8.56E+05	4.12E+06	1.70E+03	2.01E-03	1.60E-07	0.0020139	1.60E-07	5.70	0.08	0.09			
SCM-38@13.ais	2.04E+09	7.43E+05	4.10E+06	1.45E+03	2.02E-03	1.64E-07	0.0020155	1.64E-07	6.51	0.08	0.09			
SCM-38@14.ais	2.01E+09	9.44E+05	4.04E+06	1.90E+03	2.02E-03	1.71E-07	0.0020158	1.71E-07	6.64	0.08	0.09			
SCM-38@15.ais	2.02E+09	1.18E+06	4.06E+06	2.57E+03	2.01E-03	1.83E-07	0.0020144	1.83E-07	5.94	0.09	0.09			
SCM-38@16.ais	1.75E+09	9.16E+05	3.52E+06	1.92E+03	2.01E-03	1.83E-07	0.0020123	1.83E-07	4.92	0.09	0.09			
SCM-38@17.ais	2.00E+09	8.04E+05	4.04E+06	1.76E+03	2.01E-03	1.41E-07	0.0020132	1.41E-07	5.36	0.07	0.09			
SCM-38@18.ais	2.00E+09	1.08E+06	4.03E+06	2.33E+03	2.01E-03	1.59E-07	0.0020141	1.59E-07	5.80	0.08	0.09			
SCM-38@19.ais	2.00E+09	9.60E+05	4.03E+06	1.95E+03	2.01E-03	1.52E-07	0.0020146	1.52E-07	6.06	0.08	0.09			
SCM-38@20.ais	2.01E+09	1.74E+06	4.04E+06	3.55E+03	2.01E-03	1.65E-07	0.0020136	1.65E-07	5.52	0.08	0.09			
Times Enclave												6.27	0.42	20
SCM27b@1.ais	1.99E+09	1.66E+06	4.01E+06	3.39E+03	2.01E-03	2.32E-07	0.0020141	2.32E-07	5.79	0.12	0.21			
SCM27b@2.ais	2.01E+09	1.98E+06	4.04E+06	3.85E+03	2.01E-03	2.59E-07	0.0020145	2.59E-07	5.98	0.13	0.21			
SCM27b@3.ais	2.01E+09	1.79E+06	4.06E+06	3.51E+03	2.01E-03	1.68E-07	0.0020142	1.68E-07	5.84	0.08	0.21			
SCM27b@4.ais	2.02E+09	1.48E+06	4.07E+06	3.08E+03	2.01E-03	1.48E-07	0.0020142	1.48E-07	5.86	0.07	0.21			
SCM27b@5.ais	2.13E+09	9.21E+06	4.28E+06	1.87E+04	2.01E-03	1.77E-07	0.0020144	1.77E-07	5.93	0.09	0.21			
SCM27b@6.ais	2.44E+09	5.91E+06	4.91E+06	1.18E+04	2.01E-03	1.78E-07	0.0020141	1.79E-07	5.78	0.09	0.21			
SCM27b@7.ais	2.53E+09	5.96E+06	5.10E+06	1.21E+04	2.01E-03	9.58E-08	0.0020142	9.58E-08	5.86	0.05	0.21			
SCM27b@8.ais	2.63E+09	7.38E+06	5.29E+06	1.49E+04	2.01E-03	9.02E-08	0.0020148	9.02E-08	6.13	0.04	0.21			
SCM27b@9.ais	2.75E+09	7.43E+06	5.54E+06	1.50E+04	2.01E-03	1.52E-07	0.0020152	1.52E-07	6.35	0.08	0.21			
SCM27b@10.ais	2.86E+09	6.05E+06	5.76E+06	1.24E+04	2.02E-03	1.76E-07	0.0020164	1.76E-07	6.95	0.09	0.21			
SCM-27b@11.ais	2.40E+09	4.39E+05	4.83E+06	1.05E+03	2.01E-03	1.69E-07	0.0020151	1.69E-07	6.30	0.08	0.25			
SCM-27b@12.ais	2.39E+09	1.26E+06	4.82E+06	2.52E+03	2.02E-03	1.86E-07	0.0020160	1.86E-07	6.74	0.09	0.25			
SCM-27b@13.ais	2.39E+09	2.26E+06	4.82E+06	4.61E+03	2.02E-03	1.02E-07	0.0020169	1.02E-07	7.19	0.05	0.25			
SCM-27b@14.ais	2.40E+09	1.37E+06	4.84E+06	2.65E+03	2.02E-03	1.29E-07	0.0020163	1.29E-07	6.89	0.06	0.25			
SCM-27b@15.ais	2.42E+09	1.53E+06	4.88E+06	2.87E+03	2.01E-03	1.97E-07	0.0020155	1.97E-07	6.48	0.10	0.25			
SCM-27b@16.ais	2.43E+09	1.60E+06	4.89E+06	3.21E+03	2.01E-03	1.99E-07	0.0020148	1.99E-07	6.13	0.10	0.25			
SCM-27b@17.ais	2.44E+09	1.27E+06	4.91E+06	2.49E+03	2.01E-03	1.20E-07	0.0020147	1.20E-07	6.12	0.06	0.25			
SCM-27b@18.ais	2.42E+09	1.48E+06	4.87E+06	3.02E+03	2.01E-03	1.24E-07	0.0020152	1.24E-07	6.33	0.06	0.25			
