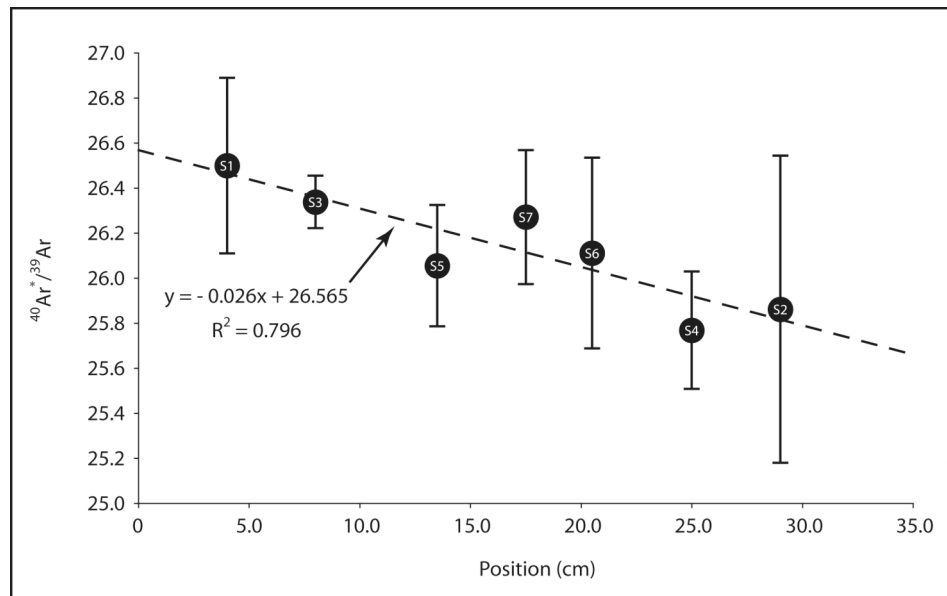


Data for Flux monitor analyses																	
Run number	Sample	Position	Analysis	Fraction	36/39	%err	37/39	%err	40/39	%err	*40/39	%err (1s)	%*40Ar	*40Ar (mol)	39Ar (mol)	J	%err (1s)
19920	S1	4.0	A3	0.4629	0.047	1.246	14.252	0.558	38.302	0.331	26.007	0.831	67.138	2.3807E-13	9.1542E-15	1.0034E-02	0.831
19921	S6	20.5	K3	0.4629	0.043	0.882	15.842	0.387	36.915	0.320	26.182	0.622	70.040	2.6003E-13	9.9319E-15	9.9667E-03	0.622
19922	S5	13.5	I4	0.4934	0.046	1.491	14.142	0.693	37.918	0.569	26.160	1.128	68.224	1.7908E-13	6.8456E-15	9.9749E-03	1.128
19923	S3	8.0	E2	0.4934	0.046	0.882	15.295	1.318	37.964	0.932	26.303	1.423	68.451	2.3657E-13	8.9942E-15	9.9208E-03	1.423
19924	S6	20.5	K1	0.4934	0.045	0.551	13.892	1.279	37.190	0.262	25.669	0.482	68.266	2.0655E-13	8.0468E-15	1.0166E-02	0.482
19925	S1	4.0	A4	0.4934	0.061	1.145	14.630	0.699	43.207	0.519	26.972	1.131	61.707	2.2085E-13	8.1882E-15	9.6747E-03	1.131
19926	S7	17.5	M1	0.4934	0.056	0.937	14.614	0.424	40.770	0.166	25.928	0.656	62.866	2.1665E-13	8.3557E-13	1.0064E-02	0.656
19927	S2	29.0	C2	0.4934	0.034	1.134	14.149	0.749	33.487	0.498	25.140	0.805	74.236	2.9326E-13	1.1665E-14	1.0380E-02	0.805
19928	S3	8.0	E4	0.4934	0.030	1.459	12.985	0.661	33.446	0.283	26.196	0.612	77.523	2.8130E-13	1.0738E-14	9.9613E-03	0.612
19929	S3	8.0	E1	0.4934	0.130	0.972	15.402	0.806	63.049	0.618	26.382	2.050	41.336	2.1732E-13	8.2377E-15	9.8913E-03	2.050
19930	S1	4.0	A1	0.4934	0.037	1.297	14.123	0.591	35.531	0.379	26.420	0.738	73.532	2.5494E-13	9.6497E-15	9.8768E-03	0.738
19931	S4	25.0	G3	0.4934	0.035	1.661	13.947	0.368	34.600	0.240	26.641	0.728	74.437	1.9499E-13	7.4878E-15	1.0021E-02	0.728
19932	S4	25.0	G1	0.4934	0.031	1.246	14.138	1.013	33.230	0.203	25.744	0.522	76.611	3.2346E-13	1.2565E-14	1.0136E-02	0.522
19933	S6	20.5	K2	0.4934	0.074	0.834	14.139	0.511	46.845	0.245	26.664	0.811	56.286	2.3351E-13	8.7579E-15	9.7866E-03	0.811
19934	S1	4.0	A2	0.4934	0.055	1.006	15.347	0.549	40.553	0.516	26.294	1.008	64.056	2.0643E-13	7.8507E-15	9.9241E-03	1.008
19935	S3	8.0	E3	0.4934	0.106	0.783	13.906	1.373	56.027	0.445	26.471	1.324	46.730	1.6295E-13	6.1559E-15	9.8579E-03	1.324
19936	S2	29.0	C4	0.4934	0.043	1.235	12.715	0.601	3.771	0.460	26.497	0.886	69.567	2.0150E-13	7.6048E-15	9.8482E-03	0.886
19937	S2	29.0	C1	0.4934	0.034	1.600	14.055	0.340	34.246	0.259	25.948	0.706	74.930	2.9543E-13	1.1386E-14	1.0057E-02	0.706
19938	S6	20.5	K4	0.4934	0.069	0.874	13.682	0.817	44.795	0.544	25.930	1.169	57.264	2.2038E-13	8.4989E-15	1.0063E-02	1.169
19939	S5	13.5	I3	0.4934	0.019	1.452	14.182	0.618	30.205	0.492	26.215	0.651	85.819	3.5625E-13	1.3580E-14	9.9543E-03	0.651
19940	S5	13.5	I1	0.4934	0.029	1.729	14.545	0.667	33.126	0.412	26.193	0.777	78.165	2.8719E-13	1.0965E-15	9.9626E-03	0.777
19941	S5	13.5	I2	0.4934	0.052	1.138	14.517	0.534	39.197	0.209	25.652	0.752	64.696	2.3896E-13	9.3158E-15	1.0173E-02	0.752
19942	S4	25.0	G2	0.4934	0.022	1.254	13.652	0.668	30.299	0.446	25.521	0.618	83.326	2.8200E-13	1.1050E-14	1.0225E-02	0.618
19943	S7	17.5	M3	0.4934	0.041	0.900	13.052	0.544	37.002	0.440	26.436	0.742	70.712	2.8566E-13	1.0806E-14	9.8709E-03	0.742
19944	S7	17.5	M4	0.4934	0.071	1.859	12.843	0.910	45.931	0.470	26.449	1.690	57.003	6.9443E-14	2.6256E-15	9.8660E-03	1.690
19945	S1	4.0	A5	0.4934	0.033	1.483	13.103	0.891	35.081	0.618	26.806	0.978	75.625	2.4010E-13	8.9570E-15	9.7345E-03	0.978

\*40Ar/39Ar relationship, with position, across the irradiated can



J factors adopted

Sample	Package	Weight (mg)	Position	*40/39Ar	J factor	%err (1s)
Flux monitor	S1	n/a	4.0	26.500	9.8488E-03	0.9372
DV05-10S	V5	2.0	5.0	26.435	9.8713E-03	1.0410
DV05-14	D5	3.0	6.0	26.409	9.8810E-03	1.1447
DV05-25	V4	3.2	6.5	26.396	9.8859E-03	1.1966
Flux monitor	S3	n/a	8.0	26.338	9.9078E-03	1.3523
DV06-06	V1	2.9	9.5	26.318	9.9152E-03	1.2090
DV06-40	D2	2.9	11.0	26.279	9.9299E-03	1.0658
DV06-43B	D8	2.1	12.0	26.253	9.9397E-03	0.9703
Flux monitor	S5	n/a	13.5	26.055	1.0016E-02	0.8270
DV06-51	D9	3.2	14.5	26.188	9.9644E-03	0.8776
DV06-46	V8	3.2	15.5	26.162	9.9743E-03	0.9282
DV06-11	V2	2.5	16.5	26.136	9.9842E-03	0.9788
Flux monitor	S7	n/a	17.5	26.271	9.9336E-03	1.0293
DV06-45	V7	3.3	18.0	26.097	9.9992E-03	0.9616
DV06-54	V6	2.6	19.0	26.071	1.0009E-02	0.8260
DV06-24	D4	2.3	20.0	26.045	1.0019E-02	0.6904
Flux monitor	S6	n/a	20.5	26.111	9.9956E-03	0.6227
DV06-49B	D7	2.6	22.0	25.993	1.0039E-02	0.6721
DV06-48	V9	2.5	23.0	25.967	1.0049E-02	0.7051
DV06-59	D6	2.4	24.0	25.941	1.0059E-02	0.7380
Flux monitor	S4	n/a	25.0	25.769	1.0127E-02	0.7710
DV06-15	D3	2.8	26.0	25.889	1.0079E-02	0.7780
DV06-42	D1	2.5	27.5	25.850	1.0095E-02	0.7885
DV06-01	V3	3.0	28.5	25.824	1.0105E-02	0.7955
Flux monitor	S2	n/a	29.0	25.862	1.0095E-02	0.7990

NB: \*40/39Ar values calculated for each position from  $y = -0.026x + 26.565$  relationship

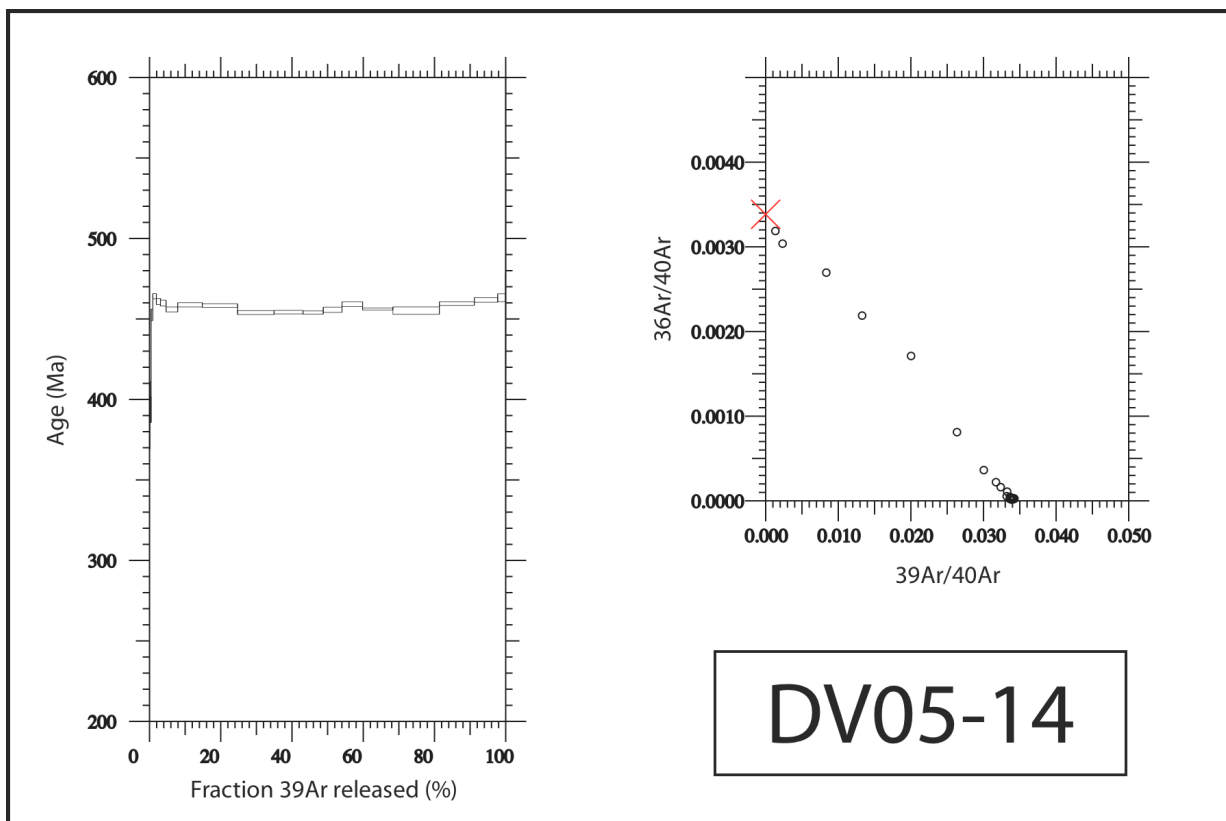
NB: \*40/39Ar values converted to J factors using  $\lambda = 5.543E-10 \text{ yr}^{-1}$ ,  $t = 418.3 \text{ Ma}$

