

Relative Abundances			36Ar [fA]	%1σ	37Ar [fA]	%1σ	38Ar [fA]	%1σ	39Ar [fA]	%1σ	40Ar [fA]	%1σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
20F28815	0.5 %	✓	0.1788191	0.469	1.71919	0.742	0.186200	5.458	10.4566	0.106	60.7439	0.220	0.51697 ± 0.14913	1.55 ± 0.45	8.90	0.78	2.62 ± 0.04
20F28817	0.7 %	✓	0.0475006	1.331	0.90376	1.463	0.094083	10.773	6.3876	0.157	18.7073	0.713	0.63296 ± 0.09546	1.90 ± 0.29	21.61	0.48	3.04 ± 0.09
20F28818	0.9 %	✓	0.0193390	2.943	0.41853	3.234	0.048945	21.266	3.2401	0.292	7.8097	1.707	0.56890 ± 0.14484	1.71 ± 0.44	23.60	0.24	3.33 ± 0.22
20F28820	1.1 %	✓	0.0172808	3.264	0.64106	2.196	0.058406	17.556	4.0077	0.246	7.8616	1.696	0.63679 ± 0.11517	1.91 ± 0.35	32.46	0.30	2.69 ± 0.12
20F28821	1.3 %	✓	0.0178690	3.122	0.31554	4.183	0.072289	14.155	4.6915	0.206	8.3898	1.586	0.61175 ± 0.09804	1.84 ± 0.29	34.21	0.35	6.39 ± 0.54
20F28823	1.5 %	✓	0.0329038	1.805	1.94186	0.663	0.175074	5.808	12.2694	0.092	17.8216	0.749	0.63328 ± 0.04283	1.90 ± 0.13	43.59	0.91	2.72 ± 0.04
20F28824	1.8 %	✓	0.0308678	1.888	2.89232	0.478	0.281405	3.640	18.4570	0.071	21.4904	0.621	0.65814 ± 0.02772	1.98 ± 0.08	56.52	1.37	2.74 ± 0.03
20F28825	2.2 %	✓	0.0778829	0.904	2.33378	0.610	0.466654	2.416	31.2071	0.053	43.2475	0.308	0.61729 ± 0.02592	1.86 ± 0.08	44.54	2.32	5.75 ± 0.07
20F28827	2.6 %	✓	0.0531759	1.231	6.45374	0.255	0.591931	1.723	39.2538	0.050	41.0038	0.325	0.63759 ± 0.01632	1.92 ± 0.05	61.03	2.92	2.62 ± 0.01
20F28828	3.1 %	✓	0.0646146	0.990	11.46236	0.193	0.967284	1.026	64.1324	0.044	59.7387	0.224	0.63341 ± 0.01079	1.90 ± 0.03	67.99	4.77	2.41 ± 0.01
20F28829	3.6 %	✓	0.1732040	0.500	10.13993	0.215	1.582791	0.675	104.4695	0.042	115.9681	0.115	0.60331 ± 0.01443	1.81 ± 0.04	54.35	7.77	4.43 ± 0.02
20F28831	4.1 %	✓	0.2764170	0.386	31.26793	0.152	1.946712	0.569	127.3621	0.042	160.3160	0.084	0.60553 ± 0.01796	1.82 ± 0.05	48.10	9.47	1.75 ± 0.01
20F28832	4.7 %	✓	0.1664984	0.465	34.98575	0.154	1.874760	0.573	122.1605	0.042	123.4483	0.109	0.61126 ± 0.01136	1.84 ± 0.03	60.48	9.08	1.50 ± 0.00
20F28833	5.3 %	✓	0.1190726	0.618	26.84837	0.178	2.651743	0.374	175.9306	0.041	139.8567	0.096	0.59726 ± 0.00599	1.80 ± 0.02	75.12	13.08	2.82 ± 0.01
20F28835	6.0 %	✓	0.1291792	0.572	77.09191	0.146	2.686580	0.402	177.5456	0.041	142.0546	0.094	0.61039 ± 0.00581	1.84 ± 0.02	76.27	13.20	0.99 ± 0.00
20F28836	6.8 %		0.1011599	5.863	114.90429	0.141	2.095433	0.470	137.0145	0.042	112.0959	0.120	0.65919 ± 0.02727	1.98 ± 0.08	80.53	10.18	0.51 ± 0.00
20F28837	7.5 %		0.1269793	0.637	89.39006	0.143	1.417326	0.746	92.4136	0.043	85.6777	0.157	0.58174 ± 0.01094	1.75 ± 0.03	62.71	6.87	0.44 ± 0.00
20F28839	8.3 %		0.1509242	0.541	93.87331	0.145	1.015193	1.002	66.1210	0.044	75.7376	0.177	0.55629 ± 0.01769	1.67 ± 0.05	48.52	4.91	0.30 ± 0.00
20F28840	9.1 %		0.1066245	0.695	77.20806	0.149	0.606937	1.680	39.1173	0.050	47.6634	0.280	0.53846 ± 0.02242	1.62 ± 0.07	44.14	2.91	0.22 ± 0.00
20F28841	10.1 %		0.1011334	0.700	67.80701	0.146	0.457989	2.175	28.6624	0.056	40.5905	0.329	0.52010 ± 0.02955	1.56 ± 0.09	36.67	2.13	0.18 ± 0.00
20F28843	11.2 %		0.0736780	0.894	53.81731	0.147	0.348396	2.845	21.8751	0.063	29.1882	0.457	0.49591 ± 0.03133	1.49 ± 0.09	37.11	1.62	0.17 ± 0.00
20F28844	12.4 %		0.0687674	0.926	40.11983	0.153	0.261911	3.992	15.5680	0.076	24.6324	0.541	0.42810 ± 0.04306	1.29 ± 0.13	27.01	1.16	0.17 ± 0.00
20F28845	13.6 %		0.0799893	0.860	33.59378	0.154	0.195889	5.431	11.5833	0.097	27.0492	0.494	0.43626 ± 0.06609	1.31 ± 0.20	18.65	0.86	0.15 ± 0.00
20F28847	14.9 %		0.1763177	0.523	26.04259	0.155	0.155803	6.787	8.7437	0.119	54.5553	0.245	0.23299 ± 0.17303	0.70 ± 0.52	3.73	0.65	0.14 ± 0.00
20F28848	16.2 %		0.0499734	1.238	24.46832	0.172	0.123873	8.496	6.9372	0.152	15.8347	0.842	0.34371 ± 0.08448	1.03 ± 0.25	15.02	0.51	0.12 ± 0.00
20F28849	17.6 %		0.0425604	1.399	20.43120	0.165	0.079004	12.896	5.1377	0.204	12.6599	1.054	0.22758 ± 0.10651	0.68 ± 0.32	9.21	0.38	0.11 ± 0.00
20F28851	19.0 %		0.0386742	1.630	18.53430	0.164	0.068907	14.280	3.8403	0.250	11.6114	1.149	0.30436 ± 0.14273	0.92 ± 0.43	10.04	0.28	0.09 ± 0.00
20F28852	20.5 %		0.0626785	1.044	17.90890	0.168	0.076080	13.397	3.5782	0.261	17.9547	0.743	0.00257 ± 0.18927	0.01 ± 0.57	0.05	0.27	0.09 ± 0.00
20F28854	21.8 %		0.0321352	1.827	19.82128	0.160	0.067260	15.543	2.9902	0.308	8.7288	1.528	0.14101 ± 0.16826	0.42 ± 0.51	4.81	0.22	0.06 ± 0.00
Σ			2.6162204	0.268	907.33629	0.039	20.654860	0.270	1345.1539	0.012	1532.4378	0.047					

Information on Analysis and Constants Used in Calculations	
Project = <b>MCCLAUGHRY (19-20)</b> Sample = <b>89A MCB-DRJ 18</b> Material = <b>Groundmass</b> Location = <b>Badger Lake</b> Region = <b>Eastern Cascades</b> Analyst = <b>Dan Miggins</b> Irradiation = <b>20-OSU-04 (4B21-20)</b> Position = <b>X: 0   Y: 0   Z/H: 28.44846 mm</b> FCT-NM Age = <b>28.201 ± 0.023 Ma</b> FCT-NM Reference = <b>Kuiper et al (2008)</b> FCT-NM 40Ar/39Ar Ratio = <b>9.44576 ± 0.00453</b> FCT-NM J-value = <b>0.00164365 ± 0.00000079</b> Air Shot 40Ar/36Ar = <b>297.0980 ± 0.3535</b> Air Shot MDF = <b>1.00123182 ± 0.00039756 (LIN)</b> Experiment Type = <b>Incremental Heating</b> Extraction Method = <b>Bulk Laser Heating</b> Heating = <b>64 sec</b> Isolation = <b>6.12 min</b> Instrument = <b>ARGUS-VI-F</b> Preferred Age = <b>Plateau Age</b> Age Classification = <b>Crystallization Age</b> IGSN = <b>Undefined</b> Rock Class = <b>Undefined</b> Lithology = <b>Undefined</b> Lat-Lon = <b>Undefined - Undefined</b>	Age Equations = <b>Min et al. (2000)</b> Negative Intensities = <b>Allowed</b> Collector Calibrations = <b>36Ar</b> Decay 40K = <b>5.463 ± 0.107 E-10 1/a</b> Decay 39Ar = <b>2.940 ± 0.016 E-07 1/h</b> Decay 37Ar = <b>8.230 ± 0.012 E-04 1/h</b> Decay 36Cl = <b>2.257 ± 0.015 E-06 1/a</b> Decay 40K(EC,β <sup>+</sup> ) = <b>0.580 ± 0.014 E-10 1/a</b> Decay 40K(β <sup>-</sup> ) = <b>4.884 ± 0.099 E-10 1/a</b> Atmospheric 40/36(a) = <b>310.24 ± 4.05</b> Atmospheric 38/36(a) = <b>0.1885 ± 0.0003</b> Production 39/37(ca) = <b>0.0006425 ± 0.00000059</b> Production 38/37(ca) = <b>0.0001800 ± 0.0000173</b> Production 36/37(ca) = <b>0.0002703 ± 0.00000005</b> Production 40/39(k) = <b>0.000607 ± 0.000059</b> Production 38/39(k) = <b>0.012077 ± 0.000011</b> Production 36/38(cl) = <b>262.80 ± 1.71</b> Scaling Ratio K/Ca = <b>0.430</b> Abundance Ratio 40K/K = <b>1.1700 ± 0.0100 E-04</b> Atomic Weight K = <b>39.0983 ± 0.0001 g</b>