SCM-27b@19.ais	2.43E+09	1.03E+06	4.90E+06	2.08E+03	2.01E-03	1.79E-07	0.0020148	1.79E-07	6.14	0.09	0.25			
SCM-27b@20.ais	2.43E+09	1.53E+06	4.89E+06	2.97E+03	2.01E-03	1.56E-07	0.0020159	1.56E-07	6.67	0.08	0.25			
Feldspar Porphyry Dike												5.86	0.40	67
SCM1b@1.ais	2.20E+09	1.34E+06	4.43E+06	2.95E+03	2.02E-03	1.14E-07	0.0020169	1.139E-07	5.85	0.06	0.21			
SCM1b@2.ais	2.20E+09	1.25E+06	4.44E+06	2.95E+03	2.02E-03	1.65E-07	0.0020179	1.650E-07	6.33	0.08	0.21			
SCM1b@3.ais	2.21E+09	1.13E+06	4.46E+06	2.95E+03	2.02E-03	1.71E-07	0.0020168	1.707E-07	5.80	0.08	0.21			
SCM1b@4.ais	2.21E+09	1.14E+06	4.46E+06	2.95E+03	2.02E-03	1.48E-07	0.0020187	1.482E-07	6.74	0.07	0.21			
SCM1b@5.ais	2.19E+09	1.21E+06	4.42E+06	2.95E+03	2.02E-03	1.49E-07	0.0020167	1.490E-07	5.72	0.07	0.21			
SCM1b@6.ais	2.20E+09	1.43E+06	4.44E+06	2.95E+03	2.02E-03	1.51E-07	0.0020174	1.513E-07	6.08	0.08	0.21			
SCM1b@7.ais	2.20E+09	9.46E+05	4.43E+06	2.95E+03	2.02E-03	1.80E-07	0.0020165	1.801E-07	5.64	0.09	0.21			
SCM1b@8.ais	2.20E+09	5.96E+05	4.44E+06	2.95E+03	2.02E-03	1.61E-07	0.0020172	1.606E-07	6.00	0.08	0.29			
SCM1b@9.ais	2.21E+09	8.08E+05	4.45E+06	2.95E+03	2.01E-03	1.62E-07	0.0020163	1.619E-07	5.52	0.08	0.29			

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	¹⁶ O CPS ^a	¹⁶ O Error (1 sigma)	¹⁸ O CPS ^a	¹⁸ O Error (1 sigma)	¹⁸ O/ ¹⁶ O	¹⁸ O/ ¹⁶ O Error (1 sigma)	Corrected ¹⁸ O/ ¹⁶ O	Error Corrected	Corrected ^δ ¹⁸ O	^δ ¹⁸ O Error (Internal) (1 sigma) ^b	^δ ¹⁸ O Error (External) (1 sigma)	Average ^δ ¹⁸ O	Standard Deviation (1 sigma)	Number of Samples (n)
SCM1b@10.ais	2.21E+09	1.20E+06	4.45E+06	2.95E+03	2.02E-03	1.96E-07	0.0020182	1.963E-07	6.47	0.10	0.29			
SCM1b@11.ais	2.21E+09	1.24E+06	4.45E+06	2.95E+03	2.02E-03	2.22E-07	0.0020185	2.222E-07	6.61	0.11	0.29			
SCM1b@12.ais	2.21E+09	9.95E+05	4.45E+06	2.95E+03	2.02E-03	1.91E-07	0.0020173	1.915E-07	6.03	0.09	0.29			
SCM1b@13.ais	2.21E+09	1.53E+06	4.47E+06	2.95E+03	2.02E-03	1.92E-07	0.0020181	1.916E-07	6.42	0.09	0.29			
SCM1b@14.ais	2.20E+09	1.07E+06	4.43E+06	2.95E+03	2.02E-03	1.83E-07	0.0020172	1.835E-07	5.97	0.09	0.29			
SCM1b@15.ais	2.21E+09	1.22E+06	4.46E+06	2.95E+03	2.02E-03	1.39E-07	0.0020179	1.395E-07	6.36	0.07	0.29			
SCM1b@16.ais	2.20E+09	1.07E+06	4.44E+06	2.95E+03	2.02E-03	1.40E-07	0.0020169	1.398E-07	5.84	0.07	0.29			
SCM1b@17.ais	2.21E+09	1.38E+06	4.46E+06	2.95E+03	2.02E-03	1.56E-07	0.0020166	1.558E-07	5.70	0.08	0.29			
SCM1b@18.ais	2.20E+09	1.38E+06	4.44E+06	2.95E+03	2.02E-03	2.06E-07	0.0020183	2.061E-07	6.53	0.10	0.28			
SCM1b@19.ais	2.21E+09	1.54E+06	4.44E+06	2.95E+03	2.01E-03	1.46E-07	0.0020163	1.464E-07	5.53	0.07	0.28			
SCM1b@20.ais	2.20E+09	1.77E+06	4.43E+06	2.95E+03	2.02E-03	1.97E-07	0.0020183	1.968E-07	6.55	0.10	0.28			
SCM1b@21.ais	2.21E+09	1.79E+06	4.46E+06	2.95E+03	2.02E-03	1.25E-07	0.0020174	1.246E-07	6.08	0.06	0.28			
SCM1b@22.ais	2.21E+09	1.58E+06	4.45E+06	2.95E+03	2.02E-03	1.18E-07	0.0020176	1.176E-07	6.20	0.06	0.28			
