

Supplementary Material for *Identifying spatial variations in glacial erosion with detrital thermochronology, Coast Mountains British Columbia.*

By: T.A. Ehlers, A. Szameitat, E. Enkelmann, B.J. Yanites, and G.J. Woodsworth.



Figure A1: Photographs of glacial outwash sample location (sample 09TETG15). Top and middle: glacial outwash plain looking down stream from the lip of the glacier, ~75 m above the outlet. Field of view of the sediment covered valley floor is ~400 m (top image). Width of the river exiting the glacier is ~40 (middle and bottom image). Bottom: View looking upstream of the outwash channel to where it exits from underneath the ice. The sample was collected immediately along the bank of the channel shown in this image, as described in the text. Discharge measurements of the channel were not possible, but the river was moving at high velocity during the sampling (e.g. note the white water in the channel in the top image).

Table A1: U-Th-Sm/He data of bedrock samples

ID	4-He (mol)	238-U (mol)	235-U (mol)	232-Th (mol)	147-Sm (mol)	eU	Age (Ma)	Ft	Age*
09TETG1									
	<u>Elev. 2207 m</u>		<u>51.3497°N</u>		<u>125.02225°W</u>				
1	9.40E-16	1.29E-13	9.56E-16	4.53E-14	1.30E-12	3.74	4.97	0.771	6.45
2	5.74E-16	7.91E-14	5.85E-16	3.09E-14	4.76E-13	5.03	5.02	0.729	6.88
3	1.96E-15	2.56E-13	1.89E-15	7.54E-14	1.23E-12	8.03	5.44	0.704	7.72
4	3.01E-15	3.55E-13	2.63E-15	1.31E-13	1.93E-12	8.09	5.89	0.843	6.99
5	1.13E-15	1.33E-13	9.85E-16	9.54E-14	6.29E-13	8.95	5.53	0.748	7.40
	Mean Age							7.1 ± 0.5 Ma	
09TETG2									
	<u>Elev. 1930 m</u>		<u>51.34958°N</u>		<u>125.03828°W</u>				
1	4.19E-15	3.26E-13	2.41E-15	4.11E-13	2.12E-12	9.62	7.52	0.805	9.34
2	6.26E-16	7.16E-14	5.30E-16	3.30E-14	1.06E-12	2.97	5.73	0.769	7.45
3	1.02E-15	8.92E-14	6.59E-16	4.77E-14	1.26E-12	3.66	7.42	0.764	9.71
4	1.15E-14	8.07E-13	5.97E-15	5.15E-13	1.97E-12	19.51	9.51	0.814	11.68
5	8.70E-16	9.16E-14	6.77E-16	4.98E-14	1.44E-12	3.79	6.11	0.779	7.84
	Mean Age							9.2 ± 1.7 Ma	
09TETG3									
	<u>Elev. 1612 m</u>		<u>51.348°N</u>		<u>125.05514°W</u>				
1	6.66E-16	1.03E-13	7.64E-16	1.99E-14	4.53E-13	7.71	4.68	0.728	6.43
2	4.65E-16	6.39E-14	4.73E-16	2.07E-14	5.89E-13	5.73	5.02	0.709	7.09
3	1.14E-15	6.28E-14	4.65E-16	3.23E-14	9.81E-13	2.98	11.77	0.743	15.84
4	4.01E-16	5.58E-14	4.13E-16	1.98E-14	5.01E-13	3.32	4.94	0.743	6.65
5	8.41E-16	1.22E-13	9.00E-16	3.37E-14	9.60E-13	4.27	4.85	0.782	6.20
	Mean Age							8.4 ± 4 Ma	
09TETG4									
	<u>Elev. 2225 m</u>		<u>51.36563°N</u>		<u>125.1724°W</u>				
1	1.24E-17	9.42E-14	6.97E-16	8.03E-14	4.58E-13	6.89	0.08	0.73	0.11
2	7.51E-18	1.05E-13	7.74E-16	8.11E-14	2.68E-13	7.80	0.02	0.72	0.02
3	7.49E-18	3.05E-13	2.25E-15	2.13E-13	1.61E-12	2.12	0.07	0.88	0.08
4	5.04E-16	6.66E-14	4.93E-16	6.10E-14	3.27E-13	5.67	1.80	0.71	2.53
5	1.28E-15	1.94E-13	1.44E-15	8.40E-14	7.27E-13	6.36	4.18	0.79	5.29
	Mean Age							3.9 ± 2 Ma	
09TETG5									
	<u>Elev. 1896 m</u>		<u>51.37086°N</u>		<u>125.19756°W</u>				
1	4.07E-16	7.39E-14	5.46E-16	1.28E-14	1.44E-13	5.19	4.06	0.729	5.57
2	3.99E-16	6.20E-14	4.59E-16	1.42E-14	2.23E-13	3.85	4.65	0.734	6.34
3	1.76E-16	5.20E-14	3.84E-16	1.02E-14	1.23E-13	3.76	2.48	0.719	3.44
4	2.66E-16	5.26E-14	3.89E-16	1.71E-14	2.06E-13	3.10	3.57	0.748	4.78
5	3.97E-16	1.01E-13	7.48E-16	2.92E-14	1.91E-13	4.66	2.83	0.757	3.73
	Mean Age							4.8 ± 1.2 Ma	
09TETG6									
	<u>Elev. 1370 m</u>		<u>51.3437°N</u>		<u>125.06984°W</u>				
1	1.20E-15	1.83E-13	1.35E-15	1.36E-13	2.89E-12	2.30	4.05	0.846	4.79
2	4.25E-16	7.12E-14	5.26E-16	4.36E-14	5.53E-13	4.54	3.93	0.741	5.30
3	2.82E-16	6.96E-14	5.14E-16	4.11E-14	6.38E-13	3.89	2.66	0.734	3.62
4	3.03E-16	6.42E-14	4.75E-16	4.67E-14	7.79E-13	2.93	2.97	0.767	3.88
5	1.12E-15	1.73E-13	1.28E-15	1.35E-13	9.48E-13	7.75	4.16	0.773	5.38
6	1.98E-15	2.19E-13	1.62E-15	6.89E-14	6.70E-13	9.04	6.45	0.777	8.30
7	6.56E-16	1.14E-13	8.41E-16	6.80E-14	7.18E-13	5.48	3.82	0.763	5.01
	Mean Age							5.2 ± 1.5 Ma	
09TETG7									
	<u>Elev. 387 m</u>		<u>51.31245°N</u>		<u>124.86674°W</u>				

