

TABLE 1: FISSION TRACK DATA AND SAMPLE LOCALITIES

ample	Location		Elev.	Mineral	pontaneous	Induced	Dosimeter	entral FT Ag Error	MCTL† [μm]	SD1σ	
	[Lat.	Long.]	[m]	umber of crystals	ps (N _s)*	pi (N _i)*	pd (N _d)*	[Ma] (± 1σ)	[%]	umber of tracks [μm]	
T1	38.18317	28.062	145	Apatite (25)	0.035 (51)	0.038 (552)	0.331 (9219)	22.15 ± 3.26	3.17	3.70 ± 0.31 (14)	0.75
T3	38.24981	28.128	700	Apatite (25)	0.121 (333)	0.288 (7952)	0.331 (9219)	10.05 ± 0.57	0.75	4.23 ± 0.16 (63)	1.28
T3	38.24981	28.128	700	Zircon (20)	3.024 (28460)	3.340 (3198)	0.039 (2729)	24.20 ± 1.12	####	N.D.§	. A.#
T4	38.24514	28.104	420	Apatite (16)	0.318 (504)	0.718 (11372)	0.133 (9219)	10.64 ± 0.64	####	3.92 ± 0.15 (100)	1.45
T5	38.24755	28.093	380	Apatite (22)	0.052 (158)	0.153 (4640)	0.113 (7801)	6.92 ± 0.56	0.00	4.34 ± 0.23 (33)	1.28
T8	38.27148	28.057	830	Apatite (20)	0.235 (280)	0.312 (3725)	0.126 (5223)	17.03 ± 1.08	0.01	4.14 ± 0.19 (100)	1.84
T10	38.29082	28.052	###	Apatite (20)	0.027 (58)	0.087 (1850)	0.185 (12840)	10.48 ± 1.40	0.02	N.D.	N. A.
T11	38.33603	28.071	###	Apatite (19)	0.011 (21)	0.046 (888)	0.185 (12840)	7.90 ± 1.75	0.00	N.D.	N. A.
T14	38.31965	28.101	###	Apatite (30)	0.025 (38)	0.161 (2446)	0.1331 (9219)	3.73 ± 0.61	0.09	4.19 ± 0.28 (23)	1.33
T15	38.31965	28.103	###	Apatite (25)	1.037 (55)	0.146 (2171)	0.1331 (9219)	6.08 ± 0.83	0.63	4.08 ± 0.68 (18)	2.79
T16	38.33657	28.102	###	Apatite (50)	0.005 (12)	0.014 (356)	0.1331 (9219)	8.74 ± 2.67	####	N.D.	N. A.
T20	38.44110	28.067	370	Apatite (30)	0.005 (8)	0.067 (1035)	0.126 (5223)	1.75 ± 0.62	0.10	N.D.	N. A.
T23	38.37340	27.673	740	Apatite (10)	0.493 (384)	1.106 (8606)	0.126 (5223)	10.12 ± 0.55	0.51	4.10 ± 0.16 (71)	1.35
T28	38.09123	27.891	160	Apatite (20)	0.111 (151)	0.245 (3329)	0.185 (12840)	16.11 ± 1.74	####	4.03 ± 0.23 (36)	1.36
T33	37.95482	28.024	660	Apatite (5)	0.555 (142)	1.119 (2861)	0.115 (7926)	10.25 ± 0.89	0.11	1.87 ± 0.14 (70)	1.15
T34	37.93522	28.019	310	Apatite (10)	0.616 (474)	1.164 (8965)	0.115 (7926)	11.12 ± 0.64	8.96	1.87 ± 0.14 (100)	1.39
T35	37.92375	28.017	310	Apatite (21)	0.118 (200)	0.375 (6389)	0.115 (7926)	6.46 ± 0.49	7.08	1.48 ± 0.29 (50)	2.05
T57	38.88420	28.323	700	Apatite (15)	0.552 (592)	0.643 (6898)	0.120 (4984)	18.58 ± 0.85	2.93	4.23 ± 0.12 (100)	1.16
T59	38.84200	28.323	790	Apatite (10)	1.137 (11851)	3.23 (13795)	0.120 (4984)	18.58 ± 0.62	0.33	4.47 ± 0.10 (100)	1.00
T62	38.78398	28.337	600	Apatite (20)	0.084 (124)	0.096 (1415)	0.120 (4984)	18.98 ± 1.81	4.30	4.59 ± 0.21 (24)	0.99
T64	38.68893	28.323	340	Apatite (20)	0.144 (321)	0.197 (4383)	0.126 (5223)	18.24 ± 1.61	####	4.60 ± 0.22 (43)	1.41
T66	38.63755	28.337	280	Apatite (20)	0.163 (328)	0.183 (3686)	0.120 (4984)	19.24 ± 1.17	4.63	4.58 ± 0.22 (31)	1.20
T68	38.58773	28.287	220	Apatite (10)	1.164 (997)	0.911 (7800)	0.120 (4984)	27.85 ± 1.22	7.06	4.32 ± 0.12 (101)	1.16
T70	38.40492	28.236	530	Apatite (40)	0.013 (27)	0.158 (3270)	0.126 (5223)	1.87 ± 0.36	2.60	N.D.	N. A.
T70	38.40492	28.236	530	Zircon (8)	1.087 (742)	0.564 (3849)	0.039 (2729)	5.19 ± 0.28	8.29	N.D.	N. A.
T71	37.82230	28.354	90	Apatite (20)	0.282 (646)	0.298 (6838)	0.133 (9219)	22.57 ± 1.10	9.47	4.00 ± 0.12 (102)	1.24
T73	37.73682	28.352	110	Apatite (15)	0.946 (12100)	1.117 (119310)	0.117 (8098)	21.66 ± 1.16	####	4.42 ± 0.08 (100)	0.82
T80	37.72145	27.676	570	Apatite (21)	0.066 (155)	0.055 (1294)	0.115 (7926)	24.68 ± 2.19	####	N.D.	N. A.