SCM1b@23.ais	2.21E+09	1.61E+06	4.45E+06	2.95E+03	2.02E-03	1.66E-07	0.0020177	1.664E-07	6.23	0.08	0.28			
SCM1b@24.ais	2.21E+09	1.44E+06	4.46E+06	2.95E+03	2.02E-03	1.43E-07	0.0020172	1.430E-07	6.00	0.07	0.28			
SCM1b@25.ais	2.20E+09	1.28E+06	4.44E+06	2.95E+03	2.02E-03	1.07E-07	0.0020181	1.073E-07	6.45	0.05	0.28			
SCM1b@26.ais	2.20E+09	1.06E+06	4.44E+06	2.95E+03	2.02E-03	2.01E-07	0.0020177	2.010E-07	6.26	0.10	0.28			
SCM1b@27.ais	2.21E+09	1.62E+06	4.45E+06	2.95E+03	2.01E-03	1.76E-07	0.0020160	1.759E-07	5.36	0.09	0.28			
SCM-30@1.ais	3.10E+09	1.63E+06	6.24E+06	3.48E+03	2.01E-03	1.52E-07	0.0020144	1.52E-07	5.93	0.08	0.09			
SCM-30@2.ais	3.10E+09	1.28E+06	6.24E+06	2.59E+03	2.01E-03	1.16E-07	0.0020138	1.16E-07	5.62	0.06	0.09			
SCM-30@3.ais	3.11E+09	1.01E+06	6.26E+06	2.10E+03	2.01E-03	1.40E-07	0.0020139	1.40E-07	5.68	0.07	0.09			
SCM-30@4.ais	3.12E+09	7.06E+05	6.27E+06	1.43E+03	2.01E-03	1.34E-07	0.0020148	1.34E-07	6.12	0.07	0.09			
SCM-30@5.ais	3.13E+09	2.02E+06	6.30E+06	4.23E+03	2.01E-03	1.01E-07	0.0020148	1.01E-07	6.13	0.05	0.09			
SCM-30@6.ais	3.18E+09	8.52E+05	6.40E+06	1.78E+03	2.01E-03	1.31E-07	0.0020141	1.31E-07	5.78	0.07	0.09			
SCM-30@7.ais	3.19E+09	1.64E+06	6.41E+06	3.31E+03	2.01E-03	7.05E-08	0.0020140	7.06E-08	5.76	0.04	0.09			
SCM-30@8.ais	3.21E+09	1.28E+06	6.45E+06	2.75E+03	2.01E-03	9.15E-08	0.0020139	9.16E-08	5.68	0.05	0.09			
SCM-30@9.ais	3.22E+09	2.07E+06	6.47E+06	4.18E+03	2.01E-03	8.43E-08	0.0020141	8.44E-08	5.79	0.04	0.09			
SCM-30@10.ais	3.21E+09	8.68E+05	6.47E+06	1.91E+03	2.01E-03	1.47E-07	0.0020145	1.47E-07	5.98	0.07	0.09			
SCM-13@1.ais	3.29E+09	6.39E+06	6.62E+06	1.27E+04	2.01E-03	1.63E-07	0.0020130	1.63E-07	5.24	0.08	0.09			
SCM-13@2.ais	3.17E+09	6.38E+06	6.38E+06	1.26E+04	2.01E-03	1.59E-07	0.0020115	1.59E-07	4.48	0.08	0.09			
SCM-13@3.ais	3.34E+09	3.29E+06	6.72E+06	6.45E+03	2.01E-03	8.89E-08	0.0020142	8.90E-08	5.83	0.04	0.09			
SCM-13@4.ais	3.41E+09	1.95E+06	6.86E+06	3.95E+03	2.01E-03	1.78E-07	0.0020143	1.78E-07	5.91	0.09	0.09			
SCM-13@5.ais	3.46E+09	2.01E+06	6.96E+06	4.07E+03	2.01E-03	8.60E-08	0.0020146	8.61E-08	6.03	0.04	0.09			
SCM-13@6.ais	3.51E+09	1.12E+06	7.07E+06	2.17E+03	2.01E-03	8.27E-08	0.0020138	8.27E-08	5.65	0.04	0.09			
SCM-13@7.ais	3.63E+09	5.14E+06	7.31E+06	1.05E+04	2.01E-03	8.60E-08	0.0020140	8.60E-08	5.73	0.04	0.09			
SCM-13@8.ais	3.73E+09	4.33E+06	7.50E+06	8.77E+03	2.01E-03	9.69E-08	0.0020139	9.69E-08	5.71	0.05	0.09			
SCM-13@9.ais	3.73E+09	1.21E+06	7.51E+06	2.46E+03	2.01E-03	9.03E-08	0.0020143	9.04E-08	5.90	0.04	0.09			
SCM-13@10.ais	3.80E+09	2.42E+06	7.64E+06	4.73E+03	2.01E-03	8.56E-08	0.0020139	8.57E-08	5.67	0.04	0.09			
SCM-13@11.ais	1.98E+09	2.89E+06	4.00E+06	6.02E+03	2.01E-03	2.25E-07	0.0020145	2.25E-07	5.98	0.11	0.39			
SCM-13@12.ais	2.16E+09	1.84E+06	4.36E+06	3.78E+03	2.01E-03	1.51E-07	0.0020138	1.51E-07	5.64	0.08	0.39			
SCM-13@13.ais	2.16E+09	9.03E+05	4.35E+06	1.82E+03	2.01E-03	1.39E-07	0.0020141	1.39E-07	5.77	0.07	0.39			