1	8.29E-16	1.50E-13	1.11E-15	1.52E-13	8.63E-14	7.07	3.47	0.766	4.52
2	4.71E-16	9.33E-14	6.90E-16	8.37E-14	1.28E-13	2.82	3.23	0.801	4.03
3	2.85E-16	6.51E-14	4.81E-16	2.81E-14	5.45E-14	4.23	3.07	0.734	4.19
4	1.58E-16	4.36E-14	3.22E-16	3.46E-14	6.02E-14	4.40	2.36	0.698	3.38
5	7.88E-16	1.42E-13	1.05E-15	1.72E-13	2.65E-13	8.09	3.34	0.756	4.42
6	1.42E-16	4.63E-14	3.42E-16	9.01E-15	2.12E-14	4.24	2.27	0.697	3.25
7	8.02E-16	1.49E-13	1.11E-15	3.40E-14	1.42E-13	14.04	3.93	0.684	5.74
8	2.80E-16	6.65E-14	4.92E-16	4.87E-14	7.72E-14	4.53	2.77	0.738	3.76
Mean Age								4.2 ± 0.8 Ma	
09TETG9 <u>Elev. 681 m</u> <u>51.31782°N</u> <u>124.9497°W</u>									
1	5.84E-16	1.23E-13	9.07E-16	2.45E-13	8.97E-13	6.11	2.47	0.768	3.22
2	1.01E-15	2.15E-13	1.59E-15	7.51E-14	2.12E-12	4.61	3.22	0.817	3.94
3	5.73E-16	1.20E-13	8.85E-16	7.19E-14	2.07E-12	2.24	3.03	0.821	3.69
4	1.89E-15	2.15E-13	1.59E-15	3.14E-13	1.47E-12	7.07	4.98	0.797	6.24
5	1.14E-15	1.75E-13	1.29E-15	3.04E-14	7.60E-13	6.25	4.75	0.776	6.13
6	4.84E-16	6.38E-14	4.72E-16	2.68E-14	6.17E-13	4.41	5.13	0.727	7.05
7	2.25E-16	7.23E-14	5.35E-16	2.29E-14	5.85E-13	3.88	2.16	0.752	2.88
8	1.11E-15	2.08E-13	1.54E-15	1.87E-13	1.07E-12	11.36	3.35	0.759	4.41
Mean Age								4.7 ± 1.6 Ma	
09TETG22 <u>Elev. 2651 m</u> <u>51.37381°N</u> <u>125.1656°W</u>									
1	1.46E-15	1.48E-13	1.10E-15	5.50E-14	1.38E-12	3.58	6.74	0.811	8.31
2	1.74E-15	2.17E-13	1.61E-15	7.99E-14	1.55E-12	5.85	5.53	0.789	7.01
3	1.53E-15	1.94E-13	1.43E-15	6.39E-14	1.10E-12	6.28	5.53	0.791	6.99
4	1.29E-15	1.51E-13	1.12E-15	9.57E-14	1.20E-12	5.84	5.58	0.775	7.20
5	2.04E-15	2.99E-13	2.21E-15	9.44E-14	1.23E-12	8.99	4.83	0.789	6.12
6	1.97E-15	2.55E-13	1.88E-15	8.55E-14	1.26E-12	8.01	5.43	0.783	6.94
Mean Age								7.1 ± 0.7 Ma	