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau Error Mean		0.61011 ± 0.00723 ± 1.19%	1.83 ± 0.02 ± 1.19%	4.67 0%	67.04 15	1.47 ± 0.35
			Full External Error ± 0.10 Analytical Error ± 0.02	1.76 2.1616	2σ Confidence Limit Error Magnification	
Total Fusion Age		0.59209 ± 0.00473 ± 0.80%	1.78 ± 0.01 ± 0.80%		29	0.64 ± 0.00
			Full External Error ± 0.09 Analytical Error ± 0.01			
Normal Isochron Error Chron	310.31 ± 7.78 ± 2.51%	0.60667 ± 0.00965 ± 1.59%	1.82 ± 0.03 ± 1.59%	11.59 0%	67.04 15	
			Full External Error ± 0.10 Analytical Error ± 0.03	1.78 3.4045	2σ Confidence Limit Error Magnification Number of Iterations	
				26 0.0000055458	Convergence	
Inverse Isochron Error Chron	310.36 ± 8.06 ± 2.60%	0.60744 ± 0.01000 ± 1.65%	1.83 ± 0.03 ± 1.65%	12.23 0%	67.04 15	
			Full External Error ± 0.10 Analytical Error ± 0.03	1.78 3.4974	2σ Confidence Limit Error Magnification Number of Iterations	
Notes				4 0.0003857577	Convergence	
Excess Initial 40Ar/36Ar = 310.24 ± 1.31 (%SD).				66%	Spreading Factor	

Incremental Heating			36Ar(a) [fA]	37Ar(ca) [fA]	38Ar(cl) [fA]	39Ar(k) [fA]	40Ar(r) [fA]	Age ± 2σ (Ma)	40Ar(r) (%)	39Ar(k) (%)	K/Ca ± 2σ
20F28815	0.5 %	✓	0.1783533	1.71919	0.0259995	10.4555	5.40518	1.55 ± 0.45	8.90	0.78	2.62 ± 0.04
20F28817	0.7 %	✓	0.0472560	0.90376	0.0078762	6.3870	4.04274	1.90 ± 0.29	21.61	0.48	3.04 ± 0.09
20F28818	0.9 %	✓	0.0192256	0.41853	0.0061180	3.2399	1.84318	1.71 ± 0.44	23.60	0.24	3.33 ± 0.22
20F28820	1.1 %	✓	0.0171072	0.64106	0.0066698	4.0073	2.55177	1.91 ± 0.35	32.46	0.30	2.69 ± 0.12
20F28821	1.3 %	✓	0.0177832	0.31554	0.0122241	4.6913	2.86988	1.84 ± 0.29	34.21	0.35	6.39 ± 0.54
20F28823	1.5 %	✓	0.0323781	1.94186	0.0204596	12.2681	7.76919	1.90 ± 0.13	43.59	0.91	2.72 ± 0.04
20F28824	1.8 %	✓	0.0300838	2.89232	0.0523312	18.4551	12.14602	1.98 ± 0.08	56.52	1.37	2.74 ± 0.03
20F28825	2.2 %	✓	0.0772490	2.33378	0.0748028	31.2056	19.26284	1.86 ± 0.08	44.54	2.32	5.75 ± 0.07
20F28827	2.6 %	✓	0.0514271	6.45374	0.1070572	39.2496	25.02526	1.92 ± 0.05	61.03	2.92	2.62 ± 0.01
20F28828	3.1 %	✓	0.0615090	11.46236	0.1791884	64.1250	40.61726	1.90 ± 0.03	67.99	4.77	2.41 ± 0.01
20F28829	3.6 %	✓	0.1704513	10.13993	0.2872362	104.4630	63.02386	1.81 ± 0.04	54.35	7.77	4.43 ± 0.02
20F28831	4.1 %	✓	0.2679507	31.26793	0.3526658	127.3420	77.10965	1.82 ± 0.05	48.10	9.47	1.75 ± 0.01
20F28832	4.7 %	✓	0.1570267	34.98575	0.3638023	122.1380	74.65815	1.84 ± 0.03	60.48	9.08	1.50 ± 0.00
20F28833	5.3 %	✓	0.1117948	26.84837	0.5013317	175.9133	105.06671	1.80 ± 0.02	75.12	13.08	2.82 ± 0.01
20F28835	6.0 %	✓	0.1083202	77.09191	0.5086647	177.4961	108.34162	1.84 ± 0.02	76.27	13.20	0.99 ± 0.00
20F28836	6.8 %		0.0700844	114.90429	0.4077071	136.9406	90.26983	1.98 ± 0.08	80.53	10.18	0.51 ± 0.00
20F28837	7.5 %		0.1028061	89.39006	0.2664717	92.3561	53.72708	1.75 ± 0.03	62.71	6.87	0.44 ± 0.00
20F28839	8.3 %		0.1255430	93.87331	0.1768163	66.0607	36.74907	1.67 ± 0.05	48.52	4.91	0.30 ± 0.00
20F28840	9.1 %		0.0857508	77.20806	0.1050546	39.0677	21.03640	1.62 ± 0.07	44.14	2.91	0.22 ± 0.00
20F28841	10.1 %		0.0828017	67.80701	0.0845464	28.6188	14.88476	1.56 ± 0.09	36.67	2.13	0.18 ± 0.00
20F28843	11.2 %		0.0591285	53.81731	0.0637955	21.8405	10.83092	1.49 ± 0.09	37.11	1.62	0.17 ± 0.00
20F28844	12.4 %		0.0579207	40.11983	0.0560680	15.5422	6.65363	1.29 ± 0.13	27.01	1.16	0.17 ± 0.00
20F28845	13.6 %		0.0709074	33.59378	0.0368454	11.5617	5.04389	1.31 ± 0.20	18.65	0.86	0.15 ± 0.00
20F28847	14.9 %		0.1692778	26.04259	0.0138102	8.7270	2.03327	0.70 ± 0.52	3.73	0.65	0.14 ± 0.00
20F28848	16.2 %		0.0433585	24.46832	0.0277049	6.9215	2.37897	1.03 ± 0.25	15.02	0.51	0.12 ± 0.00
20F28849	17.6 %		0.0370376	20.43120	0.0064559	5.1246	1.16624	0.68 ± 0.32	9.21	0.38	0.11 ± 0.00
20F28851	19.0 %		0.0336638	18.53430	0.0129904	3.8284	1.16521	0.92 ± 0.43	10.04	0.28	0.09 ± 0.00
20F28852	20.5 %		0.0578369	17.90890	0.0188786	3.5667	0.00918	0.01 ± 0.57	0.05	0.27	0.09 ± 0.00
20F28854	21.8 %		0.0267766	19.82128	0.0226861	2.9775	0.41984	0.42 ± 0.51	4.81	0.22	0.06 ± 0.00
Σ			2.3708100	907.33629	3.8062588	1344.5709	796.10160				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Project = MCCLAUGHRY (19-20) Sample = 89A MCB-DRJ 18 Material = Groundmass Location = Badger Lake Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B21-20) J = 0.00164365 ± 0.00000079 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	0.61011 ± 0.00723	1.83 ± 0.02	4.67	67.04	1.47 ± 0.35
	Error Mean	± 1.19%	± 1.19%	0%	15	
			Full External Error ± 0.10	1.76	2σ Confidence Limit	
			Analytical Error ± 0.02	2.1616	Error Magnification	
	Total Fusion Age	0.59209 ± 0.00473 ± 0.80%	1.78 ± 0.01 ± 0.80%		29	0.64 ± 0.00
			Full External Error ± 0.09			
			Analytical Error ± 0.01			

Normal Isochron			39(k)/36(a) ± 2σ	40(a+r)/36(a) ± 2σ	r.i.
20F28815	0.5 %	✓	58.62 ± 0.57	340.55 ± 3.54	0.8837
20F28817	0.7 %	✓	135.16 ± 3.64	395.79 ± 12.00	0.8765
20F28818	0.9 %	✓	168.52 ± 10.03	406.11 ± 27.76	0.8620
20F28820	1.1 %	✓	234.24 ± 15.49	459.40 ± 34.07	0.8867
20F28821	1.3 %	✓	263.80 ± 16.59	471.62 ± 33.16	0.8905
20F28823	1.5 %	✓	378.90 ± 13.92	550.19 ± 21.81	0.9246
20F28824	1.8 %	✓	613.46 ± 23.78	713.98 ± 29.05	0.9515
20F28825	2.2 %	✓	403.96 ± 7.37	559.60 ± 10.77	0.9457
20F28827	2.6 %	✓	763.21 ± 19.44	796.86 ± 20.93	0.9681
20F28828	3.1 %	✓	1042.53 ± 21.70	970.59 ± 20.65	0.9767
20F28829	3.6 %	✓	612.86 ± 6.25	679.99 ± 7.08	0.9718
20F28831	4.1 %	✓	475.24 ± 3.81	598.02 ± 4.87	0.9732
20F28832	4.7 %	✓	777.82 ± 7.71	785.69 ± 7.94	0.9731
20F28833	5.3 %	✓	1573.54 ± 20.78	1250.06 ± 16.65	0.9876
20F28835	6.0 %	✓	1638.62 ± 22.45	1310.44 ± 18.09	0.9888
20F28836	6.8 %		1953.94 ± 330.75	1598.26 ± 270.57	0.9999
20F28837	7.5 %		898.35 ± 14.20	832.85 ± 13.40	0.9794
20F28839	8.3 %		526.20 ± 6.88	602.96 ± 8.15	0.9629
20F28840	9.1 %		455.60 ± 7.91	555.56 ± 10.12	0.9498
20F28841	10.1 %		345.63 ± 5.93	490.00 ± 8.99	0.9315
20F28843	11.2 %		369.37 ± 8.25	493.42 ± 11.89	0.9237
20F28844	12.4 %		268.34 ± 5.92	425.11 ± 10.43	0.8952
20F28845	13.6 %		163.05 ± 3.18	381.37 ± 8.31	0.8868
20F28847	14.9 %		51.55 ± 0.57	322.25 ± 3.85	0.8910
20F28848	16.2 %		159.63 ± 4.58	365.11 ± 12.10	0.8564
20F28849	17.6 %		138.36 ± 4.49	341.73 ± 13.14	0.8298
20F28851	19.0 %		113.72 ± 4.30	344.85 ± 15.15	0.8448
20F28852	20.5 %		61.67 ± 1.43	310.40 ± 8.40	0.8143
20F28854	21.8 %		111.20 ± 4.93	325.92 ± 17.42	0.8125