SCM-13@14.ais	2.14E+09	1.42E+06	4.31E+06	2.67E+03	2.01E-03	2.47E-07	0.0020134	2.47E-07	5.44	0.12	0.39			
SCM-13@15.ais	2.14E+09	2.41E+06	4.31E+06	4.98E+03	2.01E-03	1.62E-07	0.0020142	1.62E-07	5.86	0.08	0.39			
SCM-13@16.ais	2.12E+09	1.23E+06	4.26E+06	2.69E+03	2.01E-03	1.98E-07	0.0020132	1.98E-07	5.35	0.10	0.39			
SCM-13@17.ais	2.11E+09	1.79E+06	4.26E+06	3.87E+03	2.01E-03	1.97E-07	0.0020135	1.97E-07	5.48	0.10	0.39			
SCM-13@18.ais	2.11E+09	1.67E+06	4.26E+06	3.40E+03	2.01E-03	1.22E-07	0.0020137	1.22E-07	5.60	0.06	0.39			
SCM-13@19.ais	2.12E+09	2.05E+06	4.27E+06	4.21E+03	2.01E-03	1.27E-07	0.0020130	1.27E-07	5.26	0.06	0.39			
SCM-13@20.ais	2.10E+09	2.09E+06	4.24E+06	4.33E+03	2.02E-03	1.38E-07	0.0020158	1.38E-07	6.62	0.07	0.39			

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	^{16}O CPS ^a	^{16}O Error (1 sigma)	^{18}O CPS ^a	^{18}O Error (1 sigma)	$^{18}\text{O}/^{16}\text{O}$	$^{18}\text{O}/^{16}\text{O}$ Error (1 sigma)	Corrected $^{18}\text{O}/^{16}\text{O}$	Error Corrected	Corrected $\delta^{18}\text{O}$	$\delta^{18}\text{O}$ Error (Internal) (1 sigma) ^b	$\delta^{18}\text{O}$ Error (External) (1 sigma)	Average $\delta^{18}\text{O}$	Standard Deviation (1 sigma)	Number of Samples (n)
SCM-30@11.ais	2.17E+09	1.69E+06	4.37E+06	3.48E+03	2.01E-03	1.45E-07	0.0020133	1.45E-07	5.40	0.07	0.39			
SCM-30@12.ais	2.16E+09	3.69E+06	4.35E+06	7.18E+03	2.01E-03	1.67E-07	0.0020128	1.67E-07	5.16	0.08	0.39			
SCM-30@13.ais	2.18E+09	1.80E+06	4.38E+06	3.80E+03	2.01E-03	1.20E-07	0.0020138	1.20E-07	5.66	0.06	0.39			
SCM-30@14.ais	2.18E+09	2.34E+06	4.38E+06	5.07E+03	2.01E-03	2.71E-07	0.0020137	2.71E-07	5.58	0.13	0.39			
SCM-30@15.ais	2.18E+09	6.34E+05	4.40E+06	1.24E+03	2.01E-03	1.90E-07	0.0020149	1.90E-07	6.18	0.09	0.39			
SCM-30@16.ais	2.14E+09	7.69E+05	4.31E+06	1.75E+03	2.01E-03	1.85E-07	0.0020140	1.85E-07	5.75	0.09	0.39			
SCM-30@17.ais	2.11E+09	1.26E+06	4.26E+06	2.63E+03	2.01E-03	1.41E-07	0.0020143	1.41E-07	5.88	0.07	0.39			
SCM-30@18.ais	2.12E+09	2.27E+06	4.27E+06	4.61E+03	2.01E-03	1.40E-07	0.0020142	1.40E-07	5.86	0.07	0.39			
SCM-30@19.ais	2.14E+09	2.08E+06	4.31E+06	4.30E+03	2.01E-03	1.83E-07	0.0020143	1.83E-07	5.92	0.09	0.39			
SCM-30@20.ais	2.15E+09	1.88E+06	4.32E+06	3.75E+03	2.01E-03	1.25E-07	0.0020138	1.25E-07	5.65	0.06	0.39			
Felsic Porphyry Dike												5.57	0.50	42
SCM-5A@1.ais	2.12E+09	1.60E+06	4.28E+06	3.22E+03	2.02E-03	1.81E-07	0.0020172	1.810E-07	5.99	0.09	0.20			
SCM-5A@2.ais	2.13E+09	1.79E+06	4.29E+06	3.62E+03	2.02E-03	1.94E-07	0.0020182	1.946E-07	6.46	0.10	0.20			
SCM-5A@3.ais	2.13E+09	1.76E+06	4.28E+06	3.57E+03	2.02E-03	1.21E-07	0.0020166	1.211E-07	5.67	0.06	0.20			
SCM-5A@4.ais	2.12E+09	1.73E+06	4.28E+06	3.62E+03	2.02E-03	2.02E-07	0.0020175	2.017E-07	6.13	0.10	0.20			
SCM-5A@5.ais	2.13E+09	1.36E+06	4.29E+06	2.69E+03	2.02E-03	1.33E-07	0.0020179	1.327E-07	6.34	0.07	0.20			