Note: * Corrected for alpha ejection (Farley et al. 1996), eU was estimated by using the measured grain dimensions and assuming a cylindrical shape for the apatites. Ages in *italic* are not used for the mean age calculation because He-measurements were at blank levels (09TETG4). Samples that did not reproduce well (relative error >40%) were excluded for the age-elevation calculation (09TETG3 and 4).

Table A2: U-Th-Sm/He data of the detrital sample.

ID	4-He (mol)	238-U (mol)	235-U (mol)	232-Th (mol)	147-Sm (mol)	eU	Age (Ma)	Ft	Age*
09TETG015 <u>Elev. 530 m</u> <u>Lat. 51.321817°N</u> <u>Long. 124.93667°W</u>									
1	6.93E-15	6.107E-14	4.517E-16	3.100E-14	5.84E-13	3.14	75.00	0.76	98.49
2	1.02E-15	2.536E-13	1.876E-15	2.639E-14	2.25E-13	8.80	3.03	0.78	3.88
3	9.89E-16	1.540E-13	1.139E-15	6.924E-14	2.22E-13	6.56	4.48	0.771	5.81
4	3.95E-15	4.905E-13	3.628E-15	5.396E-13	4.71E-13	53.71	4.97	0.704	7.05
5	2.09E-15	2.029E-13	1.500E-15	7.606E-14	2.34E-12	7.19	6.97	0.789	8.83
6	4.44E-16	1.134E-13	8.387E-16	7.666E-14	9.263E-13	3.20	2.54	0.785	3.23
7	5.64E-15	6.145E-13	4.545E-15	1.271E-13	1.349E-12	8.38	6.72	0.841	7.98
8	9.68E-16	2.422E-13	1.791E-15	8.718E-14	1.255E-12	4.57	2.79	0.827	3.38
9	7.83E-16	1.049E-13	7.756E-16	6.510E-14	9.052E-13	5.63	4.88	0.747	6.53
10	1.01E-15	2.514E-13	1.859E-15	7.077E-14	6.608E-14	13.69	2.92	0.74	3.95
11	3.13E-14	2.238E-12	1.656E-14	3.797E-12	3.680E-13	99.89	7.80	0.769	10.14
12	7.50E-16	1.669E-13	1.235E-15	6.654E-14	8.132E-13	3.83	3.12	0.817	3.82

