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"Tectonic evolution of the Bering Shelf-Chukchi Sea-Arctic Margin, and adjacent landmasses", edited by E.L. Miller, A. Grantz and S.L. Klemperer

Chapter 6
Deformation and exhumation of the Mt. Igikpak region, central Brooks Range
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$^{40}Ar/^{39}Ar$ Data Tables for samples discussed Chapter 6

40(mol) = moles corrected for blank and reactor-produced 40.
Ratios are corrected for blanks, decay, and interference.
∑39Ar is cumulative, 40Ar* = rad fraction.
J is a dimensionless irradiation parameter (McDougall and Harrison, 1988).

Sample: 93-JT-85, Mica Schist **Mineral:** White Mica J=0.0054650
Lat: 67° 31.5' N **Long:** 154°57.5' W

Power* (W)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
15	2.2e-15	7.0270	0.0517	0.0367	9.5	0.006	0.393	68.0 ± 9.7
18	1.4e-14	7.7116	0.1413	0.0047	3.5	0.076	0.848	74.5 ± 0.9
20	3.5e-14	7.7909	0.0925	0.0019	5.3	0.272	0.935	75.2 ± 0.4
22	6.5e-14	7.6778	0.0801	0.0010	6.1	0.655	0.965	74.1 ± 0.3
23	1.8e-14	7.4657	0.0981	0.0178	5.0	0.722	0.587	72.1 ± 1.2
24	3.1e-15	7.4230	0.0996	0.0012	4.9	0.741	0.954	71.7 ± 2.7
25	4.7e-15	7.2134	0.2534	0.0020	1.9	0.770	0.925	69.8 ± 1.8
26	3.2e-15	7.0935	0.3168	0.0012	1.5	0.790	0.955	68.6 ± 2.7
27	2.6e-15	6.7869	0.3435	0.0013	1.4	0.807	0.949	65.7 ± 2.8
32	1.2e-14	6.7623	0.3723	0.0018	1.3	0.887	0.931	65.5 ± 0.8
38	1.8e-14	7.5623	0.3973	0.0018	1.2	0.994	0.938	73.1 ± 0.6
45	1.2e-15	6.9900	1.8446	0.0097	0.27	1.000	0.719	67.6 ± 8.4

Total fusion age, TFA= 72.94 ± 0.25 Ma (including J)
Weighted mean plateau age, WMPA= 74.29 ± 0.22 Ma (including J)
Inverse isochron age =74.45 ± 0.40 Ma. (MSWD =3.38; 40Ar/36Ar=286.2 ± 12.0)
Steps used: 15, 18, 20, 22, 23, 24, 25, (1–7/12 or 77% ∑ 39Ar)
* Due to failure of the thermocouple, we were unable to measure the temperature of the resistance furnace during this experiment.

Sample: 93-JT-88, Orthogneiss **Mineral**: K-feldspar J=0.0054660
Lat: 67°30.1' N **Long:** 154°59.4' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
450	8.5e-14	37.9140	0.0076	0.0568	65	0.009	0.375	339.8 ± 7.0
500	1.3e-14	4.9912	0.0073	0.0040	67	0.025	0.526	48.6 ± 2.7
550	1.7e-14	4.1892	0.0010	0.0024	513	0.053	0.616	40.8 ± 1.6
600	2.0e-14	4.6580	0.0011	0.0006	439	0.093	0.867	45.4 ± 1.0
650	1.9e-14	4.6483	-0.0014	0.0004	<0.001	0.134	0.912	45.3 ± 1.1
700	1.8e-14	4.5802	0.0032	0.0004	153	0.173	0.907	44.6 ± 1.1
750	1.7e-14	4.5144	0.0028	0.0007	173	0.209	0.859	44.0 ± 1.2
800	1.9e-14	4.8467	-0.0022	0.0003	<0.001	0.250	0.943	47.2 ± 1.1
850	2.4e-14	4.9850	0.0023	0.0003	211	0.301	0.937	48.5 ± 0.8
900	2.7e-14	4.8144	0.0013	0.0004	380	0.358	0.909	46.9 ± 0.8
950	2.5e-14	4.9364	-0.0006	0.0005	<0.001	0.408	0.894	48.0 ± 0.8
1000	3.4e-14	4.5431	0.0005	0.0016	1062	0.469	0.721	44.3 ± 0.8