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron Error Chron	310.31 ± 7.78 ± 2.51%	0.60667 ± 0.00965 ± 1.59%	1.82 ± 0.03 ± 1.59% Full External Error ± 0.10 Analytical Error ± 0.03	11.59 0%
Statistics	2σ Confidence Limit Error Magnification Number of Data Points	1.78 3.4045 15	Convergence Number of Iterations Calculated Line	0.000005545796 26 Weighted York-2

Inverse Isochron			39(k)/40(a+r) ± 2σ	36(a)/40(a+r) ± 2σ	r.i.
20F28815	0.5 %	✓	0.1721426 ± 0.0008406	0.00293646 ± 0.00003050	0.3816
20F28817	0.7 %	✓	0.3414891 ± 0.0049843	0.00252659 ± 0.00007659	0.4593
20F28818	0.9 %	✓	0.4149581 ± 0.0143778	0.00246238 ± 0.00016831	0.4925
20F28820	1.1 %	✓	0.5098856 ± 0.0174820	0.00217674 ± 0.00016144	0.4527
20F28821	1.3 %	✓	0.5593513 ± 0.0178957	0.00212035 ± 0.00014909	0.4475
20F28823	1.5 %	✓	0.6886716 ± 0.0103962	0.00181755 ± 0.00007204	0.3752
20F28824	1.8 %	✓	0.8592074 ± 0.0107498	0.00140060 ± 0.00005699	0.3035
20F28825	2.2 %	✓	0.7218749 ± 0.0045135	0.00178699 ± 0.00003438	0.3158
20F28827	2.6 %	✓	0.9577754 ± 0.0063067	0.00125493 ± 0.00003297	0.2449
20F28828	3.1 %	✓	1.0741249 ± 0.0049041	0.00103030 ± 0.00002192	0.2067
20F28829	3.6 %	✓	0.9012835 ± 0.0022152	0.00147062 ± 0.00001532	0.2087
20F28831	4.1 %	✓	0.7947021 ± 0.0014892	0.00167220 ± 0.00001361	0.1847
20F28832	4.7 %	✓	0.9899809 ± 0.0023081	0.00127277 ± 0.00001287	0.2011
20F28833	5.3 %	✓	1.2587722 ± 0.0026310	0.00079996 ± 0.00001065	0.1329
20F28835	6.0 %	✓	1.2504404 ± 0.0025792	0.00076310 ± 0.00001054	0.1261
20F28836	6.8 %		1.2225444 ± 0.0031106	0.00062568 ± 0.00010592	0.0134
20F28837	7.5 %		1.0786542 ± 0.0035054	0.00120070 ± 0.00001932	0.1880
20F28839	8.3 %		0.8726929 ± 0.0031852	0.00165848 ± 0.00002243	0.2539
20F28840	9.1 %		0.8200660 ± 0.0046756	0.00179998 ± 0.00003279	0.3032
20F28841	10.1 %		0.7053631 ± 0.0047096	0.00204080 ± 0.00003745	0.3537
20F28843	11.2 %		0.7486055 ± 0.0069119	0.00202669 ± 0.00004886	0.3758
20F28844	12.4 %		0.6312089 ± 0.0069031	0.00235230 ± 0.00005771	0.4370
20F28845	13.6 %		0.4275423 ± 0.0043049	0.00262210 ± 0.00005711	0.4451
20F28847	14.9 %		0.1599813 ± 0.0008714	0.00310317 ± 0.00003706	0.3683
20F28848	16.2 %		0.4372227 ± 0.0074812	0.00273892 ± 0.00009076	0.4999
20F28849	17.6 %		0.4048862 ± 0.0086932	0.00292630 ± 0.00011254	0.5381
20F28851	19.0 %		0.3297741 ± 0.0077567	0.00289978 ± 0.00012741	0.5109
20F28852	20.5 %		0.1986763 ± 0.0031312	0.00322166 ± 0.00008722	0.5177
20F28854	21.8 %		0.3411795 ± 0.0106377	0.00306824 ± 0.00016403	0.5603

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron Error Chron	310.36 ± 8.06 ± 2.60%	0.60744 ± 0.01000 ± 1.65%	1.83 ± 0.03 ± 1.65% Full External Error ± 0.10 Analytical Error ± 0.03	12.23 0%
Statistics	2σ Confidence Limit Error Magnification Number of Data Points Spreading Factor	1.78 3.4974 15 66.0%	Convergence Number of Iterations Calculated Line	0.0003857577 4 Weighted York-2