13	4.18E-16	1.103E-13	8.156E-16	3.917E-14	4.624E-13	5.11	2.66	0.764	3.48
14	3.48E-15	3.893E-13	2.880E-15	3.871E-13	6.796E-13	7.85	5.60	0.821	6.82
15	5.326E-16	1.813E-13	1.341E-15	4.030E-14	5.719E-13	3.60	2.13	0.826	2.58
16	1.383E-15	1.401E-13	1.036E-15	1.979E-13	5.960E-13	5.99	5.69	0.776	7.33
17	7.712E-16	1.311E-13	9.698E-16	3.224E-14	3.241E-14	7.01	4.30	0.752	5.72
18	1.97E-15	2.582E-13	1.909E-15	5.107E-13	4.995E-13	16.68	4.04	0.752	5.38
19	5.17E-15	3.441E-13	2.545E-15	6.954E-13	9.637E-13	13.63	7.89	0.792	9.96
20	5.81E-16	1.341E-13	9.916E-16	4.400E-14	1.226E-12	3.69	2.99	0.805	3.71
21	4.29E-16	8.560E-14	6.332E-16	5.728E-14	1.571E-12	3.68	3.11	0.761	4.09
22	4.58E-16	9.446E-14	6.987E-16	9.328E-14	8.499E-13	3.68	2.95	0.786	3.76
23	1.230E-14	1.015E-12	7.510E-15	1.930E-12	2.811E-13	79.24	6.54	0.73	8.96
24	5.942E-15	6.748E-13	4.991E-15	1.027E-12	4.238E-13	31.65	5.05	0.776	6.51
25	7.365E-16	1.032E-13	7.630E-16	1.135E-13	8.715E-13	7.37	4.27	0.729	5.86
26	3.670E-16	1.113E-13	8.234E-16	3.671E-14	7.508E-13	5.16	2.30	0.77	2.99
27	4.680E-15	5.136E-13	3.799E-15	1.173E-13	1.141E-12	9.27	6.63	0.811	8.17
28	2.381E-15	2.767E-13	2.046E-15	8.883E-14	1.404E-12	7.46	6.06	0.789	7.68
29	9.378E-16	1.390E-13	1.028E-15	5.034E-14	1.059E-12	6.27	4.66	0.807	5.77
30	1.722E-15	1.989E-13	1.471E-15	7.153E-14	1.841E-12	5.01	5.94	0.791	7.50
31	5.101E-16	9.744E-14	7.207E-16	4.129E-14	1.077E-13	6.55	3.68	0.775	4.74
32	5.367E-16	5.170E-14	3.824E-16	1.578E-14	3.031E-13	3.59	7.31	0.789	9.26
33	6.072E-16	1.330E-13	9.840E-16	2.443E-14	3.114E-13	10.49	3.35	0.783	4.28
34	2.284E-15	3.584E-13	2.651E-15	9.501E-14	3.451E-13	6.63	4.63	0.756	6.12
35	8.533E-16	1.385E-13	1.025E-15	5.647E-14	1.073E-12	7.22	4.21	0.789	5.34
36	2.238E-15	7.487E-13	5.538E-15	2.045E-13	2.583E-12	6.32	2.14	0.73	2.94
37	4.898E-16	1.387E-13	1.026E-15	5.732E-14	1.542E-12	3.68	2.38	0.746	3.19
38	1.291E-15	1.890E-13	1.398E-15	1.318E-13	1.198E-13	11.56	4.55	0.78	5.83
39	4.873E-16	8.432E-14	6.236E-16	3.547E-14	7.679E-13	3.62	3.92	0.772	5.07
40	1.183E-15	1.767E-13	1.307E-15	8.095E-14	1.377E-12	3.79	4.53	0.763	5.94
41	5.198E-15	5.242E-13	3.877E-15	8.240E-13	3.926E-13	34.65	5.64	0.798	7.06
42	1.029E-15	2.565E-13	1.897E-15	9.067E-14	1.161E-12	4.84	2.81	0.828	3.40
43	1.222E-15	2.259E-13	1.671E-15	1.618E-13	1.096E-12	4.61	3.53	0.823	4.29
44	1.146E-15	3.343E-13	2.473E-15	1.033E-13	2.150E-12	3.89	2.41	0.85	2.83
45	6.001E-16	4.969E-14	3.675E-16	3.772E-14	1.864E-12	1.19	6.86	0.819	8.37
46	1.051E-15	1.722E-13	1.274E-15	5.640E-14	6.671E-13	7.26	4.31	0.771	5.60
47	1.376E-15	2.970E-13	2.197E-15	6.631E-14	1.830E-12	5.98	3.31	0.821	4.04
48	3.909E-16	7.656E-14	5.663E-16	2.581E-14	7.539E-13	4.78	3.51	0.744	4.71
49	2.349E-15	3.062E-13	2.265E-15	1.598E-13	4.419E-13	12.90	5.27	0.779	6.77
50	4.580E-16	5.880E-14	4.349E-16	3.597E-14	4.518E-13	3.51	5.12	0.73	7.01
51	8.221E-16	1.777E-13	1.314E-15	5.439E-14	1.187E-12	7.35	3.24	0.77	4.21
52	1.428E-15	1.797E-13	1.329E-15	2.657E-13	1.206E-12	5.85	4.49	0.797	5.63
53	1.241E-15	2.489E-13	1.841E-15	9.974E-14	2.899E-12	5.13	3.35	0.814	4.12
54	3.566E-15	3.813E-13	2.820E-15	5.938E-13	6.303E-13	13.39	5.31	0.797	6.66
55	3.132E-15	4.967E-13	3.674E-15	2.073E-13	2.346E-13	17.36	4.45	0.78	5.70
56	2.99E-16	4.30E-14	3.18E-16	4.90E-14	1.95E-13	2.09	4.19	0.77	5.45
57	1.32E-14	1.48E-12	1.09E-14	9.63E-13	2.71E-13	76.31	6.00	0.74	8.10
58	1.28E-15	1.62E-13	1.20E-15	7.85E-14	1.88E-13	14.92	5.48	0.7	7.83
59	2.82E-14	1.85E-12	1.37E-14	2.28E-12	1.37E-12	56.31	9.16	0.81	11.31
60	3.95E-15	4.14E-13	3.06E-15	2.08E-13	1.38E-12	9.58	6.53	0.8	8.16

