

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
20F28383	0.4 %	0.4223004	0.348	1.95754	0.652	0.256698	3.949	10.8655	0.094	133.9468	0.192	2.38455 ± 2.93773	7.26 ± 8.97	19.34	0.53	2.39 ± 0.03
20F28385	0.5 %	0.0558787	1.750	0.89744	1.523	0.072814	14.036	4.4381	0.204	19.0811	1.345	0.45227 ± 0.96958	1.38 ± 2.95	10.52	0.22	2.13 ± 0.07
20F28386	0.6 %	0.0209292	4.407	0.55370	2.307	0.040684	26.040	2.6219	0.348	7.4849	3.430	0.14946 ± 0.68464	0.45 ± 2.08	5.23	0.13	2.04 ± 0.10
20F28387	0.7 %	0.0917724	1.111	2.74158	0.476	0.235323	4.311	12.8176	0.082	34.8760	0.737	0.02880 ± 0.54195	0.09 ± 1.65	1.06	0.63	2.01 ± 0.02
20F28389	0.9 %	0.0092308	9.789	0.62410	2.210	0.051328	20.009	2.6309	0.342	4.0887	6.277	0.24819 ± 0.41679	0.75 ± 1.27	15.97	0.13	1.81 ± 0.08
20F28390	1.1 %	0.0438576	2.145	2.61911	0.509	0.207853	5.001	11.6736	0.091	20.7403	1.239	0.37532 ± 0.28950	1.14 ± 0.88	21.12	0.57	1.92 ± 0.02
20F28391	1.3 %	0.0282643	3.272	2.75403	0.479	0.204791	5.004	11.9620	0.088	17.3782	1.477	0.58042 ± 0.18854	1.76 ± 0.57	39.95	0.59	1.87 ± 0.02
20F28393	1.5 %	0.0319263	2.921	4.10415	0.326	0.306714	3.355	18.3834	0.069	25.5406	1.005	0.75357 ± 0.13539	2.29 ± 0.41	54.23	0.90	1.93 ± 0.01
20F28394	1.8 %	0.0437182	2.163	6.72259	0.241	0.475751	2.139	31.7594	0.053	45.7839	0.561	0.94113 ± 0.10357	2.86 ± 0.31	65.28	1.56	2.03 ± 0.01
20F28395	2.2 %	0.0492576	1.903	8.34190	0.205	0.591228	1.674	41.8574	0.049	63.6899	0.403	1.09557 ± 0.08747	3.33 ± 0.27	71.99	2.06	2.16 ± 0.01
20F28397	2.6 %	0.0348879	2.714	10.58827	0.185	0.727587	1.418	56.0612	0.046	80.0699	0.321	1.21131 ± 0.04599	3.68 ± 0.14	84.80	2.76	2.28 ± 0.01
20F28398	3.1 %	0.0409250	2.336	13.36223	0.170	0.922401	1.103	74.0536	0.043	107.3950	0.239	1.25881 ± 0.03996	3.82 ± 0.12	86.79	3.64	2.38 ± 0.01
20F28399	3.6 %	0.0488046	1.948	20.01628	0.152	1.385697	0.761	116.9236	0.041	167.1760	0.154	1.28867 ± 0.02909	3.91 ± 0.09	90.12	5.75	2.51 ± 0.01
20F28401	4.1 %	0.0362103	2.575	23.22211	0.147	1.611027	0.685	138.4619	0.042	190.5818	0.135	1.29402 ± 0.01756	3.93 ± 0.05	94.00	6.81	2.56 ± 0.01
20F28402	4.7 %	0.0279843	3.311	22.78033	0.149	1.596369	0.617	136.9155	0.041	184.0817	0.140	1.28360 ± 0.01367	3.90 ± 0.04	95.46	6.74	2.58 ± 0.01
20F28403	5.3 %	0.0355252	2.628	28.97168	0.144	2.028720	0.532	174.6210	0.041	233.0300	0.111	1.27391 ± 0.01304	3.87 ± 0.04	95.45	8.59	2.59 ± 0.01
20F28405	6.0 %	✓0.0376905	2.521	31.87551	0.145	2.209651	0.512	190.0449	0.041	250.8282	0.103	1.26139 ± 0.01251	3.83 ± 0.04	95.56	9.35	2.56 ± 0.01
20F28406	6.8 %	✓0.0379130	2.488	29.18749	0.144	2.024846	0.525	171.1681	0.040	225.3542	0.114	1.24962 ± 0.01427	3.80 ± 0.04	94.90	8.42	2.52 ± 0.01
20F28407	7.5 %	✓0.0284574	3.284	27.13451	0.145	1.816066	0.573	155.5273	0.041	201.7823	0.128	1.24547 ± 0.01176	3.78 ± 0.04	95.99	7.65	2.46 ± 0.01
20F28409	8.3 %	✓0.0366009	2.534	25.08056	0.147	1.639145	0.619	137.8096	0.041	181.3779	0.142	1.23367 ± 0.01757	3.75 ± 0.05	93.72	6.78	2.36 ± 0.01
20F28410	9.1 %	✓0.0312911	2.998	20.44037	0.153	1.290305	0.839	107.3829	0.042	141.6037	0.182	1.22729 ± 0.01993	3.73 ± 0.06	93.06	5.28	2.26 ± 0.01
20F28411	10.1 %	✓0.0257087	3.603	17.97475	0.158	1.070491	1.064	89.2409	0.043	117.5053	0.219	1.22772 ± 0.02021	3.73 ± 0.06	93.23	4.39	2.13 ± 0.01
20F28413	11.2 %	✓0.0228664	4.054	14.14980	0.165	0.816763	1.274	67.6548	0.044	89.7992	0.286	1.22020 ± 0.02490	3.71 ± 0.08	91.92	3.33	2.06 ± 0.01
20F28414	12.4 %	✓0.0151127	6.093	11.41680	0.179	0.615618	1.742	51.1315	0.047	67.2698	0.382	1.22605 ± 0.02460	3.72 ± 0.07	93.18	2.52	1.93 ± 0.01
20F28415	13.6 %	✓0.0160345	5.729	9.56743	0.194	0.490171	2.166	40.3395	0.049	53.9584	0.476	1.21084 ± 0.03313	3.68 ± 0.10	90.51	1.98	1.81 ± 0.01
20F28417	14.9 %	✓0.0097647	9.229	8.20066	0.210	0.404911	2.561	32.9090	0.051	43.3430	0.593	1.22972 ± 0.03126	3.73 ± 0.09	93.35	1.62	1.73 ± 0.01
20F28418	16.2 %	✓0.0112773	8.052	8.13608	0.210	0.404549	2.524	34.4883	0.050	45.9691	0.559	1.23271 ± 0.03191	3.74 ± 0.10	92.47	1.70	1.82 ± 0.01
20F28419	17.6 %	✓0.0098303	9.332	8.33291	0.211	0.435341	2.358	36.7762	0.051	48.8878	0.525	1.25082 ± 0.02824	3.80 ± 0.09	94.08	1.81	1.90 ± 0.01
20F28421	19.0 %	✓0.0108569	8.383	6.27675	0.258	0.325375	3.205	27.1608	0.053	37.1219	0.692	1.23850 ± 0.04069	3.76 ± 0.12	90.60	1.34	1.86 ± 0.01
20F28422	20.5 %	✓0.0133545	6.819	5.14398	0.290	0.284093	3.566	23.2223	0.058	33.2957	0.771	1.23809 ± 0.05379	3.76 ± 0.16	86.34	1.14	1.94 ± 0.01
20F28424	21.8 %	✓0.0148930	6.101	4.76645	0.285	0.274741	3.916	21.6774	0.061	31.9960	0.803	1.23773 ± 0.06186	3.76 ± 0.19	83.84	1.07	1.96 ± 0.01
Σ		1.3431247	0.396	377.94113	0.037	24.817049	0.234	2032.5803	0.010	2905.0373	0.049					