Degassing Patterns			36Ar(a)		36Ar(c)		36Ar(ca)		36Ar(cl)		37Ar(ca)		38Ar(a)		38Ar(c)		38Ar(k)		38Ar(ca)		38Ar(cl)		39Ar(k)		39Ar(ca)		40Ar(r)		40Ar(a)		40Ar(c)		40Ar(k)	
			[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ	[fA]	%1σ
20F28815	0.5 %	✓	0.1783533	0.47	0.0000000	0.00	0.0004647	0.76	0.0000011	39.14	1.71919	0.74	0.0336196	0.50	0.0000000	0.00	0.126271	0.14	0.0003095	9.66	0.0259995	39.15	10.4555	0.11	0.0011046	1.18	5.40518	14.42	55.33234	1.39	0.0000000	0.00	0.0063465	9.65
20F28817	0.7 %	✓	0.0472560	1.34	0.0000000	0.00	0.0002443	1.47	0.0000003	128.73	0.90376	1.46	0.0089078	1.35	0.0000000	0.00	0.077136	0.18	0.0001627	9.74	0.0078762	128.74	6.3870	0.16	0.0005807	1.73	4.04274	7.54	14.66070	1.87	0.0000000	0.00	0.0038769	9.65
20F28818	0.9 %	✓	0.0192256	2.96	0.0000000	0.00	0.0001131	3.24	0.0000003	170.16	0.41853	3.23	0.0036240	2.96	0.0000000	0.00	0.039128	0.31	0.0000753	10.16	0.0061180	170.17	3.2399	0.29	0.0002689	3.36	1.84318	12.73	5.96455	3.24	0.0000000	0.00	0.0019666	9.65
20F28820	1.1 %	✓	0.0171072	3.30	0.0000000	0.00	0.0001733	2.20	0.0000003	153.77	0.64106	2.20	0.0032247	3.30	0.0000000	0.00	0.048396	0.26	0.0001154	9.88	0.0066698	153.77	4.0073	0.25	0.0004119	2.38	2.55177	9.04	5.30735	3.55	0.0000000	0.00	0.0024324	9.65
20F28821	1.3 %	✓	0.0177832	3.14	0.0000000	0.00	0.0000853	4.19	0.0000005	83.73	0.31554	4.18	0.0033521	3.14	0.0000000	0.00	0.056656	0.22	0.0000568	10.50	0.0122241	83.74	4.6913	0.21	0.0002027	4.28	2.86988	8.01	5.51707	3.40	0.0000000	0.00	0.0028476	9.65
20F28823	1.5 %	✓	0.0323781	1.83	0.0000000	0.00	0.0005249	0.68	0.0000008	49.76	1.94186	0.66	0.0061033	1.84	0.0000000	0.00	0.148162	0.13	0.0003495	9.65	0.0204596	49.76	12.2681	0.09	0.0012476	1.13	7.76919	3.38	10.04498	2.25	0.0000000	0.00	0.0074467	9.65
20F28824	1.8 %	✓	0.0300838	1.94	0.0000000	0.00	0.0007818	0.51	0.0000022	19.64	2.89232	0.48	0.0056708	1.94	0.0000000	0.00	0.222882	0.11	0.0005206	9.64	0.0523312	19.66	18.4551	0.07	0.0018583	1.04	12.14602	2.10	9.33321	2.34	0.0000000	0.00	0.0112023	9.65
20F28825	2.2 %	✓	0.0772490	0.91	0.0000000	0.00	0.0006308	0.63	0.0000031	15.16	2.33378	0.61	0.0145614	0.92	0.0000000	0.00	0.376870	0.10	0.0004201	9.65	0.0748028	15.19	31.2056	0.05	0.0014995	1.10	19.26284	2.10	23.96572	1.59	0.0000000	0.00	0.0189418	9.65
20F28827	2.6 %	✓	0.0514271	1.27	0.0000000	0.00	0.0017444	0.31	0.0000044	9.65	6.45374	0.25	0.0096940	1.28	0.0000000	0.00	0.474018	0.10	0.0011617	9.63	0.1070572	9.69	39.2496	0.05	0.0041465	0.95	25.02526	1.28	15.95473	1.82	0.0000000	0.00	0.0238245	9.65
20F28828	3.1 %	✓	0.0615090	1.04	0.0000000	0.00	0.0030983	0.26	0.0000074	5.74	11.46236	0.19	0.0115944	1.05	0.0000000	0.00	0.774438	0.10	0.0020632	9.63	0.1791884	5.81	64.1250	0.04	0.0073646	0.94	40.61726	0.85	19.08254	1.67	0.0000000	0.00	0.0389239	9.65
20F28829	3.6 %	✓	0.1704513	0.51	0.0000000	0.00	0.0027408	0.27	0.0000119	4.02	10.13993	0.21	0.0321301	0.53	0.0000000	0.00	1.261599	0.10	0.0018252	9.63	0.2872362	4.12	104.4630	0.04	0.0065149	0.94	63.02386	1.19	52.88081	1.40	0.0000000	0.00	0.0634090	9.65
20F28831	4.1 %	✓	0.2679507	0.40	0.0000000	0.00	0.0084517	0.23	0.0000146	3.49	31.26793	0.15	0.0505087	0.43	0.0000000	0.00	1.537910	0.10	0.0056282	9.63	0.3526658	3.61	127.3420	0.04	0.0200896	0.93	77.10965	1.48	83.12904	1.37	0.0000000	0.00	0.0772966	9.65
20F28832	4.7 %	✓	0.1570267	0.49	0.0000000	0.00	0.0094566	0.23	0.0000150	3.30	34.98575	0.15	0.0295995	0.52	0.0000000	0.00	1.475061	0.10	0.0062974	9.63	0.3638023	3.42	122.1380	0.04	0.0224783	0.93	74.65815	0.93	48.71597	1.40	0.0000000	0.00	0.0741378	9.65
20F28833	5.3 %	✓	0.1117948	0.66	0.0000000	0.00	0.0072571	0.25	0.0000207	2.47	26.84837	0.18	0.0210733	0.68	0.0000000	0.00	2.124505	0.10	0.0048327	9.63	0.5013317	2.64	175.9133	0.04	0.0172501	0.94	105.06671	0.50	34.68321	1.46	0.0000000	0.00	0.1067794	9.65
20F28835	6.0 %	✓	0.1083202	0.68	0.0000000	0.00	0.0208379	0.22	0.0000210	2.60	77.09191	0.15	0.0204184	0.70	0.0000000	0.00	2.143620	0.10	0.0138765	9.63	0.5086647	2.76	177.4961	0.04	0.0495316	0.93	108.34162	0.47	33.60525	1.47	0.0000000	0.00	0.1077401	9.65
20F28836	6.8 %		0.0700844	8.46	0.0000000	0.00	0.0310586	0.22	0.0000169	2.88	114.90429	0.14	0.0132109	8.47	0.0000000	0.00	1.653832	0.10	0.0206828	9.63	0.4077071	3.02	136.9406	0.04	0.0738260	0.93	90.26983	2.07	21.74299	8.56	0.0000000	0.00	0.0831230	9.65
20F28837	7.5 %		0.1028061	0.79	0.0000000	0.00	0.0241621	0.22	0.0000110	4.28	89.39006	0.14	0.0193790	0.80	0.0000000	0.00	1.115385	0.10	0.0160902	9.63	0.2664717	4.38	92.3561	0.04	0.0574331	0.93	53.72708	0.94	31.89457	1.53	0.0000000	0.00	0.0560602	9.65
20F28839	8.3 %		0.1255430	0.65	0.0000000	0.00	0.0253740	0.22	0.0000073	6.03	93.87331	0.15	0.0236648	0.67	0.0000000	0.00	0.797815	0.10	0.0168972	9.63	0.1768163	6.10	66.0607	0.04	0.0603136	0.93	36.74907	1.59	38.94845	1.46	0.0000000	0.00	0.0400988	9.65
20F28840	9.1 %		0.0857508	0.87	0.0000000	0.00	0.0208693	0.23	0.0000044	9.92	77.20806	0.15	0.0161640	0.88	0.0000000	0.00	0.471821	0.10	0.0138975	9.63	0.1050546	9.96	39.0677	0.05	0.0496062	0.93	21.03640	2.08	26.60333	1.57	0.0000000	0.00	0.0237141	9.65
20F28841	10.1 %		0.0828017	0.86	0.0000000	0.00	0.0183282	0.22	0.0000035	11.96	67.80701	0.15	0.0156081	0.87	0.0000000	0.00	0.345629	0.11	0.0122053	9.63	0.0845464	12.00	28.6188	0.06	0.0435660	0.93	14.88476	2.84	25.68840	1.56	0.0000000	0.00	0.0173716	9.65
20F28843	11.2 %		0.0591285	1.12	0.0000000	0.00	0.0145468	0.22	0.0000026	15.68	53.81731	0.15	0.0111457	1.13	0.0000000	0.00	0.263768	0.11	0.0096871	9.63	0.0637955	15.71	21.8405	0.06	0.0345776	0.93	10.83092	3.16	18.34404	1.72	0.0000000	0.00	0.0132572	9.65
20F28844	12.4 %		0.0579207	1.10	0.0000000	0.00	0.0108444	0.23	0.0000023	18.74	40.11983	0.15	0.0109180	1.11	0.0000000	0.00	0.187703	0.12	0.0072216	9.63	0.0560680	18.76	15.5422	0.08	0.0257770	0.93	6.65363	5.03	17.96931	1.71	0.0000000	0.00	0.0094341	9.65
20F28845	13.6 %		0.0709074	0.97	0.0000000	0.00	0.0090804	0.23	0.0000015	28.96	33.59378	0.15	0.0133660	0.98	0.0000000	0.00	0.139630	0.13	0.0060469	9.63	0.0368454	28.97	11.5617	0.10	0.0215840	0.93	5.04389	7.57	21.99831	1.63	0.0000000	0.00	0.0070179	9.65
20F28847	14.9 %		0.1692778	0.54	0.0000000	0.00	0.0070393	0.23	0.0000006	76.69	26.04259	0.16	0.0319089	0.57	0.0000000	0.00	0.105396	0.15	0.0046877	9.63	0.0138102	76.70	8.7270	0.12										

Additional Parameters			40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F28815	0.5 %	✓	5.809131	0.014182	0.164412	0.001233	0.017101	0.000082	25.292	1.652093	1.00017936	2.150E-12
20F28817	0.7 %	✓	2.928692	0.021369	0.141487	0.002082	0.007436	0.000100	25.310	1.652682	1.00017949	6.622E-13
20F28818	0.9 %	✓	2.410289	0.041746	0.129169	0.004194	0.005969	0.000177	25.319	1.652977	1.00017955	2.765E-13
20F28820	1.1 %	✓	1.961630	0.033618	0.159959	0.003534	0.004312	0.000141	25.338	1.653566	1.00017968	2.783E-13
20F28821	1.3 %	✓	1.788315	0.028598	0.067258	0.002816	0.003809	0.000119	25.347	1.653861	1.00017974	2.970E-13
20F28823	1.5 %	✓	1.452530	0.010959	0.158269	0.001059	0.002682	0.000048	25.365	1.654474	1.00017988	6.309E-13
20F28824	1.8 %	✓	1.164353	0.007280	0.156706	0.000757	0.001672	0.000032	25.374	1.654769	1.00017994	7.608E-13
20F28825	2.2 %	✓	1.385822	0.004330	0.074784	0.000458	0.002496	0.000023	25.383	1.655064	1.00018000	1.531E-12
20F28827	2.6 %	✓	1.044583	0.003437	0.164411	0.000427	0.001355	0.000017	25.401	1.655654	1.00018013	1.452E-12
20F28828	3.1 %	✓	0.931490	0.002124	0.178730	0.000353	0.001008	0.000010	25.410	1.655949	1.00018019	2.115E-12
20F28829	3.6 %	✓	1.110067	0.001362	0.097061	0.000212	0.001658	0.000008	25.419	1.656245	1.00018026	4.105E-12
20F28831	4.1 %	✓	1.258742	0.001177	0.245504	0.000388	0.002170	0.000008	25.438	1.656836	1.00018039	5.675E-12
20F28832	4.7 %	✓	1.010541	0.001176	0.286392	0.000457	0.001363	0.000006	25.447	1.657154	1.00018045	4.370E-12
20F28833	5.3 %	✓	0.794954	0.000828	0.152608	0.000279	0.000677	0.000004	25.456	1.657449	1.00018052	4.951E-12
20F28835	6.0 %	✓	0.800102	0.000823	0.434209	0.000660	0.000728	0.000004	25.474	1.658040	1.00018064	5.029E-12
20F28836	6.8 %		0.818132	0.001038	0.838629	0.001234	0.000738	0.000043	25.483	1.658336	1.00018071	3.968E-12
20F28837	7.5 %		0.927112	0.001504	0.967283	0.001445	0.001374	0.000009	25.492	1.658632	1.00018077	3.033E-12
20F28839	8.3 %		1.145440	0.002088	1.419720	0.002157	0.002283	0.000012	25.510	1.659224	1.00018090	2.681E-12
20F28840	9.1 %		1.218474	0.003471	1.973756	0.003098	0.002726	0.000019	25.519	1.659519	1.00018096	1.687E-12
20F28841	10.1 %		1.416161	0.004725	2.365715	0.003707	0.003528	0.000025	25.528	1.659815	1.00018103	1.437E-12
20F28843	11.2 %		1.334312	0.006157	2.460207	0.003939	0.003368	0.000030	25.547	1.660430	1.00018116	1.033E-12
20F28844	12.4 %		1.582244	0.008648	2.577071	0.004411	0.004417	0.000041	25.556	1.660726	1.00018122	8.720E-13
20F28845	13.6 %		2.335197	0.011753	2.900199	0.005271	0.006906	0.000060	25.565	1.661022	1.00018129	9.575E-13
20F28847	14.9 %		6.239376	0.016984	2.978436	0.005831	0.020165	0.000108	25.583	1.661615	1.00018141	1.931E-12
20F28848	16.2 %		2.282587	0.019522	3.527130	0.008103	0.007204	0.000090	25.592	1.661911	1.00018148	5.605E-13
20F28849	17.6 %		2.464125	0.026445	3.976731	0.010435	0.008284	0.000117	25.601	1.662208	1.00018154	4.482E-13
20F28851	19.0 %		3.023581	0.035547	4.826286	0.014453	0.010071	0.000166	25.620	1.662823	1.00018167	4.110E-13
20F28852	20.5 %		5.017732	0.039522	5.004937	0.015563	0.017517	0.000188	25.629	1.663120	1.00018174	6.356E-13
20F28854	21.8 %		2.919130	0.045491	6.628717	0.022992	0.010747	0.000199	25.647	1.663713	1.00018187	3.090E-13



Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F28815	0.5 %	0.0163091 ± 0.0004466	0.0162463 ± 0.0055974	0.0028844 ± 0.0071914	0.0017292 ± 0.0070503	4.7747255 ± 0.1323206
20F28817	0.7 %	0.0171084 ± 0.0004466	0.0164742 ± 0.0055974	0.0037410 ± 0.0071914	0.0092409 ± 0.0070503	5.0310247 ± 0.1323206
20F28818	0.9 %	0.0173121 ± 0.0004466	0.0163526 ± 0.0055974	0.0040791 ± 0.0071914	0.0126233 ± 0.0070503	5.1024077 ± 0.1323206
20F28820	1.1 %	0.0174220 ± 0.0004466	0.0157695 ± 0.0055974	0.0045889 ± 0.0071914	0.0186032 ± 0.0070503	5.1570640 ± 0.1323206
20F28821	1.3 %	0.0173628 ± 0.0004466	0.0153552 ± 0.0055974	0.0047664 ± 0.0071914	0.0211894 ± 0.0070503	5.1496407 ± 0.1323206
20F28823	1.5 %	0.0170800 ± 0.0004466	0.0143463 ± 0.0055974	0.0049863 ± 0.0071914	0.0256822 ± 0.0070503	5.0829767 ± 0.1323206
20F28824	1.8 %	0.0168958 ± 0.0004466	0.0138272 ± 0.0055974	0.0050268 ± 0.0071914	0.0274193 ± 0.0070503	5.0340960 ± 0.1323206
20F28825	2.2 %	0.0166971 ± 0.0004466	0.0133080 ± 0.0055974	0.0050291 ± 0.0071914	0.0288801 ± 0.0070503	4.9789371 ± 0.1323206
20F28827	2.6 %	0.0162987 ± 0.0004466	0.0123227 ± 0.0055974	0.0049314 ± 0.0071914	0.0309820 ± 0.0070503	4.8616605 ± 0.1323206
20F28828	3.1 %	0.0161173 ± 0.0004466	0.0118786 ± 0.0055974	0.0048378 ± 0.0071914	0.0316315 ± 0.0070503	4.8047589 ± 0.1323206
20F28829	3.6 %	0.0159581 ± 0.0004466	0.0114787 ± 0.0055974	0.0047188 ± 0.0071914	0.0320213 ± 0.0070503	4.7520110 ± 0.1323206
20F28831	4.1 %	0.0157308 ± 0.0004466	0.0108362 ± 0.0055974	0.0044176 ± 0.0071914	0.0320532 ± 0.0070503	4.6662321 ± 0.1323206
20F28832	4.7 %	0.0156690 ± 0.0004466	0.0105858 ± 0.0055974	0.0042282 ± 0.0071914	0.0316793 ± 0.0070503	4.6341912 ± 0.1323206
20F28833	5.3 %	0.0156542 ± 0.0004466	0.0104157 ± 0.0055974	0.0040401 ± 0.0071914	0.0311031 ± 0.0070503	4.6148319 ± 0.1323206
20F28835	6.0 %	0.0157532 ± 0.0004466	0.0102511 ± 0.0055974	0.0036428 ± 0.0071914	0.0293444 ± 0.0070503	4.6087551 ± 0.1323206
20F28836	6.8 %	0.0158671 ± 0.0004466	0.0102502 ± 0.0055974	0.0034407 ± 0.0071914	0.0281924 ± 0.0070503	4.6225888 ± 0.1323206
20F28837	7.5 %	0.0160221 ± 0.0004466	0.0102961 ± 0.0055974	0.0032412 ± 0.0071914	0.0268813 ± 0.0070503	4.6475569 ± 0.1323206
20F28839	8.3 %	0.0164428 ± 0.0004466	0.0104961 ± 0.0055974	0.0028644 ± 0.0071914	0.0238579 ± 0.0070503	4.7288216 ± 0.1323206
20F28840	9.1 %	0.0166995 ± 0.0004466	0.0106294 ± 0.0055974	0.0026946 ± 0.0071914	0.0221871 ± 0.0070503	4.7833594 ± 0.1323206
20F28841	10.1 %	0.0169792 ± 0.0004466	0.0107681 ± 0.0055974	0.0025423 ± 0.0071914	0.0204404 ± 0.0070503	4.8455135 ± 0.1323206
20F28843	11.2 %	0.0176001 ± 0.0004466	0.0110070 ± 0.0055974	0.0022983 ± 0.0071914	0.0166763 ± 0.0070503	4.9916474 ± 0.1323206
20F28844	12.4 %	0.0178993 ± 0.0004466	0.0110618 ± 0.0055974	0.0022239 ± 0.0071914	0.0148534 ± 0.0070503	5.0659378 ± 0.1323206
20F28845	13.6 %	0.0181843 ± 0.0004466	0.0110504 ± 0.0055974	0.0021828 ± 0.0071914	0.0130617 ± 0.0070503	5.1395045 ± 0.1323206
20F28847	14.9 %	0.0186628 ± 0.0004466	0.0107396 ± 0.0055974	0.0022169 ± 0.0071914	0.0096930 ± 0.0070503	5.2730627 ± 0.1323206
20F28848	16.2 %	0.0188288 ± 0.0004466	0.0103906 ± 0.0055974	0.0023002 ± 0.0071914	0.0081796 ± 0.0070503	5.3266305 ± 0.1323206
20F28849	17.6 %	0.0189260 ± 0.0004466	0.0098768 ± 0.0055974	0.0024332 ± 0.0071914	0.0068251 ± 0.0070503	5.3666269 ± 0.1323206
20F28851	19.0 %	0.0188343 ± 0.0004466	0.0081542 ± 0.0055974	0.0028864 ± 0.0071914	0.0046742 ± 0.0070503	5.3889129 ± 0.1323206
20F28852	20.5 %	0.0186107 ± 0.0004466	0.0069426 ± 0.0055974	0.0031987 ± 0.0071914	0.0040357 ± 0.0070503	5.3612237 ± 0.1323206
20F28854	21.8 %	0.0177120 ± 0.0004466	0.0035987 ± 0.0055974	0.0040289 ± 0.0071914	0.0037340 ± 0.0070503	5.2064727 ± 0.1323206

Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
20F28815	0.5 %	0.1853943 ± 0.0005987	0.8263	EXP 145 of 150	1.028208 ± 0.005165	0.7899	EXP 149 of 150	0.1837741 ± 0.0072153	0.0407	EXP 150 of 150	10.4693270 ± 0.0074936	0.9948	EXP 150 of 150	65.518594 ± 0.018376	0.9968	EXP 150 of 150
20F28817	0.7 %	0.0620234 ± 0.0003909	0.0002	EXP 150 of 150	0.532388 ± 0.005707	0.4987	EXP 150 of 150	0.0905734 ± 0.0071772	0.0046	EXP 150 of 150	6.4035484 ± 0.0066466	0.9889	EXP 145 of 150	23.738342 ± 0.016241	0.9442	EXP 150 of 150
20F28818	0.9 %	0.0355984 ± 0.0002989	0.4153	EXP 149 of 150	0.2377778 ± 0.006007	0.2003	EXP 149 of 150	0.0449869 ± 0.0075604	0.0035	EXP 147 of 150	3.2561724 ± 0.0061865	0.9556	EXP 150 of 150	12.912101 ± 0.016376	0.9898	EXP 150 of 150
20F28820	1.1 %	0.0337622 ± 0.0002905	0.4191	EXP 150 of 150	0.373346 ± 0.006433	0.3027	EXP 150 of 150	0.0539605 ± 0.0073444	0.0044	EXP 150 of 150	4.0304753 ± 0.0067420	0.9698	EXP 150 of 150	13.018620 ± 0.016381	0.9884	EXP 150 of 150
20F28821	1.3 %	0.0342591 ± 0.0002795	0.4656	EXP 150 of 150	0.176137 ± 0.005722	0.1044	EXP 150 of 150	0.0677010 ± 0.0073145	0.0150	EXP 150 of 150	4.7175692 ± 0.0063227	0.9798	EXP 150 of 150	13.539442 ± 0.013941	0.9907	EXP 146 of 150
20F28823	1.5 %	0.0481927 ± 0.0003371	0.0230	EXP 150 of 150	1.163686 ± 0.005193	0.8449	EXP 148 of 150	0.1705194 ± 0.0072239	0.0274	EXP 147 of 150	12.3079182 ± 0.0073686	0.9966	EXP 150 of 150	22.904594 ± 0.017378	0.8919	EXP 149 of 150
20F28824	1.8 %	0.0460833 ± 0.0003195	0.2182	EXP 150 of 150	1.740494 ± 0.005745	0.9098	EXP 149 of 150	0.2770715 ± 0.0073272	0.1846	EXP 150 of 150	18.5037616 ± 0.0083951	0.9980	EXP 150 of 150	26.524532 ± 0.017595	0.5095	EXP 149 of 150
20F28825	2.2 %	0.0903405 ± 0.0004796	0.3000	EXP 147 of 150	1.401983 ± 0.006278	0.8454	EXP 150 of 150	0.4627749 ± 0.0087084	0.2736	EXP 150 of 150	31.2687321 ± 0.0082590	0.9994	EXP 150 of 150	48.226434 ± 0.015234	0.9937	EXP 148 of 150
20F28827	2.6 %	0.0665800 ± 0.0004208	0.0120	EXP 149 of 150	3.900059 ± 0.006207	0.9774	EXP 150 of 150	0.5884574 ± 0.0072495	0.4488	EXP 150 of 150	39.3259443 ± 0.0094692	0.9995	EXP 150 of 150	45.865482 ± 0.016565	0.9899	EXP 149 of 150
20F28828	3.1 %	0.0772146 ± 0.0003961	0.1099	EXP 149 of 150	6.935589 ± 0.007400	0.9892	EXP 150 of 150	0.9648291 ± 0.0068283	0.6995	EXP 150 of 150	64.2313159 ± 0.0095304	0.9998	EXP 149 of 150	64.543484 ± 0.019216	0.9966	EXP 150 of 150
20F28829	3.6 %	0.1797338 ± 0.0006351	0.7613	EXP 150 of 150	6.133357 ± 0.008350	0.9843	EXP 149 of 150	1.5819706 ± 0.0078277	0.8291	EXP 150 of 150	104.6110884 ± 0.0118758	0.9999	EXP 149 of 150	120.720086 ± 0.019930	0.9995	EXP 150 of 150
20F28831	4.1 %	0.2771012 ± 0.0008049	0.8767	EXP 150 of 150	18.930884 ± 0.010485	0.9974	EXP 150 of 150	1.9470899 ± 0.0083114	0.8487	EXP 150 of 150	127.5277459 ± 0.0148096	0.9999	EXP 150 of 150	164.982218 ± 0.022749	0.9997	EXP 148 of 150
20F28832	4.7 %	0.1731042 ± 0.0005248	0.7931	EXP 147 of 150	21.179272 ± 0.012880	0.9966	EXP 150 of 150	1.8751501 ± 0.0078698	0.8723	EXP 150 of 150	122.3203103 ± 0.0142928	0.9999	EXP 150 of 150	128.082451 ± 0.021796	0.9994	EXP 145 of 150
20F28833	5.3 %	0.1282451 ± 0.0005037	0.4659	EXP 148 of 150	16.247963 ± 0.017284	0.9912	EXP 149 of 150	2.6542345 ± 0.0065182	0.9457	EXP 148 of 150	176.1461690 ± 0.0166092	0.9999	EXP 150 of 150	144.471528 ± 0.021013	0.9996	EXP 149 of 150
20F28835	6.0 %	0.1379006 ± 0.0005020	0.5549	EXP 149 of 150	46.657119 ± 0.020883	0.9981	EXP 150 of 150	2.6895549 ± 0.0077972	0.9305	EXP 150 of 150	177.7611537 ± 0.0151509	0.9999	EXP 147 of 150	146.663370 ± 0.021662	0.9996	EXP 144 of 150
20F28836	6.8 %	0.1115205 ± 0.0055886	0.0098	EXP 145 of 150	69.534334 ± 0.015416	0.9996	EXP 148 of 150	2.0971537 ± 0.0065600	0.9178	EXP 149 of 150	137.1863280 ± 0.0189811	0.9998	EXP 150 of 150	116.718531 ± 0.022065	0.9992	EXP 150 of 150
20F28837	7.5 %	0.1360893 ± 0.0005918	0.5236	EXP 150 of 150	54.082428 ± 0.017519	0.9991	EXP 149 of 150	1.4175760 ± 0.0077026	0.7810	EXP 150 of 150	92.5373530 ± 0.0132023	0.9998	EXP 150 of 150	90.325261 ± 0.021739	0.9983	EXP 150 of 150
20F28839	8.3 %	0.1591516 ± 0.0005889	0.7253	EXP 148 of 150	56.774928 ± 0.023450	0.9985	EXP 150 of 150	1.0148295 ± 0.0071855	0.6762	EXP 148 of 150	66.2141778 ± 0.0111593	0.9997	EXP 149 of 150	80.466438 ± 0.020714	0.9979	EXP 150 of 150
20F28840	9.1 %	0.1175200 ± 0.0005165	0.5103	EXP 150 of 150	46.685397 ± 0.024004	0.9975	EXP 150 of 150	0.6057373 ± 0.0072495	0.4755	EXP 148 of 150	39.1805218 ± 0.0098085	0.9994	EXP 150 of 150	52.446800 ± 0.018864	0.9905	EXP 150 of 150
20F28841	10.1 %	0.1126075 ± 0.0004751	0.4953	EXP 149 of 150	40.992120 ± 0.018014	0.9983	EXP 150 of 150	0.4565751 ± 0.0069200	0.3381	EXP 150 of 150	28.7128641 ± 0.0087887	0.9991	EXP 150 of 150	45.436049 ± 0.017915	0.9826	EXP 149 of 150
20F28843	11.2 %	0.0872674 ± 0.0004198	0.2519	EXP 150 of 150	32.520260 ± 0.014500	0.9981	EXP 150 of 150	0.3469563 ± 0.0068530	0.2368	EXP 150 of 150	21.9147140 ± 0.0082104	0.9987	EXP 147 of 150	34.179859 ± 0.016942	0.8781	EXP 150 of 150
20F28844	12.4 %	0.0829233 ± 0.0003910	0.3913	EXP 149 of 150	24.236085 ± 0.014502	0.9966	EXP 150 of 150	0.2603322 ± 0.0076231	0.1386	EXP 150 of 150	15.5991646 ± 0.0073638	0.9979	EXP 150 of 150	29.698311 ± 0.016209	0.2749	EXP 148 of 150
20F28845	13.6 %	0.0938195 ± 0.0004575	0.4129	EXP 150 of 150	20.288341 ± 0.012006	0.9965	EXP 148 of 150	0.1941885 ± 0.0078731	0.0447	EXP 150 of 150	11.6084690 ± 0.0074787	0.9959	EXP 149 of 150	32.188720 ± 0.018274	0.8268	EXP 150 of 150
20F28847	14.9 %	0.1853827 ± 0.0007007	0.8019	EXP 150 of 150	15.720154 ± 0.009283	0.9971	EXP 148 of 150	0.1539694 ± 0.0077860	0.0006	EXP 150 of 150	8.7625687 ± 0.0068725	0.9936	EXP 149 of 150	59.828383 ± 0.017639	0.9970	EXP 150 of 150
20F28848	16.2 %	0.0660820 ± 0.0003702	0.0506	EXP 150 of 150	14.766940 ± 0.013838	0.9925	EXP 150 of 150	0.1218776 ± 0.0077191	0.0354	EXP 150 of 150	6.9526251 ± 0.0073954	0.9886	EXP 150 of 150	21.161338 ± 0.015789	0.9270	EXP 150 of 150
20F28849	17.6 %	0.0591697 ± 0.0003371	0.0347	EXP 146 of 150	12.327084 ± 0.009482	0.9944	EXP 150 of 150	0.0767658 ± 0.0072520	0.0032	EXP 150 of 150	5.1498946 ± 0.0074816	0.9772	EXP 150 of 150	18.026529 ± 0.016872	0.9596	EXP 147 of 150
20F28851	19.0 %	0.0554033 ± 0.0003903	0.0138	EXP 150 of 150	11.179261 ± 0.008020	0.9952	EXP 148 of 150	0.0661908 ± 0.0067520	0.0139	EXP 150 of 150	3.8489796 ± 0.0063714	0.9686	EXP 150 of 150	17.000319 ± 0.016781	0.9642	EXP 150 of 150
20F28852	20.5 %	0.0778773 ± 0.0004178	0.3350	EXP 150 of 150	10.801048 ± 0.008595	0.9940	EXP 149 of 150	0.0730687 ± 0.0072578	0.0246	EXP 150 of 150	3.5860303 ± 0.0059938	0.9677	EXP 150 of 150	23.315903 ± 0.016997	0.6807	EXP 150 of 150
20F28854	21.8 %	0.0480980 ± 0.0003263	0.0227	EXP 150 of 150	11.954244 ± 0.007463	0.9964	EXP 149 of 150	0.0633972 ± 0.0076233	0.0175	EXP 150 of 150	2.9970792 ± 0.0058197	0.9543	EXP 150 of 150	13.935294 ± 0.016505	0.9793	EXP 150 of 150