1020	4.1e-14	5.0518	0.0009	0.0014	532	0.538	0.764	49.1 ± 0.7
1040	6.8e-14	5.0532	0.0015	0.0020	323	0.642	0.693	49.2 ± 0.6
1060	5.1e-14	4.7887	0.0035	0.0030	140	0.711	0.590	46.6 ± 0.8
1080	3.3e-14	5.0314	0.0007	0.0028	735	0.756	0.615	48.9 ± 1.1
1090	2.6e-14	4.6547	-0.0007	0.0033	<0.001	0.791	0.563	45.3 ± 1.4
1100	2.5e-14	3.4671	-0.0032	0.0050	<0.001	0.822	0.384	33.9 ± 1.8
1140	5.4e-14	5.1400	-0.0007	0.0037	<0.001	0.887	0.554	50.0 ± 0.8
1180	7.8e-14	4.6038	0.0007	0.0058	702	0.966	0.418	44.8 ± 0.8
1250	4.1e-14	1.5619	-0.0037	0.0105	<0.001	1.000	0.119	15.3 ± 1.9

Total fusion age, TFA= 48.38 ± 0.25 Ma (including J)
Weighted mean plateau age, WMPA= 47.00 ± 0.23 Ma (including J)
Inverse isochron age =46.99 ± 0.99 Ma. (MSWD =9.08; 40Ar / 36Ar=1111.0 ± 42.6)
Steps used: 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1020, 1040, 1060, 1080, 1090, 1100, 1140, 1180, (2–20 / 21 or 96% ∑ 39Ar)

Sample: 93-JT-88 Orthogneiss, **Mineral:** Biotite J=0.0072850
Lat: 67°30.1' N **Long:** 154°59.4' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
500	4.3e-14	5.4352	0.0108	0.0045	45	0.079	0.804	70.1 ± 0.3
550	5.3e-14	6.0010	0.0012	0.0007	414	0.187	0.965	77.2 ± 0.2
600	7.3e-14	5.9861	0.0021	0.0005	235	0.338	0.977	77.0 ± 0.2
650	5.3e-14	6.0092	0.0025	0.0002	198	0.448	0.989	77.3 ± 0.2
700	3.0e-14	5.9401	0.0034	0.0004	143	0.511	0.981	76.4 ± 0.3
750	2.7e-14	6.0333	0.0118	0.0002	42	0.567	0.990	77.6 ± 0.3
800	4.6e-14	6.1184	0.0246	0.0003	20	0.660	0.988	78.7 ± 0.2
850	7.5e-14	6.0672	0.0057	0.0002	85	0.813	0.991	78.0 ± 0.2
900	5.0e-14	6.0161	0.0056	0.0003	88	0.916	0.987	77.4 ± 0.2
950	2.9e-14	6.0590	0.0364	0.0003	13	0.975	0.988	77.9 ± 0.3
1000	8.7e-15	6.1528	0.2950	0.0007	1.7	0.993	0.973	79.1 ± 1.1
1100	4.6e-15	6.8428	1.6183	0.0043	0.30	1.000	0.857	87.8 ± 2.2

Total fusion age, TFA= 77.02 ± 0.12 Ma (including J)
Weighted mean plateau age, WMPA= 77.26 ± 0.12 Ma (including J)
Inverse isochron age =77.99 ± 0.31 Ma. (MSWD =26.95; 40Ar / 36Ar=178.9 ± 22.7)
Steps used: 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, (1–12 / 12 or 100% ∑ 39Ar)