Information on Analysis and Constants Used in Calculations	
Project = MCCLAUGHRY (19-20) Sample = 22 DRBLJ 19 Material = Groundmass Location = Badger Lake Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B2-20) Position = X: 0 Y: 0 Z/H: 1.506825 mm FCT-NM Age = 28.201 ± 0.023 Ma FCT-NM Reference = Kuiper et al (2008) FCT-NM 40Ar/39Ar Ratio = 9.34781 ± 0.00570 FCT-NM J-value = 0.00166087 ± 0.00000101 Air Shot 40Ar/36Ar = 296.9340 ± 0.3474 Air Shot MDF = 1.00137076 ± 0.00039400 (LIN) Experiment Type = Incremental Heating Extraction Method = Bulk Laser Heating Heating = 64 sec Isolation = 6.12 min Instrument = ARGUS-VI-F Preferred Age = Mini Plateau 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) = 378.99 ± 37.81 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 Error Mean		1.24150 ± 0.00722 ± 0.58% Full External Error ± 0.20 Analytical Error ± 0.02	3.77 ± 0.02 ± 0.59%	1.84 3% 1.76 1.3582	58.38 15 2σ Confidence Limit Error Magnification	2.11 ± 0.15
Total Fusion Age		1.19739 ± 0.01719 ± 1.44% Full External Error ± 0.20 Analytical Error ± 0.05	3.64 ± 0.05 ± 1.44%		31	2.31 ± 0.00
Normal Isochron Error Chron	272.27 ± 96.87 ± 35.58%	1.26161 ± 0.01956 ± 1.55% Full External Error ± 0.21 Analytical Error ± 0.06	3.83 ± 0.06 ± 1.55%	7.19 0% 1.78 2.6810	58.38 15 2σ Confidence Limit Error Magnification 1 Number of Iterations	
Inverse Isochron Error Chron	274.54 ± 99.26 ± 36.15%	1.26405 ± 0.01959 ± 1.55% Full External Error ± 0.21 Analytical Error ± 0.06	3.84 ± 0.06 ± 1.55%	8.15 0% 1.78 2.8554	58.38 15 2σ Confidence Limit Error Magnification 5 Number of Iterations	
Notes Excess Initial 40Ar/36Ar = 378.99 ± 9.98 (%SD).				0.0000064961 0.0010837209 12%	Convergence 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
20F28383	0.4 %	0.4217697	1.95754	0.0456350	10.8642	25.9063	7.26 ± 8.97	19.34	0.53	2.39 ± 0.03
20F28385	0.5 %	0.0556358	0.89744	0.0085731	4.4375	2.0070	1.38 ± 2.95	10.52	0.22	2.13 ± 0.07
20F28386	0.6 %	0.0207793	0.55370	0.0050070	2.6215	0.3918	0.45 ± 2.08	5.23	0.13	2.04 ± 0.10
20F28387	0.7 %	0.0910291	2.74158	0.0628934	12.8159	0.3691	0.09 ± 1.65	1.06	0.63	2.01 ± 0.02
20F28389	0.9 %	0.0090615	0.62410	0.0177384	2.6305	0.6529	0.75 ± 1.27	15.97	0.13	1.81 ± 0.08
20F28390	1.1 %	0.0431476	2.61911	0.0582866	11.6719	4.3807	1.14 ± 0.88	21.12	0.57	1.92 ± 0.02
20F28391	1.3 %	0.0275180	2.75403	0.0546647	11.9602	6.9419	1.76 ± 0.57	39.95	0.59	1.87 ± 0.02
20F28393	1.5 %	0.0308141	4.10415	0.0781817	18.3808	13.8512	2.29 ± 0.41	54.23	0.90	1.93 ± 0.01
20F28394	1.8 %	0.0418981	6.72259	0.0831368	31.7551	29.8856	2.86 ± 0.31	65.28	1.56	2.03 ± 0.01
20F28395	2.2 %	0.0470001	8.34190	0.0754202	41.8520	45.8519	3.33 ± 0.27	71.99	2.06	2.16 ± 0.01
20F28397	2.6 %	0.0320243	10.58827	0.0426752	56.0544	67.8990	3.68 ± 0.14	84.80	2.76	2.28 ± 0.01
20F28398	3.1 %	0.0373125	13.36223	0.0187207	74.0450	93.2089	3.82 ± 0.12	86.79	3.64	2.38 ± 0.01
20F28399	3.6 %	0.0433942	20.01628	0.0000000	116.9108	150.6591	3.91 ± 0.09	90.12	5.75	2.51 ± 0.01
20F28401	4.1 %	0.0299333	23.22211	0.0000000	138.4469	179.1534	3.93 ± 0.05	94.00	6.81	2.56 ± 0.01
20F28402	4.7 %	0.0218268	22.78033	0.0000000	136.9009	175.7264	3.90 ± 0.04	95.46	6.74	2.58 ± 0.01
20F28403	5.3 %	0.0276942	28.97168	0.0000000	174.6024	222.4282	3.87 ± 0.04	95.45	8.59	2.59 ± 0.01
20F28405	6.0 %	✓ 0.0290745	31.87551	0.0000000	190.0244	239.6939	3.83 ± 0.04	95.56	9.35	2.56 ± 0.01
20F28406	6.8 %	✓ 0.0300237	29.18749	0.0000000	171.1493	213.8717	3.80 ± 0.04	94.90	8.42	2.52 ± 0.01
20F28407	7.5 %	✓ 0.0211229	27.13451	0.0000000	155.5099	193.6825	3.78 ± 0.04	95.99	7.65	2.46 ± 0.01
20F28409	8.3 %	✓ 0.0298216	25.08056	0.0000000	137.7935	169.9922	3.75 ± 0.05	93.72	6.78	2.36 ± 0.01
20F28410	9.1 %	✓ 0.0257660	20.44037	0.0000000	107.3698	131.7735	3.73 ± 0.06	93.06	5.28	2.26 ± 0.01
20F28411	10.1 %	✓ 0.0208501	17.97475	0.0000000	89.2294	109.5491	3.73 ± 0.06	93.23	4.39	2.13 ± 0.01
20F28413	11.2 %	✓ 0.0190417	14.14980	0.0000000	67.6457	82.5416	3.71 ± 0.08	91.92	3.33	2.06 ± 0.01
20F28414	12.4 %	✓ 0.0120268	11.41680	0.0000000	51.1242	62.6808	3.72 ± 0.07	93.18	2.52	1.93 ± 0.01
20F28415	13.6 %	✓ 0.0134485	9.56743	0.0000000	40.3333	48.8371	3.68 ± 0.10	90.51	1.98	1.81 ± 0.01
20F28417	14.9 %	✓ 0.0075479	8.20066	0.0046337	32.9037	40.4624	3.73 ± 0.09	93.35	1.62	1.73 ± 0.01
20F28418	16.2 %	✓ 0.0090781	8.13608	0.0000000	34.4830	42.5077	3.74 ± 0.10	92.47	1.70	1.82 ± 0.01
20F28419	17.6 %	✓ 0.0075779	8.33291	0.0000000	36.7708	45.9936	3.80 ± 0.09	94.08	1.81	1.90 ± 0.01
20F28421	19.0 %	✓ 0.0091603	6.27675	0.0000000	27.1568	33.6337	3.76 ± 0.12	90.60	1.34	1.86 ± 0.01
20F28422	20.5 %	✓ 0.0119641	5.14398	0.0004958	23.2190	28.7473	3.76 ± 0.16	86.34	1.14	1.94 ± 0.01
20F28424	21.8 %	✓ 0.0136043	4.76645	0.0095573	21.6744	26.8269	3.76 ± 0.19	83.84	1.07	1.96 ± 0.01
Σ		1.2409469	377.94113	0.5656195	2032.3374	2433.4972				

Information on Analysis	Results	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Project = MCCLAUGHRY (19-20) Sample = 22 DRBLJ 19 Material = Groundmass Location = Badger Lake Region = Eastern Cascades Analyst = Dan Miggins Irradiation = 20-OSU-04 (4B2-20) J = 0.00166087 ± 0.00000101 FCT-NM = 28.201 ± 0.023 Ma	Age Plateau	1.24150 ± 0.00722	3.77 ± 0.02	1.84	58.38	2.11 ± 0.15
	Error Mean	± 0.58%	± 0.59%	3%	15	
			Full External Error ± 0.20	1.76	2σ Confidence Limit	
			Analytical Error ± 0.02	1.3582	Error Magnification	
	Total Fusion Age	1.19739 ± 0.01719 ± 1.44%	3.64 ± 0.05 ± 1.44%		31	2.31 ± 0.00
			Full External Error ± 0.20			
			Analytical Error ± 0.05			

Normal Isochron		39(k)/36(a) ± 2σ		40(a+r)/36(a) ± 2σ	r.i.
20F28383	0.4 %		25.76 ± 0.19	317.57 ± 2.53	0.8458
20F28385	0.5 %		79.76 ± 2.82	342.92 ± 15.18	0.7888
20F28386	0.6 %		126.16 ± 11.24	360.13 ± 40.41	0.7888
20F28387	0.7 %		140.79 ± 3.16	383.04 ± 10.27	0.8332
20F28389	0.9 %		290.30 ± 57.93	451.04 ± 106.30	0.8457
20F28390	1.1 %		270.51 ± 11.81	480.52 ± 24.11	0.8687
20F28391	1.3 %		434.63 ± 29.23	631.26 ± 46.35	0.9151
20F28393	1.5 %		596.51 ± 36.11	828.50 ± 52.84	0.9487
20F28394	1.8 %		757.91 ± 34.22	1092.28 ± 50.80	0.9702
20F28395	2.2 %		890.47 ± 35.52	1354.56 ± 55.12	0.9798
20F28397	2.6 %		1750.37 ± 103.51	2499.22 ± 148.64	0.9940
20F28398	3.1 %		1984.45 ± 101.73	2877.05 ± 148.11	0.9955
20F28399	3.6 %		2694.16 ± 118.06	3850.86 ± 169.14	0.9974
20F28401	4.1 %		4625.18 ± 288.17	6364.07 ± 396.86	0.9990
20F28402	4.7 %		6272.15 ± 532.55	8429.94 ± 716.12	0.9994
20F28403	5.3 %		6304.66 ± 425.19	8410.58 ± 567.48	0.9994
20F28405	6.0 %	✓	6535.77 ± 427.24	8623.11 ± 563.93	0.9994
20F28406	6.8 %	✓	5700.48 ± 358.28	7502.43 ± 471.80	0.9993
20F28407	7.5 %	✓	7362.14 ± 651.60	9548.30 ± 845.40	0.9995
20F28409	8.3 %	✓	4620.59 ± 287.42	6079.30 ± 378.52	0.9989
20F28410	9.1 %	✓	4167.11 ± 303.47	5493.23 ± 400.52	0.9987
20F28411	10.1 %	✓	4279.56 ± 380.24	5633.11 ± 501.09	0.9987
20F28413	11.2 %	✓	3552.51 ± 345.91	4713.77 ± 459.76	0.9982
20F28414	12.4 %	✓	4250.87 ± 650.94	5590.76 ± 857.17	0.9987
20F28415	13.6 %	✓	2999.10 ± 409.73	4010.42 ± 549.21	0.9976
20F28417	14.9 %	✓	4359.31 ± 1040.98	5739.73 ± 1372.29	0.9988
20F28418	16.2 %	✓	3798.48 ± 759.91	5061.43 ± 1014.14	0.9984
20F28419	17.6 %	✓	4852.39 ± 1174.88	6448.44 ± 1562.78	0.9990
20F28421	19.0 %	✓	2964.62 ± 589.14	4050.67 ± 806.91	0.9976
20F28422	20.5 %	✓	1940.73 ± 295.44	2781.79 ± 425.64	0.9949
20F28424	21.8 %	✓	1593.20 ± 212.83	2350.93 ± 316.30	0.9928

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Normal Isochron	272.27 ± 96.87		1.26161 ± 0.01956	3.83 ± 0.06	7.19
Error Chron	± 35.58%		± 1.55%	± 1.55%	0%
			Full External Error ± 0.21		
			Analytical Error ± 0.06		
Statistics	2σ Confidence Limit	1.78	Convergence	0.000006496127	
	Error Magnification	2.6810	Number of Iterations	1	
	Number of Data Points	15	Calculated Line	Weighted York-2	

