

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
20F28905	0.5 %	0.1014309	0.616	0.05174	26.493	0.0305004	30.991	0.012860	66.017	30.5783	0.076	23.34357 ± 42.87861	69.62 ± 125.48	0.98	0.02	0.1066 ± 0.1520
20F28907	1.5 %	2.5182276	0.210	2.10830	0.681	0.6202211	1.713	0.498762	1.812	750.9602	0.006	1.42782 ± 7.08504	4.35 ± 21.59	0.09	0.75	0.1014 ± 0.0039
20F28908	2.0 %	1.9620819	0.217	7.73778	0.241	0.5406452	1.883	1.579669	0.585	585.6180	0.007	0.28211 ± 1.79151	0.86 ± 5.44	0.08	2.37	0.0875 ± 0.0011
20F28910	2.5 %	0.3652044	0.328	9.61832	0.217	0.1231566	8.078	1.936155	0.453	111.0373	0.022	1.43903 ± 0.38924	4.37 ± 1.18	2.50	2.91	0.0863 ± 0.0009
20F28911	3.0 %	0.2835431	0.314	11.77359	0.203	0.1044934	10.002	1.995412	0.448	87.1452	0.027	1.73041 ± 0.28271	5.25 ± 0.86	3.95	2.99	0.0726 ± 0.0007
20F28913	3.5 %	0.1541695	0.429	15.66500	0.186	0.0738829	13.900	2.387138	0.356	46.8091	0.051	0.85952 ± 0.17216	2.61 ± 0.52	4.36	3.58	0.0653 ± 0.0005
20F28914	4.0 %	0.0776492	0.681	27.53746	0.169	0.0629569	16.621	3.839477	0.241	24.0687	0.087	0.81265 ± 0.08426	2.47 ± 0.26	12.90	5.75	0.0597 ± 0.0004
20F28916	4.5 %	✓ 0.0684731	0.734	26.07244	0.172	0.0578031	17.891	3.398535	0.261	20.7957	0.109	0.72577 ± 0.09057	2.20 ± 0.27	11.80	5.09	0.0558 ± 0.0004
20F28917	5.0 %	✓ 0.0768851	0.698	33.98473	0.168	0.0787667	12.949	4.230210	0.220	23.2334	0.094	0.71732 ± 0.07759	2.18 ± 0.24	12.99	6.33	0.0532 ± 0.0003
20F28919	5.7 %	✓ 0.1065149	0.558	51.12754	0.163	0.0990355	10.305	6.207155	0.153	31.8284	0.070	0.67207 ± 0.05877	2.04 ± 0.18	13.04	9.29	0.0519 ± 0.0002
20F28920	6.3 %	✓ 0.0948487	0.623	44.50611	0.165	0.0843956	11.683	5.188867	0.182	28.0708	0.078	0.64751 ± 0.06975	1.97 ± 0.21	11.90	7.77	0.0499 ± 0.0002
20F28922	7.0 %	✓ 0.0916209	0.652	38.41561	0.166	0.0876841	11.924	4.522679	0.209	27.3530	0.085	0.68837 ± 0.08090	2.09 ± 0.25	11.32	6.77	0.0503 ± 0.0003
20F28923	7.8 %	✓ 0.0514075	0.855	26.64847	0.172	0.0556698	19.469	3.259558	0.291	15.5813	0.143	0.73454 ± 0.08269	2.23 ± 0.25	15.29	4.88	0.0523 ± 0.0004
20F28925	8.6 %	0.0618467	0.811	31.28569	0.170	0.0591996	17.045	3.682162	0.252	18.0822	0.119	0.58432 ± 0.08325	1.78 ± 0.25	11.83	5.51	0.0503 ± 0.0003
20F28926	9.6 %	0.0831625	0.681	34.03056	0.169	0.0708799	15.092	3.945759	0.235	24.5576	0.098	0.63014 ± 0.08795	1.91 ± 0.27	10.07	5.91	0.0496 ± 0.0003
20F28928	10.6 %	0.0781758	0.712	34.34251	0.167	0.0629761	16.621	4.104806	0.225	22.8018	0.100	0.54637 ± 0.08292	1.66 ± 0.25	9.78	6.15	0.0511 ± 0.0003
20F28929	11.7 %	0.0615235	0.803	31.40148	0.168	0.0637213	15.858	3.797690	0.241	18.3176	0.121	0.65679 ± 0.07962	2.00 ± 0.24	13.54	5.69	0.0517 ± 0.0003
20F28931	12.7 %	0.0535610	0.896	24.82226	0.172	0.0547707	18.991	3.023332	0.303	17.3247	0.131	1.10891 ± 0.09723	3.37 ± 0.30	19.25	4.53	0.0521 ± 0.0004
20F28932	13.7 %	0.0449182	1.068	24.29056	0.174	0.0400919	25.563	2.964915	0.300	12.9724	0.175	0.51541 ± 0.09881	1.57 ± 0.30	11.72	4.44	0.0522 ± 0.0004
20F28934	14.5 %	0.0166759	2.239	11.64731	0.200	0.0163820	60.215	1.334843	0.660	4.8356	0.464	0.59964 ± 0.17171	1.82 ± 0.52	16.46	2.00	0.0490 ± 0.0007
20F28935	15.7 %	0.0318719	1.337	11.31859	0.209	0.0168159	60.425	1.329374	0.666	9.4154	0.219	0.61446 ± 0.19561	1.87 ± 0.59	8.63	1.99	0.0502 ± 0.0007
20F28937	16.7 %	0.0427570	1.091	14.93359	0.189	0.0251663	39.061	1.624757	0.525	12.3234	0.181	0.47183 ± 0.17544	1.43 ± 0.53	6.18	2.43	0.0465 ± 0.0005
20F28938	18.0 %	0.0537379	0.865	16.45863	0.184	0.0271849	37.444	1.910667	0.465	15.9940	0.143	0.67211 ± 0.14907	2.04 ± 0.45	7.98	2.86	0.0496 ± 0.0005
Σ		6.4802872	0.113	529.77825	0.041	2.4564000	1.999	66.774783	0.065	1939.7043	0.006					

Information on Analysis and Constants Used in Calculations	
Project = MCCLAUGHRY (19-20)	
Sample = 84 DRBLJ 19	
Material = Plagioclase	
Location = Badger Lake	
Region = Eastern Cascades	
Analyst = Dan Miggins	
Irradiation = 20-OSU-04 (4B11-20)	
Position = X: 0 Y: 0 Z/H: 13.68431 mm	
FCT-NM Age = 28.201 ± 0.023 Ma	
FCT-NM Reference = Kuiper et al (2008)	
FCT-NM 40Ar/39Ar Ratio = 9.34924 ± 0.00449	
FCT-NM J-value = 0.00166062 ± 0.00000080	
Air Shot 40Ar/36Ar = 297.7650 ± 0.4675	
Air Shot MDF = 1.00066834 ± 0.00047267 (LIN)	
Experiment Type = Incremental Heating	
Extraction Method = Bulk Laser Heating	
Heating = 64 sec	
Isolation = 1.62 min	
Instrument = ARGUS-VI-F	
Preferred Age = Inverse Isochron	
Age Classification = Crystallization Age	
IGSN = Undefined	
Rock Class = Undefined	
Lithology = Undefined	
Lat-Lon = Undefined - Undefined	

Age Equations = **Min et al. (2000)**
Negative Intensities = **Allowed**
Collector Calibrations = **36Ar**
Decay 40K = **5.463 ± 0.107 E-10 1/a**
Decay 39Ar = **2.940 ± 0.016 E-07 1/h**
Decay 37Ar = **8.230 ± 0.012 E-04 1/h**
Decay 36Cl = **2.257 ± 0.015 E-06 1/a**
Decay 40K(EC,β⁺) = **0.580 ± 0.014 E-10 1/a**
Decay 40K(β⁻) = **4.884 ± 0.099 E-10 1/a**
Atmospheric 40/36(a) = **298.56 ± 0.31**
Atmospheric 38/36(a) = **0.1885 ± 0.0003**
Production 39/37(ca) = **0.0006425 ± 0.0000059**
Production 38/37(ca) = **0.0001800 ± 0.0000173**
Production 36/37(ca) = **0.0002703 ± 0.0000005**
Production 40/39(k) = **0.000607 ± 0.000059**
Production 38/39(k) = **0.012077 ± 0.000011**
Production 36/38(cl) = **262.80 ± 1.71**
Scaling Ratio K/Ca = **0.430**
Abundance Ratio 40K/K = **1.1700 ± 0.0100 E-04**
Atomic Weight K = **39.0983 ± 0.0001 g**