Sample: 93-JT-96, Marble **Mineral:** White Mica J=0.0072760
Lat: 67°34.7' N **Long:** 154°52.8 W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
500	8.2e-15	6.3937	0.0132	0.0317	37	0.008	0.406	82.0 ± 3.2
575	9.7e-15	6.7461	-0.0002	0.0036	<0.001	0.025	0.865	86.4 ± 1.2
675	6.2e-14	7.2279	0.0013	0.0008	364	0.145	0.969	92.5 ± 0.2
750	2.1e-13	7.6054	0.0014	0.0002	354	0.538	0.992	97.2 ± 0.1
800	7.5e-14	7.6253	0.0009	0.0001	554	0.679	0.996	97.4 ± 0.2
850	2.5e-14	7.5419	0.0010	0.0004	481	0.725	0.985	96.4 ± 0.5
900	1.9e-14	7.5402	0.0008	0.0004	618	0.761	0.986	96.4 ± 0.6
950	2.2e-14	7.5372	0.0014	0.0004	355	0.802	0.984	96.3 ± 0.5
1000	3.2e-14	7.5689	-0.0015	0.0004	<0.001	0.862	0.986	96.7 ± 0.4
1100	6.4e-14	7.6076	0.0015	0.0005	318	0.981	0.983	97.2 ± 0.3
1250	5.7e-15	7.4570	0.0004	0.0015	1365	0.991	0.943	95.3 ± 1.8
1350	4.9e-15	7.7772	-0.0235	0.0006	<0.001	1.000	0.978	99.3 ± 2.1

Total fusion age, TFA= 96.21 ± 0.15 Ma (including J)
Weighted mean plateau age, WMPA= 97.15 ± 0.14 Ma (including J)
Inverse isochron age =97.22 ± 0.30 Ma. (MSWD =2.14; 40Ar / 36Ar=265.6 ± 90.5)
Steps used: 750, 800, 850, 900, 950, 1000, 1100, (4–10 / 12 or 84% ∑ 39Ar)

Sample: 94-JT-113, Slate **Mineral:** White mica J=0.0037950
Lat: 67°30.8' N **Long:** 154°38.7' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
500	1.1e-16	138.7190	0.5106	-0.0951	0.96	0.000	1.000	763.0 ± 330.2
600	1.5e-14	16.4589	0.4413	0.0093	1.1	0.058	0.859	109.3 ± 1.3
650	1.3e-14	17.6954	0.3778	0.0044	1.3	0.108	0.933	117.3 ± 1.3
700	2.5e-14	16.9864	0.0293	0.0034	17	0.207	0.944	112.7 ± 1.1
750	4.3e-14	16.9234	0.0145	0.0022	34	0.384	0.963	112.3 ± 1.1
800	5.1e-14	16.7570	0.0180	0.0017	27	0.598	0.971	111.2 ± 1.1
850	3.9e-14	16.7328	0.0228	0.0014	22	0.762	0.976	111.1 ± 1.1
900	1.1e-14	17.6013	0.1396	0.0029	3.5	0.804	0.955	116.6 ± 1.3
950	1.4e-14	17.1038	0.4812	0.0013	1.0	0.862	0.980	113.5 ± 1.2
1000	2.0e-14	16.8666	0.0607	0.0011	8.1	0.947	0.981	111.9 ± 1.1
1050	1.0e-14	16.9352	0.1571	0.0014	3.1	0.989	0.977	112.4 ± 1.3
1100	3.0e-15	17.8117	1.9924	0.0309	0.25	0.997	0.665	118.0 ± 4.1
1300	2.2e-15	38.0482	3.7894	0.0681	0.13	1.000	0.657	243.3 ± 10.0

Total fusion age, TFA= 112.68 ± 1.07 Ma (including J)
Weighted mean plateau age, WMPA= 111.58 ± 1.06 Ma (including J)
Inverse isochron age =111.38 ± 1.21 Ma. (MSWD =7.93; 40Ar / 36Ar=311.5 ± 42.1)
Steps used: 600, 700, 750, 800, 850, 1000, 1050, (2–11 / 13 or 84% ∑ 39Ar)