Inverse Isochron		39(k)/40(a+r) ± 2σ		36(a)/40(a+r) ± 2σ	r.i.
20F28383	0.4 %		0.0811126 ± 0.0003468	0.00314894 ± 0.00002507	0.4328
20F28385	0.5 %		0.2325937 ± 0.0063315	0.00291616 ± 0.00012912	0.6009
20F28386	0.6 %		0.3503152 ± 0.0241599	0.00277674 ± 0.00031157	0.6084
20F28387	0.7 %		0.3675515 ± 0.0054500	0.00261066 ± 0.00007000	0.5462
20F28389	0.9 %		0.6436194 ± 0.0809477	0.00221710 ± 0.00052253	0.5321
20F28390	1.1 %		0.5629589 ± 0.0139909	0.00208109 ± 0.00010440	0.4928
20F28391	1.3 %		0.6885197 ± 0.0203829	0.00158414 ± 0.00011632	0.4017
20F28393	1.5 %		0.7199830 ± 0.0145193	0.00120700 ± 0.00007698	0.3147
20F28394	1.8 %		0.6938794 ± 0.0078239	0.00091551 ± 0.00004258	0.2403
20F28395	2.2 %		0.6573847 ± 0.0053455	0.00073825 ± 0.00003004	0.1970
20F28397	2.6 %		0.7003658 ± 0.0045430	0.00040012 ± 0.00002380	0.1069
20F28398	3.1 %		0.6897530 ± 0.0033578	0.00034758 ± 0.00001789	0.0916
20F28399	3.6 %		0.6996243 ± 0.0022302	0.00025968 ± 0.00001141	0.0677
20F28401	4.1 %		0.7267639 ± 0.0020549	0.00015713 ± 0.00000980	0.0414
20F28402	4.7 %		0.7440323 ± 0.0021708	0.00011862 ± 0.00001008	0.0316
20F28403	5.3 %		0.7496112 ± 0.0017676	0.00011890 ± 0.00000802	0.0308
20F28405	6.0 %	✓	0.7579363 ± 0.0016743	0.00011597 ± 0.00000758	0.0292
20F28406	6.8 %	✓	0.7598183 ± 0.0018438	0.00013329 ± 0.00000838	0.0343
20F28407	7.5 %	✓	0.7710420 ± 0.0020676	0.00010473 ± 0.00000927	0.0275
20F28409	8.3 %	✓	0.7600543 ± 0.0022492	0.00016449 ± 0.00001024	0.0438
20F28410	9.1 %	✓	0.7585903 ± 0.0028308	0.00018204 ± 0.00001327	0.0486
20F28411	10.1 %	✓	0.7597152 ± 0.0033898	0.00017752 ± 0.00001579	0.0483
20F28413	11.2 %	✓	0.7536443 ± 0.0043705	0.00021214 ± 0.00002069	0.0581
20F28414	12.4 %	✓	0.7603380 ± 0.0058541	0.00017887 ± 0.00002742	0.0495
20F28415	13.6 %	✓	0.7478285 ± 0.0071631	0.00024935 ± 0.00003415	0.0692
20F28417	14.9 %	✓	0.7594975 ± 0.0090411	0.00017422 ± 0.00004165	0.0494
20F28418	16.2 %	✓	0.7504761 ± 0.0084265	0.00019757 ± 0.00003959	0.0556
20F28419	17.6 %	✓	0.7524906 ± 0.0079482	0.00015508 ± 0.00003758	0.0432
20F28421	19.0 %	✓	0.7318831 ± 0.0101593	0.00024687 ± 0.00004918	0.0693
20F28422	20.5 %	✓	0.6976543 ± 0.0107955	0.00035948 ± 0.00005500	0.1006
20F28424	21.8 %	✓	0.6776882 ± 0.0109183	0.00042536 ± 0.00005723	0.1191

Results	40(a)/36(a) ± 2σ		40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD
Inverse Isochron	274.54 ± 99.26		1.26405 ± 0.01959	3.84 ± 0.06	8.15
Error Chron	± 36.15%		± 1.55%	± 1.55%	0%
			Full External Error ± 0.21		
			Analytical Error ± 0.06		
Statistics	2σ Confidence Limit	1.78	Convergence	0.0010837209	
	Error Magnification	2.8554	Number of Iterations	5	
	Number of Data Points	15	Calculated Line	Weighted York-2	
	Spreading Factor	11.8%			

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
20F28383	0.4 %	0.4217697	0.35	0.0000000	0.00	0.0005291	0.67	0.0000016	22.27	1.95754	0.65	0.0795036	0.38	0.0000000	0.00	0.131207	0.13	0.0003524	9.65	0.0456350	22.29	10.8642	0.09	0.0012577	1.13	25.9063	61.60	159.84648	9.98	0.0000000	0.00	0.0065946	9.65
20F28385	0.5 %	0.0556358	1.76	0.0000000	0.00	0.0002426	1.53	0.0000003	119.25	0.89744	1.52	0.0104873	1.77	0.0000000	0.00	0.053592	0.22	0.0001615	9.75	0.0085731	119.26	4.4375	0.20	0.0005766	1.78	2.0070	107.19	21.08540	10.13	0.0000000	0.00	0.0026936	9.65
20F28386	0.6 %	0.0207793	4.44	0.0000000	0.00	0.0001497	2.31	0.0000002	211.64	0.55370	2.31	0.0039169	4.44	0.0000000	0.00	0.031660	0.36	0.0000997	9.90	0.0050070	211.64	2.6215	0.35	0.0003558	2.48	0.3918	229.04	7.87516	10.92	0.0000000	0.00	0.0015913	9.66
20F28387	0.7 %	0.0910291	1.12	0.0000000	0.00	0.0007410	0.51	0.0000023	16.18	2.74158	0.48	0.0171590	1.13	0.0000000	0.00	0.154777	0.12	0.0004935	9.64	0.0628934	16.21	12.8159	0.08	0.0017615	1.04	0.3691	940.92	34.49912	10.04	0.0000000	0.00	0.0077792	9.65
20F28389	0.9 %	0.0090615	9.97	0.0000000	0.00	0.0001687	2.22	0.0000006	57.92	0.62410	2.21	0.0017081	9.97	0.0000000	0.00	0.031769	0.35	0.0001123	9.88	0.0177384	57.93	2.6305	0.34	0.0004010	2.39	0.6529	83.97	3.43422	14.11	0.0000000	0.00	0.0015967	9.66
20F28390	1.1 %	0.0431476	2.18	0.0000000	0.00	0.0007079	0.54	0.0000021	17.88	2.61911	0.51	0.0081333	2.19	0.0000000	0.00	0.140962	0.13	0.0004714	9.64	0.0582866	17.90	11.6719	0.09	0.0016828	1.05	4.3807	38.57	16.35251	10.21	0.0000000	0.00	0.0070849	9.65
20F28391	1.3 %	0.0275180	3.36	0.0000000	0.00	0.0007444	0.51	0.0000020	18.79	2.75403	0.48	0.0051871	3.36	0.0000000	0.00	0.144444	0.13	0.0004957	9.64	0.0546647	18.81	11.9602	0.09	0.0017695	1.04	6.9419	16.24	10.42904	10.53	0.0000000	0.00	0.0072599	9.65
20F28393	1.5 %	0.0308141	3.03	0.0000000	0.00	0.0011094	0.37	0.0000028	13.22	4.10415	0.33	0.0058085	3.03	0.0000000	0.00	0.221985	0.11	0.0007387	9.64	0.0781817	13.25	18.3808	0.07	0.0026369	0.98	13.8512	8.98	11.67824	10.42	0.0000000	0.00	0.0111571	9.65
20F28394	1.8 %	0.0418981	2.26	0.0000000	0.00	0.0018171	0.29	0.0000030	12.34	6.72259	0.24	0.0078978	2.26	0.0000000	0.00	0.383506	0.10	0.0012101	9.63	0.0831368	12.38	31.7551	0.05	0.0043193	0.95	29.8856	5.50	15.87897	10.23	0.0000000	0.00	0.0192754	9.65
20F28395	2.2 %	0.0470001	1.99	0.0000000	0.00	0.0022548	0.27	0.0000027	13.28	8.34190	0.20	0.0088595	2.00	0.0000000	0.00	0.505447	0.10	0.0015015	9.63	0.0754202	13.31	41.8520	0.05	0.0053597	0.94	45.8519	3.99	17.81256	10.17	0.0000000	0.00	0.0254042	9.65
20F28397	2.6 %	0.0320243	2.96	0.0000000	0.00	0.0028620	0.25	0.0000015	24.54	10.58827	0.18	0.0060366	2.96	0.0000000	0.00	0.676969	0.10	0.0019059	9.63	0.0426752	24.56	56.0544	0.05	0.0068030	0.94	67.8990	1.90	12.13690	10.40	0.0000000	0.00	0.0340250	9.65
20F28398	3.1 %	0.0373125	2.56	0.0000000	0.00	0.0036118	0.24	0.0000007	55.69	13.36223	0.17	0.0070334	2.57	0.0000000	0.00	0.894241	0.10	0.0024052	9.63	0.0187207	55.70	74.0450	0.04	0.0085852	0.94	93.2089	1.59	14.14107	10.30	0.0000000	0.00	0.0449453	9.65
20F28399	3.6 %	0.0433942	2.19	0.0000000	0.00	0.0054104	0.23	0.0000000	0.00	20.01628	0.15	0.0081798	2.20	0.0000000	0.00	1.411931	0.10	0.0036029	9.63	0.0000000	0.00	116.9108	0.04	0.0128605	0.93	150.6591	1.13	16.44596	10.21	0.0000000	0.00	0.0709648	9.65
20F28401	4.1 %	0.0299333	3.12	0.0000000	0.00	0.0062769	0.22	0.0000000	0.00	23.22211	0.15	0.0056424	3.12	0.0000000	0.00	1.672024	0.10	0.0041800	9.63	0.0000000	0.00	138.4469	0.04	0.0149202	0.93	179.1534	0.68	11.34443	10.45	0.0000000	0.00	0.0840373	9.65
20F28402	4.7 %	0.0218268	4.25	0.0000000	0.00	0.0061575	0.23	0.0000000	0.00	22.78033	0.15	0.0041144	4.25	0.0000000	0.00	1.653352	0.10	0.0041005	9.63	0.0000000	0.00	136.9009	0.04	0.0146364	0.93	175.7264	0.53	8.27214	10.84	0.0000000	0.00	0.0830988	9.65
20F28403	5.3 %	0.0276942	3.37	0.0000000	0.00	0.0078310	0.22	0.0000000	0.00	28.97168	0.14	0.0052204	3.38	0.0000000	0.00	2.108674	0.10	0.0052149	9.63	0.0000000	0.00	174.6024	0.04	0.0186143	0.93	222.4282	0.51	10.49581	10.53	0.0000000	0.00	0.1059837	9.65
20F28405	6.0 %	✓ 0.0290745	3.27	0.0000000	0.00	0.0086160	0.22	0.0000000	0.00	31.87551	0.15	0.0054805	3.27	0.0000000	0.00	2.294924	0.10	0.0057376	9.63	0.0000000	0.00	190.0244	0.04	0.0204800	0.93	239.6939	0.49	11.01895	10.50	0.0000000	0.00	0.1153448	9.65
20F28406	6.8 %	✓ 0.0300237	3.14	0.0000000	0.00	0.0078894	0.22	0.0000000	0.00	29.18749	0.14	0.0056595	3.15	0.0000000	0.00	2.066970	0.10	0.0052537	9.63	0.0000000	0.00	171.1493	0.04	0.0187530	0.93	213.8717	0.57	11.37866	10.46	0.0000000	0.00	0.1038876	9.65
20F28407	7.5 %	✓ 0.0211229	4.43	0.0000000	0.00	0.0073345	0.22	0.0000000	0.00	27.13451	0.15	0.0039817	4.43	0.0000000	0.00	1.878093	0.10	0.0048842	9.63	0.0000000	0.00	155.5099	0.04	0.0174339	0.93	193.6825	0.47	8.00538	10.91	0.0000000	0.00	0.0943945	9.65
20F28409	8.3 %	✓ 0.0298216	3.11	0.0000000	0.00	0.0067793	0.22	0.0000000	0.00	25.08056	0.15	0.0056214	3.11	0.0000000	0.00	1.664132	0.10	0.0045145	9.63	0.0000000	0.00	137.7935	0.04	0.0161143	0.93	169.9922	0.71	11.30208	10.45	0.0000000	0.00	0.0836406	9.65
20F28410	9.1 %	✓ 0.0257660	3.64	0.0000000	0.00	0.0055250	0.23	0.0000000	0.00	20.44037	0.15	0.0048569	3.64	0.0000000	0.00	1.296705	0.10	0.0036793	9.63	0.0000000	0.00	107.3698	0.04	0.0131329	0.93	131.7735	0.81	9.76506	10.62	0.0000000	0.00	0.0651735	9.65
20F28411	10.1 %	✓ 0.0208501	4.44	0.0000000	0.00	0.0048586	0.23	0.0000000	0.00	17.97475	0.16	0.0039302	4.45	0.0000000	0.00	1.077623	0.10	0.0032355	9.63	0.0000000	0.00	89.2294	0.04	0.0115488	0.93	109.5491	0.82	7.90199	10.92	0.0000000	0.00	0.0541622	9.65
20F28413	11.2 %	✓ 0.0190417	4.87	0.0000000	0.00	0.0038247	0.24	0.0000000	0.00	14.14980	0.16	0.0035894	4.87	0.0000000	0.00	0.816958	0.10	0.0025470	9.63	0.0000000	0.00	67.6457	0.04	0.0090912	0.93	82.5416	1.02	7.21661	11.10	0.0000000	0.00	0.0410610	9.65
20F28414	12.4 %	✓ 0.0120268	7.66	0.0000000	0.00	0.0030860	0.25	0.0000000	0.00	11.41680	0.18	0.0022670	7.66	0.0000000	0.00	0.617427	0.10	0.0020550	9.63	0.0000000	0.00	51.1242	0.05	0.0073353	0.94	62.6808	1.00	4.55802	12.58	0.0000000	0.00	0.0310324	9.65
20F28415	13.6 %	✓ 0.0134485	6.83	0.0000000	0.00	0.0025861	0.26	0.0000000	0.00	9.56743	0.19	0.0025350	6.83	0.0000000	0.00	0.487106	0.10	0.0017221	9.63	0.0000000	0.00	40.3333	0.05	0.0061471	0.94	48.8371	1.37	5.09683	12.09	0.0000000	0.00	0.0244823	9.65
20F28417	14.9 %	✓ 0.0075479	11.94	0.0000000	0.00	0.0022166	0.27	0.0000002	224.85	8.20066	0.21	0.0014228	11.94	0.0000000	0.00	0.397378	0.10	0.0014761	9.63	0.0046337	224.85	32.9037	0.05	0.0052689	0.94	40.4624	1.27	2.86059	15.56	0.0000000	0.00	0.0199725	9.65
20F28418	16.2 %	✓ 0.0090781	10.00	0.0000000	0.00	0.0021992	0.27	0.0000000	0.00	8.13608	0.21	0.0017112	10.00	0.0000000	0.00	0.416452	0.10	0.0014645	9.63	0.0000000	0.00	34.4830	0.05	0.0052274	0.94	42.5077	1.29	3.44051	14.13	0.0000000	0.00	0.0209312	9.65
20F28419	17.6 %	✓ 0.0075779	12.11	0.0000000	0.00	0.0022524	0.27	0.0000000	0.00	8.33291	0.21	0.0014284	12.11	0.0000000	0.00	0.444081	0.10	0.0014999	9.63	0.0000000	0.00	36.7708	0.05	0.0053539	0.94	45.9936	1.13	2.87194	15.69	0.0000000	0.00	0.0223199	9.65
20F28421	19.0 %	✓ 0.0091603	9.94	0.0000000	0.00	0.0016966	0.31	0.0000000	0.00	6.27675	0.26	0.0017267	9.94	0.0000000	0.00	0.327973	0.10	0.0011298	9.63	0.0000000	0.00	27.1568	0.05	0.0040328	0.96	33.6337	1.64	3.47167	14.08	0.0000000	0.00	0.0164842	9.65
20F28422	20.5 %	✓ 0.0119641	7.61	0.0000000	0.00	0.0013904	0.34	0.0000000	#####	5.14398	0.29	0.0022552	7.61	0.0000000	0.00	0.280416	0.11	0.0009259	9.63	0.0004958	#####	23.2190	0.06	0.0033050	0.96	28.7473	2.17	4.53426	12.55	0.0000000	0.00	0.0140939	9.65
20F28424	21.8 %	✓ 0.0136043	6.68	0.0000000	0.00	0.0012884	0.33	0.0000003	112.82	4.76645	0.29	0.0025644	6.68	0.0000000	0.00	0.261761	0.11	0.00															