Sample: DV05-14  
 [GPS: NO57387650]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 1st August 2007  
 Mineral: Muscovite  
 Amount analysed: 3.0 mg  
 Grainsize: 250-420  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	$\text{Ar}^{36}$ (mol)	$\text{Ar}^{37}$ (mol)	$\text{Ar}^{39}$ (mol)	$\text{Ar}^{40}$ (mol)	% $\text{Ar}^{40*}$	$\text{Ar}^{40*}/\text{Ar}^{39}$ (K)	Cumulative $\text{Ar}^{39}$ (%)	Age (Ma)	Error ( $1\sigma$ )	Ca/K
550	5.792E-16	1.090E-15	1.795E-15	2.149E-13	20.40	24.436	0.20	390.19	20.92	1.150E+00
600	1.848E-16	7.467E-16	2.163E-15	1.080E-13	49.40	24.678	0.45	393.66	8.03	6.560E-01
650	1.307E-16	8.687E-16	4.245E-15	1.611E-13	76.00	28.856	0.93	452.56	3.58	3.890E-01
700	1.048E-16	3.907E-16	8.676E-15	2.888E-13	89.20	29.695	1.91	464.16	1.58	8.560E-02
730	7.117E-17	7.965E-16	1.025E-14	3.231E-13	93.40	29.453	3.07	460.83	1.89	1.480E-01
760	6.931E-17	2.185E-17	1.389E-14	4.291E-13	95.10	29.382	4.64	459.85	1.82	2.990E-03
790	9.396E-17	4.359E-15	2.888E-14	8.682E-13	96.80	29.097	7.91	455.91	1.54	2.870E-01
810	8.485E-17	2.922E-15	6.091E-14	1.811E-12	98.50	29.305	14.81	458.79	1.33	9.120E-02
830	8.138E-17	1.965E-15	8.752E-14	2.588E-12	99.00	29.272	24.71	458.33	1.12	4.270E-02
850	7.373E-17	4.834E-15	9.061E-14	2.647E-12	99.10	28.956	34.97	453.95	1.21	1.010E-01
870	5.131E-17	2.463E-15	7.177E-14	2.096E-12	99.20	28.975	43.09	454.22	1.09	6.520E-02
890	3.726E-17	1.367E-15	5.027E-14	1.468E-12	99.20	28.960	48.78	454.00	0.99	5.170E-02
920	3.777E-17	3.858E-15	4.642E-14	1.362E-12	99.10	29.083	54.04	455.71	1.64	1.580E-01
960	5.254E-17	7.301E-16	5.110E-14	1.516E-12	98.90	29.331	59.82	459.14	1.52	2.710E-02
1000	7.510E-17	2.858E-15	7.511E-14	2.211E-12	98.90	29.115	68.32	456.16	0.66	7.230E-02
1030	7.124E-17	2.824E-16	1.152E-13	3.370E-12	99.30	29.046	81.36	455.20	2.28	4.660E-03
1050	3.478E-17	1.500E-15	8.669E-14	2.558E-12	99.50	29.359	91.17	459.53	1.10	3.290E-02
1080	3.820E-17	8.675E-17	5.797E-14	1.724E-12	99.30	29.522	97.73	461.78	1.41	2.840E-03
1150	3.220E-17	1.920E-15	1.966E-14	5.923E-13	98.30	29.624	99.96	463.18	2.46	1.860E-01
1250	4.008E-17	1.167E-15	2.433E-16	1.832E-14	36.00	27.170	99.99	429.03	49.44	9.150E+00
1350	6.373E-17	3.731E-16	4.892E-17	2.098E-14	10.40	44.958	99.99	663.14	333.05	1.460E+01
1450	1.388E-16	2.045E-17	5.827E-17	4.355E-14	5.80	43.481	100.00	644.82	864.99	6.670E-01
Total	2.147E-15	3.462E-14	8.835E-13	2.642E-11						

$\text{Lambda K}^{40} = 5.5430\text{E-}10$   
 $\text{J factor} = 9.8810\text{E-}3$

Total fusion age ( $2\sigma$ ) =  $456.83 \pm 3.08$   
 Plateau age ( $2\sigma$ ) =  $455.60 \pm 0.88$   
 $\text{MSWD} = 2.1$ , Probability = 0.065

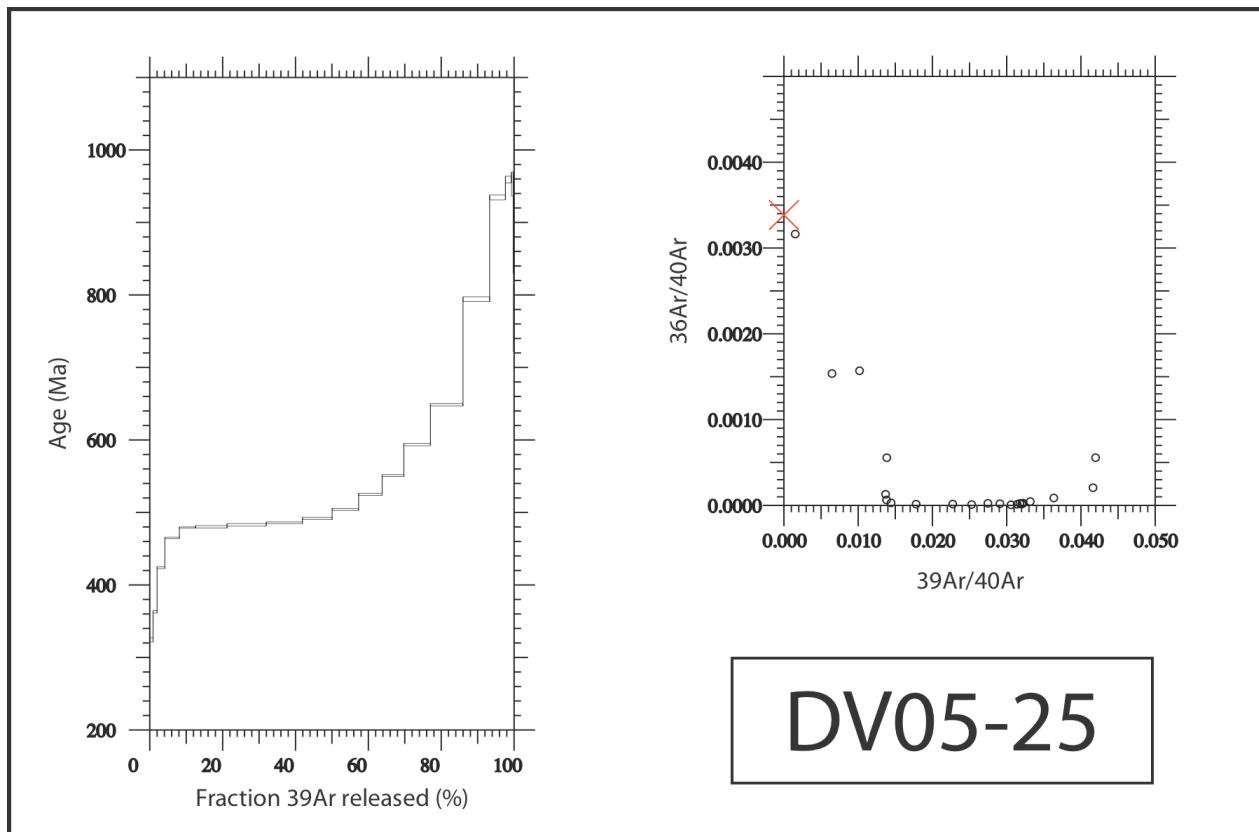


Sample: DV05-25  
 [GPS: NO89248767]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 12th August 2007  
 Mineral: Muscovite  
 Amount analysed: 3.2 mg  
 Grainsize: 90-120  $\mu$ m

Temp ( $^{\circ}$ C)	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40*</sup>	Ar <sup>40*</sup> /Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
500	5.867E-17	1.454E-15	4.428E-15	1.055E-13	83.60	19.910	0.90	324.15	2.88	6.240E-01
550	2.691E-17	9.852E-16	5.433E-15	1.305E-13	93.90	22.548	1.99	363.03	1.65	3.450E-01
600	2.505E-17	1.030E-15	1.054E-14	2.900E-13	97.40	26.790	4.13	423.86	1.25	1.860E-01
650	2.674E-17	3.940E-15	1.976E-14	5.956E-13	98.70	29.735	8.13	464.91	0.92	3.790E-01
680	1.805E-17	2.544E-16	2.187E-14	6.792E-13	99.10	30.780	12.55	479.26	0.87	2.210E-02
720	2.978E-17	2.988E-15	4.286E-14	1.332E-12	99.30	30.844	21.22	480.15	1.66	1.320E-01
760	2.665E-17	8.223E-15	5.313E-14	1.658E-12	99.50	31.046	31.97	482.90	1.75	2.940E-01
790	3.450E-17	6.142E-15	4.906E-14	1.544E-12	99.30	31.258	41.89	485.79	1.12	2.380E-01
810	1.719E-17	3.292E-15	4.027E-14	1.282E-12	99.50	31.695	50.04	491.73	1.48	1.550E-01
830	8.185E-18	1.524E-15	3.593E-14	1.175E-12	99.70	32.611	57.31	504.14	1.38	8.060E-02
850	2.156E-17	4.481E-15	3.200E-14	1.100E-12	99.40	34.170	63.78	525.04	1.48	2.660E-01
870	2.629E-17	3.017E-15	2.950E-14	1.074E-12	99.20	36.115	69.75	550.78	1.36	1.940E-01
900	1.410E-17	1.421E-15	3.600E-14	1.424E-12	99.60	39.426	77.03	593.78	1.70	7.500E-02
940	2.974E-17	1.721E-15	4.420E-14	1.944E-12	99.50	43.757	85.98	648.52	1.63	7.400E-02
980	2.959E-17	3.852E-15	3.610E-14	2.028E-12	99.50	55.933	93.28	794.07	3.25	2.030E-01
1020	4.398E-17	9.876E-16	2.140E-14	1.483E-12	99.10	68.649	97.61	934.50	3.41	8.770E-02
1060	3.765E-17	7.994E-16	8.215E-15	5.944E-13	98.10	70.996	99.27	959.27	4.60	1.850E-01
1100	2.300E-17	2.825E-15	2.437E-15	1.780E-13	96.30	70.397	99.77	952.97	16.50	2.200E+00
1150	2.076E-17	1.116E-15	5.172E-16	3.734E-14	83.80	60.641	99.87	847.35	17.59	4.110E+00
1250	4.355E-17	2.017E-15	2.827E-16	2.775E-14	54.30	53.648	99.93	767.64	46.29	1.360E+01
1350	7.378E-17	2.518E-17	3.107E-16	4.801E-14	54.60	84.343	99.99	1093.98	25.25	1.540E-01
1450	1.110E-16	7.606E-16	5.361E-17	3.510E-14	6.70	44.638	100.00	659.45	488.91	2.730E+01
Total	7.468E-16	5.286E-14	4.943E-13	1.876E-11		37.502				

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 9.8859E-3

Total fusion age (2 $\sigma$ ) = 568.92  $\pm$  3.82  
 Plateau age (2 $\sigma$ ) = n/a