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	[Lat.	Long.]	[m]	umber of crystals	ps (N _s)*	pi (N _i)*	pd (N _d)*	[Ma] (± 1σ)	[%]	umber of tracks	[μm]
T81	37.67553	27.686	750	Apatite (19)	0.071 (134)	0.068 (1285)	0.115 (7926)	21.52 ± 1.98	####	N.D.	N. A.
T83	37.58580	27.700	550	Apatite (25)	0.193 (569)	0.218 (6419)	0.115 (7926)	18.23 ± 0.96	####	14.46 ± 0.12 (10	1.17
T84	37.55975	27.718	550	Apatite (20)	0.766 (212)	0.105 (2895)	0.115 (7926)	15.12 ± 1.09	0.05	14.59 ± 0.13 (10	1.31
T86	37.49140	27.716	610	Apatite (20)	0.239 (599)	0.256 (6427)	0.115 (7926)	19.06 ± 1.11	####	14.77 ± 0.14 (10	1.37
T87	37.47405	27.705	860	Apatite (25)	0.213 (477)	0.245 (5480)	0.115 (7926)	18.20 ± 1.15	####	14.34 ± 0.10 (89	0.98
T87	37.47405	27.705	860	Zircon (15)	2.900 (28460)	3.16 (2520)	0.039 (2729)	24.69 ± 0.90	4.48	N.D.	N. A.

Note: Analyses are by external detector method using 0.5 for the $4\pi/2\pi$ geometry correction factor; Zircon ages calculated using dosimeter with $\zeta_{\text{CN2}} = 137 \pm 2.14$; Apatite ages are calculated using dosimeter glass CN5 with $\zeta_{\text{CN5}} = 361 \pm 6$.

*Dosimeter track densities (pd) are ($\times 10^6$ tr cm⁻²); other track densities (ps & pi) are ($\times 10^7$ tr cm⁻²), except apatite where (ps) are ($\times 10^5$ tr cm of tracks counted (N) shown in brackets.

†MCTL = mean confined track length.