61	1.25E-15	2.54E-13	1.88E-15	4.58E-14	4.67E-13	6.64	3.62	0.81	4.47
62	3.36E-16	5.32E-14	3.94E-16	2.39E-14	5.85E-14	3.99	4.41	0.71	6.21
63	5.94E-16	6.96E-14	5.15E-16	1.04E-13	2.93E-13	7.81	4.85	0.7	6.93
64	8.34E-16	1.98E-13	1.47E-15	9.37E-14	3.31E-12	3.97	0.46	0.82	0.57
65	1.42E-14	1.31E-12	9.66E-15	3.62E-13	4.45E-13	26.17	20.56	0.82	25.38
66	1.64E-15	4.97E-13	3.67E-15	1.44E-13	9.47E-13	12.46	10.29	0.81	12.71
67	7.63E-16	1.12E-13	8.25E-16	3.99E-14	4.80E-13	2.91	4.41	0.81	5.73
68	6.78E-16	1.22E-13	9.03E-16	4.05E-14	5.15E-13	4.45	0.12	0.77	0.15
69	5.00E-16	7.13E-14	5.28E-16	2.95E-14	1.02E-13	3.68	4.93	0.758	6.50
70	5.23E-16	1.08E-13	7.97E-16	5.69E-14	3.23E-13	2.63	3.31	0.811	4.08
71	3.41E-15	4.24E-13	3.13E-15	2.35E-13	5.03E-13	3.79	5.51	0.864	6.37
72	7.91E-15	9.79E-13	7.24E-15	5.94E-13	2.32E-13	70.56	5.48	0.728	7.53
73	2.06E-16	3.89E-14	2.88E-16	1.59E-14	2.19E-13	2.76	3.66	0.733	5.00
74	3.94E-16	9.81E-14	7.26E-16	3.03E-14	6.66E-13	3.45	2.81	0.787	3.57
75	6.19E-16	7.75E-14	5.73E-16	1.20E-14	7.99E-13	3.23	5.68	0.776	7.31
76	3.14E-15	2.83E-13	2.09E-15	1.44E-13	6.75E-13	5.46	7.63	0.821	9.30
77	7.91E-15	6.25E-13	4.62E-15	1.30E-12	4.44E-13	26.15	6.63	0.786	8.44
78	9.79E-16	1.84E-13	1.36E-15	9.07E-14	1.56E-12	3.24	3.56	0.823	4.33
79	6.23E-16	1.15E-13	8.52E-16	3.71E-14	2.35E-13	3.14	3.87	0.802	4.82
80	4.83E-16	7.54E-14	5.58E-16	2.71E-14	1.23E-13	2.89	4.55	0.783	5.81
81	6.16E-16	1.40E-13	1.03E-15	4.39E-14	1.66E-12	3.13	3.02	0.815	3.70
82	1.08E-14	1.11E-12	8.23E-15	1.69E-12	5.73E-13	51.22	5.56	0.776	7.17
83	2.14E-16	5.02E-14	3.71E-16	3.12E-14	4.74E-13	2.60	2.78	0.751	3.70
84	1.81E-15	2.86E-13	2.12E-15	2.00E-13	7.16E-13	7.82	4.19	0.808	5.18
85	2.76E-15	4.67E-13	3.46E-15	1.59E-13	3.74E-12	5.96	4.08	0.847	4.82
86	2.13E-16	2.51E-13	1.85E-15	3.22E-14	2.25E-13	20.76	0.64	0.714	0.89
87	2.57E-15	2.99E-13	2.21E-15	1.46E-14	4.74E-14	9.51	6.56	0.791	8.30
88	2.03E-15	2.29E-13	1.69E-15	6.72E-14	1.76E-12	3.51	6.22	0.84	7.40
89	2.36E-15	2.42E-13	1.79E-15	2.61E-13	1.82E-13	12.89	6.05	0.763	7.92
90	6.82E-16	2.33E-13	1.73E-15	3.72E-14	7.51E-13	4.88	2.15	0.82	2.62
91	7.16E-16	6.81E-14	5.04E-16	4.73E-14	3.07E-13	4.97	6.89	0.726	9.49
92	7.20E-15	8.54E-13	6.31E-15	1.17E-12	3.23E-13	57.36	4.97	0.744	6.67
93	1.72E-15	2.28E-13	1.68E-15	1.13E-14	9.74E-14	13.95	5.75	0.737	7.80
94	1.21E-15	1.93E-13	1.42E-15	5.66E-14	1.30E-12	8.86	4.43	0.77	5.75
95	5.05E-16	1.26E-13	9.29E-16	4.57E-14	1.02E-12	6.15	2.77	0.758	3.65
96	8.02E-16	1.31E-13	9.70E-16	5.78E-14	7.61E-13	2.32	4.19	0.827	5.07
97	7.46E-15	6.01E-13	4.45E-15	4.27E-13	2.96E-13	23.68	8.25	0.779	10.59
98	2.29E-16	5.17E-14	3.82E-16	4.00E-14	5.64E-13	2.92	2.79	0.729	3.82
99	1.61E-15	1.16E-13	8.55E-16	4.78E-13	1.56E-12	9.99	5.35	0.749	7.14
100	4.52E-16	1.01E-13	7.47E-16	1.65E-14	4.49E-13	6.25	3.27	0.739	4.42
101	3.67E-15	4.756E-13	3.518E-15	3.554E-13	2.610E-13	18.87	5.09	0.781	6.52
102	1.314E-15	2.02E-13	1.49E-15	5.31E-14	8.53E-13	10.11	4.66	0.75	6.21
103	1.827E-15	2.33E-13	1.73E-15	2.66E-14	1.74E-13	6.97	5.88	0.783	7.51
104	3.067E-15	3.37E-13	2.49E-15	4.54E-13	1.81E-13	42.33	5.38	0.687	7.83
105	4.734E-15	4.49E-13	3.32E-15	4.03E-13	6.10E-13	6.49	6.74	0.844	7.98
106	2.513E-15	2.96E-13	2.19E-15	4.12E-14	1.12E-13	22.41	6.35	0.726	8.75