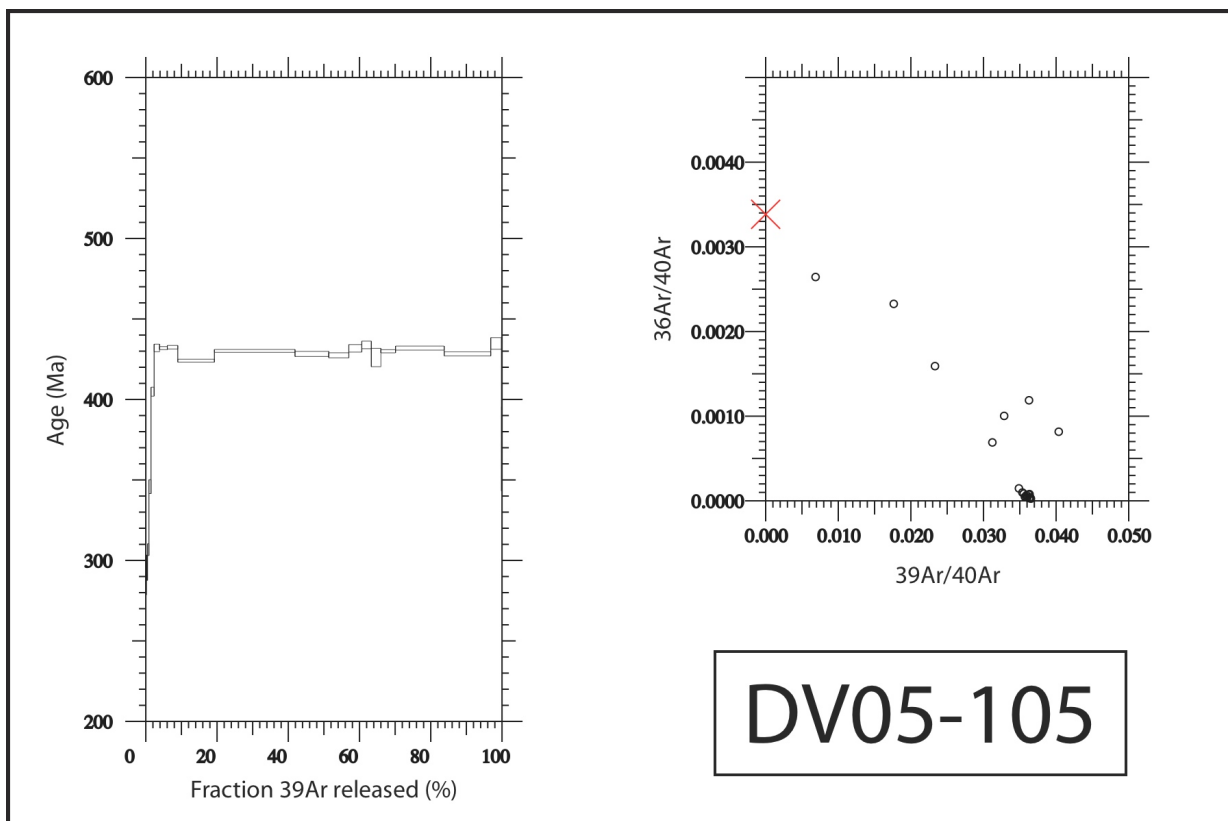


Sample: DV05-105  
 [GPS: NJ95690081]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 17th July 2007  
 Mineral: Muscovite  
 Amount analysed: 2.0 mg  
 Grainsize: 250-420  $\mu\text{m}$

Temp (°C)	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40</sup> *	Ar <sup>40</sup> */Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
450	1.767E-16	5.048E-16	1.340E-15	7.596E-14	31.30	17.735	0.23	291.05	12.40	7.160E-01
500	4.632E-17	1.485E-17	1.415E-15	3.901E-14	64.80	17.868	0.48	293.05	5.46	1.990E-02
550	4.667E-17	1.485E-17	2.308E-15	5.718E-14	75.80	18.771	0.88	306.67	3.67	1.220E-02
600	1.008E-16	1.486E-17	3.301E-15	1.005E-13	70.30	21.405	1.46	345.82	4.36	8.550E-03
650	1.100E-16	3.078E-16	4.980E-15	1.595E-13	79.60	25.484	2.33	404.82	2.78	1.170E-01
700	3.741E-17	3.315E-16	8.876E-15	2.545E-13	95.60	27.409	3.87	432.01	2.35	7.100E-02
740	2.968E-17	1.616E-17	1.241E-14	3.492E-13	97.40	27.402	6.04	431.91	0.95	2.470E-03
780	4.690E-17	2.180E-16	1.690E-14	4.780E-13	97.00	27.440	8.98	432.44	1.09	2.450E-02
820	1.285E-16	3.656E-16	5.898E-14	1.623E-12	97.60	26.846	19.26	424.10	0.91	1.180E-02
860	1.139E-16	2.397E-15	1.299E-13	3.579E-12	99.00	27.277	41.89	430.15	0.90	3.510E-02
880	3.857E-17	1.239E-15	5.439E-14	1.489E-12	99.10	27.143	51.37	428.27	1.60	4.330E-02
900	3.719E-17	6.375E-17	3.233E-14	8.873E-13	98.70	27.082	57.00	427.42	1.56	3.750E-03
920	2.592E-17	1.019E-15	2.087E-14	5.798E-13	98.60	27.392	60.64	431.76	2.35	9.270E-02
940	1.903E-17	4.359E-16	1.530E-14	4.275E-13	98.60	27.543	63.31	433.88	2.35	5.410E-02
970	3.186E-17	5.603E-16	1.545E-14	4.266E-13	97.70	26.985	66.00	426.05	5.71	6.890E-02
1010	4.381E-17	7.996E-16	2.354E-14	6.551E-13	97.90	27.261	70.10	429.93	0.98	6.450E-02
1060	8.543E-17	3.374E-15	7.841E-14	2.176E-12	98.80	27.402	83.77	431.90	1.26	8.170E-02
1100	7.002E-17	1.499E-15	7.507E-14	2.061E-12	98.90	27.148	96.85	428.34	1.27	3.790E-02
1150	2.263E-17	1.969E-15	1.722E-14	4.823E-13	98.60	27.609	99.85	434.80	3.60	2.170E-01
1250	4.259E-17	1.678E-15	6.243E-16	2.677E-14	53.60	23.015	99.96	369.34	26.19	5.120E+00
1350	7.418E-17	1.181E-15	1.929E-16	2.806E-14	22.30	32.607	99.99	503.43	106.89	1.170E+01
1450	1.599E-16	1.486E-16	4.780E-17	4.684E-14	-0.80	0.001	100.00	0.02	2143.54	5.920E+00
Total	1.488E-15	1.815E-14	5.738E-13	1.600E-11		27.097				

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 9.8713E-3

Total fusion age (2 $\sigma$ ) = 427.63  $\pm$  3.52  
 Plateau age (2 $\sigma$ ) = 429.96  $\pm$  0.92  
 MSWD = 1.5, Probability = 0.14

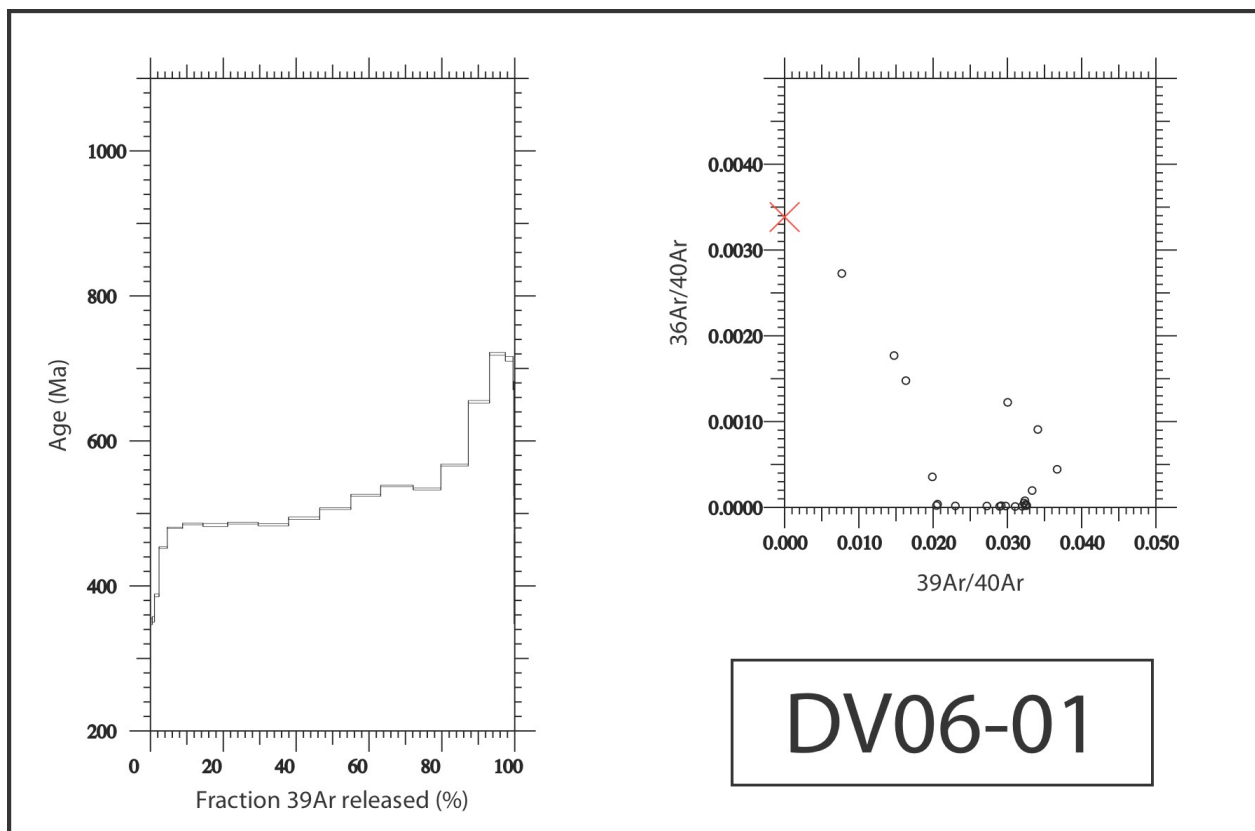


Sample: DV06-01  
 [GPS: NO89088814]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 7th August 2007  
 Mineral: Muscovite  
 Amount analysed: 3.0 mg  
 Grainsize: 120-180  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40*</sup>	Ar <sup>40*</sup> /Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
500	1.659E-16	1.011E-15	4.070E-15	1.355E-13	63.80	21.244	0.49	350.83	4.41	4.720E-01
550	1.386E-16	6.522E-16	5.203E-15	1.526E-13	73.10	21.447	1.11	353.88	3.81	2.380E-01
600	1.262E-16	1.870E-15	1.043E-14	2.842E-13	86.80	23.676	2.36	386.97	1.91	3.410E-01
650	1.115E-16	1.915E-15	1.891E-14	5.673E-13	94.10	28.237	4.63	452.85	1.16	1.920E-01
700	8.456E-17	5.050E-16	3.504E-14	1.083E-12	97.60	30.178	8.83	480.17	0.87	2.740E-02
730	7.318E-17	9.672E-15	4.669E-14	1.448E-12	98.50	30.557	14.43	485.47	1.14	3.940E-01
760	6.093E-17	8.988E-15	5.632E-14	1.733E-12	98.90	30.447	21.19	483.93	2.06	3.030E-01
790	4.635E-17	7.372E-15	6.981E-14	2.154E-12	99.30	30.637	29.56	486.58	1.30	2.010E-01
810	4.490E-17	7.407E-15	6.965E-14	2.136E-12	99.30	30.467	37.91	484.21	1.56	2.020E-01
830	2.817E-17	3.248E-15	7.131E-14	2.229E-12	99.60	31.123	46.47	493.33	1.74	8.650E-02
850	2.461E-17	3.694E-15	7.132E-14	2.297E-12	99.60	32.083	55.02	506.60	1.23	9.840E-02
870	3.760E-17	3.508E-15	6.825E-14	2.293E-12	99.50	33.421	63.21	524.92	1.37	9.770E-02
900	3.029E-17	1.403E-15	7.433E-14	2.567E-12	99.60	34.385	72.12	538.01	0.98	3.590E-02
930	4.343E-17	5.211E-15	6.348E-14	2.176E-12	99.40	34.063	79.74	533.65	1.46	1.560E-01
970	3.819E-17	1.891E-15	6.253E-14	2.296E-12	99.40	36.519	87.24	566.65	1.30	5.740E-02
1010	3.678E-17	9.671E-17	4.861E-14	2.114E-12	99.40	43.233	93.07	653.91	1.91	3.780E-03
1050	3.904E-17	2.143E-15	3.629E-14	1.774E-12	99.30	48.550	97.42	720.14	1.95	1.120E-01
1100	3.239E-17	1.193E-15	1.766E-14	8.574E-13	98.80	47.989	99.54	713.27	3.30	1.280E-01
1150	2.875E-17	5.856E-16	1.607E-15	8.077E-14	89.50	45.011	99.73	676.33	5.93	6.930E-01
1250	3.942E-17	7.928E-16	4.357E-16	2.668E-14	56.60	34.712	99.79	542.43	18.57	3.460E+00
1350	5.706E-17	2.282E-17	4.752E-16	3.224E-14	47.70	32.348	99.84	510.24	21.90	9.130E-02
1450	4.659E-16	8.512E-18	1.316E-15	1.709E-13	19.40	25.235	100.00	409.76	62.13	1.230E-02
Total	1.754E-15	6.319E-14	8.337E-13	2.861E-11		33.675				