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau		0.69114 ± 0.03040 ± 4.40%	2.10 ± 0.09 ± 4.40%	0.83 53%	40.14 6	0.0518 ± 0.0016
		Full External Error ± 0.14 Analytical Error ± 0.09		2.26 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		0.71752 ± 0.07251 ± 10.11%	2.18 ± 0.22 ± 10.10%		23	0.0539 ± 0.0001
		Full External Error ± 0.25 Analytical Error ± 0.22				
Normal Isochron	299.63 ± 21.24 ± 7.09%	0.67341 ± 0.34071 ± 50.60%	2.05 ± 1.03 ± 50.57%	1.05 38%	40.14 6	
		Full External Error ± 1.04 Analytical Error ± 1.03		2.41 1.0235	2σ Confidence Limit Error Magnification	
				7 0.0000011057	Number of Iterations Convergence	
Inverse Isochron Clustered Points	299.46 ± 21.20 ± 7.08%	0.67670 ± 0.29532 ± 43.64%	2.06 ± 0.90 ± 43.62%	1.05 38%	40.14 6	
		Full External Error ± 0.90 Analytical Error ± 0.90		2.41 1.0245	2σ Confidence Limit Error Magnification	
				3 0.0017694645	Number of Iterations Convergence	
				3%	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
20F28905	0.5 %	0.1014165	0.05174	0.0112192	0.012827	0.299432	69.62 ± 125.48	0.98	0.02	0.1066 ± 0.1520
20F28907	1.5 %	2.5176519	2.10830	0.1392570	0.497408	0.710208	4.35 ± 21.59	0.09	0.75	0.1014 ± 0.0039
20F28908	2.0 %	1.9599840	7.73778	0.1507778	1.574698	0.444240	0.86 ± 5.44	0.08	2.37	0.0875 ± 0.0011
20F28910	2.5 %	0.3626033	9.61832	0.0297663	1.929975	2.777289	4.37 ± 1.18	2.50	2.91	0.0863 ± 0.0009
20F28911	3.0 %	0.2803596	11.77359	0.0255192	1.987848	3.439800	5.25 ± 0.86	3.95	2.99	0.0726 ± 0.0007
20F28913	3.5 %	0.1499347	15.66500	0.0140926	2.377074	2.043138	2.61 ± 0.52	4.36	3.58	0.0653 ± 0.0005
20F28914	4.0 %	0.0702058	27.53746	0.0000000	3.821784	3.105764	2.47 ± 0.26	12.90	5.75	0.0597 ± 0.0004
20F28916	4.5 %	✓ 0.0614257	26.07244	0.0006895	3.381784	2.454398	2.20 ± 0.27	11.80	5.09	0.0558 ± 0.0004
20F28917	5.0 %	✓ 0.0676987	33.98473	0.0090637	4.208375	3.018737	2.18 ± 0.24	12.99	6.33	0.0532 ± 0.0003
20F28919	5.7 %	✓ 0.0926951	51.12754	0.0000000	6.174306	4.149559	2.04 ± 0.18	13.04	9.29	0.0519 ± 0.0002
20F28920	6.3 %	✓ 0.0828187	44.50611	0.0000000	5.160272	3.341324	1.97 ± 0.21	11.90	7.77	0.0499 ± 0.0002
20F28922	7.0 %	✓ 0.0812367	38.41561	0.0111339	4.497997	3.096277	2.09 ± 0.25	11.32	6.77	0.0503 ± 0.0003
20F28923	7.8 %	✓ 0.0442043	26.64847	0.0033816	3.242436	2.381688	2.23 ± 0.25	15.29	4.88	0.0523 ± 0.0004
20F28925	8.6 %	0.0533901	31.28569	0.0000000	3.662061	2.139833	1.78 ± 0.25	11.83	5.51	0.0503 ± 0.0003
20F28926	9.6 %	0.0739639	34.03056	0.0034233	3.923895	2.472591	1.91 ± 0.27	10.07	5.91	0.0496 ± 0.0003
20F28928	10.6 %	0.0688930	34.34251	0.0000000	4.082741	2.230668	1.66 ± 0.25	9.78	6.15	0.0511 ± 0.0003
20F28929	11.7 %	0.0530356	31.40148	0.0024508	3.777514	2.481019	2.00 ± 0.24	13.54	5.69	0.0517 ± 0.0003
20F28931	12.7 %	0.0468513	24.82226	0.0051511	3.007384	3.334926	3.37 ± 0.30	19.25	4.53	0.0521 ± 0.0004
20F28932	13.7 %	0.0383525	24.29056	0.0000000	2.949309	1.520116	1.57 ± 0.30	11.72	4.44	0.0522 ± 0.0004
20F28934	14.5 %	0.0135276	11.64731	0.0000000	1.327360	0.795941	1.82 ± 0.52	16.46	2.00	0.0490 ± 0.0007
20F28935	15.7 %	0.0288125	11.31859	0.0000000	1.322101	0.812378	1.87 ± 0.59	8.63	1.99	0.0502 ± 0.0007
20F28937	16.7 %	0.0387204	14.93359	0.0000000	1.615162	0.762080	1.43 ± 0.53	6.18	2.43	0.0465 ± 0.0005
20F28938	18.0 %	0.0492891	16.45863	0.0000000	1.900092	1.277064	2.04 ± 0.45	7.98	2.86	0.0496 ± 0.0005
Σ		6.3370710	529.77825	0.4059259	66.434400	47.668054				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (% <i>n</i>)	K/Ca ± 2σ
Project = MCCLAUGHRY (19-20) Sample = 84 DRBLJ 19 Material = Plagioclase Location = Badger Lake Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B11-20) J = 0.00166062 ± 0.00000080 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	0.69114 ± 0.03040 ± 4.40% Full External Error ± 0.14 Analytical Error ± 0.09	2.10 ± 0.09 ± 4.40%	0.83 53% 2.26 1.0000	40.14 6 2σ Confidence Limit Error Magnification	0.0518 ± 0.0016
	Total Fusion Age	0.71752 ± 0.07251 ± 10.11% Full External Error ± 0.25 Analytical Error ± 0.22	2.18 ± 0.22 ± 10.10%		23	0.0539 ± 0.0001

Normal Isochron		39(k)/36(a) ± 2σ		40(a+r)/36(a) ± 2σ	r.i.
20F28905	0.5 %		0.13 ± 0.17	301.51 ± 3.74	0.0092
20F28907	1.5 %		0.20 ± 0.01	298.28 ± 1.25	0.1148
20F28908	2.0 %		0.80 ± 0.01	298.79 ± 1.30	0.3470
20F28910	2.5 %		5.32 ± 0.06	306.22 ± 2.03	0.5861
20F28911	3.0 %		7.09 ± 0.08	310.83 ± 1.98	0.5750
20F28913	3.5 %		15.85 ± 0.18	312.19 ± 2.78	0.7720
20F28914	4.0 %		54.44 ± 0.86	342.80 ± 5.20	0.9457
20F28916	4.5 %	✓	55.05 ± 0.95	338.52 ± 5.59	0.9438
20F28917	5.0 %	✓	62.16 ± 1.02	343.15 ± 5.48	0.9565
20F28919	5.7 %	✓	66.61 ± 0.88	343.33 ± 4.43	0.9666
20F28920	6.3 %	✓	62.31 ± 0.92	338.91 ± 4.87	0.9629
20F28922	7.0 %	✓	55.37 ± 0.85	336.67 ± 4.99	0.9553
20F28923	7.8 %	✓	73.35 ± 1.52	352.44 ± 7.08	0.9497
20F28925	8.6 %		68.59 ± 1.34	338.64 ± 6.42	0.9580
20F28926	9.6 %		53.05 ± 0.85	331.99 ± 5.13	0.9480
20F28928	10.6 %		59.26 ± 0.99	330.94 ± 5.39	0.9558
20F28929	11.7 %		71.23 ± 1.37	345.34 ± 6.50	0.9597
20F28931	12.7 %		64.19 ± 1.37	369.74 ± 7.64	0.9508
20F28932	13.7 %		76.90 ± 1.98	338.20 ± 8.55	0.9629
20F28934	14.5 %		98.12 ± 5.57	357.40 ± 20.01	0.9589
20F28935	15.7 %		45.89 ± 1.49	326.76 ± 9.77	0.9012
20F28937	16.7 %		41.71 ± 1.10	318.24 ± 7.76	0.9058
20F28938	18.0 %		38.55 ± 0.81	324.47 ± 6.19	0.8860