SCM-5A@6.ais	1.97E+09	1.50E+06	3.99E+06	2.97E+03	2.03E-03	2.03E-07	0.0020296	2.033E-07	12.15	0.10	0.20			
SCM-5A@7.ais	2.13E+09	1.19E+06	4.29E+06	2.46E+03	2.01E-03	1.31E-07	0.0020164	1.315E-07	5.58	0.07	0.20			
SCM-5A@8.ais	2.13E+09	2.03E+06	4.30E+06	4.06E+03	2.01E-03	1.25E-07	0.0020160	1.256E-07	5.38	0.06	0.20			
SCM-5A@9.ais	2.13E+09	9.08E+05	4.29E+06	1.92E+03	2.02E-03	1.35E-07	0.0020170	1.350E-07	5.89	0.07	0.20			
SCM-5A@10.ais	2.13E+09	1.45E+06	4.29E+06	3.08E+03	2.01E-03	1.60E-07	0.0020160	1.598E-07	5.38	0.08	0.20			
SCM-5A@11.ais	2.13E+09	1.24E+06	4.29E+06	2.56E+03	2.02E-03	1.70E-07	0.0020174	1.701E-07	6.06	0.08	0.29			
SCM-5A@12.ais	2.13E+09	1.13E+06	4.29E+06	2.59E+03	2.02E-03	2.00E-07	0.0020166	2.004E-07	5.67	0.10	0.29			
SCM-5A@13.ais	2.13E+09	1.37E+06	4.29E+06	2.83E+03	2.02E-03	1.63E-07	0.0020177	1.635E-07	6.25	0.08	0.29			
SCM-5A@14.ais	2.14E+09	1.13E+06	4.30E+06	2.22E+03	2.01E-03	1.36E-07	0.0020156	1.362E-07	5.18	0.07	0.29			
SCM-5A@15.ais	2.13E+09	1.23E+06	4.29E+06	2.51E+03	2.02E-03	1.39E-07	0.0020168	1.388E-07	5.76	0.07	0.29			
SCM-5A@16.ais	2.13E+09	1.56E+06	4.30E+06	3.26E+03	2.02E-03	1.89E-07	0.0020169	1.892E-07	5.85	0.09	0.29			
SCM-5A@17.ais	2.12E+09	1.13E+06	4.28E+06	2.27E+03	2.02E-03	1.86E-07	0.0020171	1.864E-07	5.92	0.09	0.29			
SCM-5A@18.ais	2.13E+09	1.13E+06	4.28E+06	2.44E+03	2.01E-03	1.91E-07	0.0020157	1.909E-07	5.25	0.09	0.29			
SCM-5A@19.ais	2.13E+09	1.39E+06	4.29E+06	2.62E+03	2.02E-03	2.27E-07	0.0020171	2.270E-07	5.91	0.11	0.29			
SCM-5A@20.ais	2.12E+09	1.02E+06	4.28E+06	2.34E+03	2.01E-03	1.95E-07	0.0020160	1.954E-07	5.39	0.10	0.29			
SCM-5A-21.ais	2.14E+09	1.29E+06	4.31E+06	2.63E+03	2.02E-03	1.70E-07	0.0020179	1.703E-07	6.36	0.08	0.29			
SCM-5A-21@1.ais	2.13E+09	1.10E+06	4.29E+06	2.19E+03	2.01E-03	1.65E-07	0.0020161	1.652E-07	5.41	0.08	0.29			
SCM-5A-21@2.ais	2.13E+09	1.49E+06	4.29E+06	3.16E+03	2.02E-03	1.37E-07	0.0020172	1.373E-07	5.97	0.07	0.29			
BCD@1.ais	3.84E+09	3.22E+06	7.74E+06	6.57E+03	2.01E-03	1.07E-07	0.0020147	1.07E-07	6.09	0.05	0.09			
BCD@2.ais	3.86E+09	6.40E+05	7.76E+06	1.37E+03	2.01E-03	1.10E-07	0.0020135	1.10E-07	5.49	0.05	0.09			
BCD@3.ais	3.88E+09	1.27E+07	7.81E+06	2.56E+04	2.01E-03	7.21E-08	0.0020135	7.22E-08	5.49	0.04	0.09			
BCD@4.ais	4.21E+09	1.46E+07	8.46E+06	2.96E+04	2.01E-03	9.44E-08	0.0020133	9.45E-08	5.39	0.05	0.09			
BCD@5.ais	4.49E+09	1.31E+07	9.03E+06	2.63E+04	2.01E-03	7.01E-08	0.0020135	7.01E-08	5.50	0.03	0.09			
BCD@6.ais	5.44E+09	6.17E+06	1.10E+07	1.28E+04	2.01E-03	1.33E-07	0.0020145	1.33E-07	6.01	0.07	0.09			
BCD@7.ais	4.88E+09	3.23E+07	9.81E+06	6.47E+04	2.01E-03	1.04E-07	0.0020141	1.04E-07	5.78	0.05	0.09			
BCD@8.ais	4.41E+09	1.23E+07	8.89E+06	2.47E+04	2.01E-03	8.54E-08	0.0020145	8.55E-08	6.01	0.04	0.09			
BCD@9.ais	4.20E+09	7.43E+06	8.46E+06	1.51E+04	2.01E-03	1.09E-07	0.0020137	1.09E-07	5.60	0.05	0.09			
BCD@10.ais	4.05E+09	5.86E+06	8.16E+06	1.17E+04	2.01E-03	1.06E-07	0.0020139	1.06E-07	5.70	0.05	0.09			