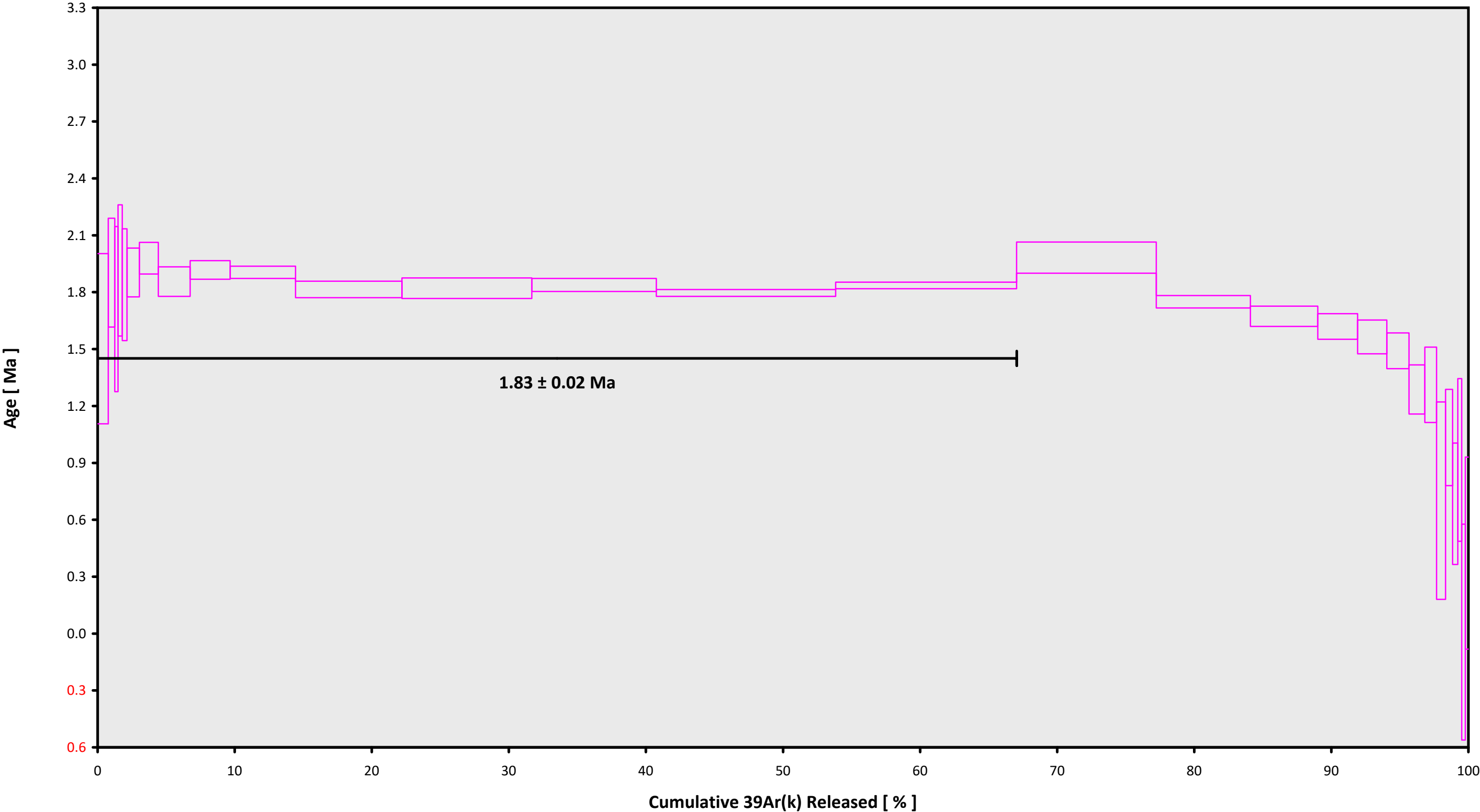


Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F28815	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28817	0.7 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28818	0.9 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28820	1.1 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28821	1.3 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28823	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28824	1.8 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28825	2.2 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28827	2.6 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28828	3.1 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28829	3.6 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28831	4.1 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28832	4.7 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28833	5.3 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28835	6.0 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28836	6.8 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28837	7.5 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28839	8.3 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28840	9.1 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28841	10.1 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28843	11.2 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28844	12.4 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28845	13.6 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28847	14.9 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28848	16.2 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28849	17.6 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28851	19.0 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28852	20.5 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01
20F28854	21.8 %	Dan Miggins	20-OSU-04	0.00	0.00	28.45	Oregon\McCloughry (19-20)	20F28811	01

Sample Parameters		Sample	Material	Location	Standard Name	Standard (in Ma)	%1σ	Standard Reference	Standard 40Ar/39Ar	%1σ	J	%1σ	Air 40Ar/36Ar	%1σ	MDF (lin)	%1σ	Volume Ratio	Sensitivity (mol/volt)	Day	Month	Year	Hour	Min	Resist
20F28815	0.5 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	26	OCT	2020	22	37	1
20F28817	0.7 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	26	OCT	2020	23	3	1
20F28818	0.9 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	26	OCT	2020	23	16	1
20F28820	1.1 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	26	OCT	2020	23	42	1
20F28821	1.3 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	26	OCT	2020	23	55	1
20F28823	1.5 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	0	22	1
20F28824	1.8 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	0	35	1
20F28825	2.2 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	0	48	1
20F28827	2.6 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	1	14	1
20F28828	3.1 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	1	27	1
20F28829	3.6 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	1	40	1
20F28831	4.1 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	2	6	1
20F28832	4.7 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	2	20	1
20F28833	5.3 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	2	33	1
20F28835	6.0 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	2	59	1
20F28836	6.8 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	3	12	1
20F28837	7.5 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	3	25	1
20F28839	8.3 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	3	51	1
20F28840	9.1 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	4	4	1
20F28841	10.1 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	4	17	1
20F28843	11.2 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	4	44	1
20F28844	12.4 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	4	57	1
20F28845	13.6 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	5	10	1
20F28847	14.9 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	5	36	1
20F28848	16.2 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	5	49	1
20F28849	17.6 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	6	2	1
20F28851	19.0 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	6	29	1
20F28852	20.5 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	6	42	1
20F28854	21.8 %	89A MCB-DRJ 18	Groundmass	Badger Lake	FCT-NM (4B21-20)	28.201	0.082	Kuiper et al (2008)	9.44576	0.048	0.00164365	0.048	297.098	0.119	1.00123182	0.040	1	3.54E-14	27	OCT	2020	7	8	1

Irradiation Constants		40/36(a)	%1σ	40/36(c)	%1σ	38/36(a)	%1σ	38/36(c)	%1σ	39/37(ca)	%1σ	38/37(ca)	%1σ	36/37(ca)	%1σ	40/39(k)	%1σ	38/39(k)	%1σ	36/38(cl)	%1σ	K/Ca	%1σ	K/Cl	%1σ	Ca/Cl	%1σ
20F28815	0.5 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28817	0.7 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28818	0.9 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28820	1.1 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28821	1.3 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28823	1.5 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28824	1.8 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28825	2.2 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28827	2.6 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28828	3.1 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28829	3.6 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28831	4.1 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28832	4.7 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28833	5.3 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28835	6.0 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28836	6.8 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28837	7.5 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28839	8.3 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28840	9.1 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28841	10.1 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28843	11.2 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28844	12.4 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28845	13.6 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28847	14.9 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28848	16.2 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28849	17.6 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28851	19.0 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28852	20.5 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28854	21.8 %	310.24	1.306	0.018	35	0.1885	0.159	1.493	3	0.0006425	0.92	0.00018	9.63	0.0002703	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0

20F28811.AGE >>> 89A MCB-DRJ 18 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

$1.83 \pm 0.02$

TOTAL FUSION

$1.78 \pm 0.01$

NORMAL ISOCHRON

$1.82 \pm 0.03$

INVERSE ISOCHRON

$1.83 \pm 0.03$

MSWD (PROBABILITY)

4.67 (0%)

Sample Info

Groundmass

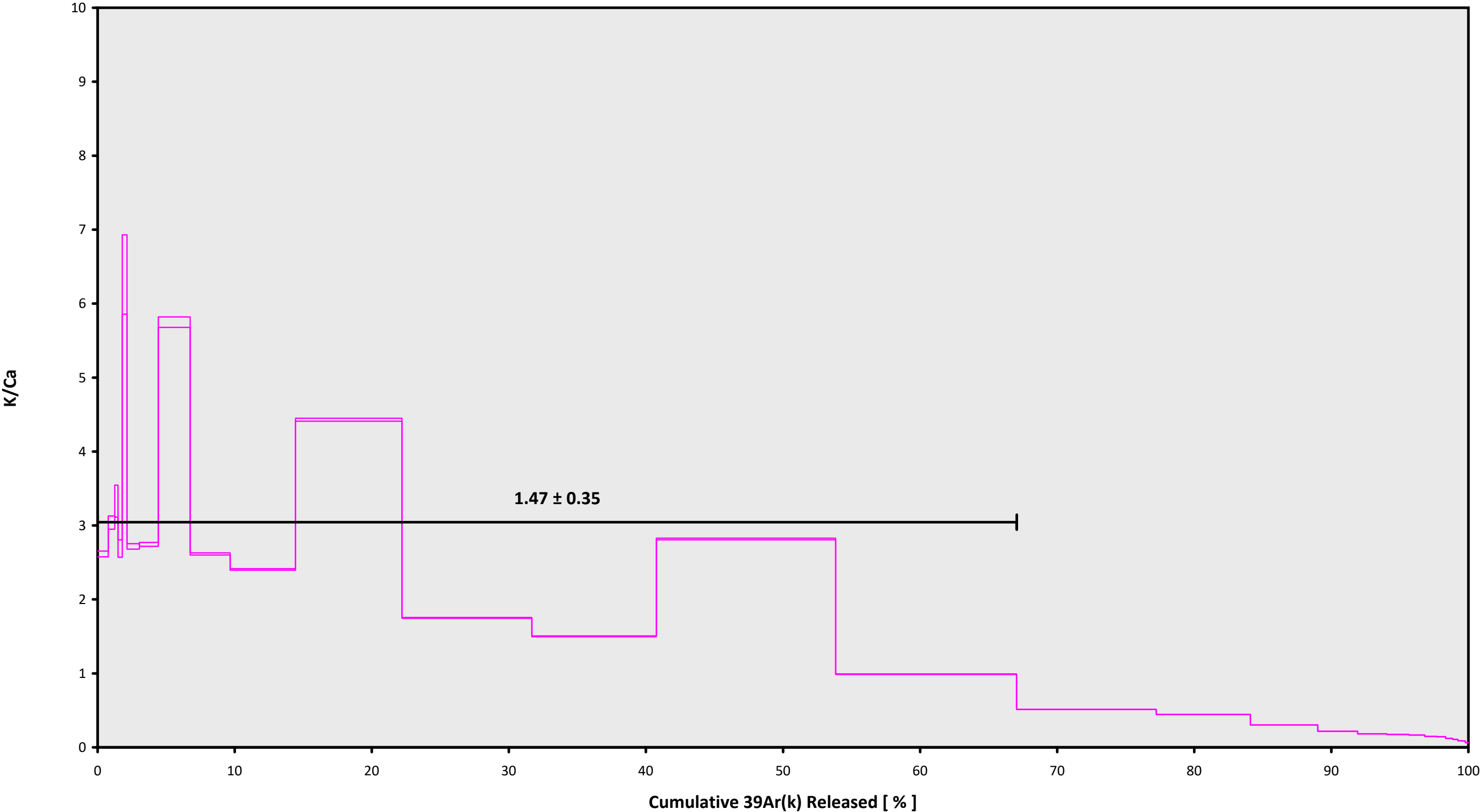
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B21-20)