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	299.63 ± 21.24 ± 7.09%		0.67341 ± 0.34071 ± 50.60%	2.05 ± 1.03 ± 50.57%	1.05 38%
	Full External Error ± 1.04				
	Analytical Error ± 1.03				
Statistics	2σ Confidence Limit	2.41	Convergence	0.000001105653	
	Error Magnification	1.0235	Number of Iterations	7	
	Number of Data Points	6	Calculated Line	Weighted York-2	

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
20F28905	0.5 %		0.0004195 ± 0.0005553	0.00331661 ± 0.00004119	0.0001
20F28907	1.5 %		0.0006624 ± 0.0000241	0.00335258 ± 0.00001409	0.0001
20F28908	2.0 %		0.0026890 ± 0.0000316	0.00334687 ± 0.00001456	0.0004
20F28910	2.5 %		0.0173815 ± 0.0001583	0.00326563 ± 0.00002160	0.0031
20F28911	3.0 %		0.0228111 ± 0.0002053	0.00321720 ± 0.00002050	0.0051
20F28913	3.5 %		0.0507839 ± 0.0003669	0.00320321 ± 0.00002848	0.0162
20F28914	4.0 %		0.1588016 ± 0.0008178	0.00291717 ± 0.00004426	0.0386
20F28916	4.5 %	✓	0.1626353 ± 0.0009250	0.00295406 ± 0.00004879	0.0505
20F28917	5.0 %	✓	0.1811546 ± 0.0008705	0.00291417 ± 0.00004654	0.0464
20F28919	5.7 %	✓	0.1940104 ± 0.0006567	0.00291269 ± 0.00003761	0.0449
20F28920	6.3 %	✓	0.1838511 ± 0.0007323	0.00295068 ± 0.00004241	0.0426
20F28922	7.0 %	✓	0.1644587 ± 0.0007456	0.00297023 ± 0.00004403	0.0427
20F28923	7.8 %	✓	0.2081244 ± 0.0013539	0.00283737 ± 0.00005703	0.0623
20F28925	8.6 %		0.2025477 ± 0.0011331	0.00295300 ± 0.00005598	0.0532
20F28926	9.6 %		0.1597986 ± 0.0008170	0.00301214 ± 0.00004654	0.0482
20F28928	10.6 %		0.1790726 ± 0.0008854	0.00302171 ± 0.00004923	0.0500
20F28929	11.7 %		0.2062489 ± 0.0011185	0.00289569 ± 0.00005448	0.0578
20F28931	12.7 %		0.1736079 ± 0.0011517	0.00270460 ± 0.00005588	0.0501
20F28932	13.7 %		0.2273836 ± 0.0015842	0.00295687 ± 0.00007476	0.0694
20F28934	14.5 %		0.2745456 ± 0.0044460	0.00279800 ± 0.00015669	0.0951
20F28935	15.7 %		0.1404305 ± 0.0019777	0.00306039 ± 0.00009151	0.0455
20F28937	16.7 %		0.1310747 ± 0.0014635	0.00314227 ± 0.00007660	0.0481
20F28938	18.0 %		0.1188091 ± 0.0011610	0.00308195 ± 0.00005880	0.0437

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	299.46 ± 21.20		0.67670 ± 0.29532	2.06 ± 0.90	1.05
Clustered Points	± 7.08%		± 43.64%	± 43.62%	38%
Full External Error ± 0.90					
Analytical Error ± 0.90					
Statistics	2σ Confidence Limit	2.41	Convergence	0.0017694645	
	Error Magnification	1.0245	Number of Iterations	3	
	Number of Data Points	6	Calculated Line	Weighted York-2	
	Spreading Factor	3.1%			