BCD@11.ais	2.13E+09	1.85E+06	4.29E+06	3.75E+03	2.01E-03	1.66E-07	0.0020132	1.66E-07	5.35	0.08	0.39			
BCD@12.ais	2.13E+09	2.06E+06	4.30E+06	4.11E+03	2.01E-03	2.07E-07	0.0020128	2.07E-07	5.15	0.10	0.39			
BCD@13.ais	2.14E+09	1.01E+06	4.31E+06	2.06E+03	2.01E-03	1.15E-07	0.0020118	1.15E-07	4.64	0.06	0.39			
BCD@14.ais	2.15E+09	1.78E+06	4.32E+06	3.66E+03	2.01E-03	1.49E-07	0.0020126	1.49E-07	5.04	0.07	0.39			

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	^{16}O CPS ^a	^{16}O Error (1 sigma)	^{18}O CPS ^a	^{18}O Error (1 sigma)	$^{18}\text{O}/^{16}\text{O}$	$^{18}\text{O}/^{16}\text{O}$ Error (1 sigma)	Corrected $^{18}\text{O}/^{16}\text{O}$	Error Corrected	Corrected $\delta^{18}\text{O}$	$\delta^{18}\text{O}$ Error (Internal) (1 sigma) ^b	$\delta^{18}\text{O}$ Error (External) (1 sigma)	Average $\delta^{18}\text{O}$	Standard Deviation (1 sigma)	Number of Samples (n)
BCD@15.ais	2.13E+09	1.05E+06	4.28E+06	2.23E+03	2.01E-03	2.18E-07	0.0020119	2.18E-07	4.69	0.11	0.39			
BCD@16.ais	2.13E+09	2.05E+06	4.28E+06	4.41E+03	2.01E-03	2.34E-07	0.0020120	2.34E-07	4.76	0.12	0.39			
BCD@17.ais	2.13E+09	1.84E+06	4.28E+06	3.86E+03	2.01E-03	1.62E-07	0.0020116	1.62E-07	4.53	0.08	0.39			
BCD@18.ais	2.09E+09	9.79E+05	4.21E+06	2.08E+03	2.01E-03	1.69E-07	0.0020117	1.69E-07	4.61	0.08	0.39			
BCD@19.ais	2.14E+09	1.76E+06	4.30E+06	3.48E+03	2.01E-03	1.76E-07	0.0020128	1.76E-07	5.12	0.09	0.39			
BCD@20.ais	2.13E+09	1.59E+06	4.29E+06	3.29E+03	2.01E-03	2.17E-07	0.0020130	2.17E-07	5.24	0.11	0.39			
Post-PST Felsic Lava Enclave												5.95	0.30	20
SIT-1b@1.ais	2.16E+09	9.87E+05	4.35E+06	2.04E+03	2.01E-03	1.67E-07	0.0020148	1.67E-07	6.14	0.08	0.15			
SIT-1b@2.ais	2.18E+09	1.29E+06	4.38E+06	2.73E+03	2.01E-03	1.77E-07	0.0020139	1.77E-07	5.69	0.09	0.15			
SIT-1b@3.ais	2.17E+09	1.18E+06	4.36E+06	2.44E+03	2.01E-03	1.68E-07	0.0020148	1.69E-07	6.15	0.08	0.15			
SIT-1b@4.ais	2.13E+09	1.11E+06	4.29E+06	2.08E+03	2.01E-03	1.97E-07	0.0020137	1.97E-07	5.60	0.10	0.15			
SIT-1b@5.ais	2.17E+09	1.34E+06	4.36E+06	2.78E+03	2.01E-03	1.97E-07	0.0020147	1.97E-07	6.08	0.10	0.15			
SIT-1b@6.ais	2.18E+09	1.20E+06	4.38E+06	2.29E+03	2.01E-03	1.23E-07	0.0020146	1.23E-07	6.03	0.06	0.15			
SIT-1b@7.ais	2.18E+09	1.29E+06	4.39E+06	2.68E+03	2.01E-03	9.88E-08	0.0020146	9.89E-08	6.02	0.05	0.15			
SIT-1b@8.ais	2.18E+09	1.27E+06	4.39E+06	2.49E+03	2.01E-03	1.72E-07	0.0020139	1.72E-07	5.72	0.09	0.15			
SIT-1b@9.ais	2.17E+09	3.05E+06	4.36E+06	6.16E+03	2.01E-03	1.60E-07	0.0020140	1.61E-07	5.77	0.08	0.15			
SIT-1b@10.ais	2.19E+09	8.27E+05	4.41E+06	1.67E+03	2.01E-03	1.32E-07	0.0020151	1.32E-07	6.28	0.07	0.15			
SIT-1b@11.ais	3.05E+09	1.06E+07	6.15E+06	2.16E+04	2.01E-03	1.61E-07	0.0020134	1.61E-07	5.43	0.08	0.25			
SIT-1b@12.ais	2.95E+09	6.60E+06	5.94E+06	1.32E+04	2.01E-03	1.52E-07	0.0020144	1.52E-07	5.92	0.08	0.25			