Sample: 93-JT-124 Garnet Biotite Schist **Mineral:** Biotite J=0.0054670
Lat: 67°29.8' N **Long:** 154°58.5' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
500	2.2e-14	9.8242	0.0049	0.0180	99	0.027	0.649	94.4 ± 1.0
550	4.1e-14	10.5511	0.0044	0.0029	111	0.093	0.925	101.2 ± 0.4
600	7.3e-14	10.6759	0.0013	0.0010	371	0.216	0.973	102.3 ± 0.3
650	7.5e-14	10.6532	-0.0002	0.0005	<0.001	0.344	0.986	102.1 ± 0.3
700	4.2e-14	10.6056	0.0031	0.0006	160	0.417	0.984	101.7 ± 0.4
750	3.0e-14	10.6731	0.0067	0.0006	73	0.469	0.985	102.3 ± 0.4
800	2.5e-14	10.7353	0.0085	0.0003	58	0.511	0.993	102.9 ± 0.5
850	4.1e-14	10.5914	0.0077	0.0007	64	0.580	0.980	101.5 ± 0.4
900	8.8e-14	10.6727	0.0009	0.0004	575	0.730	0.989	102.3 ± 0.2
950	7.7e-14	10.6655	0.0018	0.0006	269	0.862	0.984	102.2 ± 0.3
1000	4.6e-14	10.7477	0.0006	0.0005	777	0.939	0.987	103.0 ± 0.3
1100	3.6e-14	10.6415	0.0091	0.0009	54	1.000	0.977	102.0 ± 0.4

Total fusion age, TFA= 101.95 ± 0.20 Ma (including J)
Weighted mean plateau age, WMPA= 102.20 ± 0.20 Ma (including J)
Inverse isochron age =102.51 ± 0.22 Ma. (MSWD =2.27; 40Ar / 36Ar=248.1 ± 6.9)
Steps used: 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, (2–12 / 12 or 97% ∑ 39Ar)

Sample: 93-JT-142 Garnet Biotite Schist **Mineral:** Biotite J=0.0072750
Lat: 67°32.4' N **Long:** 154°58.4' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
500	1.2e-14	7.2173	0.0076	0.0269	65	0.009	0.476	92.3 ± 2.3
550	3.5e-14	7.4006	-0.0029	0.0091	<0.001	0.048	0.733	94.6 ± 0.6
600	7.4e-14	7.3712	0.0013	0.0027	368	0.150	0.903	94.2 ± 0.3
650	1.0e-13	7.3517	0.0020	0.0007	248	0.305	0.973	94.0 ± 0.2
700	9.3e-14	7.3699	0.0017	0.0004	281	0.445	0.984	94.2 ± 0.2
750	4.2e-14	7.3666	0.0027	0.0004	181	0.508	0.985	94.2 ± 0.3
800	3.2e-14	7.3808	0.0109	0.0004	45	0.556	0.984	94.4 ± 0.3
850	3.2e-14	7.4079	0.0142	0.0005	34	0.604	0.980	94.7 ± 0.4
900	5.1e-14	7.4835	0.0036	0.0004	136	0.679	0.985	95.6 ± 0.3
950	5.7e-14	7.5054	0.0007	0.0005	725	0.762	0.982	95.9 ± 0.3
1000	4.8e-14	7.4449	0.0035	0.0008	139	0.832	0.970	95.2 ± 0.3
1100	1.0e-13	7.5188	0.0035	0.0007	141	0.983	0.973	96.1 ± 0.2
1250	1.2e-14	7.5824	-0.0000	0.0009	<0.001	1.000	0.966	96.9 ± 0.9

Total fusion age, TFA= 94.85 ± 0.14 Ma (including J)
Weighted mean plateau age, WMPA= 94.19 ± 0.15 Ma (including J)
Inverse isochron age =94.92 ± 0.33 Ma. (MSWD =15.26; 40Ar/36Ar=293.0 ± 14.9)
Steps used: 550, 600, 650, 700, 750, 800, 850, (2–8/13 or 59% ∑ 39Ar)