Additional Parameters		40Ar/39Ar	1σ	37Ar/39Ar	1σ	36Ar/39Ar	1σ	Time (days)	37Ar (decay)	39Ar (decay)	40Ar (moles)
20F28383	0.4 %	12.327723	0.026352	0.180161	0.001187	0.038866	0.000140	22.022	1.548754	1.00015628	4.742E-12
20F28385	0.5 %	4.299391	0.058509	0.202213	0.003107	0.012591	0.000222	22.041	1.549328	1.00015642	6.755E-13
20F28386	0.6 %	2.854792	0.098421	0.211186	0.004928	0.007982	0.000353	22.050	1.549604	1.00015648	2.650E-13
20F28387	0.7 %	2.720940	0.020168	0.213892	0.001033	0.007160	0.000080	22.059	1.549881	1.00015654	1.235E-12
20F28389	0.9 %	1.554083	0.097690	0.237218	0.005304	0.003509	0.000344	22.077	1.550433	1.00015667	1.447E-13
20F28390	1.1 %	1.776680	0.022070	0.224362	0.001159	0.003757	0.000081	22.086	1.550710	1.00015673	7.342E-13
20F28391	1.3 %	1.452783	0.021495	0.230231	0.001122	0.002363	0.000077	22.095	1.550986	1.00015680	6.152E-13
20F28393	1.5 %	1.389329	0.014003	0.223253	0.000743	0.001737	0.000051	22.113	1.551540	1.00015692	9.041E-13
20F28394	1.8 %	1.441584	0.008124	0.211672	0.000522	0.001377	0.000030	22.122	1.551816	1.00015699	1.621E-12
20F28395	2.2 %	1.521592	0.006184	0.199293	0.000420	0.001177	0.000022	22.132	1.552114	1.00015706	2.255E-12
20F28397	2.6 %	1.428259	0.004630	0.188870	0.000359	0.000622	0.000017	22.150	1.552668	1.00015718	2.834E-12
20F28398	3.1 %	1.450233	0.003528	0.180440	0.000317	0.000553	0.000013	22.159	1.552945	1.00015725	3.802E-12
20F28399	3.6 %	1.429788	0.002277	0.171191	0.000269	0.000417	0.000008	22.168	1.553222	1.00015731	5.918E-12
20F28401	4.1 %	1.376421	0.001944	0.167715	0.000256	0.000262	0.000007	22.186	1.553776	1.00015744	6.747E-12
20F28402	4.7 %	1.344491	0.001960	0.166382	0.000257	0.000204	0.000007	22.195	1.554053	1.00015750	6.516E-12
20F28403	5.3 %	1.334490	0.001572	0.165912	0.000248	0.000203	0.000005	22.204	1.554330	1.00015757	8.249E-12
20F28405	6.0 %	✓1.319837	0.001456	0.167726	0.000253	0.000198	0.000005	22.223	1.554906	1.00015770	8.879E-12
20F28406	6.8 %	✓1.316567	0.001596	0.170519	0.000256	0.000221	0.000006	22.232	1.555183	1.00015776	7.978E-12
20F28407	7.5 %	✓1.297408	0.001738	0.174468	0.000263	0.000183	0.000006	22.241	1.555461	1.00015783	7.143E-12
20F28409	8.3 %	✓1.316148	0.001946	0.181994	0.000278	0.000266	0.000007	22.259	1.556015	1.00015795	6.421E-12
20F28410	9.1 %	✓1.318680	0.002459	0.190350	0.000303	0.000291	0.000009	22.268	1.556293	1.00015802	5.013E-12
20F28411	10.1 %	✓1.316719	0.002936	0.201418	0.000329	0.000288	0.000010	22.277	1.556570	1.00015808	4.160E-12
20F28413	11.2 %	✓1.327315	0.003846	0.209147	0.000356	0.000338	0.000014	22.295	1.557126	1.00015821	3.179E-12
20F28414	12.4 %	✓1.315623	0.005062	0.223283	0.000413	0.000296	0.000018	22.304	1.557403	1.00015827	2.381E-12
20F28415	13.6 %	✓1.337608	0.006403	0.237173	0.000476	0.000397	0.000023	22.313	1.557681	1.00015834	1.910E-12
20F28417	14.9 %	✓1.317056	0.007835	0.249192	0.000538	0.000297	0.000027	22.332	1.558258	1.00015847	1.534E-12
20F28418	16.2 %	✓1.332892	0.007479	0.235909	0.000510	0.000327	0.000026	22.341	1.558536	1.00015853	1.627E-12
20F28419	17.6 %	✓1.329334	0.007017	0.226585	0.000492	0.000267	0.000025	22.350	1.558814	1.00015860	1.731E-12
20F28421	19.0 %	✓1.366742	0.009482	0.231095	0.000608	0.000400	0.000034	22.368	1.559370	1.00015872	1.314E-12
20F28422	20.5 %	✓1.433778	0.011088	0.221510	0.000655	0.000575	0.000039	22.377	1.559648	1.00015879	1.179E-12
20F28424	21.8 %	✓1.476003	0.011885	0.219881	0.000642	0.000687	0.000042	22.395	1.560204	1.00015891	1.133E-12