Note: * Corrected for alpha ejection (Farley et al. 1996), eU was estimated by using the measured grain dimensions and assuming a cylindrical shape for the apatites.

Table A3: Summary of bedrock apatite fission track results

Sample	N _s	N _i	n	ρ_d [cm ²]	χ^2	FT age (Ma)	1 σ (Ma)
9TETG1	403	2506	50	1.02E+06	0	22.2	1.8
9TETG2	223	1934	45	1.01E+06	97	14.3	1.1
9TETG3	272	2167	50	1.01E+06	58	15.5	1.1
9TETG4	200	2290	50	1.01E+06	13	10.8	0.9
9TETG5	174	1842	50	1.01E+06	28	11.6	1
9TETG6	156	1236	50	1.00E+06	79	15.5	1.4
9TETG7	306	1439	40	5.12E+05	0.6	16.7	1.5
9TETG9	230	799	41	5.11E+05	0.9	19.8	2
9TETG22	607	962	50	5.29E+05	0	42.7	4

Note: N_s and N_i is the number of counted spontaneous and induced tracks, respectively; n: number of analyzed grains; ρ_d : track density over U-glass IRMM540R; χ^2 : Chi-quadrat test, if the test passes the 5% limit then the pooled FT age is reported, if it failed we report the mean FT age. A ζ -calibration factor of 245±6 a cm² was used for sample 09TETG1 to 09TETG6, and 241±8 a cm² for the other 3 samples.