Degassing Patterns		36Ar(a) [fA]	%1σ	36Ar(c) [fA]	%1σ	36Ar(ca) [fA]	%1σ	36Ar(cl) [fA]	%1σ	37Ar(ca) [fA]	%1σ	38Ar(a) [fA]	%1σ	38Ar(c) [fA]	%1σ	38Ar(k) [fA]	%1σ	38Ar(ca) [fA]	%1σ	38Ar(cl) [fA]	%1σ	39Ar(k) [fA]	%1σ	39Ar(ca) [fA]	%1σ	40Ar(r) [fA]	%1σ	40Ar(a) [fA]	%1σ	40Ar(c) [fA]	%1σ	40Ar(k) [fA]	%1σ
20F28905	0.5 %	0.1014165	0.62	0.0000000	0.00	0.0000140	26.49	0.0000005	84.27	0.05174	26.49	0.0191170	0.64	0.0000000	0.00	0.0001549	66.19	0.0000093	28.19	0.0112192	84.28	0.012827	66.19	0.0000332	26.51	0.299432	63.67	30.2789	0.62	0.0000000	0.00	0.0000078	66.89
20F28907	1.5 %	2.5176519	0.21	0.0000000	0.00	0.0005699	0.70	0.0000059	7.75	2.10830	0.68	0.4745774	0.26	0.0000000	0.00	0.0060072	1.82	0.0003795	9.65	0.1392570	7.81	0.497408	1.82	0.0013546	1.14	0.710208	248.10	751.6701	0.23	0.0000000	0.00	0.0003019	9.82
20F28908	2.0 %	1.9599840	0.22	0.0000000	0.00	0.0020915	0.30	0.0000064	6.86	7.73778	0.24	0.3694570	0.27	0.0000000	0.00	0.0190176	0.59	0.0013928	9.63	0.1507778	6.92	1.574698	0.59	0.0049715	0.95	0.444240	317.52	585.1728	0.24	0.0000000	0.00	0.0009558	9.67
20F28910	2.5 %	0.3626033	0.33	0.0000000	0.00	0.0025998	0.28	0.0000013	33.46	9.61832	0.22	0.0683507	0.37	0.0000000	0.00	0.0233083	0.46	0.0017313	9.63	0.0297663	33.47	1.929975	0.45	0.0061798	0.95	2.777289	13.52	108.2588	0.35	0.0000000	0.00	0.0011715	9.66
20F28911	3.0 %	0.2803596	0.32	0.0000000	0.00	0.0031824	0.26	0.0000011	40.99	11.77359	0.20	0.0528478	0.36	0.0000000	0.00	0.0240072	0.46	0.0021192	9.63	0.0255192	41.00	1.987848	0.45	0.0075645	0.94	3.439800	8.16	83.7042	0.33	0.0000000	0.00	0.0012066	9.66
20F28913	3.5 %	0.1499347	0.44	0.0000000	0.00	0.0042343	0.25	0.0000006	72.92	15.66500	0.19	0.0282627	0.47	0.0000000	0.00	0.0287079	0.37	0.0028197	9.63	0.0140926	72.93	2.377074	0.36	0.0100648	0.94	2.043138	10.01	44.7645	0.45	0.0000000	0.00	0.0014429	9.66
20F28914	4.0 %	0.0702058	0.75	0.0000000	0.00	0.0074434	0.24	0.0000000	0.00	27.53746	0.17	0.0132338	0.77	0.0000000	0.00	0.0461557	0.26	0.0049567	9.63	0.0000000	0.00	3.821784	0.24	0.0176928	0.94	3.105764	5.18	20.9606	0.76	0.0000000	0.00	0.0023198	9.65
20F28916	4.5 %	✓ 0.0614257	0.82	0.0000000	0.00	0.0070474	0.24	0.0000000	#####	26.07244	0.17	0.0115788	0.83	0.0000000	0.00	0.0408418	0.28	0.0046930	9.63	0.0006895	#####	3.381784	0.26	0.0167515	0.94	2.454398	6.23	18.3393	0.83	0.0000000	0.00	0.0020527	9.65
20F28917	5.0 %	✓ 0.0676987	0.79	0.0000000	0.00	0.0091861	0.24	0.0000004	112.75	33.98473	0.17	0.0127612	0.81	0.0000000	0.00	0.0508245	0.24	0.0061173	9.63	0.0090637	112.76	4.208375	0.22	0.0218352	0.94	3.018737	5.40	20.2121	0.80	0.0000000	0.00	0.0025545	9.65
20F28919	5.7 %	✓ 0.0926951	0.64	0.0000000	0.00	0.0138198	0.24	0.0000000	0.00	51.12754	0.16	0.0174730	0.66	0.0000000	0.00	0.0745671	0.18	0.0092030	9.63	0.0000000	0.00	6.174306	0.15	0.0328494	0.93	4.149559	4.37	27.6751	0.65	0.0000000	0.00	0.0037478	9.65
20F28920	6.3 %	✓ 0.0828187	0.71	0.0000000	0.00	0.0120300	0.24	0.0000000	0.00	44.50611	0.17	0.0156113	0.73	0.0000000	0.00	0.0623206	0.20	0.0080111	9.63	0.0000000	0.00	5.160272	0.18	0.0285952	0.93	3.341324	5.38	24.7263	0.72	0.0000000	0.00	0.0031323	9.65
20F28922	7.0 %	✓ 0.0812367	0.74	0.0000000	0.00	0.0103837	0.24	0.0000005	94.13	38.41561	0.17	0.0153131	0.75	0.0000000	0.00	0.0543223	0.23	0.0069148	9.63	0.0111339	94.13	4.497997	0.21	0.0246820	0.93	3.096277	5.87	24.2540	0.74	0.0000000	0.00	0.0027303	9.65
20F28923	7.8 %	✓ 0.0442043	0.99	0.0000000	0.00	0.0072031	0.24	0.0000001	320.85	26.64847	0.17	0.0083325	1.01	0.0000000	0.00	0.0391589	0.31	0.0047967	9.63	0.0033816	320.85	3.242436	0.29	0.0171216	0.94	2.381688	5.62	13.1976	1.00	0.0000000	0.00	0.0019682	9.65
20F28925	8.6 %	0.0533901	0.94	0.0000000	0.00	0.0084565	0.24	0.0000000	0.00	31.28569	0.17	0.0100640	0.95	0.0000000	0.00	0.0442267	0.27	0.0056314	9.63	0.0000000	0.00	3.662061	0.25	0.0201011	0.94	2.139833	7.12	15.9402	0.95	0.0000000	0.00	0.0022229	9.65
20F28926	9.6 %	0.0739639	0.77	0.0000000	0.00	0.0091985	0.24	0.0000001	313.03	34.03056	0.17	0.0139422	0.78	0.0000000	0.00	0.0473889	0.25	0.0061255	9.63	0.0034233	313.03	3.923895	0.24	0.0218646	0.94	2.472591	6.97	22.0827	0.77	0.0000000	0.00	0.0023818	9.65
20F28928	10.6 %	0.0688930	0.81	0.0000000	0.00	0.0092828	0.24	0.0000000	0.00	34.34251	0.17	0.0129863	0.82	0.0000000	0.00	0.0493073	0.24	0.0061817	9.63	0.0000000	0.00	4.082741	0.23	0.0220651	0.93	2.230668	7.59	20.5687	0.82	0.0000000	0.00	0.0024782	9.65
20F28929	11.7 %	0.0530356	0.93	0.0000000	0.00	0.0084878	0.24	0.0000001	412.99	31.40148	0.17	0.0099972	0.95	0.0000000	0.00	0.0456210	0.26	0.0056523	9.63	0.0024508	412.99	3.777514	0.24	0.0201754	0.94	2.481019	6.06	15.8343	0.94	0.0000000	0.00	0.0022930	9.65
20F28931	12.7 %	0.0468513	1.02	0.0000000	0.00	0.0067095	0.24	0.0000002	202.14	24.82226	0.17	0.0088315	1.04	0.0000000	0.00	0.0363202	0.32	0.0044680	9.63	0.0051511	202.14	3.007384	0.30	0.0159483	0.94	3.334926	4.37	13.9879	1.03	0.0000000	0.00	0.0018255	9.65
20F28932	13.7 %	0.0383525	1.25	0.0000000	0.00	0.0065657	0.24	0.0000000	0.00	24.29056	0.17	0.0072294	1.26	0.0000000	0.00	0.0356188	0.31	0.0043723	9.63	0.0000000	0.00	2.949309	0.30	0.0156067	0.94	1.520116	9.58	11.4505	1.26	0.0000000	0.00	0.0017902	9.65
20F28934	14.5 %	0.0135276	2.76	0.0000000	0.00	0.0031483	0.26	0.0000000	0.00	11.64731	0.20	0.0025500	2.77	0.0000000	0.00	0.0160305	0.67	0.0020965	9.63	0.0000000	0.00	1.327360	0.66	0.0074834	0.94	0.795941	14.30	4.0388	2.76	0.0000000	0.00	0.0008057	9.67
20F28935	15.7 %	0.0288125	1.48	0.0000000	0.00	0.0030594	0.27	0.0000000	0.00	11.31859	0.21	0.0054312	1.49	0.0000000	0.00	0.0159670	0.68	0.0020373	9.63	0.0000000	0.00	1.322101	0.67	0.0072722	0.94	0.812378	15.90	8.6023	1.48	0.0000000	0.00	0.0008025	9.67
20F28937	16.7 %	0.0387204	1.21	0.0000000	0.00	0.0040365	0.25	0.0000000	0.00	14.93359	0.19	0.0072988	1.22	0.0000000	0.00	0.0195063	0.54	0.0026880	9.63	0.0000000	0.00	1.615162	0.53	0.0095948	0.94	0.762080	18.58	11.5604	1.21	0.0000000	0.00	0.0009804	9.66
20F28938	18.0 %	0.0492891	0.94	0.0000000	0.00	0.0044488	0.25	0.0000000	0.00	16.45863	0.18	0.0092910	0.96	0.0000000	0.00	0.0229474	0.48	0.0029626	9.63	0.0000000	0.00	1.900092	0.47	0.0105747	0.94	1.277064	11.08	14.7158	0.95	0.0000000	0.00	0.0011534	9.66
Σ		6.3370710	0.12	0.0000000	0.00	0.1431991	0.06	0.0000171	9.21	529.77825	0.04	1.1945379	0.14	0.0000000	0.00	0.8023282	0.07	0.0953601	2.31	0.4059259	9.20	66.434400	0.07	0.3403825	0.22	47.668054	5.05	1891.9959	0.13	0.0000000	0.00	0.0403257	2.26
Σ								6.4802872	0.11	529.77825	0.04									2.4981521	1.50			66.774783	0.07							1939.7043	0.18

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F28905	0.5 %	2377.713628	#####	4.023156	2.861873	7.887076	5.207069	25.936	1.673234	1.00018390	1.082E-12
20F28907	1.5 %	1505.647249	27.277343	4.227059	0.081807	5.048952	0.092082	25.948	1.673624	1.00018399	2.658E-11
20F28908	2.0 %	370.721934	2.170153	4.898353	0.031010	1.242084	0.007755	25.954	1.673830	1.00018403	2.073E-11
20F28910	2.5 %	57.349396	0.260274	4.967742	0.024976	0.188624	0.001055	25.966	1.674221	1.00018411	3.931E-12
20F28911	3.0 %	43.672761	0.195793	5.900327	0.028995	0.142097	0.000777	25.972	1.674428	1.00018416	3.085E-12
20F28913	3.5 %	19.608866	0.070530	6.562252	0.026347	0.064583	0.000360	25.984	1.674818	1.00018424	1.657E-12
20F28914	4.0 %	6.268752	0.016074	7.172189	0.021131	0.020224	0.000146	25.990	1.675025	1.00018429	8.520E-13
20F28916	4.5 %	✓ 6.119024	0.017325	7.671669	0.024001	0.020148	0.000157	26.002	1.675415	1.00018437	7.362E-13
20F28917	5.0 %	✓ 5.492258	0.013136	8.033816	0.022203	0.018175	0.000133	26.008	1.675622	1.00018441	8.225E-13
20F28919	5.7 %	✓ 5.127690	0.008636	8.236872	0.018440	0.017160	0.000099	26.020	1.676013	1.00018450	1.127E-12
20F28920	6.3 %	✓ 5.409812	0.010720	8.577231	0.021096	0.018279	0.000119	26.026	1.676220	1.00018454	9.937E-13
20F28922	7.0 %	✓ 6.047974	0.013641	8.493995	0.022670	0.020258	0.000139	26.038	1.676611	1.00018462	9.683E-13
20F28923	7.8 %	✓ 4.780183	0.015480	8.175486	0.027607	0.015771	0.000142	26.044	1.676795	1.00018466	5.516E-13
20F28925	8.6 %		0.013671	8.496555	0.025812	0.016796	0.000143	26.056	1.677209	1.00018475	6.401E-13
20F28926	9.6 %		0.015832	8.624591	0.024952	0.021076	0.000152	26.062	1.677393	1.00018479	8.693E-13
20F28928	10.6 %		0.013668	8.366415	0.023398	0.019045	0.000142	26.074	1.677784	1.00018487	8.072E-13
20F28929	11.7 %		0.013020	8.268574	0.024290	0.016200	0.000136	26.080	1.677991	1.00018492	6.484E-13
20F28931	12.7 %		0.018919	8.210233	0.028592	0.017716	0.000168	26.092	1.678383	1.00018500	6.133E-13
20F28932	13.7 %		0.015179	8.192665	0.028380	0.015150	0.000168	26.098	1.678590	1.00018505	4.592E-13
20F28934	14.5 %		0.029220	8.725602	0.060153	0.012493	0.000292	26.110	1.678981	1.00018513	1.712E-13
20F28935	15.7 %		0.049624	8.514228	0.059394	0.023975	0.000358	26.116	1.679189	1.00018517	3.333E-13
20F28937	16.7 %		0.042117	9.191274	0.051290	0.026316	0.000319	26.128	1.679580	1.00018526	4.362E-13
20F28938	18.0 %		0.040690	8.614078	0.043059	0.028125	0.000276	26.134	1.679788	1.00018530	5.662E-13