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 1.0105E-2

Total fusion age (2 $\sigma$ ) = 528.38  $\pm$  3.26  
 Plateau age (2 $\sigma$ ) = n/a

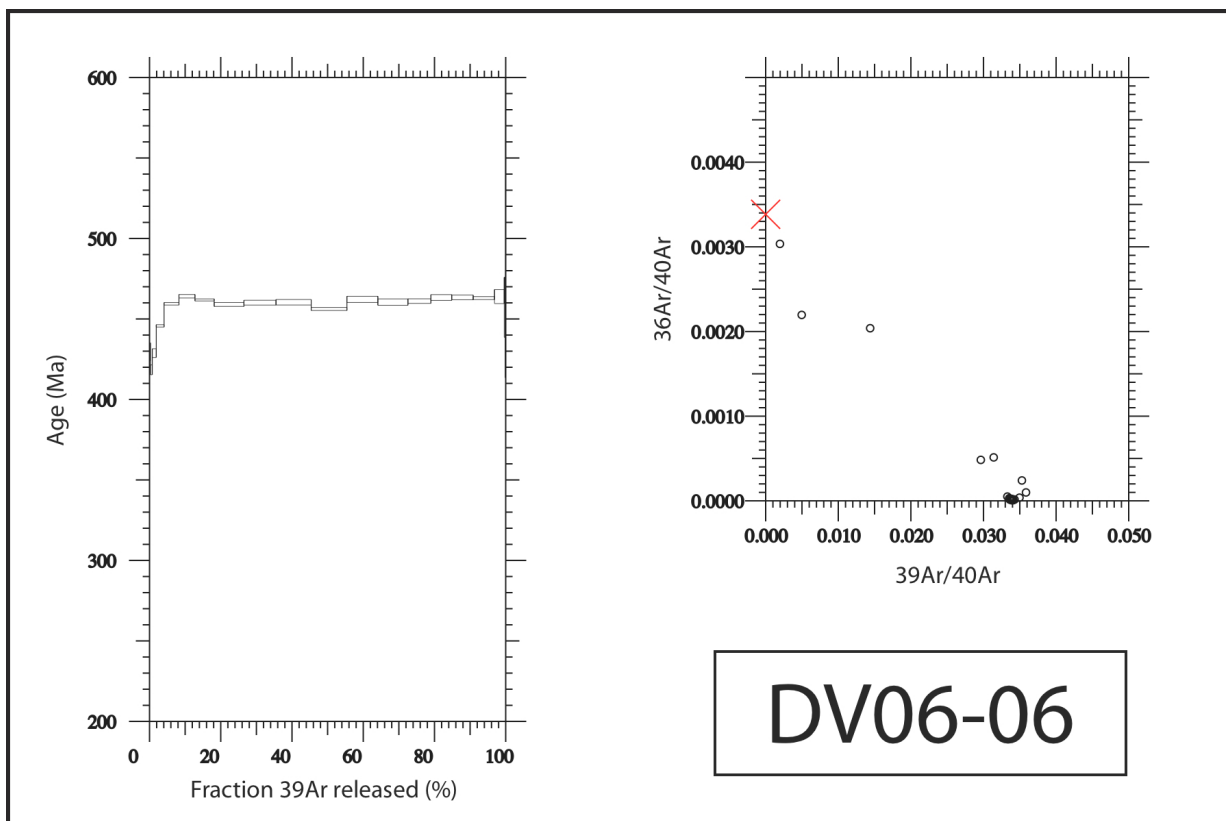


Sample: DV06-06  
 [GPS: NO89278901]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 4th August 2007  
 Mineral: Muscovite  
 Amount analysed: 2.9 mg  
 Grainsize: 120-180  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40</sup> *	Ar <sup>40</sup> */Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
500	1.898E-17	1.083E-15	1.162E-15	3.700E-14	85.10	27.119	0.26	429.62	5.51	1.770E+00
550	1.528E-17	6.038E-16	2.241E-15	6.350E-14	92.90	26.326	0.77	418.41	3.04	5.120E-01
600	1.365E-17	7.118E-16	4.941E-15	1.378E-13	97.00	27.060	1.88	428.80	2.71	2.740E-01
650	1.045E-17	3.685E-16	9.767E-15	2.794E-13	98.80	28.265	4.08	445.72	0.73	7.170E-02
700	1.162E-17	2.128E-17	1.855E-14	5.464E-13	99.30	29.250	8.26	459.42	0.77	2.180E-03
730	8.291E-18	2.968E-16	1.998E-14	5.941E-13	99.50	29.589	12.76	464.12	1.10	2.820E-02
760	1.113E-17	3.070E-16	2.396E-14	7.088E-13	99.40	29.423	18.15	461.82	0.64	2.440E-02
790	1.056E-17	2.426E-15	3.708E-14	1.087E-12	99.60	29.219	26.51	459.00	1.23	1.240E-01
810	8.036E-18	8.013E-16	3.998E-14	1.175E-12	99.70	29.301	35.51	460.13	1.49	3.810E-02
830	1.714E-17	9.079E-17	4.386E-14	1.292E-12	99.50	29.320	45.39	460.38	1.70	3.930E-03
850	1.939E-17	9.085E-17	4.453E-14	1.299E-12	99.50	29.019	55.42	456.22	0.97	3.880E-03
870	8.833E-18	9.092E-17	3.853E-14	1.138E-12	99.70	29.448	64.10	462.17	1.93	4.480E-03
900	1.070E-17	9.097E-17	3.745E-14	1.102E-12	99.60	29.327	72.54	460.49	1.97	4.620E-03
930	1.885E-17	5.522E-16	2.866E-14	8.482E-13	99.30	29.372	79.00	461.11	1.41	3.660E-02
970	2.254E-17	1.143E-15	2.595E-14	7.735E-13	99.10	29.532	84.84	463.33	1.81	8.370E-02
1010	1.663E-17	1.317E-15	2.670E-14	7.942E-13	99.30	29.537	90.86	463.39	1.46	9.370E-02
1050	2.385E-17	1.112E-15	2.661E-14	7.929E-13	99.00	29.507	96.85	462.98	0.94	7.940E-02
1090	1.821E-17	9.126E-17	1.209E-14	3.632E-13	98.40	29.574	99.57	463.91	4.36	1.430E-02
1150	2.359E-17	2.230E-15	1.446E-15	4.880E-14	86.10	29.093	99.90	457.24	18.62	2.930E+00
1250	3.164E-17	9.202E-17	2.234E-16	1.552E-14	39.80	27.637	99.95	436.91	23.40	7.830E-01
1350	6.614E-17	2.162E-17	1.495E-16	3.012E-14	35.10	70.712	99.98	958.48	85.47	2.750E-01
1450	1.159E-16	2.164E-17	7.504E-17	3.819E-14	10.30	52.671	100.00	758.04	301.68	5.480E-01
Total	5.014E-16	1.356E-14	4.439E-13	1.317E-11		29.300				

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 9.9152E-3

Total fusion age (2 $\sigma$ ) = 460.12  $\pm$  3.28  
 Plateau age (2 $\sigma$ ) = 462.47  $\pm$  1.16  
 MSWD = 0.53, Probability = 0.83



Sample: DV06-11  
 [GPS: NO89598968]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 31st July 2007  
 Mineral: Muscovite  
 Amount analysed: 2.5 mg  
 Grainsize: 120-180  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	$\text{Ar}^{36}$ (mol)	$\text{Ar}^{37}$ (mol)	$\text{Ar}^{39}$ (mol)	$\text{Ar}^{40}$ (mol)	% $\text{Ar}^{40*}$	$\text{Ar}^{40*}/\text{Ar}^{39}(\text{K})$	Cumulative $\text{Ar}^{39}$ (%)	Age (Ma)	Error ( $1\sigma$ )	Ca/K
550	1.399E-17	2.594E-16	6.411E-17	5.526E-15	25.60	22.172	0.02	360.77	127.39	7.710E+00
600	2.783E-16	1.935E-16	3.250E-15	1.684E-13	51.10	26.498	1.00	423.46	5.62	1.130E-01
650	1.961E-16	3.591E-17	5.966E-15	2.355E-13	75.30	29.730	2.81	468.92	2.69	1.140E-02
700	1.241E-16	1.965E-17	1.138E-14	3.879E-13	90.50	30.850	6.26	484.41	1.85	3.280E-03
730	6.721E-17	5.649E-16	1.226E-14	3.962E-13	94.90	30.686	9.98	482.15	1.65	8.760E-02
760	4.701E-17	2.133E-17	1.539E-14	4.773E-13	97.00	30.088	14.64	473.89	0.66	2.630E-03
790	5.962E-17	7.457E-16	2.381E-14	7.221E-13	97.50	29.559	21.86	466.55	2.49	5.950E-02
810	8.467E-17	8.377E-17	2.574E-14	7.835E-13	96.70	29.442	29.66	464.92	1.54	6.180E-03
830	3.435E-17	8.510E-16	2.992E-14	8.785E-13	98.80	29.001	38.73	458.77	1.93	5.400E-02
850	3.368E-17	2.178E-16	2.993E-14	8.791E-13	98.80	29.017	47.80	458.99	1.84	1.380E-02
870	4.725E-17	8.040E-16	2.473E-14	7.315E-13	98.00	28.996	55.29	458.70	2.08	6.180E-02
890	2.673E-17	8.397E-17	1.947E-14	5.822E-13	98.60	29.470	61.19	465.31	1.63	8.190E-03
930	5.296E-17	2.342E-15	2.292E-14	6.857E-13	97.70	29.221	68.14	461.84	1.65	1.940E-01
970	4.485E-17	6.314E-16	2.030E-14	6.046E-13	97.70	29.106	74.29	460.24	1.25	5.910E-02
1010	3.578E-17	1.093E-15	2.079E-14	6.179E-13	98.20	29.197	80.59	461.50	2.39	9.990E-02
1040	3.054E-17	6.743E-16	2.281E-14	6.774E-13	98.60	29.277	87.51	462.62	1.22	5.620E-02
1070	1.903E-17	1.265E-15	2.542E-14	7.537E-13	99.20	29.414	95.21	464.53	2.39	9.450E-02
1100	2.686E-17	2.909E-15	1.262E-14	3.803E-13	97.90	29.507	99.04	465.83	2.03	4.380E-01
1150	2.047E-17	1.996E-17	1.840E-15	5.932E-14	89.70	28.923	99.59	457.68	4.12	2.060E-02
1250	3.498E-17	6.779E-17	4.985E-16	2.443E-14	57.70	28.256	99.74	448.33	16.90	2.580E-01
1350	6.469E-17	1.999E-17	4.698E-16	3.237E-14	40.90	28.192	99.89	447.43	18.09	8.080E-02
1450	1.445E-16	3.768E-16	3.745E-16	5.185E-14	17.70	24.487	100.00	394.60	41.55	1.910E+00
Total	1.488E-15	1.328E-14	3.299E-13	1.014E-11		29.365				