Procedure Blanks		36Ar ± 1σ (SE) [fA]	37Ar ± 1σ (SE) [fA]	38Ar ± 1σ (SE) [fA]	39Ar ± 1σ (SE) [fA]	40Ar ± 1σ (SE) [fA]
20F28383	0.4 %	0.0165723 ± 0.0008310	0.0238535 ± 0.0057849	0.0025087 ± 0.0073064	0.0075339 ± 0.0061698	4.9390061 ± 0.2562747
20F28385	0.5 %	0.0168532 ± 0.0008310	0.0270340 ± 0.0057849	0.0051534 ± 0.0073064	0.0060527 ± 0.0061698	4.9444067 ± 0.2562747
20F28386	0.6 %	0.0168482 ± 0.0008310	0.0281147 ± 0.0057849	0.0053478 ± 0.0073064	0.0057972 ± 0.0061698	4.9190710 ± 0.2562747
20F28387	0.7 %	0.0167731 ± 0.0008310	0.0289312 ± 0.0057849	0.0049894 ± 0.0073064	0.0057956 ± 0.0061698	4.8803335 ± 0.2562747
20F28389	0.9 %	0.0164679 ± 0.0008310	0.0298528 ± 0.0057849	0.0030112 ± 0.0073064	0.0064334 ± 0.0061698	4.7753155 ± 0.2562747
20F28390	1.1 %	0.0162636 ± 0.0008310	0.0299973 ± 0.0057849	0.0015741 ± 0.0073064	0.0070155 ± 0.0061698	4.7148159 ± 0.2562747
20F28391	1.3 %	0.0160404 ± 0.0008310	0.0299563 ± 0.0057849	0.0000507 ± 0.0073064	0.0077372 ± 0.0061698	4.6524765 ± 0.2562747
20F28393	1.5 %	0.0155782 ± 0.0008310	0.0293906 ± 0.0057849	0.0035692 ± 0.0073064	0.0094991 ± 0.0061698	4.5314184 ± 0.2562747
20F28394	1.8 %	0.0153576 ± 0.0008310	0.0289009 ± 0.0057849	0.0053319 ± 0.0073064	0.0104922 ± 0.0061698	4.4767199 ± 0.2562747
20F28395	2.2 %	0.0151398 ± 0.0008310	0.0282451 ± 0.0057849	0.0071457 ± 0.0073064	0.0116122 ± 0.0061698	4.4247909 ± 0.2562747
20F28397	2.6 %	0.0148173 ± 0.0008310	0.0267406 ± 0.0057849	0.0100832 ± 0.0073064	0.0137478 ± 0.0061698	4.3533859 ± 0.2562747
20F28398	3.1 %	0.0147070 ± 0.0008310	0.0258801 ± 0.0057849	0.0112617 ± 0.0073064	0.0148054 ± 0.0061698	4.3321644 ± 0.2562747
20F28399	3.6 %	0.0146362 ± 0.0008310	0.0249669 ± 0.0057849	0.0122052 ± 0.0073064	0.0158339 ± 0.0061698	4.3217134 ± 0.2562747
20F28401	4.1 %	0.0146246 ± 0.0008310	0.0230382 ± 0.0057849	0.0133015 ± 0.0073064	0.0177445 ± 0.0061698	4.3351520 ± 0.2562747
20F28402	4.7 %	0.0146870 ± 0.0008310	0.0220491 ± 0.0057849	0.0134277 ± 0.0073064	0.0186004 ± 0.0061698	4.3595059 ± 0.2562747
20F28403	5.3 %	0.0147956 ± 0.0008310	0.0210604 ± 0.0057849	0.0132655 ± 0.0073064	0.0193745 ± 0.0061698	4.3955586 ± 0.2562747
20F28405	6.0 %	0.0151647 ± 0.0008310	0.0190589 ± 0.0057849	0.0120265 ± 0.0073064	0.0206789 ± 0.0061698	4.5061795 ± 0.2562747
20F28406	6.8 %	0.0154072 ± 0.0008310	0.0181434 ± 0.0057849	0.0110223 ± 0.0073064	0.0211443 ± 0.0061698	4.5752773 ± 0.2562747
20F28407	7.5 %	0.0156874 ± 0.0008310	0.0172733 ± 0.0057849	0.0097815 ± 0.0073064	0.0214951 ± 0.0061698	4.6533961 ± 0.2562747
20F28409	8.3 %	0.0163423 ± 0.0008310	0.0157079 ± 0.0057849	0.0067128 ± 0.0073064	0.0218353 ± 0.0061698	4.8316141 ± 0.2562747
20F28410	9.1 %	0.0167054 ± 0.0008310	0.0150303 ± 0.0057849	0.0049626 ± 0.0073064	0.0218189 ± 0.0061698	4.9286216 ± 0.2562747
20F28411	10.1 %	0.0170829 ± 0.0008310	0.0144339 ± 0.0057849	0.0031307 ± 0.0073064	0.0216765 ± 0.0061698	5.0284669 ± 0.2562747
20F28413	11.2 %	0.0178478 ± 0.0008310	0.0135143 ± 0.0057849	0.0005514 ± 0.0073064	0.0210162 ± 0.0061698	5.2280663 ± 0.2562747
20F28414	12.4 %	0.0182161 ± 0.0008310	0.0132047 ± 0.0057849	0.0022725 ± 0.0073064	0.0205027 ± 0.0061698	5.3229678 ± 0.2562747
20F28415	13.6 %	0.0185609 ± 0.0008310	0.0130033 ± 0.0057849	0.0038169 ± 0.0073064	0.0198720 ± 0.0061698	5.4110019 ± 0.2562747
20F28417	14.9 %	0.0191491 ± 0.0008310	0.0129541 ± 0.0057849	0.0061012 ± 0.0073064	0.0182129 ± 0.0061698	5.5587162 ± 0.2562747
20F28418	16.2 %	0.0193430 ± 0.0008310	0.0131178 ± 0.0057849	0.0065672 ± 0.0073064	0.0172613 ± 0.0061698	5.6059942 ± 0.2562747
20F28419	17.6 %	0.0194593 ± 0.0008310	0.0134086 ± 0.0057849	0.0064867 ± 0.0073064	0.0162226 ± 0.0061698	5.6328889 ± 0.2562747
20F28421	19.0 %	0.0193958 ± 0.0008310	0.0143843 ± 0.0057849	0.0042520 ± 0.0073064	0.0139277 ± 0.0061698	5.6098119 ± 0.2562747
20F28422	20.5 %	0.0191821 ± 0.0008310	0.0150740 ± 0.0057849	0.0018643 ± 0.0073064	0.0126965 ± 0.0061698	5.5514318 ± 0.2562747
20F28424	21.8 %	0.0182986 ± 0.0008310	0.0168659 ± 0.0057849	0.0060837 ± 0.0073064	0.0101388 ± 0.0061698	5.3183167 ± 0.2562747