SIT-1b@13.ais	2.69E+09	1.20E+07	5.42E+06	2.41E+04	2.01E-03	1.29E-07	0.0020149	1.29E-07	6.21	0.06	0.25			
SIT-1b@14.ais	2.44E+09	6.31E+06	4.92E+06	1.27E+04	2.01E-03	7.61E-08	0.0020155	7.62E-08	6.50	0.04	0.25			
SIT-1b@15.ais	2.42E+09	5.81E+05	4.87E+06	9.88E+02	2.01E-03	1.78E-07	0.0020141	1.78E-07	5.78	0.09	0.25			
SIT-1b@16.ais	2.36E+09	9.80E+06	4.76E+06	1.99E+04	2.01E-03	1.84E-07	0.0020135	1.84E-07	5.47	0.09	0.25			
SIT-1b@17.ais	2.71E+09	9.45E+06	5.45E+06	1.91E+04	2.01E-03	1.32E-07	0.0020154	1.32E-07	6.44	0.07	0.25			
SIT-1b@18.ais	2.86E+09	8.60E+06	5.76E+06	1.73E+04	2.01E-03	1.36E-07	0.0020146	1.36E-07	6.07	0.07	0.25			
SIT-1b@19.ais	2.98E+09	7.83E+06	5.99E+06	1.57E+04	2.01E-03	1.23E-07	0.0020140	1.23E-07	5.76	0.06	0.25			
SIT-1b@20.ais	3.09E+09	7.23E+06	6.23E+06	1.46E+04	2.01E-03	7.60E-08	0.0020145	7.60E-08	5.99	0.04	0.25			
Post-PST Felsic Lava												6.22	0.33	20
SIT-1@1.ais	2.26E+09	2.10E+06	4.56E+06	4.24E+03	2.01E-03	1.65E-07	0.0020148	1.65E-07	6.13	0.08	0.21			
SIT-1@2.ais	2.21E+09	2.19E+06	4.45E+06	4.20E+03	2.01E-03	1.79E-07	0.0020149	1.79E-07	6.21	0.09	0.21			
SIT-1@3.ais	2.28E+09	1.75E+06	4.58E+06	3.59E+03	2.01E-03	1.65E-07	0.0020139	1.65E-07	5.67	0.08	0.21			
SIT-1@4.ais	2.31E+09	4.27E+06	4.65E+06	8.63E+03	2.01E-03	2.04E-07	0.0020139	2.04E-07	5.67	0.10	0.21			
SIT-1@5.ais	2.33E+09	2.02E+06	4.69E+06	4.28E+03	2.01E-03	1.53E-07	0.0020146	1.53E-07	6.04	0.08	0.21			
SIT-1@6.ais	2.38E+09	2.91E+06	4.78E+06	6.14E+03	2.01E-03	1.80E-07	0.0020144	1.80E-07	5.93	0.09	0.21			
SIT-1@7.ais	2.39E+09	2.25E+06	4.82E+06	4.46E+03	2.01E-03	1.49E-07	0.0020146	1.49E-07	6.05	0.07	0.21			
SIT-1@8.ais	2.36E+09	3.25E+06	4.75E+06	6.29E+03	2.01E-03	1.53E-07	0.0020140	1.53E-07	5.72	0.08	0.21			
SIT-1@9.ais	2.26E+09	3.17E+06	4.55E+06	6.55E+03	2.01E-03	1.85E-07	0.0020148	1.85E-07	6.14	0.09	0.21			
SIT-1@10.ais	2.17E+09	2.00E+06	4.37E+06	3.76E+03	2.01E-03	2.37E-07	0.0020147	2.37E-07	6.09	0.12	0.21			
SIT-1@11.ais	2.42E+09	1.53E+06	4.87E+06	3.03E+03	2.01E-03	1.52E-07	0.0020153	1.52E-07	6.40	0.08	0.25			
SIT-1@12.ais	2.41E+09	1.52E+06	4.85E+06	2.97E+03	2.01E-03	9.97E-08	0.0020153	9.97E-08	6.37	0.05	0.25			
SIT-1@13.ais	2.42E+09	1.22E+06	4.87E+06	2.68E+03	2.01E-03	1.52E-07	0.0020159	1.52E-07	6.67	0.08	0.25			
SIT-1@14.ais	2.31E+09	6.53E+05	4.66E+06	1.23E+03	2.01E-03	1.33E-07	0.0020155	1.33E-07	6.50	0.07	0.25			
SIT-1@15.ais	2.42E+09	1.31E+06	4.87E+06	2.73E+03	2.01E-03	1.82E-07	0.0020155	1.82E-07	6.51	0.09	0.25			
SIT-1@16.ais	2.42E+09	1.73E+06	4.87E+06	3.42E+03	2.01E-03	1.37E-07	0.0020148	1.37E-07	6.12	0.07	0.25			
SIT-1@17.ais	2.33E+09	2.47E+06	4.69E+06	5.00E+03	2.01E-03	1.29E-07	0.0020159	1.29E-07	6.72	0.06	0.25			
SIT-1@18.ais	2.33E+09	8.12E+05	4.70E+06	1.86E+03	2.01E-03	2.14E-07	0.0020151	2.14E-07	6.31	0.11	0.25			
SIT-1@19.ais	2.41E+09	9.44E+05	4.86E+06	1.94E+03	2.01E-03	2.08E-07	0.0020152	2.08E-07	6.34	0.10	0.25			
SIT-1@20.ais	2.41E+09	2.66E+06	4.86E+06	5.30E+03	2.02E-03	1.30E-07	0.0020160	1.30E-07	6.76	0.06	0.25			