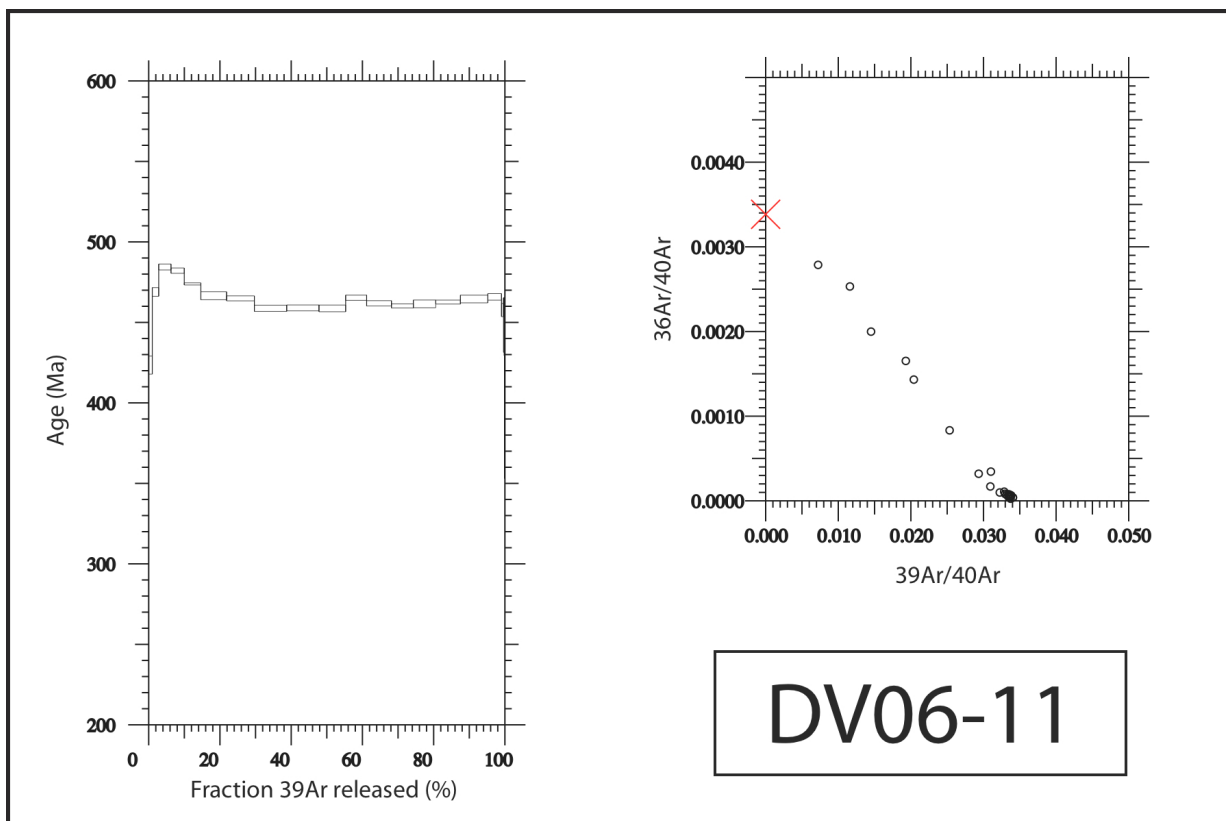
$\text{Lambda K}^{40} = 5.5430\text{E-}10$

J factor =  $9.9842\text{E-}3$

Total fusion age ( $2\sigma$ ) =  $463.85 \pm 2.98$

Plateau age ( $2\sigma$ ) =  $461.93 \pm 1.12$

MSWD = 1.7, Probability = 0.067

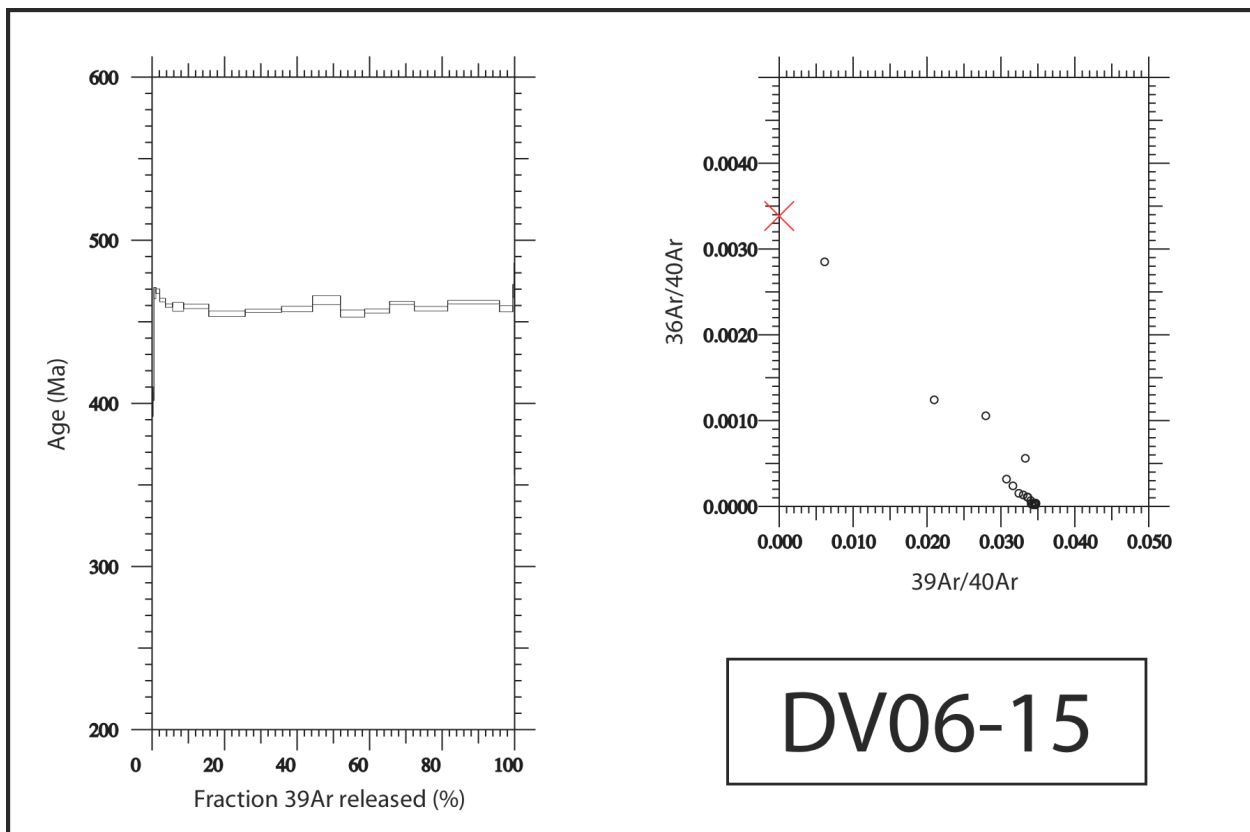


Sample: DV06-15  
 [GPS: NO90939237]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 24th July 2007  
 Mineral: Muscovite  
 Amount analysed: 2.8 mg  
 Grainsize: 250-420  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40*</sup>	Ar <sup>40*</sup> /Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
550	7.701E-17	1.709E-17	2.038E-15	7.291E-14	68.70	24.581	0.25	399.34	7.44	1.590E-02
600	3.887E-17	2.620E-16	2.310E-15	6.936E-14	83.40	25.036	0.52	405.96	4.22	2.160E-01
650	3.321E-17	1.711E-17	4.380E-15	1.385E-13	92.80	29.357	1.05	467.63	3.47	7.420E-03
700	4.139E-17	3.057E-16	8.789E-15	2.711E-13	95.40	29.436	2.11	468.73	1.40	6.610E-02
740	5.271E-17	1.857E-17	1.301E-14	3.940E-13	96.00	29.051	3.67	463.34	1.11	2.710E-03
770	5.370E-17	2.119E-16	1.641E-14	4.890E-13	96.70	28.809	5.64	459.92	1.05	2.450E-02
790	8.081E-17	8.601E-16	2.533E-14	7.528E-13	96.70	28.752	8.69	459.12	2.73	6.450E-02
810	1.138E-16	1.644E-15	5.769E-14	1.695E-12	97.90	28.776	15.63	459.46	1.37	5.420E-02
830	8.400E-17	1.188E-15	8.366E-14	2.408E-12	98.90	28.456	25.69	454.95	1.71	2.700E-02
850	5.968E-17	7.306E-17	8.361E-14	2.410E-12	99.20	28.584	35.74	456.75	0.96	1.660E-03
870	3.564E-17	8.725E-16	7.072E-14	2.039E-12	99.40	28.662	44.25	457.85	1.70	2.340E-02
900	5.379E-17	2.545E-15	6.405E-14	1.878E-12	99.10	29.045	51.95	463.25	2.76	7.550E-02
940	5.949E-17	7.902E-16	5.578E-14	1.607E-12	98.80	28.465	58.65	455.07	2.18	2.690E-02
990	5.992E-17	7.326E-17	5.721E-14	1.654E-12	98.80	28.572	65.53	456.58	1.25	2.430E-03
1020	6.040E-17	7.331E-17	5.641E-14	1.651E-12	98.80	28.926	72.32	461.57	0.98	2.470E-03
1050	7.435E-17	7.335E-17	7.682E-14	2.227E-12	98.90	28.672	81.55	458.00	1.40	1.810E-03
1100	6.490E-17	7.340E-17	1.185E-13	3.455E-12	99.40	28.960	95.81	462.05	1.06	1.180E-03
1150	3.255E-17	1.766E-15	3.062E-14	8.882E-13	98.80	28.674	99.49	458.02	1.91	1.100E-01
1250	3.059E-17	3.996E-16	2.958E-15	9.618E-14	90.60	29.451	99.84	468.95	4.01	2.570E-01
1350	5.935E-17	1.741E-17	1.002E-15	4.778E-14	63.20	30.148	99.96	478.70	7.46	3.300E-02
1450	1.380E-16	5.789E-17	2.976E-16	4.841E-14	15.80	25.633	100.00	414.61	58.69	3.700E-01
Total	1.304E-15	1.134E-14	8.316E-13	2.429E-11		28.720				

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 1.0079E-2

Total fusion age (2 $\sigma$ ) = 458.67  $\pm$  3.20  
 Plateau age (2 $\sigma$ ) = 457.31  $\pm$  1.08  
 MSWD = 1.6, Probability = 0.13