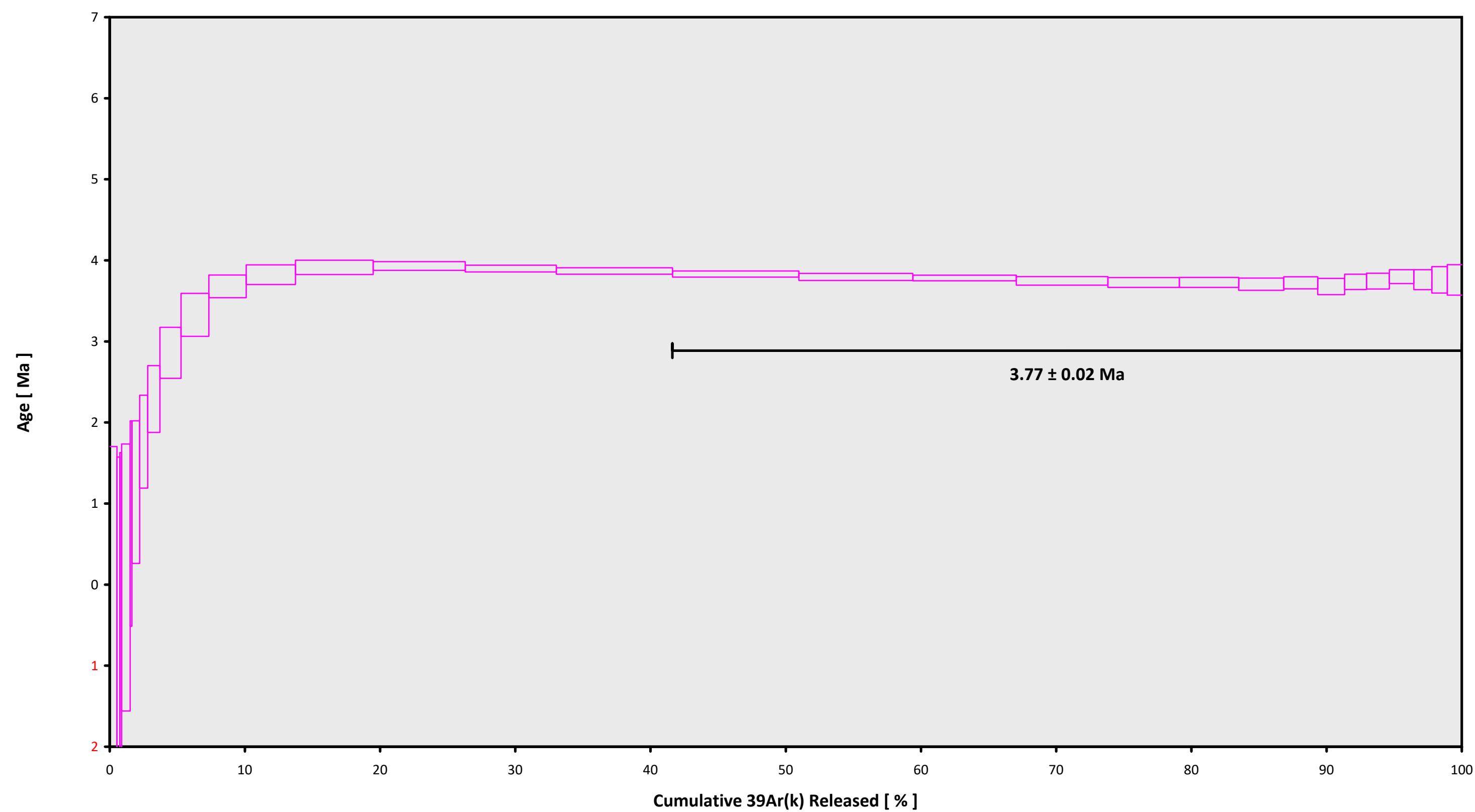
Intercept Values		36Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	37Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	38Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	39Ar ± 1σ (SE) [fA]		r2	Regression (type,n)	40Ar ± 1σ (SE) [fA]		r2	Regression (type,n)
20F28383	0.4 %	0.4229014 ± 0.0009528	0.9469	EXP	149 of 150	1.2452832 ± 0.0056751	0.8338	EXP	150 of 150	0.2599107 ± 0.0070645	0.1509	EXP	148 of 150	10.886192 ± 0.006973	0.9960	EXP	147 of 150	138.885795 ± 0.019950	0.9997	EXP	150 of 150
20F28385	0.5 %	0.0706185 ± 0.0004336	0.1531	EXP	150 of 150	0.5545896 ± 0.0066609	0.4560	EXP	150 of 150	0.0781669 ± 0.0071859	0.0061	EXP	150 of 150	4.449528 ± 0.006419	0.9785	EXP	150 of 150	24.025526 ± 0.015292	0.5891	EXP	150 of 150
20F28386	0.6 %	0.0369859 ± 0.0003101	0.1590	EXP	150 of 150	0.3306727 ± 0.0059026	0.2382	EXP	149 of 150	0.0461431 ± 0.0077115	0.0027	EXP	150 of 150	2.630857 ± 0.006653	0.9264	EXP	150 of 150	12.404003 ± 0.015315	0.9853	EXP	150 of 150
20F28387	0.7 %	0.1050746 ± 0.0005028	0.5823	EXP	150 of 150	1.7472307 ± 0.0056913	0.9118	EXP	150 of 150	0.2409574 ± 0.0070763	0.1318	EXP	150 of 150	12.838942 ± 0.006907	0.9972	EXP	150 of 150	39.756311 ± 0.018179	0.9810	EXP	150 of 150
20F28389	0.9 %	0.0253496 ± 0.0002553	0.4892	EXP	149 of 150	0.3743346 ± 0.0067829	0.2315	EXP	150 of 150	0.0544797 ± 0.0072572	0.0134	EXP	149 of 150	2.640550 ± 0.006479	0.9341	EXP	147 of 150	8.863999 ± 0.013597	0.9929	EXP	147 of 150
20F28390	1.1 %	0.0584626 ± 0.0003532	0.0857	EXP	147 of 150	1.6659153 ± 0.0059843	0.8985	EXP	150 of 150	0.2099971 ± 0.0074332	0.0774	EXP	149 of 150	11.694769 ± 0.007281	0.9964	EXP	149 of 150	25.455087 ± 0.018598	0.0073	EXP	150 of 150
20F28391	1.3 %	0.0432358 ± 0.0003156	0.0550	EXP	150 of 150	1.7530002 ± 0.0058260	0.9142	EXP	146 of 150	0.2053021 ± 0.0072225	0.0653	EXP	150 of 150	11.984242 ± 0.007199	0.9966	EXP	150 of 150	22.030695 ± 0.014138	0.8708	EXP	149 of 150
20F28393	1.5 %	0.0462971 ± 0.0003347	0.0239	EXP	150 of 150	2.6266843 ± 0.0053682	0.9670	EXP	147 of 150	0.3039852 ± 0.0072807	0.1399	EXP	147 of 150	18.415189 ± 0.008526	0.9980	EXP	149 of 150	30.072053 ± 0.016481	0.8745	EXP	150 of 150
20F28394	1.8 %	0.0574224 ± 0.0003645	0.0029	EXP	150 of 150	4.3209642 ± 0.0065339	0.9791	EXP	150 of 150	0.4717233 ± 0.0071112	0.3194	EXP	150 of 150	31.808381 ± 0.009348	0.9992	EXP	150 of 150	50.260590 ± 0.017510	0.9943	EXP	150 of 150
20F28395	2.2 %	0.0625345 ± 0.0003422	0.0000	EXP	147 of 150	5.3683629 ± 0.0060891	0.9892	EXP	150 of 150	0.5857033 ± 0.0067030	0.4526	EXP	149 of 150	41.919705 ± 0.010396	0.9994	EXP	150 of 150	68.114670 ± 0.018850	0.9977	EXP	150 of 150
20F28397	2.6 %	0.0483857 ± 0.0003694	0.1463	EXP	150 of 150	6.8206675 ± 0.0065710	0.9916	EXP	150 of 150	0.7194979 ± 0.0073061	0.5248	EXP	150 of 150	56.142830 ± 0.011508	0.9996	EXP	150 of 150	84.423311 ± 0.018993	0.9988	EXP	150 of 150
20F28398	3.1 %	0.0540842 ± 0.0003900	0.2223	EXP	150 of 150	8.6138974 ± 0.0070608	0.9939	EXP	150 of 150	0.9136673 ± 0.0070889	0.6577	EXP	150 of 150	74.158039 ± 0.011202	0.9998	EXP	147 of 150	111.727129 ± 0.021413	0.9993	EXP	150 of 150
20F28399	3.6 %	0.0615950 ± 0.0003749	0.1411	EXP	150 of 150	12.9148942 ± 0.0073975	0.9970	EXP	150 of 150	1.3772898 ± 0.0075595	0.7793	EXP	150 of 150	117.080996 ± 0.013469	0.9999	EXP	150 of 150	171.497717 ± 0.021441	0.9998	EXP	150 of 150
20F28401	4.1 %	0.0494653 ± 0.0003335	0.5816	EXP	150 of 150	14.9839296 ± 0.0071408	0.9980	EXP	149 of 150	1.6021418 ± 0.0082101	0.8072	EXP	150 of 150	138.647207 ± 0.018159	0.9998	EXP	150 of 150	194.917002 ± 0.022276	0.9998	EXP	150 of 150
20F28402	4.7 %	0.0416129 ± 0.0003199	0.6535	EXP	150 of 150	14.6968026 ± 0.0077443	0.9975	EXP	150 of 150	1.5873166 ± 0.0065158	0.8647	EXP	150 of 150	137.099826 ± 0.015574	0.9999	EXP	150 of 150	188.441165 ± 0.024127	0.9997	EXP	150 of 150
20F28403	5.3 %	0.0489772 ± 0.0003370	0.6435	EXP	150 of 150	18.6948140 ± 0.0082239	0.9982	EXP	150 of 150	2.0210153 ± 0.0078353	0.8796	EXP	150 of 150	174.851776 ± 0.017408	0.9999	EXP	149 of 150	237.425536 ± 0.025693	0.9998	EXP	150 of 150
20F28405	6.0 %	0.0514297 ± 0.0003766	0.6007	EXP	150 of 150	20.5650794 ± 0.0102646	0.9977	EXP	150 of 150	2.2036812 ± 0.0084942	0.8819	EXP	150 of 150	190.295540 ± 0.017827	0.9999	EXP	150 of 150	255.334389 ± 0.023859	0.9999	EXP	145 of 150
20F28406	6.8 %	0.0518864 ± 0.0003604	0.6115	EXP	148 of 150	18.8268037 ± 0.0086791	0.9981	EXP	150 of 150	2.0193740 ± 0.0075830	0.8811	EXP	150 of 150	171.396369 ± 0.015074	0.9999	EXP	149 of 150	229.929515 ± 0.025036	0.9998	EXP	148 of 150
20F28407	7.5 %	0.0430686 ± 0.0003409	0.6823	EXP	149 of 150	17.4990360 ± 0.0082328	0.9980	EXP	150 of 150	1.8112620 ± 0.0073129	0.8645	EXP	150 of 150	155.736990 ± 0.015392	0.9999	EXP	149 of 150	206.435704 ± 0.025155	0.9998	EXP	150 of 150
20F28409	8.3 %	0.0515590 ± 0.0003202	0.5349	EXP	150 of 150	16.1689290 ± 0.0082132	0.9977	EXP	150 of 150	1.6369251 ± 0.0069710	0.8473	EXP	150 of 150	137.998178 ± 0.016583	0.9999	EXP	148 of 150	186.209507 ± 0.024579	0.9997	EXP	150 of 150
20F28410	9.1 %	0.0468130 ± 0.0003492	0.4258	EXP	150 of 150	13.1729153 ± 0.0081214	0.9965	EXP	150 of 150	1.2888789 ± 0.0079705	0.7340	EXP	146 of 150	107.534650 ± 0.014071	0.9998	EXP	149 of 150	146.532356 ± 0.022935	0.9996	EXP	150 of 150
20F28411	10.1 %	0.0418193 ± 0.0003195	0.5363	EXP	150 of 150	11.5806488 ± 0.0078370	0.9959	EXP	150 of 150	1.0702942 ± 0.0087407	0.6054	EXP	150 of 150	89.370578 ± 0.013155	0.9998	EXP	150 of 150	122.533726 ± 0.021486	0.9994	EXP	150 of 150
20F28413	11.2 %	0.0398493 ± 0.0003222	0.4242	EXP	150 of 150	9.1109285 ± 0.0066082	0.9952	EXP	150 of 150	0.8195529 ± 0.0074229	0.5604	EXP	149 of 150	67.757691 ± 0.011856	0.9997	EXP	147 of 150	95.027308 ± 0.022031	0.9988	EXP	150 of 150
20F28414	12.4 %	0.0327573 ± 0.0003064	0.5463	EXP	150 of 150	7.3475611 ± 0.0066286	0.9928	EXP	148 of 150	0.6195784 ± 0.0078786	0.3688	EXP	150 of 150	51.213881 ± 0.011205	0.9996	EXP	150 of 150	72.592774 ± 0.018344	0.9981	EXP	150 of 150
20F28415	13.6 %	0.0339890 ± 0.0003001	0.4256	EXP	150 of 150	6.1543166 ± 0.0065141	0.9904	EXP	150 of 150	0.4953315 ± 0.0077312	0.2696	EXP	149 of 150	40.408149 ± 0.010299	0.9994	EXP	150 of 150	59.369425 ± 0.018234	0.9963	EXP	150 of 150
20F28417	14.9 %	0.0285445 ± 0.0002472	0.6034	EXP	149 of 150	5.2713663 ± 0.0063173	0.9868	EXP	150 of 150	0.4121217 ± 0.0073904	0.2314	EXP	150 of 150	32.966985 ± 0.008596	0.9994	EXP	149 of 150	48.901677 ± 0.018120	0.9928	EXP	149 of 150
20F28418	16.2 %	0.0301938 ± 0.0002693	0.5500	EXP	147 of 150	5.2286548 ± 0.0062574	0.9868	EXP	149 of 150	0.4122250 ± 0.0071660	0.2173	EXP	150 of 150	34.547228 ± 0.008409	0.9995	EXP	147 of 150	51.575133 ± 0.018535	0.9939	EXP	150 of 150
20F28419	17.6 %	0.0289178 ± 0.0002972	0.5492	EXP	150 of 150	5.3542181 ± 0.0066187	0.9867	EXP	150 of 150	0.4430208 ± 0.0072429	0.2318	EXP	150 of 150	36.836874 ± 0.010009	0.9993	EXP	150 of 150	54.520701 ± 0.017547	0.9957	EXP	150 of 150
20F28421	19.0 %	0.0298421 ± 0.0002759	0.5648	EXP	146 of 150	4.0273250 ± 0.0067642	0.9760	EXP	150 of 150	0.3305185 ± 0.0074770	0.1585	EXP	150 of 150	27.207618 ± 0.007362	0.9993	EXP	149 of 150	42.731694 ± 0.016077	0.9900	EXP	150 of 150
20F28422	20.5 %	0.0320315 ± 0.0002771	0.4179	EXP	149 of 150	3.2966353 ± 0.0062654	0.9676	EXP	149 of 150	0.2867361 ± 0.0070552	0.1814	EXP	150 of 150	23.263105 ± 0.007783	0.9989	EXP	150 of 150	38.847090 ± 0.015951	0.9841	EXP	149 of 150
20F28424	21.8 %	0.0326284 ± 0.0002707	0.4150	EXP	148 of 150	3.0506983 ± 0.0051358	0.9748	EXP	146 of 150	0.2694105 ± 0.0079354	0.1724	EXP	149 of 150	21.713786 ± 0.008048	0.9987	EXP	150 of 150	37.314289 ± 0.017838	0.9768	EXP	150 of 150