Sample: 93-JT-143 Garnet Biotite Schist **Mineral:** Biotite J=0.0072740
Lat: 67°33.1' N **Long:** 154°59.4' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
500	5.5e-15	6.2727	0.0009	0.0137	561	0.006	0.608	80.5 ± 2.8
550	1.3e-14	6.8290	0.0071	0.0037	69	0.026	0.862	87.5 ± 0.9
600	3.4e-14	6.8846	0.0039	0.0012	127	0.081	0.949	88.2 ± 0.3
675	8.9e-14	6.9281	0.0031	0.0006	157	0.227	0.975	88.7 ± 0.2
750	7.5e-14	6.9766	0.0017	0.0003	290	0.350	0.989	89.3 ± 0.2
825	5.1e-14	7.0062	0.0123	0.0001	40	0.435	0.995	89.7 ± 0.2
900	7.7e-14	6.9745	0.0076	0.0002	64	0.563	0.991	89.3 ± 0.2
950	6.2e-14	6.9657	0.0067	0.0003	73	0.667	0.989	89.2 ± 0.2
1000	4.5e-14	6.9417	0.0117	0.0003	42	0.742	0.986	88.9 ± 0.3
1100	1.3e-13	7.0091	0.0076	0.0003	64	0.961	0.989	89.7 ± 0.2
1250	2.4e-14	7.0851	0.0086	0.0004	57	1.000	0.983	90.7 ± 0.4

Total fusion age, TFA= 89.18 ± 0.13 Ma (including J)
Weighted mean plateau age, WMPA= 89.27 ± 0.13 Ma (including J)
Inverse isochron age =89.53 ± 0.20 Ma. (MSWD =4.11; 40Ar/36Ar=228.3 ± 25.4)
Steps used: 550, 600, 675, 750, 825, 900, 950, 1000, 1100, (2–10/11 or 95% ∑ 39Ar)

Sample: 94-JT-19 Skarn **Mineral:** HornblendeJ=0.0038450
Lat: 67°30.1' N **Long:** 155°08.4' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
700	1.5e-14	21.3105	14.6093	0.3690	0.033	0.003	0.163	142.1 ± 8.6
800	4.9e-14	15.0261	7.6073	0.0181	0.064	0.077	0.758	101.3 ± 1.0
850	8.9e-14	13.6334	9.9109	0.0111	0.049	0.241	0.843	92.2 ± 0.9
900	1.7e-13	14.2002	10.5280	0.0062	0.046	0.573	0.934	95.9 ± 0.9
950	1.1e-13	14.4884	3.8168	0.0037	0.13	0.794	0.949	97.8 ± 1.0
975	8.8e-15	7.3071	6.3174	0.0169	0.077	0.816	0.619	50.0 ± 0.9
1000	1.2e-14	9.9203	7.3054	0.0127	0.067	0.844	0.757	67.5 ± 0.9
1050	4.6e-14	13.6498	6.2846	0.0085	0.077	0.930	0.871	92.3 ± 0.9
1100	3.9e-14	14.0928	7.2466	0.0111	0.067	1.000	0.838	95.2 ± 1.0

Total fusion age, TFA= 94.12 ± 0.91 Ma (including J)
Weighted mean plateau age, WMPA= 96.16 ± 0.93 Ma (including J)
Inverse isochron age =95.47 ± 1.73 Ma. (MSWD =185.64; 40Ar / 36Ar=316.5 ± 27.7)
Steps used: 700, 800, 850, 900, 950, 1050, 1100, (1–9 / 9 or 95% ∑ 39Ar)

Sample: 94-JT-33 Orthogneiss **Mineral:** Hornblende J=0.0038380
Lat: 67°30.0' N **Long:** 155°05.7' W

T (°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
720	1.3e-14	11.3105	0.8388	0.0351	0.58	0.007	0.524	76.7 ± 1.2
820	2.1e-13	16.7451	1.8799	0.0088	0.26	0.137	0.872	112.4 ± 1.1
860	2.3e-13	14.5717	1.8514	0.0028	0.26	0.318	0.954	98.2 ± 1.0
890	5.1e-13	14.6564	1.8316	0.0013	0.27	0.726	0.983	98.7 ± 1.0
920	2.4e-13	14.3154	1.8280	0.0016	0.27	0.920	0.978	96.5 ± 0.9
950	4.1e-14	13.3174	1.7008	0.0038	0.29	0.955	0.930	89.9 ± 0.9
960	1.5e-14	11.9255	1.7785	0.0070	0.28	0.968	0.861	80.7 ± 0.9
990	1.5e-14	12.6092	1.9335	0.0074	0.25	0.980	0.861	85.3 ± 1.0
1030	2.1e-14	13.3797	2.0274	0.0069	0.24	0.996	0.876	90.3 ± 1.0
1120	3.3e-15	2.9823	4.5789	0.0295	0.11	1.000	0.265	20.5 ± 1.9

