

Table S3. Details on measured AFT thermochronometric ages.

Sample	Longitude (dd)	Latitude (dd)	Elevation (m)	Lithology	chi ² -probability	age type	AFT age (Ma)	1σ (Ma)	n	Dpar (μm)	1σ (μm)
17PG009	-72.61126	-46.79708	335	diorite/granodiorite	54.2	pooled	15.9	2.3	32	2.2	0.3
17PG010	-72.36018	-46.62901	437	granodiorite	64.6	pooled	28.1	4.3	16	2.2	0.2
17PG016	-72.98170	-46.52432	190	granodiorite	33.4	pooled	9.6	1.0	22	1.6	0.1