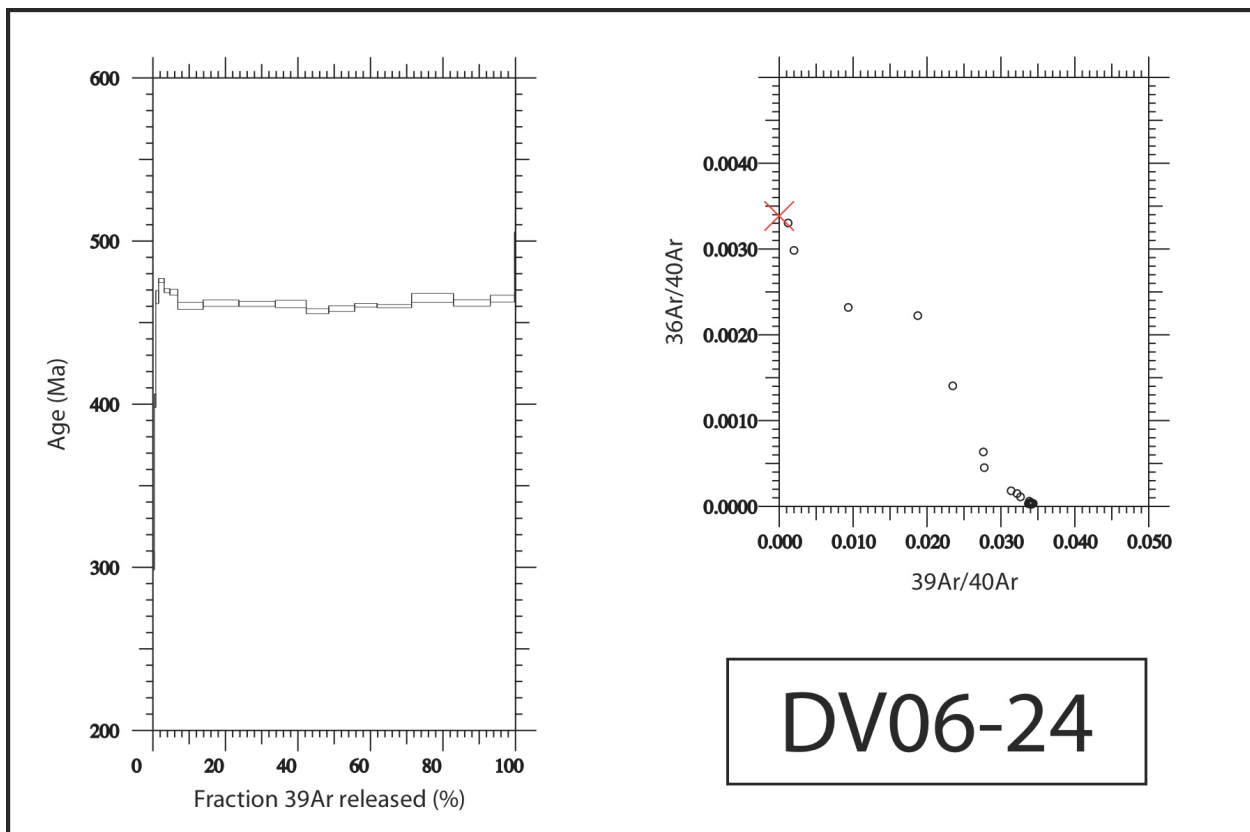


Sample: DV06-24  
 [GPS: NO92349436]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 23rd July 2007  
 Mineral: Muscovite  
 Amount analysed: 2.3 mg  
 Grainsize: 250-420  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40*</sup>	Ar <sup>40*</sup> /Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
550	2.835E-16	8.758E-16	2.390E-15	1.275E-13	34.30	18.327	0.40	304.12	5.67	6.960E-01
600	1.412E-16	5.944E-16	2.360E-15	1.005E-13	58.50	24.922	0.80	402.13	4.24	4.790E-01
650	1.056E-16	3.511E-16	4.594E-15	1.663E-13	81.20	29.395	1.58	465.69	4.04	1.450E-01
700	5.218E-17	1.627E-16	9.000E-15	2.868E-13	94.50	30.125	3.11	475.86	1.27	3.430E-02
730	4.353E-17	4.436E-16	9.369E-15	2.911E-13	95.50	29.674	4.69	469.59	1.19	9.000E-02
760	4.382E-17	3.640E-16	1.288E-14	3.945E-13	96.60	29.605	6.87	468.62	1.79	5.370E-02
790	7.387E-17	1.742E-15	4.119E-14	1.217E-12	98.10	29.001	13.85	460.18	2.14	8.040E-02
810	6.603E-17	1.766E-15	5.826E-14	1.718E-12	98.80	29.125	23.71	461.92	1.95	5.760E-02
830	4.339E-17	3.170E-15	5.942E-14	1.743E-12	99.20	29.095	33.77	461.50	1.56	1.010E-01
850	3.471E-17	2.500E-15	5.022E-14	1.472E-12	99.20	29.088	42.27	461.40	2.28	9.460E-02
870	3.685E-17	2.274E-15	3.675E-14	1.069E-12	98.90	28.774	48.50	457.00	1.55	1.180E-01
910	4.783E-17	1.636E-15	4.232E-14	1.237E-12	98.80	28.886	55.66	458.58	1.78	7.340E-02
950	4.457E-17	3.608E-15	3.635E-14	1.069E-12	98.70	29.034	61.82	460.64	1.16	1.890E-01
1000	7.411E-17	3.404E-18	5.628E-14	1.655E-12	98.60	28.992	71.34	460.06	0.96	1.150E-04
1030	6.499E-17	3.669E-16	6.818E-14	2.022E-12	99.00	29.353	82.89	465.10	2.77	1.020E-02
1060	4.842E-17	9.581E-16	5.998E-14	1.763E-12	99.10	29.133	93.05	462.03	1.98	3.030E-02
1100	3.525E-17	3.477E-15	3.950E-14	1.169E-12	99.00	29.321	99.73	464.66	2.14	1.670E-01
1150	2.205E-17	1.301E-15	1.354E-15	4.880E-14	86.90	31.335	99.96	492.58	12.92	1.830E+00
1250	3.263E-17	2.025E-16	1.315E-16	1.407E-14	31.60	33.868	99.98	527.09	50.62	2.930E+00
1350	6.188E-17	1.108E-16	4.143E-17	2.074E-14	11.90	59.573	99.99	844.39	506.10	5.090E+00
1450	1.391E-16	3.920E-16	5.069E-17	4.211E-14	2.50	20.828	100.00	341.92	865.18	1.480E+01
Total	1.496E-15	2.630E-14	5.906E-13	1.763E-11		29.077				

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 1.0019E-2

Total fusion age (2 $\sigma$ ) = 461.24  $\pm$  4.08  
 Plateau age (2 $\sigma$ ) = 460.63  $\pm$  0.96  
 MSWD = 1.7, Probability = 0.058



Sample: DV06-40  
 [GPS: NO94439741]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 21st July 2007  
 Mineral: Muscovite  
 Amount analysed: 2.9 mg  
 Grainsize: 250-420  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	$\text{Ar}^{36}$ (mol)	$\text{Ar}^{37}$ (mol)	$\text{Ar}^{39}$ (mol)	$\text{Ar}^{40}$ (mol)	% $\text{Ar}^{40*}$	$\text{Ar}^{40*}/\text{Ar}^{39}(\text{K})$	Cumulative $\text{Ar}^{39}$ (%)	Age (Ma)	Error ( $1\sigma$ )	Ca/K
500	7.995E-17	1.131E-15	8.023E-16	4.081E-14	42.30	21.563	0.20	350.03	19.12	2.680E+00
550	4.217E-17	2.731E-16	8.957E-16	3.173E-14	60.70	21.520	0.42	349.38	9.89	5.790E-01
600	6.053E-17	2.366E-16	1.840E-15	6.174E-14	71.00	23.824	0.87	383.09	5.28	2.440E-01
650	5.873E-17	1.028E-16	3.534E-15	1.199E-13	85.50	29.002	1.74	456.58	3.20	5.530E-02
700	3.445E-17	2.124E-16	7.110E-15	2.205E-13	95.30	29.564	3.49	464.38	1.44	5.680E-02
740	2.670E-19	4.329E-16	2.235E-16	7.060E-15	99.40	31.463	3.55	490.49	24.50	3.690E+00
770	5.370E-19	1.780E-17	2.728E-16	8.223E-15	98.00	29.547	3.61	464.14	14.69	1.240E-01
790	7.659E-18	5.458E-16	3.336E-15	9.975E-14	97.70	29.214	4.43	459.53	4.14	3.110E-01
810	4.814E-17	2.996E-15	2.320E-14	6.938E-13	97.90	29.278	10.14	460.42	2.32	2.450E-01
830	1.263E-17	4.891E-16	8.543E-15	2.532E-13	98.50	29.178	12.25	459.02	1.14	1.090E-01
850	4.906E-17	1.963E-15	4.224E-14	1.251E-12	98.80	29.250	22.64	460.02	0.89	8.830E-02
870	3.903E-17	2.560E-15	3.588E-14	1.064E-12	98.80	29.309	31.48	460.85	2.88	1.360E-01
890	4.135E-17	2.832E-15	2.729E-14	8.038E-13	98.40	28.993	38.19	456.45	1.49	1.970E-01
920	3.105E-17	2.961E-15	2.769E-14	8.253E-13	98.80	29.458	45.01	462.90	2.03	2.030E-01
960	4.361E-17	2.548E-15	3.008E-14	8.977E-13	98.50	29.404	52.41	462.16	1.80	1.610E-01
1000	4.054E-17	1.915E-15	3.157E-14	9.320E-13	98.60	29.125	60.18	458.29	1.37	1.150E-01
1040	5.757E-17	1.955E-15	4.686E-14	1.377E-12	98.70	29.002	71.72	456.58	1.10	7.930E-02
1080	5.820E-17	1.477E-15	7.127E-14	2.107E-12	99.10	29.299	89.26	460.71	1.14	3.940E-02
1150	4.154E-17	2.254E-15	3.514E-14	1.043E-12	98.80	29.330	97.91	461.14	1.49	1.220E-01
1250	4.200E-17	1.763E-15	4.000E-15	1.315E-13	90.60	29.791	98.89	467.52	1.82	8.380E-01
1350	7.473E-17	6.730E-16	3.800E-15	1.380E-13	84.00	30.487	99.83	477.12	2.55	3.370E-01
1450	1.474E-16	5.454E-16	6.964E-16	6.604E-14	34.10	32.372	100.00	502.85	16.90	1.490E+00
Total	1.011E-15	2.988E-14	4.063E-13	1.217E-11						

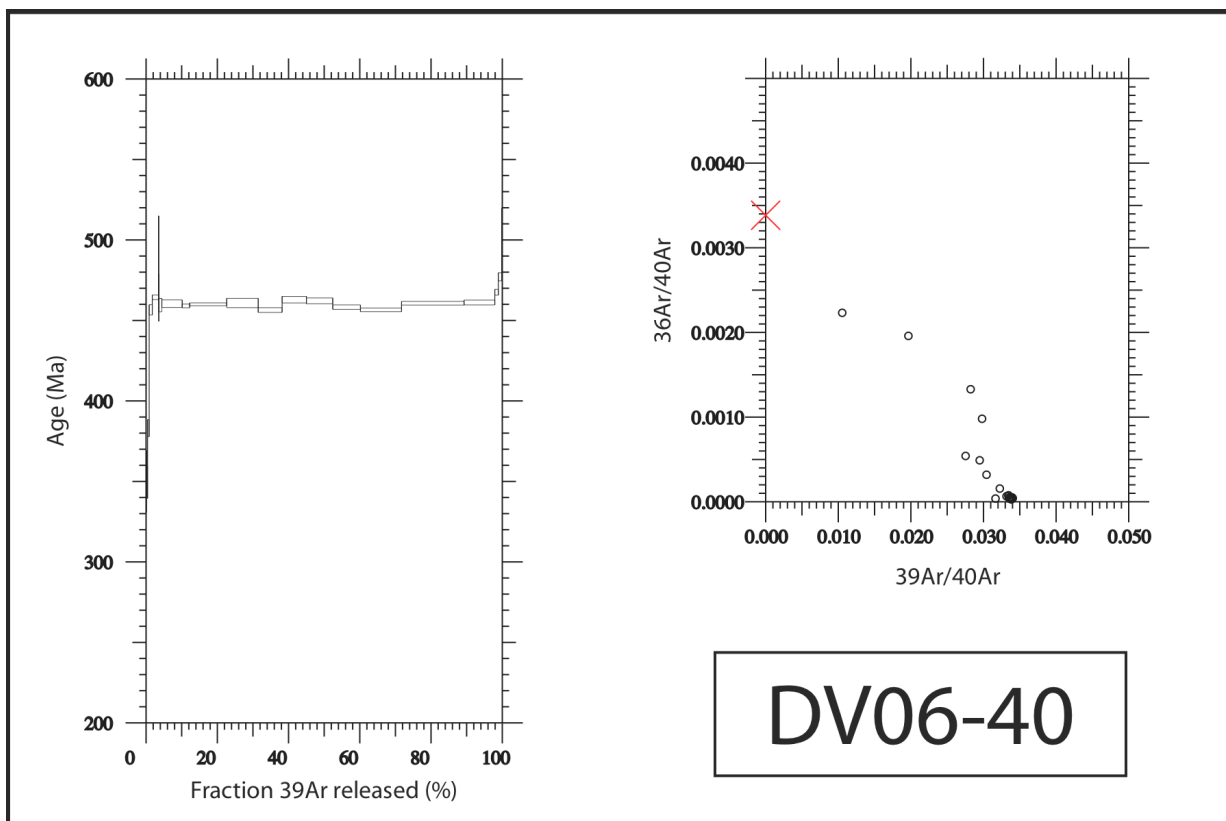
$\text{Lambda K}^{40} = 5.5430\text{E-}10$