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F28905	0.5 %	0.0049508 ± 0.0002555	0.0149776 ± 0.0056860	0.0120823 ± 0.0071059	0.0137331 ± 0.0060582	1.1331740 ± 0.0149277
20F28907	1.5 %	0.0049911 ± 0.0002555	0.0218903 ± 0.0056860	0.0072883 ± 0.0071059	0.0132229 ± 0.0060582	1.1567754 ± 0.0149277
20F28908	2.0 %	0.0050237 ± 0.0002555	0.0230698 ± 0.0056860	0.0058967 ± 0.0071059	0.0129366 ± 0.0060582	1.1664767 ± 0.0149277
20F28910	2.5 %	0.0050915 ± 0.0002555	0.0221442 ± 0.0056860	0.0048959 ± 0.0071059	0.0124827 ± 0.0060582	1.1800202 ± 0.0149277
20F28911	3.0 %	0.0051252 ± 0.0002555	0.0205652 ± 0.0056860	0.0050195 ± 0.0071059	0.0123291 ± 0.0060582	1.1848756 ± 0.0149277
20F28913	3.5 %	0.0051745 ± 0.0002555	0.0166885 ± 0.0056860	0.0060574 ± 0.0071059	0.0122747 ± 0.0060582	1.1901833 ± 0.0149277
20F28914	4.0 %	0.0051896 ± 0.0002555	0.0145846 ± 0.0056860	0.0068708 ± 0.0071059	0.0123919 ± 0.0060582	1.1911701 ± 0.0149277
20F28916	4.5 %	0.0051917 ± 0.0002555	0.0113073 ± 0.0056860	0.0085840 ± 0.0071059	0.0129153 ± 0.0060582	1.1901123 ± 0.0149277
20F28917	5.0 %	0.0051774 ± 0.0002555	0.0102042 ± 0.0056860	0.0094689 ± 0.0071059	0.0133537 ± 0.0060582	1.1882335 ± 0.0149277
20F28919	5.7 %	0.0051209 ± 0.0002555	0.0097401 ± 0.0056860	0.0108849 ± 0.0071059	0.0144672 ± 0.0060582	1.1827289 ± 0.0149277
20F28920	6.3 %	0.0050759 ± 0.0002555	0.0104559 ± 0.0056860	0.0114302 ± 0.0071059	0.0151897 ± 0.0060582	1.1790130 ± 0.0149277
20F28922	7.0 %	0.0049665 ± 0.0002555	0.0136819 ± 0.0056860	0.0119677 ± 0.0071059	0.0167405 ± 0.0060582	1.1710285 ± 0.0149277
20F28923	7.8 %	0.0049062 ± 0.0002555	0.0160038 ± 0.0056860	0.0119787 ± 0.0071059	0.0175233 ± 0.0060582	1.1670329 ± 0.0149277
20F28925	8.6 %	0.0047593 ± 0.0002555	0.0227834 ± 0.0056860	0.0114379 ± 0.0071059	0.0192920 ± 0.0060582	1.1580805 ± 0.0149277
20F28926	9.6 %	0.0046931 ± 0.0002555	0.0263062 ± 0.0056860	0.0109659 ± 0.0071059	0.0200321 ± 0.0060582	1.1543299 ± 0.0149277
20F28928	10.6 %	0.0045634 ± 0.0002555	0.0341904 ± 0.0056860	0.0095919 ± 0.0071059	0.0213619 ± 0.0060582	1.1473793 ± 0.0149277
20F28929	11.7 %	0.0045073 ± 0.0002555	0.0382266 ± 0.0056860	0.0087271 ± 0.0071059	0.0218578 ± 0.0060582	1.1445044 ± 0.0149277
20F28931	12.7 %	0.0044434 ± 0.0002555	0.0445565 ± 0.0056860	0.0070471 ± 0.0071059	0.0222013 ± 0.0060582	1.1411823 ± 0.0149277
20F28932	13.7 %	0.0044406 ± 0.0002555	0.0466977 ± 0.0056860	0.0062481 ± 0.0071059	0.0219731 ± 0.0060582	1.1407962 ± 0.0149277
20F28934	14.5 %	0.0045168 ± 0.0002555	0.0470546 ± 0.0056860	0.0052301 ± 0.0071059	0.0205220 ± 0.0060582	1.1432610 ± 0.0149277
20F28935	15.7 %	0.0046111 ± 0.0002555	0.0446077 ± 0.0056860	0.0051127 ± 0.0071059	0.0190980 ± 0.0060582	1.1465190 ± 0.0149277
20F28937	16.7 %	0.0049190 ± 0.0002555	0.0332363 ± 0.0056860	0.0061158 ± 0.0071059	0.0148782 ± 0.0060582	1.1569772 ± 0.0149277
20F28938	18.0 %	0.0051635 ± 0.0002555	0.0228005 ± 0.0056860	0.0075030 ± 0.0071059	0.0116990 ± 0.0060582	1.1650604 ± 0.0149277