Total fusion age, TFA= 98.72 ± 0.95 Ma (including J)
Weighted mean plateau age, WMPA= 97.96 ± 0.94 Ma (including J)
Inverse isochron age =97.61 ± 2.52 Ma. (MSWD =493.93; 40Ar / 36Ar=335.6 ± 232.2)
Steps used: 860, 890, 920, (3–5 / 10 or 78% ∑ 39Ar)

Sample: 94-JT-79 Orthogneiss **Mineral:** Biotite J=0.0038100
Lat: 67°25.2' N **Long:** 155°02.2' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
550	3.3e-14	10.6907	0.2934	0.0155	1.7	0.018	0.701	72.0 ± 1.0
600	1.3e-13	12.7256	-0.0107	0.0030	<0.001	0.100	0.934	85.4 ± 0.8
650	1.9e-13	12.6356	0.0038	0.0012	129	0.228	0.972	84.8 ± 0.8
675	1.5e-13	12.6796	0.0030	0.0007	162	0.332	0.983	85.1 ± 0.8
700	1.1e-13	12.7139	0.0039	0.0006	127	0.404	0.986	85.3 ± 0.8
725	6.7e-14	12.7454	0.0004	0.0004	1284	0.450	0.990	85.5 ± 0.8
750	5.3e-14	12.7055	0.0097	0.0007	50	0.485	0.984	85.3 ± 0.8
775	4.3e-14	12.7020	0.0162	0.0006	30	0.514	0.985	85.3 ± 0.8
800	4.2e-14	12.7881	0.0097	0.0006	51	0.542	0.987	85.8 ± 0.9
825	4.5e-14	12.5979	0.0058	0.0009	84	0.572	0.978	84.6 ± 0.8
850	6.1e-14	12.5213	0.0039	0.0010	124	0.614	0.977	84.1 ± 0.8
875	8.5e-14	12.4946	0.0052	0.0010	94	0.671	0.976	83.9 ± 0.8
900	9.2e-14	12.5661	0.0011	0.0008	458	0.733	0.982	84.4 ± 0.8
925	9.4e-14	12.6617	-0.0033	0.0007	<0.001	0.797	0.985	85.0 ± 0.8
950	7.8e-14	12.7263	-0.0098	0.0006	<0.001	0.849	0.986	85.4 ± 0.8
1000	1.1e-13	12.6826	-0.0044	0.0009	<0.001	0.919	0.979	85.1 ± 0.8
1025	5.4e-14	12.9796	-0.0180	0.0007	<0.001	0.955	0.984	87.1 ± 0.9
1050	3.1e-14	13.1875	-0.0539	0.0002	<0.001	0.975	0.995	88.4 ± 0.9
1075	2.1e-14	13.5983	-0.0783	-0.0008	<0.001	0.988	1.000	91.1 ± 1.0
1100	1.2e-14	14.2912	-0.0897	-0.0023	<0.001	0.996	1.000	95.6 ± 1.1
1300	8.8e-15	15.0323	-0.1288	0.0159	<0.001	1.000	0.762	100.5 ± 1.7

Total fusion age, TFA= 85.12 ± 0.83 Ma (including J)
Weighted mean plateau age, WMPA= 84.98 ± 0.83 Ma (including J)
Inverse isochron age =85.28 ± 0.92 Ma. (MSWD =91.36; 40Ar/36Ar=276.8 ± 47.1)
Steps used: 600, 650, 675, 700, 725, 750, 775, 800, 825, 850, 875, 900, 925, 950, 1000, (2–16/21 or 90% ∑ 39Ar)