Project Info		Analyst	Irradiation	X-pos	Y-pos	Z/H-pos	Project	Experiment	Nmb
20F28383	0.4 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28385	0.5 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28386	0.6 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28387	0.7 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28389	0.9 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28390	1.1 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28391	1.3 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28393	1.5 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28394	1.8 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28395	2.2 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28397	2.6 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28398	3.1 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28399	3.6 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28401	4.1 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28402	4.7 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28403	5.3 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28405	6.0 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28406	6.8 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28407	7.5 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28409	8.3 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28410	9.1 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28411	10.1 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28413	11.2 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28414	12.4 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28415	13.6 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28417	14.9 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28418	16.2 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28419	17.6 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28421	19.0 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28422	20.5 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	01
20F28424	21.8 %	Dan Miggins	20-OSU-04	0.00	0.00	1.51	Oregon\McClaghry (19-20)	20F28379	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
20F28383	0.4 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	16	8	1
20F28385	0.5 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	16	35	1
20F28386	0.6 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	16	48	1
20F28387	0.7 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	17	1	1
20F28389	0.9 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	17	27	1
20F28390	1.1 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	17	40	1
20F28391	1.3 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	17	53	1
20F28393	1.5 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	18	19	1
20F28394	1.8 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	18	32	1
20F28395	2.2 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	18	46	1
20F28397	2.6 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	19	12	1
20F28398	3.1 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	19	25	1
20F28399	3.6 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	19	38	1
20F28401	4.1 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	20	4	1
20F28402	4.7 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	20	17	1
20F28403	5.3 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	20	30	1
20F28405	6.0 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	20	57	1
20F28406	6.8 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	21	10	1
20F28407	7.5 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	21	23	1
20F28409	8.3 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	21	49	1
20F28410	9.1 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	22	2	1
20F28411	10.1 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	22	15	1
20F28413	11.2 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	22	41	1
20F28414	12.4 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	22	54	1
20F28415	13.6 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	23	7	1
20F28417	14.9 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	23	34	1
20F28418	16.2 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	23	OCT	2020	23	47	1
20F28419	17.6 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	24	OCT	2020	0	0	1
20F28421	19.0 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	24	OCT	2020	0	26	1
20F28422	20.5 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	24	OCT	2020	0	39	1
20F28424	21.8 %	22 DRBLJ 19	Groundmass	Badger Lake	FCT-NM (4B2-20)	28.201	0.082	Kuiper et al (2008)	9.34781	0.061	0.00166087	0.061	296.934	0.117	1.00137076	0.039	1	3.54E-14	24	OCT	2020	1	5	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
20F28383	0.4 %	378.99	9.976	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
20F28385	0.5 %	378.99	9.976	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
20F28386	0.6 %	378.99	9.976	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
20F28387	0.7 %	378.99	9.976	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
20F28389	0.9 %	378.99	9.976	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
20F28390	1.1 %	378.99	9.976	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
20F28391	1.3 %	378.99	9.976	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
20F28393	1.5 %	378.99	9.976	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
20F28394	1.8 %	378.99	9.976	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
20F28395	2.2 %	378.99	9.976	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
20F28397	2.6 %	378.99	9.976	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
20F28398	3.1 %	378.99	9.976	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
20F28399	3.6 %	378.99	9.976	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
20F28401	4.1 %	378.99	9.976	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
20F28402	4.7 %	378.99	9.976	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
20F28403	5.3 %	378.99	9.976	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
20F28405	6.0 %	378.99	9.976	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
20F28406	6.8 %	378.99	9.976	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
20F28407	7.5 %	378.99	9.976	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
20F28409	8.3 %	378.99	9.976	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
20F28410	9.1 %	378.99	9.976	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
20F28411	10.1 %	378.99	9.976	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
20F28413	11.2 %	378.99	9.976	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
20F28414	12.4 %	378.99	9.976	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
20F28415	13.6 %	378.99	9.976	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
20F28417	14.9 %	378.99	9.976	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
20F28418	16.2 %	378.99	9.976	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
20F28419	17.6 %	378.99	9.976	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
20F28421	19.0 %	378.99	9.976	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
20F28422	20.5 %	378.99	9.976	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
20F28424	21.8 %	378.99	9.976	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

20F28379.AGE >>> 22 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.77 ± 0.02

TOTAL FUSION

3.64 ± 0.05

NORMAL ISOCHRON

3.83 ± 0.06

INVERSE ISOCHRON

3.84 ± 0.06

MSWD (PROBABILITY)

1.84 (3%)

Sample Info

Groundmass

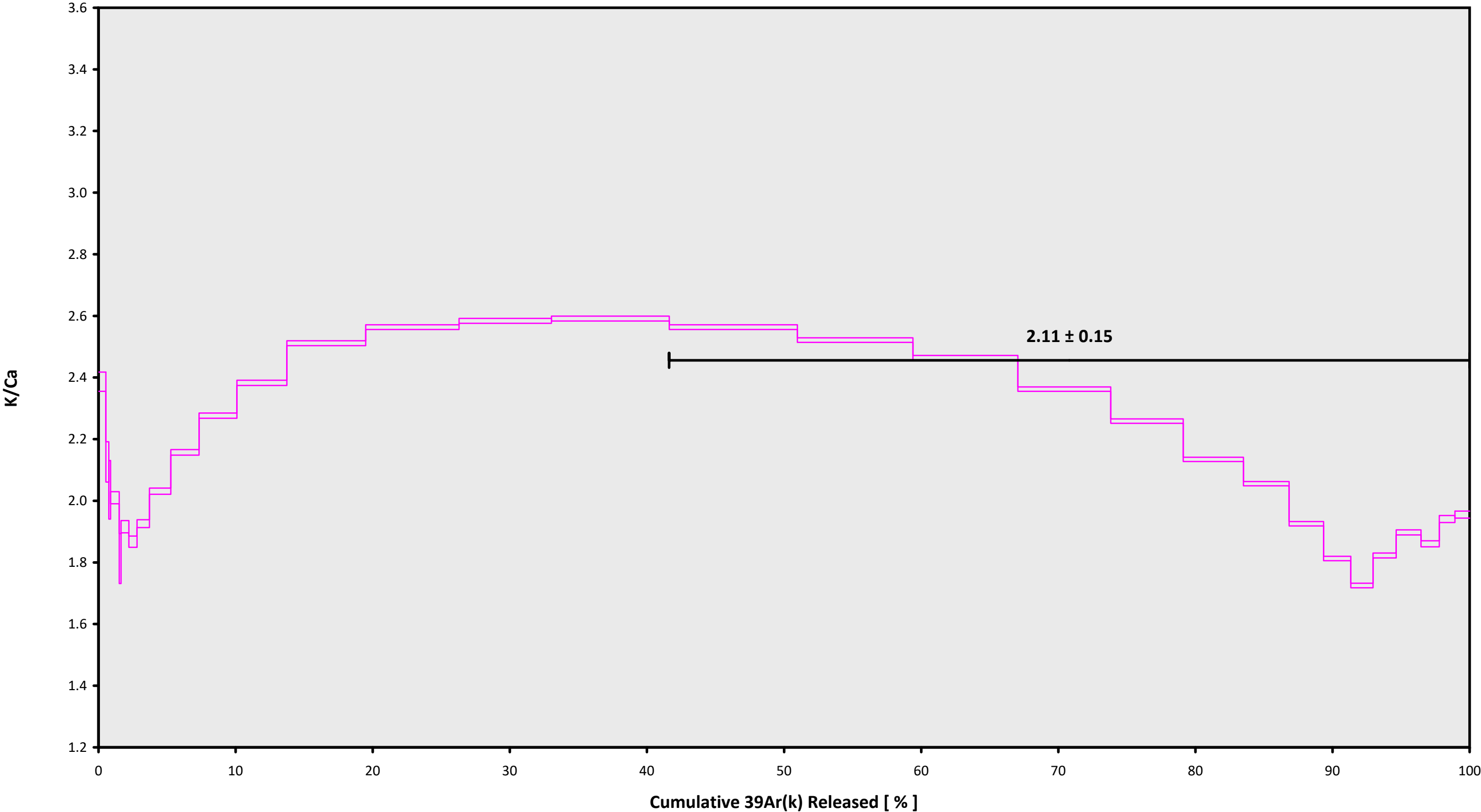
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B2-20)