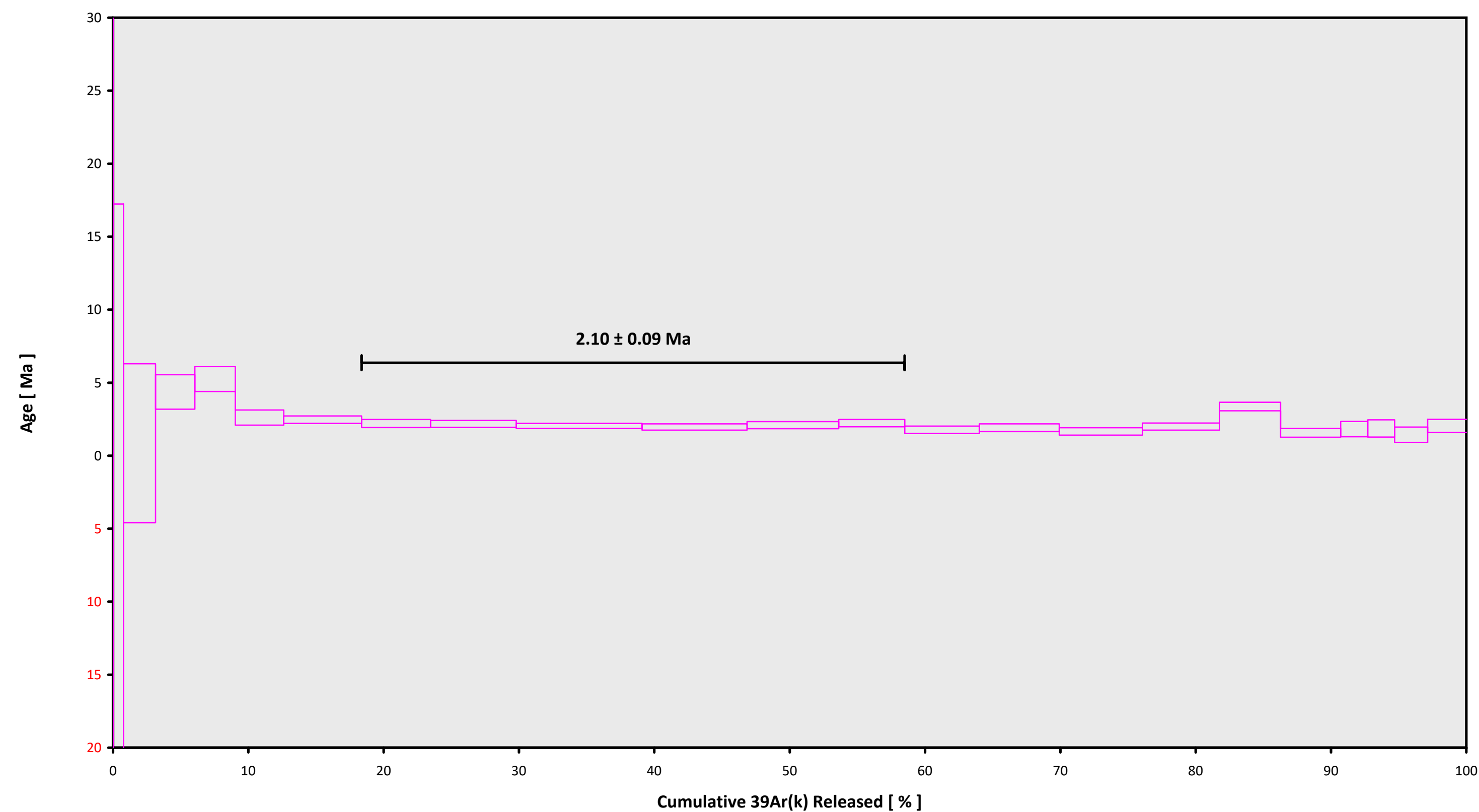
Intercept Values		36Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]	r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]	r2	Regression (type,n)
20F28905	0.5 %	0.1005560 ± 0.0004993	0.4637	EXP 148 of 150	0.0160061 ± 0.0059201	0.0159	EXP 149 of 150	0.0184589 ± 0.0062525	0.0004	EXP 150 of 150	0.0265997 ± 0.0059540	0.4598	EXP 150 of 150	31.711515 ± 0.017751	0.8898	EXP 148 of 150
20F28907	1.5 %	2.3785845 ± 0.0021885	0.9918	EXP 150 of 150	1.2403521 ± 0.0061196	0.7853	EXP 150 of 150	0.6137616 ± 0.0078941	0.4768	EXP 150 of 150	0.5122262 ± 0.0067059	0.9283	EXP 150 of 150	752.117015 ± 0.039916	1.0000	EXP 149 of 150
20F28908	2.0 %	1.8544136 ± 0.0019818	0.9884	EXP 150 of 150	4.6089818 ± 0.0061582	0.9833	EXP 150 of 150	0.5354710 ± 0.0072935	0.4369	EXP 150 of 150	1.5933687 ± 0.0069516	0.8180	EXP 150 of 150	586.784509 ± 0.037223	0.9999	EXP 149 of 150
20F28910	2.5 %	0.3493204 ± 0.0008871	0.9118	EXP 150 of 150	5.7343092 ± 0.0063332	0.9885	EXP 150 of 150	0.1184253 ± 0.0069814	0.0545	EXP 150 of 150	1.9495723 ± 0.0062909	0.6726	EXP 150 of 150	112.217329 ± 0.018781	0.9991	EXP 148 of 150
20F28911	3.0 %	0.2723830 ± 0.0006204	0.9141	EXP 145 of 150	7.0249222 ± 0.0067985	0.9912	EXP 150 of 150	0.0996136 ± 0.0076824	0.0346	EXP 150 of 150	2.0087049 ± 0.0064984	0.7596	EXP 150 of 150	88.330044 ± 0.018102	0.9982	EXP 149 of 150
20F28913	3.5 %	0.1504893 ± 0.0004992	0.8013	EXP 148 of 150	9.3552949 ± 0.0068429	0.9952	EXP 150 of 150	0.0679242 ± 0.0074332	0.0153	EXP 150 of 150	2.4005653 ± 0.0058601	0.9038	EXP 150 of 150	47.999258 ± 0.018628	0.9792	EXP 150 of 150
20F28914	4.0 %	0.0783790 ± 0.0004052	0.0937	EXP 150 of 150	16.4583601 ± 0.0073498	0.9982	EXP 150 of 150	0.0561703 ± 0.0077004	0.0038	EXP 150 of 150	3.8537224 ± 0.0067757	0.9632	EXP 150 of 150	25.259900 ± 0.014624	0.9482	EXP 149 of 150
20F28916	4.5 %	0.0697321 ± 0.0003798	0.1369	EXP 150 of 150	15.5816230 ± 0.0082963	0.9975	EXP 150 of 150	0.0492964 ± 0.0075327	0.0046	EXP 150 of 150	3.4130904 ± 0.0063001	0.9593	EXP 150 of 150	21.985831 ± 0.017032	0.9412	EXP 149 of 150
20F28917	5.0 %	0.0776467 ± 0.0004144	0.1916	EXP 150 of 150	20.3122568 ± 0.0088061	0.9983	EXP 150 of 150	0.0694030 ± 0.0073359	0.0206	EXP 150 of 150	4.2456047 ± 0.0067706	0.9712	EXP 150 of 150	24.421636 ± 0.016048	0.8829	EXP 149 of 150
20F28919	5.7 %	0.1055181 ± 0.0004610	0.5538	EXP 150 of 150	30.5567883 ± 0.0091189	0.9992	EXP 150 of 150	0.0882830 ± 0.0073440	0.0260	EXP 149 of 150	6.2246169 ± 0.0067231	0.9876	EXP 150 of 150	33.011094 ± 0.016550	0.8426	EXP 149 of 150
20F28920	6.3 %	0.0944769 ± 0.0004655	0.3794	EXP 150 of 150	26.5941757 ± 0.0100918	0.9988	EXP 150 of 150	0.0730782 ± 0.0068539	0.0038	EXP 146 of 150	5.2065599 ± 0.0068348	0.9809	EXP 150 of 150	29.249807 ± 0.016047	0.1150	EXP 150 of 150
20F28922	7.0 %	0.0913252 ± 0.0004749	0.3141	EXP 150 of 150	22.9448486 ± 0.0088704	0.9987	EXP 150 of 150	0.0758336 ± 0.0076881	0.0240	EXP 150 of 150	4.5416005 ± 0.0069437	0.9738	EXP 150 of 150	28.524069 ± 0.017724	0.0007	EXP 149 of 150
20F28923	7.8 %	0.0533612 ± 0.0003130	0.0354	EXP 149 of 150	15.9083175 ± 0.0084594	0.9974	EXP 150 of 150	0.0437654 ± 0.0082030	0.0030	EXP 150 of 150	3.2786529 ± 0.0071276	0.9475	EXP 148 of 150	16.748315 ± 0.016478	0.9761	EXP 150 of 150
20F28925	8.6 %	0.0630538 ± 0.0003825	0.0562	EXP 150 of 150	18.6679875 ± 0.0093996	0.9976	EXP 150 of 150	0.0478408 ± 0.0071829	0.0080	EXP 150 of 150	3.7032293 ± 0.0068061	0.9627	EXP 150 of 150	19.240297 ± 0.015440	0.9546	EXP 149 of 150
20F28926	9.6 %	0.0830792 ± 0.0004449	0.2373	EXP 149 of 150	20.3020808 ± 0.0097438	0.9979	EXP 150 of 150	0.0600087 ± 0.0080153	0.0056	EXP 150 of 150	3.9676941 ± 0.0067697	0.9679	EXP 150 of 150	25.711965 ± 0.018749	0.1158	EXP 150 of 150
20F28928	10.6 %	0.0782491 ± 0.0004366	0.2859	EXP 148 of 150	20.4757599 ± 0.0079918	0.9986	EXP 148 of 150	0.0534684 ± 0.0077041	0.0032	EXP 150 of 150	4.1281471 ± 0.0066851	0.9710	EXP 150 of 150	23.949227 ± 0.017322	0.6460	EXP 150 of 150
20F28929	11.7 %	0.0624972 ± 0.0003740	0.0146	EXP 149 of 150	18.7129708 ± 0.0079363	0.9984	EXP 150 of 150	0.0550794 ± 0.0072031	0.0101	EXP 150 of 150	3.8213780 ± 0.0066347	0.9664	EXP 150 of 150	19.462113 ± 0.016478	0.9431	EXP 150 of 150
20F28931	12.7 %	0.0549281 ± 0.0003609	0.0000	EXP 150 of 150	14.7744455 ± 0.0074090	0.9977	EXP 147 of 150	0.0477968 ± 0.0076149	0.0176	EXP 150 of 150	3.0469904 ± 0.0067308	0.9422	EXP 150 of 150	18.465854 ± 0.017090	0.9442	EXP 150 of 150
20F28932	13.7 %	0.0467789 ± 0.0003647	0.0040	EXP 150 of 150	14.4530868 ± 0.0081857	0.9971	EXP 149 of 150	0.0338974 ± 0.0074040	0.0005	EXP 150 of 150	2.9883173 ± 0.0063540	0.9470	EXP 149 of 150	14.113218 ± 0.017065	0.9776	EXP 150 of 150
20F28934	14.5 %	0.0202349 ± 0.0002403	0.7131	EXP 150 of 150	6.9039631 ± 0.0062247	0.9929	EXP 147 of 150	0.0111738 ± 0.0068609	0.0002	EXP 142 of 150	1.3560082 ± 0.0063639	0.6815	EXP 150 of 150	5.978818 ± 0.016766	0.9918	EXP 150 of 150
20F28935	15.7 %	0.0346525 ± 0.0003046	0.2834	EXP 150 of 150	6.7093990 ± 0.0070886	0.9895	EXP 150 of 150	0.0117257 ± 0.0072820	0.0003	EXP 147 of 150	1.3491120 ± 0.0064249	0.7314	EXP 149 of 150	10.561955 ± 0.014188	0.9901	EXP 147 of 150
20F28937	16.7 %	0.0452202 ± 0.0003499	0.0574	EXP 150 of 150	8.8758257 ± 0.0070248	0.9943	EXP 148 of 150	0.0190842 ± 0.0068116	0.0023	EXP 150 of 150	1.6404178 ± 0.0059619	0.8204	EXP 150 of 150	13.480413 ± 0.016551	0.9777	EXP 150 of 150
20F28938	18.0 %	0.0558150 ± 0.0003428	0.0153	EXP 150 of 150	9.7948609 ± 0.0070399	0.9953	EXP 149 of 150	0.0197182 ± 0.0073072	0.0005	EXP 149 of 150	1.9232861 ± 0.0064329	0.8514	EXP 150 of 150	17.159035 ± 0.017278	0.9495	EXP 149 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F28905	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28907	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28908	2.0 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28910	2.5 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28911	3.0 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28913	3.5 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28914	4.0 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28916	4.5 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28917	5.0 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28919	5.7 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28920	6.3 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28922	7.0 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28923	7.8 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28925	8.6 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28926	9.6 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28928	10.6 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28929	11.7 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28931	12.7 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28932	13.7 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28934	14.5 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28935	15.7 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28937	16.7 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	01
20F28938	18.0 %	Dan Miggins	20-OSU-04	0.00	0.00	13.68	Oregon\McClaghry (19-20)	20F28901	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
20F28905	0.5 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	14	4	1
	1.5 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	14	21	1
20F28908	2.0 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	14	30	1
20F28910	2.5 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	14	47	1
20F28911	3.0 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	14	56	1
20F28913	3.5 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	15	13	1
20F28914	4.0 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	15	22	1
20F28916	4.5 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	15	39	1
20F28917	5.0 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	15	48	1
20F28919	5.7 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	16	5	1
20F28920	6.3 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	16	14	1
20F28922	7.0 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	16	31	1
20F28923	7.8 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	16	39	1
20F28925	8.6 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	16	57	1
20F28926	9.6 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	17	5	1
20F28928	10.6 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	17	22	1
20F28929	11.7 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	17	31	1
20F28931	12.7 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	17	48	1
20F28932	13.7 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	17	57	1
20F28934	14.5 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	18	14	1
20F28935	15.7 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	18	23	1
20F28937	16.7 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	18	40	1
20F28938	18.0 %	84 DRBLJ 19	Plagioclase	Badger Lake	FCT-NM (4B11-20)	28.201	0.082	Kuiper et al (2008)	9.34924	0.048	0.00166062	0.048	297.765	0.157	1.0006683	0.047	1	3.54E-14	27	OCT	2020	18	49	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
20F28905	0.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28907	1.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28908	2.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28910	2.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28911	3.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28913	3.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28914	4.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28916	4.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28917	5.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28919	5.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28920	6.3 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28922	7.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28923	7.8 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28925	8.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28926	9.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28928	10.6 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28929	11.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28931	12.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28932	13.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28934	14.5 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28935	15.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28937	16.7 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0
20F28938	18.0 %	298.56	0.104	0.018	35	0.1885	0.159	1.493	3	0.000643	0.92	0.00018	9.63	0.00027	0.17	0.000607	9.65	0.012077	0.09	0	0	0.43	0	0	0	0	0