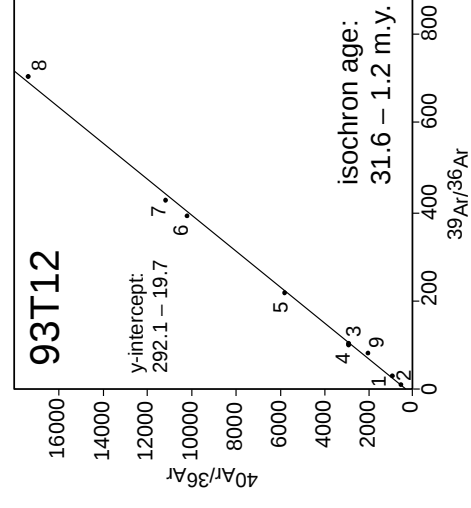
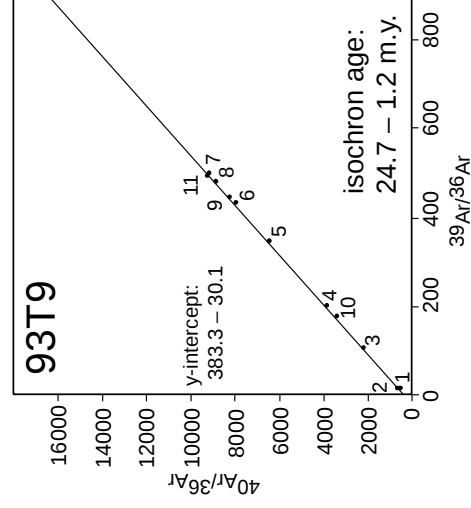
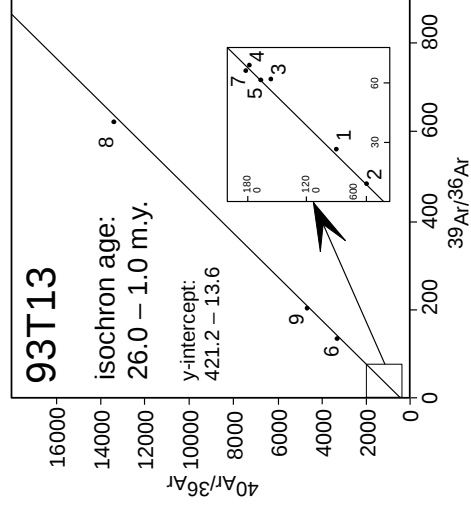
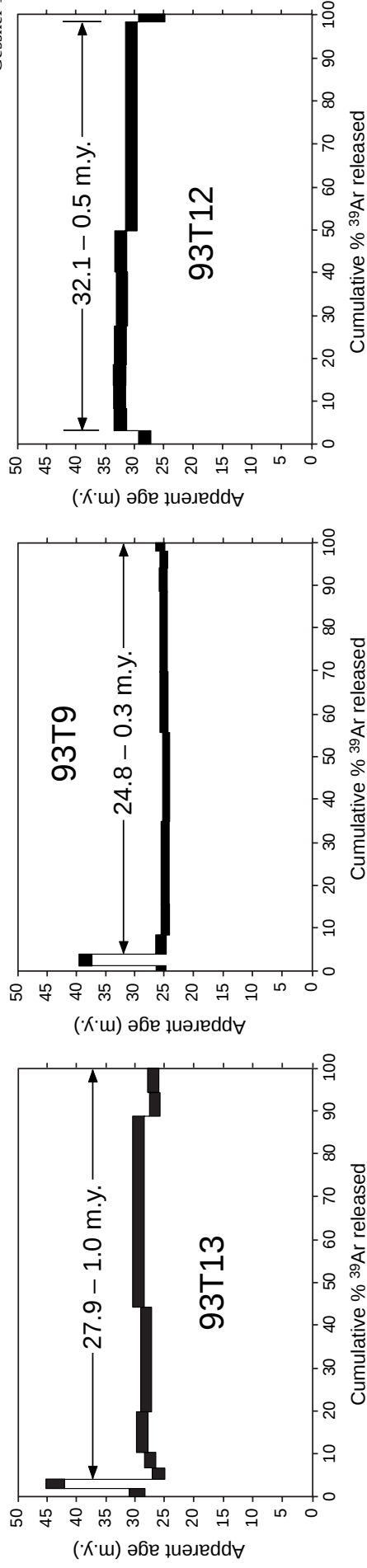
§N. D. = No data.