Table 4: Zircon Oxygen Isotope Analyses, Southern Black Mountains Volcanic Center

Sample Name	^{16}O CPS ^a	^{16}O Error (1 sigma)	^{18}O CPS ^a	^{18}O Error (1 sigma)	$^{18}\text{O}/^{16}\text{O}$	$^{18}\text{O}/^{16}\text{O}$ Error (1 sigma)	Corrected $^{18}\text{O}/^{16}\text{O}$	Error Corrected	Corrected $\delta^{18}\text{O}$	$\delta^{18}\text{O}$ Error (Internal) (1 sigma) ^b	$\delta^{18}\text{O}$ Error (External) (1 sigma)	Average $\delta^{18}\text{O}$	Standard Deviation (1 sigma)	Number of Samples (n)
Post-PST Intermediate Lava												5.92	0.25	22
SIT-2@1.ais	2.72E+09	3.37E+06	5.47E+06	6.80E+03	2.01E-03	9.91E-08	0.0020145	9.92E-08	5.98	0.05	0.38			
SIT-2@2.ais	2.73E+09	2.24E+06	5.49E+06	4.63E+03	2.01E-03	1.25E-07	0.0020143	1.26E-07	5.92	0.06	0.38			
SIT-2@3.ais	2.74E+09	1.50E+06	5.51E+06	2.97E+03	2.01E-03	1.33E-07	0.0020138	1.33E-07	5.64	0.07	0.38			
SIT-2@4.ais	2.79E+09	9.32E+05	5.62E+06	1.90E+03	2.01E-03	1.13E-07	0.0020139	1.13E-07	5.69	0.06	0.38			
SIT-2@5.ais	2.80E+09	1.04E+06	5.63E+06	2.14E+03	2.01E-03	1.13E-07	0.0020140	1.13E-07	5.76	0.06	0.38			
SIT-2@6.ais	2.83E+09	1.04E+06	5.69E+06	2.09E+03	2.01E-03	6.29E-08	0.0020148	6.29E-08	6.16	0.03	0.38			
SIT-2@7.ais	2.86E+09	7.75E+05	5.76E+06	1.74E+03	2.01E-03	1.01E-07	0.0020144	1.01E-07	5.93	0.05	0.38			
SIT-2@6B.ais	2.91E+09	2.35E+06	5.85E+06	4.79E+03	2.01E-03	7.24E-08	0.0020142	7.25E-08	5.86	0.04	0.38			
SIT-2@7B.ais	2.93E+09	3.62E+06	5.89E+06	7.79E+03	2.01E-03	2.19E-07	0.0020147	2.19E-07	6.07	0.11	0.38			
SIT-2@8.ais	2.90E+09	7.58E+05	5.84E+06	1.59E+03	2.01E-03	1.16E-07	0.0020156	1.16E-07	6.52	0.06	0.38			
SIT-2@9.ais	2.93E+09	5.00E+05	5.89E+06	1.21E+03	2.01E-03	1.35E-07	0.0020143	1.35E-07	5.91	0.07	0.38			
SIT-2@10.ais	2.91E+09	1.38E+06	5.86E+06	2.90E+03	2.01E-03	1.61E-07	0.0020152	1.61E-07	6.37	0.08	0.38			
SIT-2@11.ais	2.15E+09	1.60E+06	4.34E+06	3.21E+03	2.02E-03	1.69E-07	0.0020141	1.69E-07	5.78	0.08	0.20			
SIT-2@12.ais	2.16E+09	1.57E+06	4.36E+06	3.11E+03	2.02E-03	2.05E-07	0.0020151	2.05E-07	6.31	0.10	0.20			
SIT-2@13.ais	2.18E+09	1.84E+06	4.39E+06	3.73E+03	2.02E-03	1.22E-07	0.0020147	1.22E-07	6.08	0.06	0.20			
SIT-2@14.ais	2.16E+09	1.88E+06	4.35E+06	3.95E+03	2.02E-03	1.28E-07	0.0020142	1.28E-07	5.82	0.06	0.20			
SIT-2@15.ais	2.17E+09	1.26E+06	4.38E+06	2.74E+03	2.01E-03	1.69E-07	0.0020139	1.69E-07	5.67	0.08	0.20			
SIT-2@16.ais	2.17E+09	2.03E+06	4.37E+06	4.15E+03	2.01E-03	1.10E-07	0.0020145	1.10E-07	5.99	0.05	0.43			
SIT-2@17.ais	2.20E+09	1.92E+06	4.43E+06	3.96E+03	2.01E-03	1.70E-07	0.0020143	1.70E-07	5.90	0.08	0.43			
SIT-2@18.ais	2.21E+09	2.26E+06	4.45E+06	4.43E+03	2.01E-03	2.00E-07	0.0020138	2.00E-07	5.63	0.10	0.43			
SIT-2@19.ais	2.22E+09	1.58E+06	4.47E+06	3.32E+03	2.01E-03	2.10E-07	0.0020140	2.10E-07	5.73	0.10	0.43			
SIT-2@20.ais	2.23E+09	2.63E+06	4.48E+06	5.35E+03	2.01E-03	1.21E-07	0.0020138	1.21E-07	5.63	0.06	0.43			