20F28901.AGE >>> 84 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

2.10 ± 0.09

TOTAL FUSION

2.18 ± 0.22

NORMAL ISOCHRON

2.05 ± 1.03

INVERSE ISOCHRON

2.06 ± 0.90

MSWD (PROBABILITY)

0.83 (53%)

Sample Info

Plagioclase

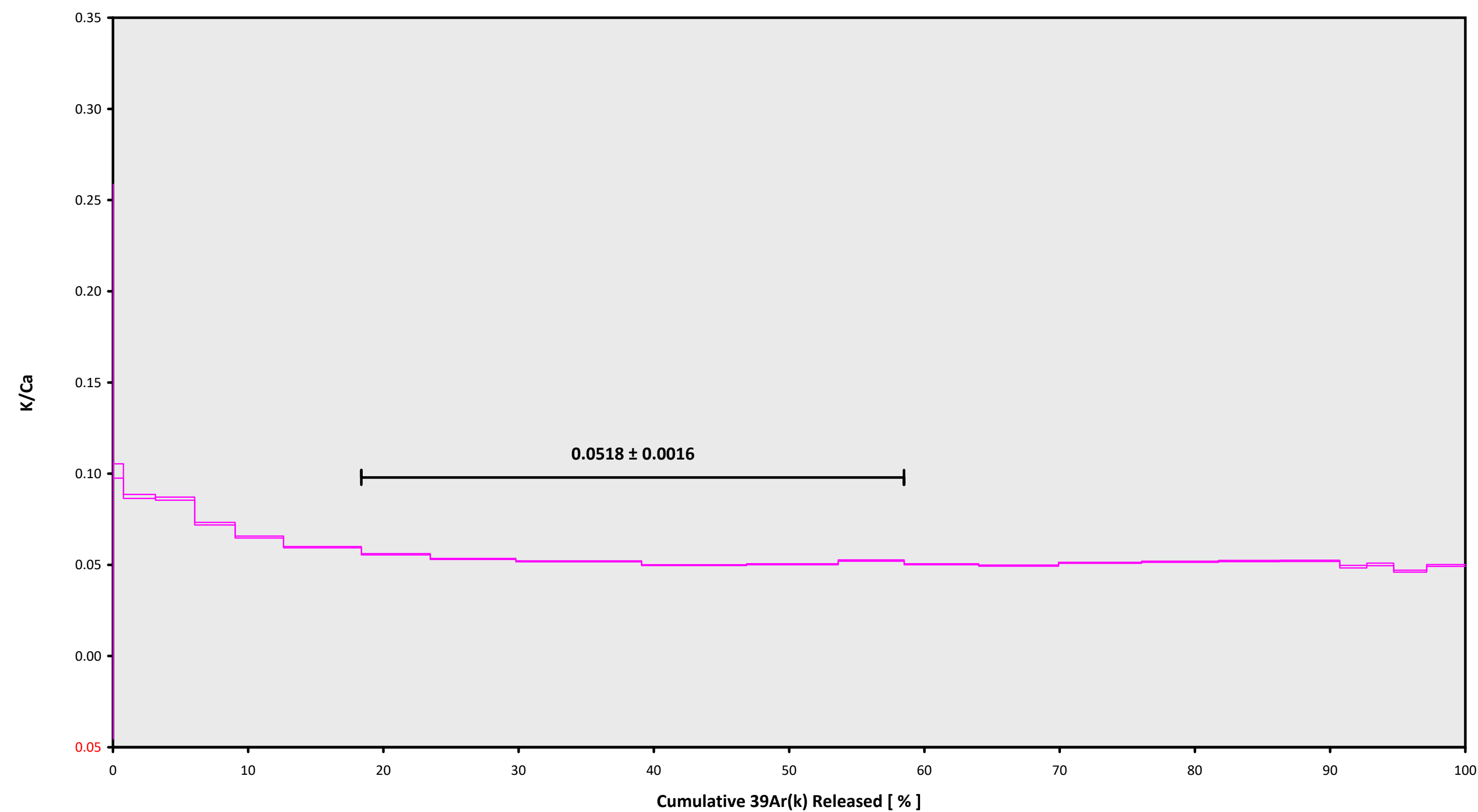
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B11-20)