Sample: 94-JT-79 , Orthogneiss **Mineral:** White Mica J=0.0038020
Lat: 67°25.2' N **Long:** 155°02.2' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
600	3.8e-14	13.4300	0.0396	0.0147	12	0.021	0.756	89.8 ± 1.1
650	3.1e-14	12.5906	0.0209	0.0074	23	0.042	0.851	84.4 ± 0.9
700	5.0e-14	12.5758	0.0151	0.0075	32	0.076	0.850	84.3 ± 0.8
725	5.9e-14	12.7866	0.0107	0.0065	46	0.117	0.869	85.6 ± 0.9
750	9.5e-14	12.7837	0.0089	0.0042	55	0.185	0.911	85.6 ± 0.8
775	1.4e-13	12.7952	0.0087	0.0027	56	0.286	0.941	85.7 ± 0.8
800	1.3e-13	12.6984	0.0115	0.0018	43	0.387	0.959	85.1 ± 0.8
825	1.1e-13	12.7180	0.0245	0.0017	20	0.470	0.963	85.2 ± 0.8
850	9.1e-14	12.5930	0.0253	0.0021	19	0.539	0.954	84.4 ± 0.8
900	1.5e-13	12.2594	0.0445	0.0029	11	0.651	0.935	82.2 ± 0.8
950	2.2e-13	12.4395	0.0090	0.0023	55	0.824	0.947	83.4 ± 0.8
1000	1.9e-13	12.6358	0.0102	0.0010	48	0.969	0.977	84.6 ± 0.8
1050	2.1e-14	12.7945	0.1059	0.0023	4.6	0.984	0.950	85.7 ± 0.9
1100	1.2e-14	13.0474	0.2709	0.0024	1.8	0.993	0.950	87.3 ± 1.0
1300	1.0e-14	13.2401	0.4186	0.0054	1.2	1.000	0.894	88.6 ± 1.1

Total fusion age, TFA= 84.59 ± 0.83 Ma (including J)
Weighted mean plateau age, WMPA= 84.18 ± 0.82 Ma (including J)
Inverse isochron age =83.81 ± 1.00 Ma. (MSWD =87.09; 40Ar/36Ar=325.1 ± 28.7)
Steps used: 650, 700, 725, 750, 775, 800, 825, 850, 900, 950, 1000, (2–12/15 or 95% ∑ 39Ar)

Sample: 94-JT-79, Orthogneiss **Mineral:** K-feldspar J=0.0038240
Lat: 67°25.2' N **Long:** 155°02.2' W

T(°C)	40(mol)	40/39	37/39	36/39	K/Ca	∑ 39Ar	40Ar*	Age (Ma)
600	1.0e-13	9.1850	0.0240	0.0027	20	0.051	0.921	62.3 ± 0.1

700	1.3e-13	6.7443	0.0121	0.0006	40	0.140	0.976	45.9 ± 0.1
800	1.9e-13	6.9553	0.0114	0.0003	43	0.266	0.986	47.4 ± 0.1
900	2.3e-13	7.1561	0.0157	0.0004	31	0.420	0.984	48.7 ± 0.1
950	1.3e-13	7.3171	0.0184	0.0006	27	0.505	0.976	49.8 ± 0.1
1000	1.1e-13	7.4804	0.0214	0.0011	23	0.574	0.957	50.9 ± 0.1
1050	1.1e-13	7.7671	0.0195	0.0020	25	0.638	0.931	52.8 ± 0.1
1100	1.9e-13	8.3028	0.0210	0.0031	23	0.737	0.901	56.4 ± 0.1
1150	1.9e-13	8.7550	0.0175	0.0033	28	0.832	0.899	59.4 ± 0.1
1200	1.2e-13	9.5864	0.0147	0.0026	33	0.886	0.925	64.9 ± 0.1
1300	6.1e-14	9.5443	0.0153	0.0023	32	0.915	0.934	64.7 ± 0.2
1400	1.7e-13	9.4361	0.0073	0.0013	67	1.000	0.960	63.9 ± 0.1

Total fusion age, TFA= 53.91 ± 0.11 Ma (including J)
Weighted mean plateau age, WMPA= 48.20 ± 0.10 Ma (including J)
Inverse isochron age =47.77 ± 0.22 Ma. (MSWD =17.94; 40Ar/36Ar=707.4 ± 20.5)
Steps used: 900, 950, 1000, 1050, 1100, (4–8/12 or 31.7% ∑ 39Ar)