$J = 0.00166087 \pm 0.00000101$

20F28379.AGE >>> 22 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU

3.77 ± 0.02

TOTAL FUSION

3.64 ± 0.05

NORMAL ISOCHRON

3.83 ± 0.06

INVERSE ISOCHRON

3.84 ± 0.06

Sample Info

Groundmass

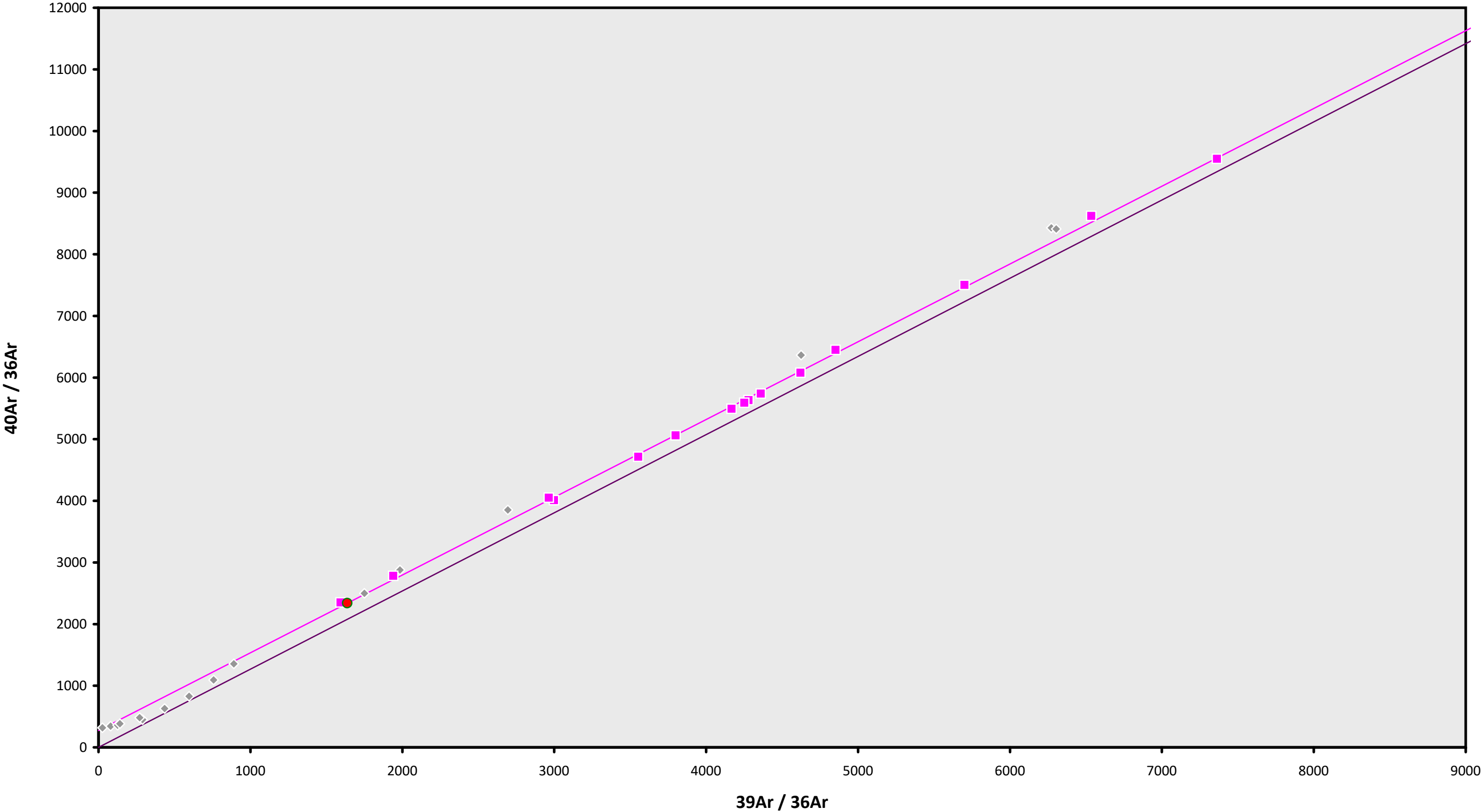
Badger Lake

Dan Miggins

IRR = 20-OSU-04 (4B2-20)

J = 0.00166087 ± 0.00000101

20F28379.AGE >>> 22 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
3.77 ± 0.02

TOTAL FUSION
3.64 ± 0.05

NORMAL ISOCHRON
3.83 ± 0.06

INVERSE ISOCHRON
3.84 ± 0.06

MSWD (PROBABILITY)
7.19 (0%)

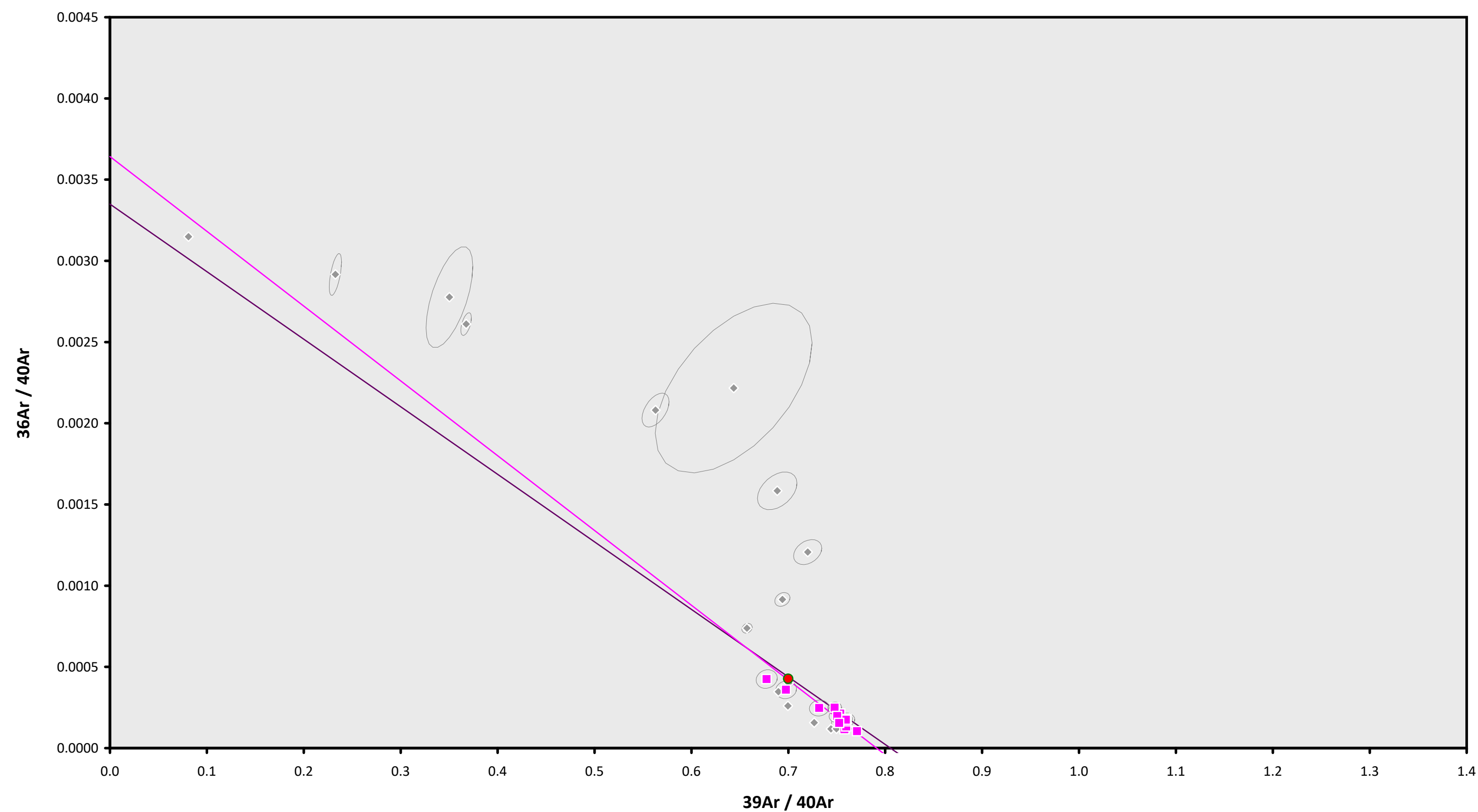
40AR/36AR INTERCEPT
272.3 ± 96.9

Sample Info

Groundmass
Badger Lake
Dan Miggins

IRR = 20-OSU-04 (4B2-20)
J = 0.00166087 ± 0.00000101

20F28379.AGE >>> 22 DRBLJ 19 >>> OREGON | MCCLAUGHRY (19-20) PROJECT



Ar-Ages in Ma

WEIGHTED PLATEAU
 3.77 ± 0.02

TOTAL FUSION
 3.64 ± 0.05

NORMAL ISOCHRON
 3.83 ± 0.06

INVERSE ISOCHRON
 3.84 ± 0.06

MSWD (PROBABILITY)
 8.15 (0%)

SPREADING FACTOR
11.8%

40AR/36AR INTERCEPT
 274.5 ± 99.3

Sample Info

Groundmass
Badger Lake
Dan Miggins

IRR = 20-OSU-04 (4B2-20)
 $J = 0.00166087 \pm 0.00000101$