J factor =  $9.9299\text{E-}3$

Total fusion age ( $2\sigma$ ) =  $459.48 \pm 3.40$

Plateau age ( $2\sigma$ ) =  $459.58 \pm 1.00$

MSWD = 1.2, Probability = 0.028

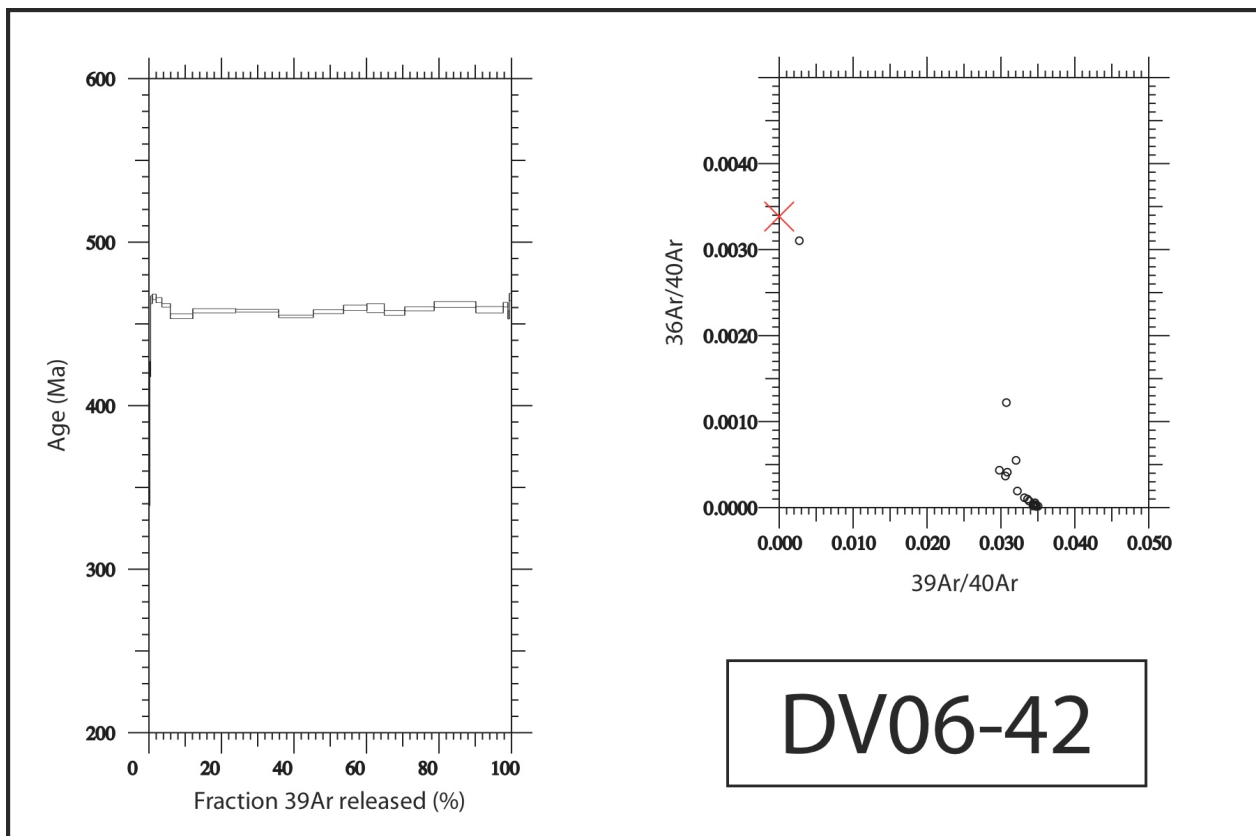


Sample: DV06-42  
 [GPS: NO55907847]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 20th July 2007  
 Mineral: Muscovite  
 Amount analysed: 2.5 mg  
 Grainsize: 250-420  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	$\text{Ar}^{36}$ (mol)	$\text{Ar}^{37}$ (mol)	$\text{Ar}^{39}$ (mol)	$\text{Ar}^{40}$ (mol)	% $\text{Ar}^{40*}$	$\text{Ar}^{40*}/\text{Ar}^{39}$ (K)	Cumulative $\text{Ar}^{39}$ (%)	Age (Ma)	Error ( $1\sigma$ )	Ca/K
550	7.713E-17	4.641E-16	1.942E-15	6.318E-14	63.90	20.802	0.24	343.88	5.07	4.540E-01
600	3.261E-17	1.808E-16	1.902E-15	5.936E-14	83.70	26.132	0.48	422.37	4.73	1.810E-01
650	4.470E-17	5.257E-16	3.725E-15	1.217E-13	89.10	29.107	0.94	464.74	2.41	2.680E-01
700	4.972E-17	1.580E-17	8.308E-15	2.578E-13	94.20	29.239	1.98	466.59	1.66	3.610E-03
740	4.414E-17	1.715E-17	1.277E-14	3.849E-13	96.50	29.090	3.57	464.50	1.55	2.550E-03
770	5.470E-17	1.716E-17	1.864E-14	5.548E-13	97.00	28.865	5.89	461.33	1.13	1.750E-03
790	8.030E-17	2.241E-15	4.984E-14	1.440E-12	98.30	28.392	12.10	454.64	1.47	8.540E-02
810	8.742E-17	3.317E-15	9.503E-14	2.749E-12	99.00	28.632	23.94	458.04	1.29	6.630E-02
830	4.752E-17	2.187E-15	9.509E-14	2.739E-12	99.40	28.632	35.78	458.04	0.82	4.370E-02
850	3.585E-17	3.502E-15	7.667E-14	2.189E-12	99.40	28.389	45.33	454.61	0.79	8.680E-02
880	2.674E-17	1.944E-15	6.710E-14	1.928E-12	99.50	28.591	53.69	457.45	1.20	5.500E-02
920	4.210E-17	6.010E-16	5.161E-14	1.498E-12	99.10	28.763	60.12	459.88	1.61	2.210E-02
960	4.229E-17	6.761E-17	3.838E-14	1.117E-12	98.80	28.748	64.90	459.68	2.74	3.350E-03
1000	4.500E-17	6.765E-17	4.549E-14	1.313E-12	98.90	28.541	70.56	456.76	1.49	2.830E-03
1030	4.973E-17	2.876E-16	6.514E-14	1.887E-12	99.10	28.717	78.68	459.23	1.22	8.390E-03
1060	5.263E-17	2.367E-16	9.218E-14	2.683E-12	99.30	28.904	90.16	461.88	1.82	4.880E-03
1100	3.630E-17	1.667E-15	6.071E-14	1.753E-12	99.30	28.676	97.72	458.66	1.96	5.220E-02
1150	2.305E-17	6.784E-16	1.022E-14	3.022E-13	97.70	28.894	99.00	461.74	1.38	1.260E-01
1250	4.205E-17	2.620E-16	3.151E-15	1.021E-13	87.80	28.453	99.39	455.51	2.55	1.580E-01
1350	6.979E-17	1.597E-17	4.784E-15	1.606E-13	87.10	29.224	99.98	466.38	2.25	6.340E-03
1450	1.510E-16	1.697E-16	1.324E-16	4.866E-14	8.30	30.539	100.00	484.78	324.71	2.440E+00
<b>Total</b>	<b>1.135E-15</b>	<b>1.847E-14</b>	<b>8.028E-13</b>	<b>2.335E-11</b>						

Lambda  $\text{K}^{40}$  = 5.5430E-10  
 J factor = 1.0095E-2

Total fusion age ( $2\sigma$ ) = 458.20  $\pm$  2.98  
 Plateau age ( $2\sigma$ ) = 459.05  $\pm$  1.06  
 MSWD = 1.6, Probability = 0.12

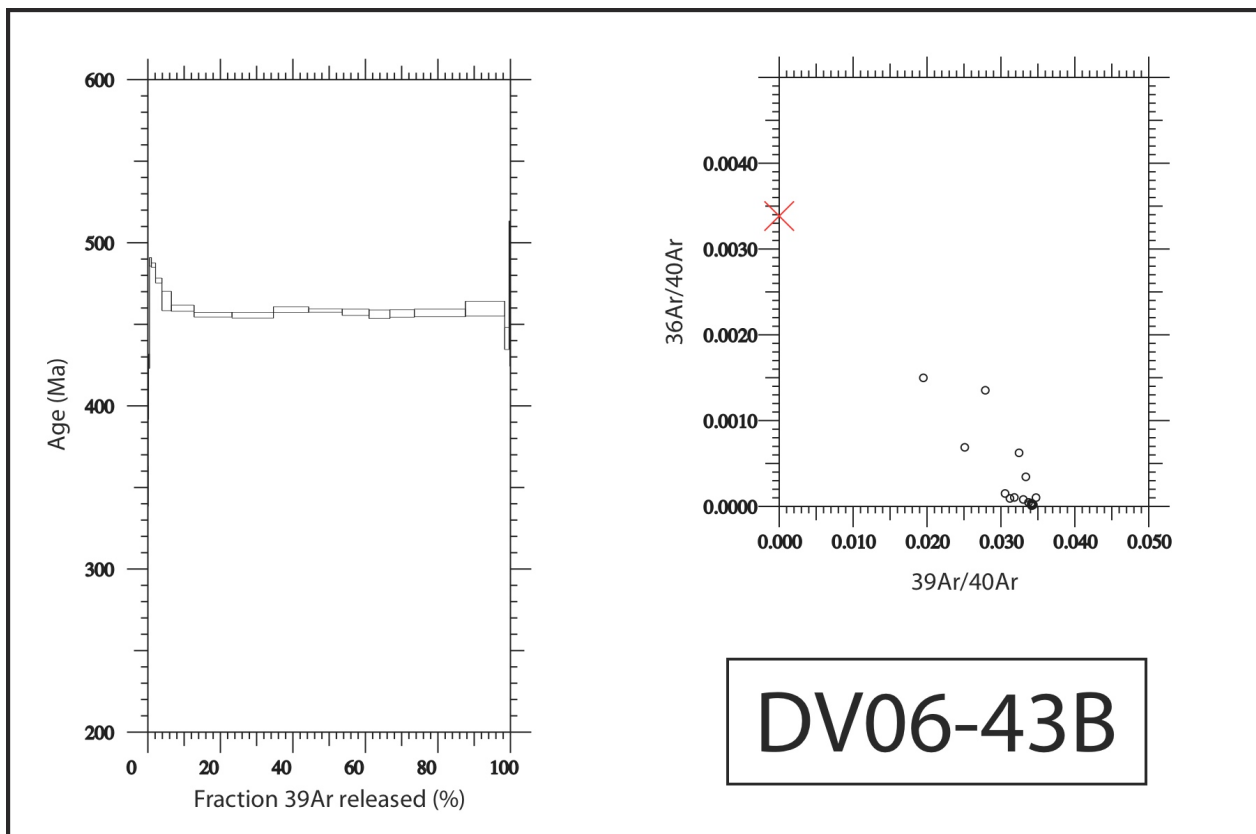


Sample: DV06-43B  
 [GPS: NO45647802]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 19th July 2007  
 Mineral: Muscovite  
 Amount analysed: 2.1 mg  
 Grainsize: 250-420  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40*</sup>	Ar <sup>40*</sup> /Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
500	1.980E-17	3.060E-16	4.080E-16	1.463E-14	60.20	21.595	0.07	350.82	12.38	1.430E+00
550	1.517E-17	3.165E-16	7.886E-16	2.430E-14	81.60	25.157	0.19	402.65	10.81	7.630E-01
600	1.670E-17	9.302E-17	1.617E-15	4.846E-14	89.70	26.891	0.45	427.35	4.39	1.090E-01
650	1.587E-17	5.464E-16	3.221E-15	1.054E-13	95.50	31.271	0.97	488.28	2.65	3.220E-01
700	2.120E-17	2.352E-16	7.121E-15	2.281E-13	97.20	31.128	2.12	486.33	1.33	6.270E-02
740	3.589E-17	1.679E-17	1.094E-14	3.439E-13	96.80	30.436	3.88	476.83	1.51	2.920E-03
770	3.991E-17	1.681E-17	1.627E-14	4.926E-13	97.50	29.528	6.49	464.29	5.91	1.960E-03
790	5.393E-17	3.294E-15	3.883E-14	1.151E-12	98.60	29.210	12.74	459.87	1.88	1.610E-01
810	4.507E-17	2.436E-15	6.509E-14	1.897E-12	99.20	28.924	23.21	455.89	1.42	7.110E-02
830	3.747E-17	3.369E-15	7.101E-14	2.065E-12	99.40	28.900	34.63	455.55	1.80	9.020E-02
850	1.594E-17	3.028E-15	6.058E-14	1.772E-12	99.70	29.148	44.37	459.01	1.73	9.500E-02
880	2.770E-17	1.984E-15	5.743E-14	1.681E-12	99.40	29.108	53.61	458.45	1.03	6.570E-02
920	4.115E-17	1.758E-15	4.594E-14	1.347E-12	99.00	29.032	61.00	457.39	1.92	7.270E-02
960	4.105E-17	4.487E-15	3.580E-14	1.049E-12	98.80	28.944	66.75	456.17	2.61	2.380E-01
1000	3.244E-17	4.395E-17	4.189E-14	1.225E-12	99.10	28.978	73.49	456.65	2.28	1.990E-03
1050	5.121E-17	4.397E-17	8.773E-14	2.562E-12	99.30	29.004	87.60	457.00	2.31	9.520E-04
1100	1.921E-17	3.300E-16	6.726E-14	1.971E-12	99.60	29.191	98.42	459.60	4.55	9.320E-03
1150	2.191E-17	1.252E-16	7.426E-15	2.137E-13	96.90	27.879	99.62	441.27	6.75	3.200E-02
1250	3.954E-17	3.661E-16	1.442E-15	5.744E-14	79.70	31.731	99.85	494.56	18.79	4.820E-01
1350	7.090E-17	1.237E-15	9.230E-16	4.732E-14	55.90	28.712	100.00	452.93	28.65	2.550E+00
1450	1.751E-16	2.978E-16	2.726E-17	4.877E-14	-6.00	0.001	100.00	0.02	259.20	2.090E+01
<b>Total</b>	<b>8.372E-16</b>	<b>2.433E-14</b>	<b>6.217E-13</b>	<b>1.834E-11</b>						