$J = 0.00164365 \pm 0.00000079$

20F28811.AGE >>> 89A MCB-DRJ 18 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

$1.83 \pm 0.02$

TOTAL FUSION

$1.78 \pm 0.01$

NORMAL ISOCHRON

$1.82 \pm 0.03$

INVERSE ISOCHRON

$1.83 \pm 0.03$

Sample Info

Groundmass

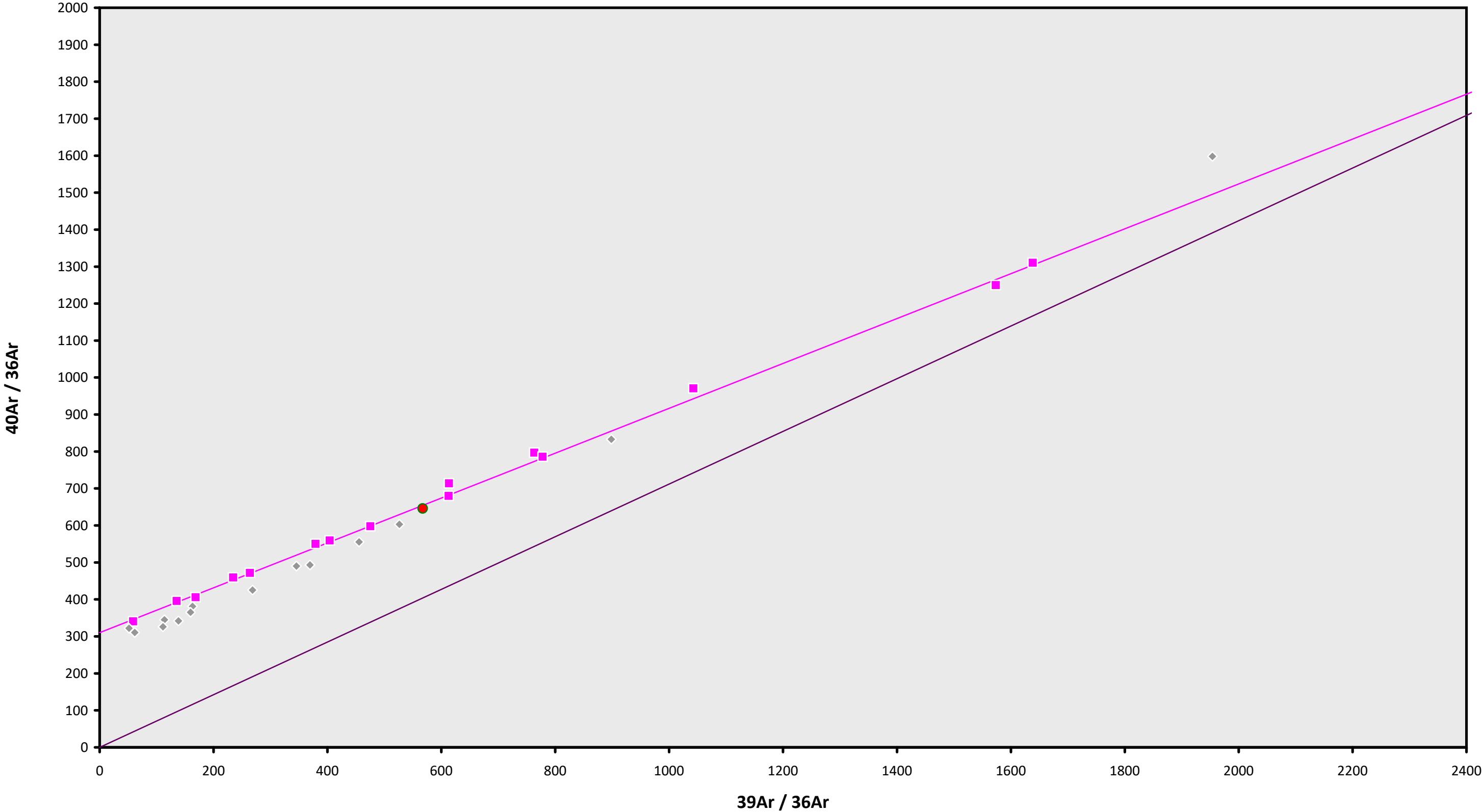
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B21-20)

$J = 0.00164365 \pm 0.00000079$

20F28811.AGE >>> 89A MCB-DRJ 18 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

$1.83 \pm 0.02$

TOTAL FUSION

$1.78 \pm 0.01$

NORMAL ISOCHRON

$1.82 \pm 0.03$

INVERSE ISOCHRON

$1.83 \pm 0.03$

MSWD (PROBABILITY)

11.59 (0%)

40AR/36AR INTERCEPT

$310.3 \pm 7.8$

Sample Info

Groundmass

Badger Lake

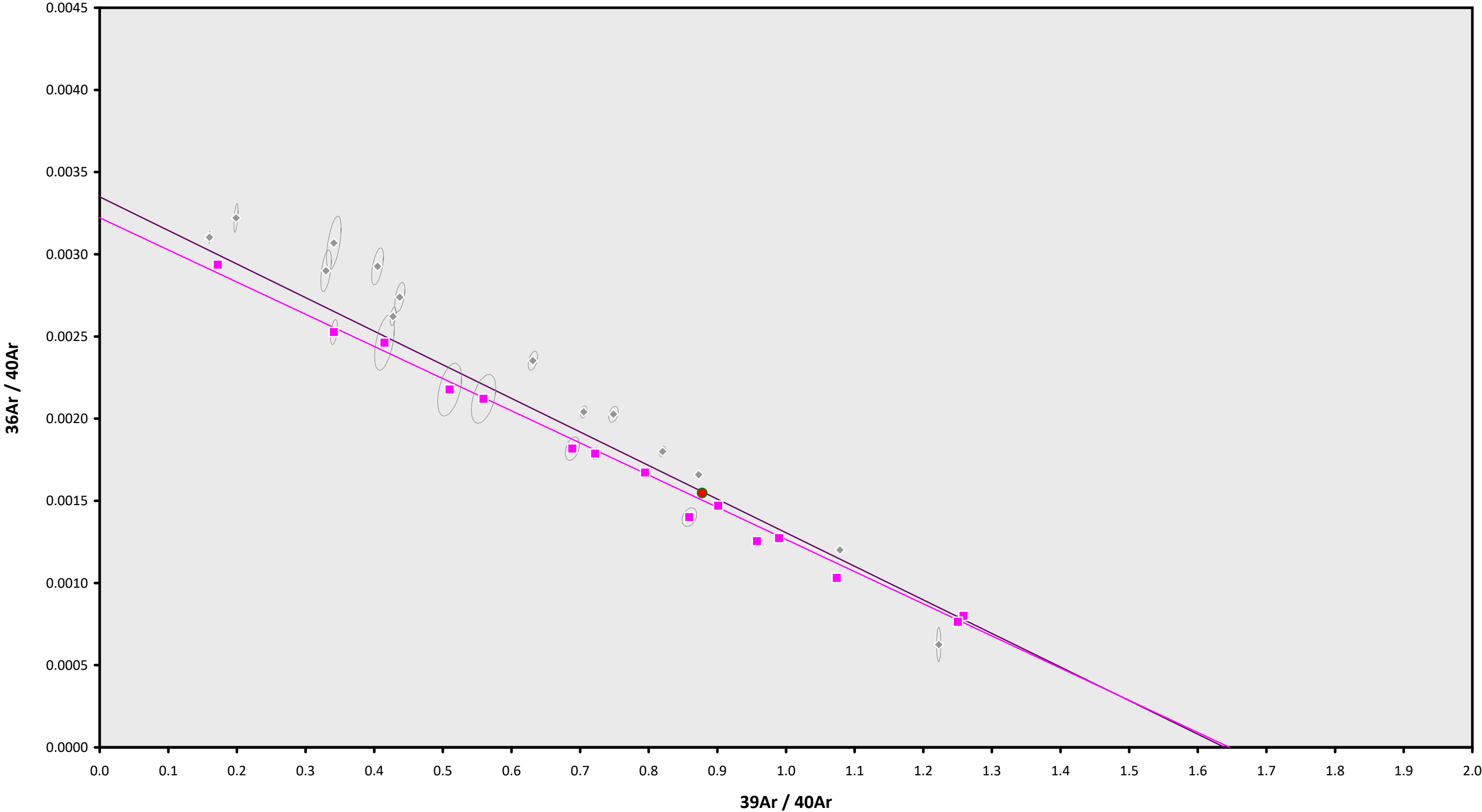
Dan Miggins

IRR = 20-OSU-04 (4B21-20)

J =  $0.00164365 \pm 0.00000079$



20F28811.AGE >>> 89A MCB-DRJ 18 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

$1.83 \pm 0.02$

TOTAL FUSION

$1.78 \pm 0.01$

NORMAL ISOCHRON

$1.82 \pm 0.03$

INVERSE ISOCHRON

$1.83 \pm 0.03$

MSWD (PROBABILITY)

12.23 (0%)

SPREADING FACTOR

66.0%

40AR/36AR INTERCEPT

$310.4 \pm 8.1$

Sample Info

Groundmass

Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B21-20)

J =  $0.00164365 \pm 0.00000079$