#N. A. = Not applicable.

TABLE 2. RESULTS OF $^{40}\text{Ar}/^{39}\text{Ar}$ DATING

Steps	$^{40}\text{Ar}/^{39}\text{Ar}$	$^{39}\text{Ar}/^{36}\text{Ar}$	$^{37}\text{Ar}/^{39}\text{Ar}$	$^0\text{Ar}^*$ (%)	^{39}Ar (%)	Age (Ma)†
<u>Sample 93T9</u>						
1	36.21	16.72	0.0154	51.2	1.4	25.6 ± 0.9
2	46.98	15.54	§	59.5	2.6	38.4 ± 1.1
3	21.34	106.7	0.0015	87.0	4.8	25.6 ± 0.8
4	19.49	201.2	0.0002	92.5	7.0	24.9 ± 0.7
5	18.83	345.2	0.0004	95.5	19.4	24.8 ± 0.6
6	18.47	431.4	0.0013	96.3	20.8	24.5 ± 0.6
7	18.57	496.1	0.0020	96.8	14.1	24.8 ± 0.7
8	18.56	478.6	0.0003	96.7	18.8	24.7 ± 0.6
9	18.64	444.9	0.0013	96.4	5.5	24.8 ± 0.7
10	19.54	178.2	§	91.5	4.0	24.7 ± 0.7
11	18.92	492.3	0.0053	96.8	1.6	25.3 ± 0.8
<u>Sample 93T12</u>						
1	32.82	27.88	0.0123	67.7	3.0	28.2 ± 1.0
2	54.65	10.15	0.0056	46.7	5.2	32.4 ± 1.1
3	28.51	102.6	0.0017	89.9	5.5	32.6 ± 1.0
4	28.58	102.2	§	89.9	4.8	32.6 ± 1.1
5	26.93	215.4	0.0012	94.9	8.8	32.5 ± 1.0
6	26.25	387.0	0.0021	97.1	12.7	32.4 ± 1.0
7	26.35	423.1	§	97.4	9.8	32.6 ± 1.0
8	24.77	698.9	0.0007	98.3	48.7	30.9 ± 0.9
9	25.35	80.0	0.0095	85.4	1.5	27.6 ± 2.2
<u>Sample 93T13</u>						
1	34.78	26.27	0.0179	67.7	2.1	29.8 ± 1.3
2	66.27	9.34	0.0331	52.3	2.2	43.6 ± 1.6
3	25.38	61.6	0.0190	81.1	2.7	26.1 ± 1.1
4	26.12	68.2	0.0100	83.4	3.6	27.6 ± 1.0
5	27.67	60.5	0.0050	82.4	9.4	28.8 ± 1.0
6	24.53	134.6	0.0011	91.1	24.5	28.3 ± 0.9
7	27.96	65.24	0.0003	83.8	44.6	29.6 ± 1.0
8	21.73	617.9	0.0003	97.8	5.5	26.9 ± 0.9
9	22.86	203.6	0.0080	93.7	5.4	27.1 ± 0.9

*radiogenic argon.
†errors are 1σ values.
§ ^{37}Ar below detection limit.



Appendix Figure 1: White mica release spectra and isochron correlation diagrams from analyzed samples. Release steps used for calculation of plateau ages are indicated by arrows. Plateau ages are calculated after Dalrymple and Lanphere (1974). Sequence of heating steps is indicated by numbers in isotope correlation diagrams.

Dalrymple G.B., and Lanphere M.A., 1974, $^{40}\text{Ar}/^{39}\text{Ar}$ age spectra of some undisturbed terrestrial samples: *Geochimica et Cosmochimica Acta*, v. 38, p. 716–738.