J = $0.00166062 \pm 0.00000080$

20F28901.AGE >>> 84 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

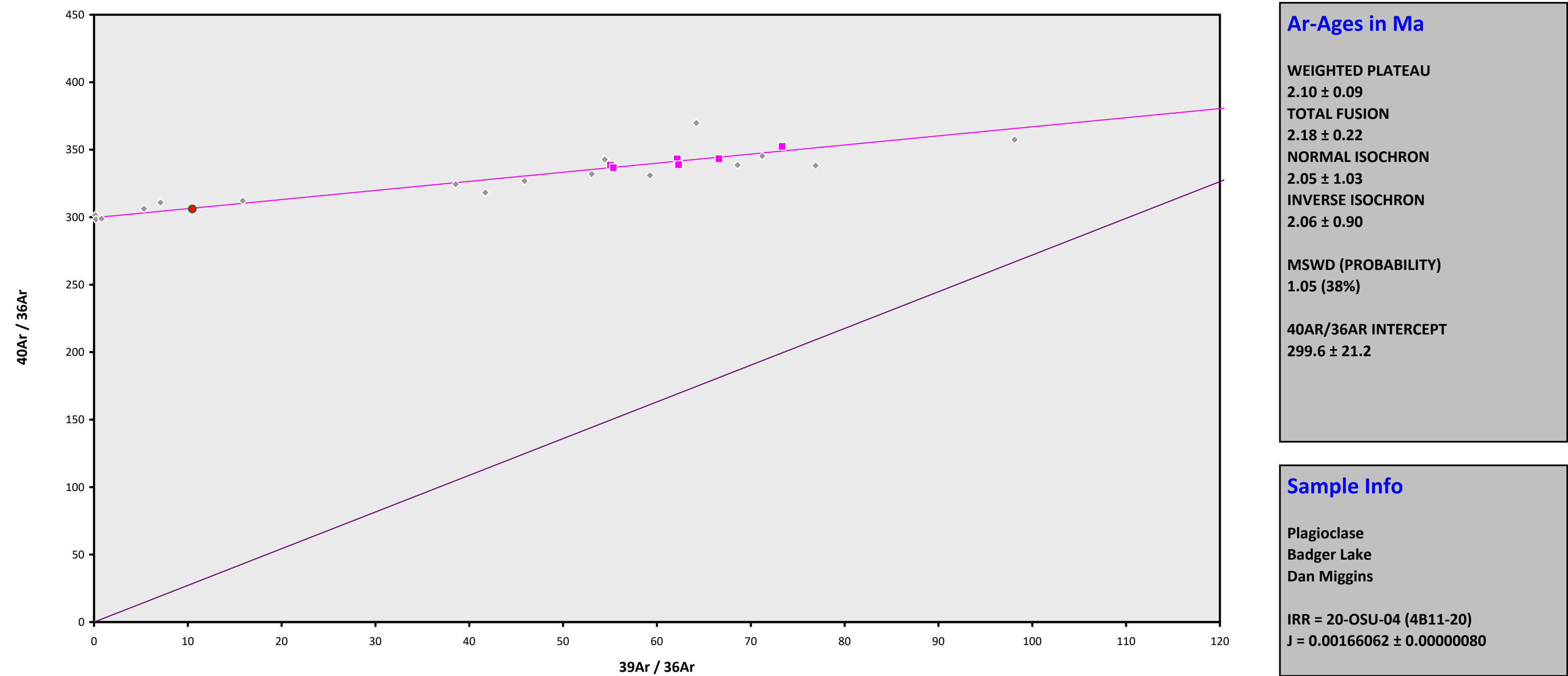
WEIGHTED PLATEAU
2.10 ± 0.09
TOTAL FUSION
2.18 ± 0.22
NORMAL ISOCHRON
2.05 ± 1.03
INVERSE ISOCHRON
2.06 ± 0.90

Sample Info

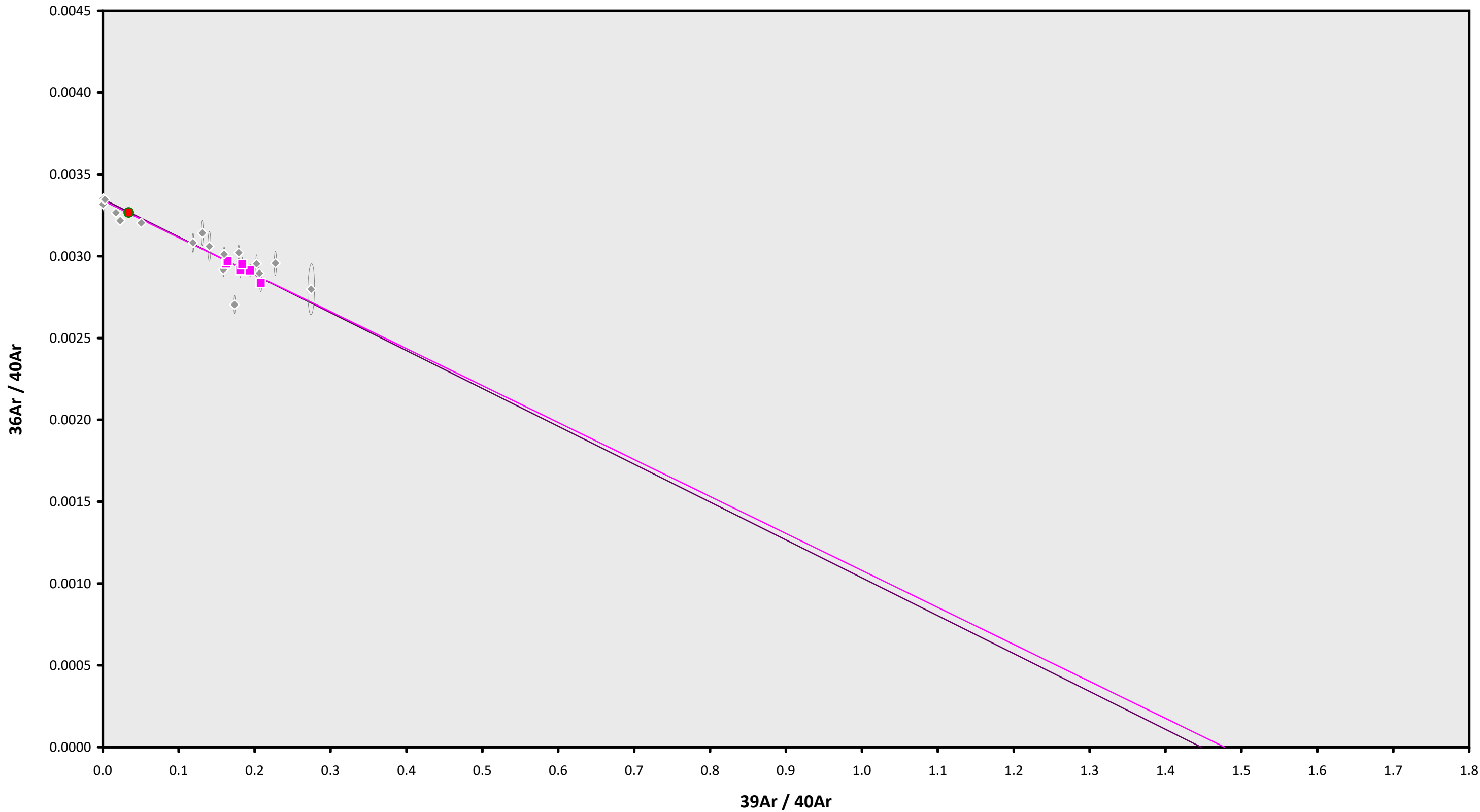
Plagioclase
Badger Lake
Dan Miggins

IRR = 20-OSU-04 (4B11-20)
J = 0.00166062 ± 0.00000080

20F28901.AGE >>> 84 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



20F28901.AGE >>> 84 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

2.10 ± 0.09

TOTAL FUSION

2.18 ± 0.22

NORMAL ISOCHRON

2.05 ± 1.03

INVERSE ISOCHRON

2.06 ± 0.90

MSWD (PROBABILITY)

1.05 (38%)

SPREADING FACTOR

3.1%

40AR/36AR INTERCEPT

299.5 ± 21.2

Sample Info

Plagioclase

Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B11-20)

J = $0.00166062 \pm 0.00000080$