Table A4: Apatite fission track results for single grains of sample 09TETG15.

9TETG15	N _s	N _i	FT age (Ma)	1 σ (Ma)
1	8	28	17.7	7.1
2	0	11	0.0	0.0
3	5	16	19.3	9.9
4	3	12	15.5	10.0
5	0	3	0.0	0.0
6	4	13	19.0	10.9
7	2	10	12.4	9.6
8	3	12	15.5	10.0
9	2	21	5.9	4.4
10	27	79	21.1	4.8
11	6	15	24.7	12.0
12	13	27	29.7	10.1
13	4	13	19.0	10.9
14	7	25	17.3	7.4
15	3	11	16.9	11.0
16	4	20	12.4	6.8
17	1	10	6.2	6.5
18	7	37	11.7	4.8
19	7	32	13.5	5.7
20	22	28	48.4	13.9
21	0	4	0.0	0.0
22	3	14	13.2	8.4
23	3	9	20.6	13.8
24	16	85	11.6	3.2
25	23	30	47.3	13.2
26	3	17	10.9	6.8
27	1	7	8.8	9.5
28	7	9	48.0	24.2
29	18	78	14.3	3.8
30	6	27	13.7	6.2
31	13	38	21.1	6.8

32	1	4	15.5	17.3
33	5	15	20.6	10.7
34	1	9	6.9	7.2
35	2	9	13.7	10.8
36	2	16	7.7	5.8
37	3	14	13.3	8.4
38	4	13	19.0	10.9
39	6	36	10.3	4.6
40	9	17	32.7	13.5
41	3	8	23.2	15.7
42	3	7	26.5	18.3
43	19	44	26.7	7.4
44	3	16	11.6	7.3
45	4	28	8.8	4.7
46	3	17	10.9	6.8
47	6	33	11.2	5.0
48	6	36	10.3	4.6
49	6	11	33.7	17.1
50	36	89	25.0	5.0
51	3	11	16.9	11.0
52	3	12	15.5	10.0
53	13	17	47.2	17.5
54	4	43	5.8	3.0
55	6	27	13.7	6.2
56	2	5	24.7	20.7
57	4	16	15.5	8.7
58	11	90	7.6	2.4
59	3	15	12.4	7.8
60	16	70	14.1	3.9
61	3	11	16.9	11.0
62	7	25	17.3	7.4
63	7	22	19.7	8.6
64	18	62	17.9	4.8
65	3	11	16.9	11.0
66	0	5	0.0	0.0
67	1	28	2.2	2.3
68	2	10	12.4	9.6
69	0	4	0.0	0.0
70	23	135	10.5	2.4
71	2	19	6.5	4.8
72	3	33	5.6	3.4
73	1	12	5.2	5.4
74	1	3	20.6	23.8
75	2	20	6.2	4.6
76	2	10	12.4	9.6
77	5	47	6.6	3.1
78	33	70	29.1	6.2
79	6	14	26.5	13.0
80	79	156	31.3	4.5
81	7	19	22.8	10.1
82	8	41	12.1	4.7
83	1	6	10.3	11.1
84	2	10	12.4	9.6

85	3	10	18.5	12.2
86	9	13	42.7	18.6
87	5	55	5.6	2.6
88	1	16	3.9	4.0
89	2	11	11.2	8.7
90	1	23	2.7	2.8
91	3	14	13.3	8.4
92	8	56	8.8	3.4
93	2	15	8.2	6.2
94	1	11	5.6	5.9
95	4	10	24.7	14.6
96	3	10	18.5	12.2
97	5	12	25.7	13.7
98	3	13	14.3	9.2
99	7	29	14.9	6.3
100	3	30	6.2	3.8
Sum Σ	684	2570		
ρ_d [cm ²]	5.13E+05		Mean age (Ma)	15.8
			Error (mean)	1.0