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 9.9397E-3

Total fusion age (2 $\sigma$ ) = 458.18  $\pm$  5.72  
 Plateau age (2 $\sigma$ ) = 457.57  $\pm$  1.10  
 MSWD = 1.3, Probability = 0.18

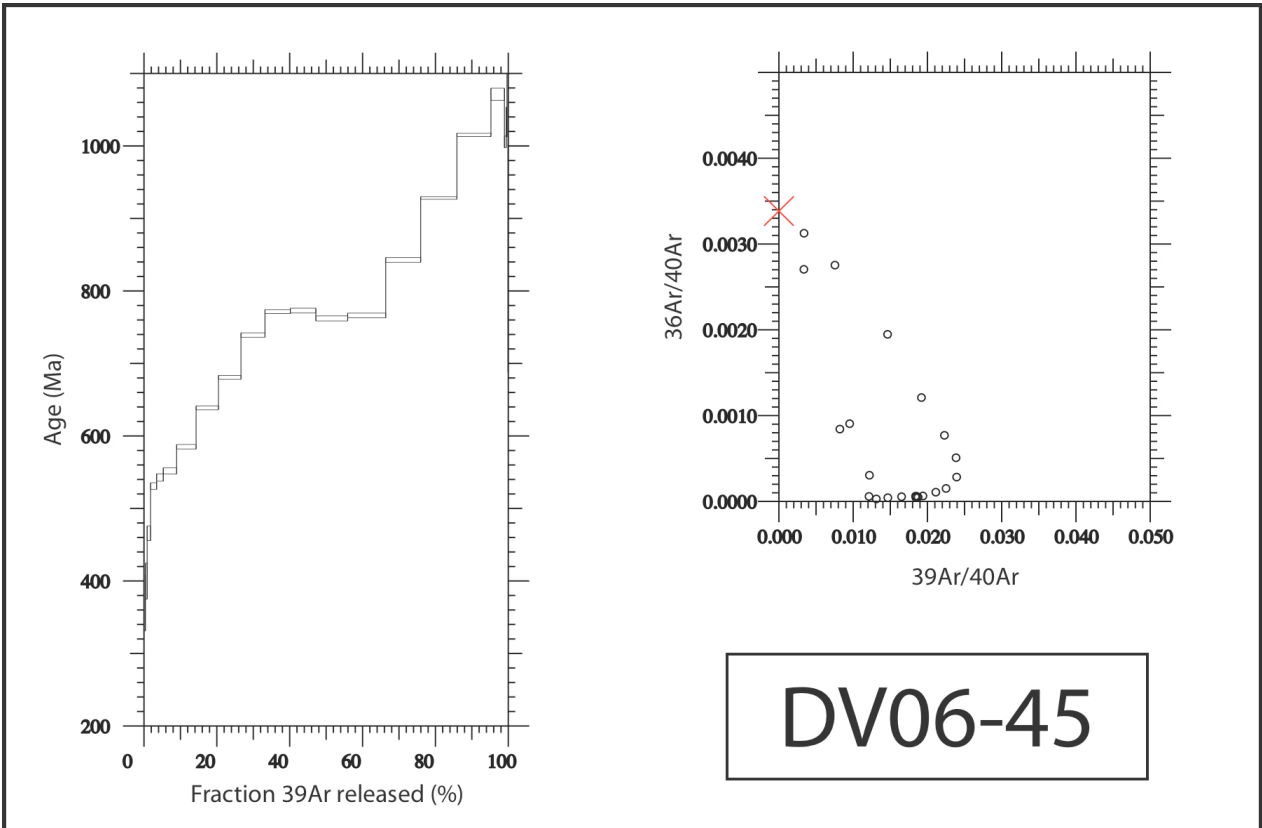


Sample: DV06-45  
 [GPS: NO58627331]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 11th August 2007  
 Mineral: Muscovite  
 Amount analysed: 3.3 mg  
 Grainsize: 120-180  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40*</sup>	Ar <sup>40*/Ar<sup>39</sup>(K)</sup>	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
500	7.795E-16	7.306E-16	8.441E-16	2.494E-13	7.70	22.701	0.38	369.06	37.96	1.650E+00
550	3.825E-16	1.245E-15	1.048E-15	1.389E-13	18.70	24.809	0.86	399.78	24.91	2.260E+00
600	2.769E-16	7.523E-15	2.081E-15	1.422E-13	43.00	29.458	1.80	465.75	10.13	6.890E+00
650	2.319E-16	2.223E-14	3.678E-15	1.916E-13	65.40	34.222	3.47	530.94	4.55	1.150E+01
680	1.388E-16	1.490E-14	4.017E-15	1.802E-13	78.00	35.099	5.29	542.69	5.06	7.070E+00
720	1.719E-16	1.151E-14	8.058E-15	3.378E-13	85.20	35.780	8.96	551.77	4.26	2.720E+00
760	1.392E-16	5.037E-15	1.174E-14	4.905E-13	91.70	38.310	14.30	585.07	3.19	8.150E-01
790	9.062E-17	7.126E-15	1.350E-14	5.998E-13	95.60	42.491	20.44	638.80	2.59	1.000E+00
810	6.912E-17	4.455E-15	1.359E-14	6.432E-13	96.80	45.850	26.62	680.82	2.71	6.230E-01
830	4.732E-17	7.478E-15	1.448E-14	7.467E-13	98.20	50.643	33.21	739.16	3.04	9.820E-01
850	5.112E-17	1.965E-15	1.532E-14	8.326E-13	98.20	53.366	40.17	771.47	2.76	2.440E-01
870	3.730E-17	4.405E-15	1.540E-14	8.348E-13	98.70	53.497	47.18	773.02	3.27	5.440E-01
900	5.068E-17	1.048E-16	1.921E-14	1.025E-12	98.50	52.571	55.92	762.10	3.50	1.040E-02
940	7.306E-17	1.048E-16	2.293E-14	1.236E-12	98.20	52.923	66.36	766.26	3.24	8.690E-03
980	7.025E-17	4.567E-15	2.111E-14	1.278E-12	98.40	59.556	75.96	842.85	3.35	4.110E-01
1020	6.433E-17	1.850E-15	2.185E-14	1.490E-12	98.70	67.299	85.90	928.34	1.83	1.610E-01
1060	4.515E-17	1.019E-15	2.053E-14	1.565E-12	99.10	75.562	95.24	1015.31	2.43	9.430E-02
1100	3.890E-17	4.610E-15	8.131E-15	6.703E-13	98.30	81.091	98.94	1071.25	8.45	1.080E+00
1150	2.631E-17	3.334E-16	1.052E-15	8.629E-14	91.00	74.630	99.42	1005.70	8.13	6.020E-01
1250	4.632E-17	1.327E-15	4.871E-16	5.113E-14	73.50	77.290	99.64	1032.98	20.57	5.190E+00
1350	6.643E-17	2.476E-17	6.466E-16	7.879E-14	75.10	91.482	99.93	1171.90	10.77	7.280E-02
1450	1.157E-16	2.478E-17	1.437E-16	4.278E-14	20.10	59.748	100.00	845.03	157.43	3.280E-01
Total	3.013E-15	1.026E-13	2.198E-13	1.291E-11						

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 9.9992E-3

Total fusion age (2 $\sigma$ ) = 787.3  $\pm$  7.42  
 Plateau age (2 $\sigma$ ) = n/a

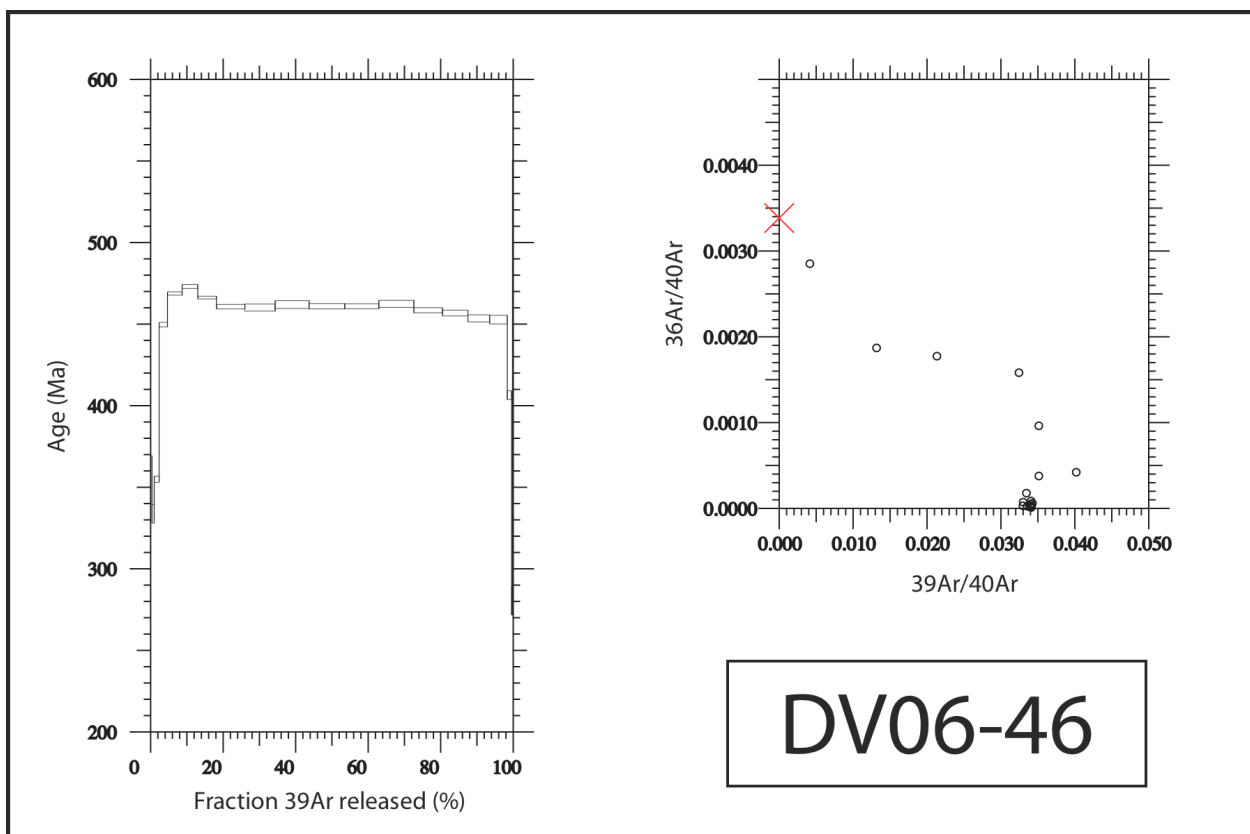


Sample: DV06-46  
 [GPS: NO58037416]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 5th August 2007  
 Mineral: Muscovite  
 Amount analysed: 3.2 mg  
 Grainsize: 120-180  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40*</sup>	Ar <sup>40*</sup> /Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
500	1.050E-16	7.865E-17	1.263E-15	5.918E-14	47.50	22.270	0.39	361.88	7.48	1.180E-01
550	5.373E-17	2.536E-16	1.961E-15	5.583E-14	71.50	20.366	0.98	333.63	5.63	2.460E-01
600	4.637E-17	1.176E-15	4.421E-15	1.100E-13	87.50	21.797	2.34	354.91	1.88	5.050E-01
650	4.002E-17	4.666E-15	7.516E-15	2.247E-13	94.90	28.379	4.63	449.66	1.42	1.180E+00
700	2.935E-17	1.340E-14	1.330E-14	4.029E-13	98.10	29.749	8.69	468.77	1.01	1.920E+00
730	1.296E-17	3.123E-15	1.410E-14	4.276E-13	99.10	30.055	13.00	473.02	1.24	4.210E-01
760	1.282E-17	3.204E-16	1.689E-14	5.035E-13	99.20	29.571	18.16	466.30	0.83	3.610E-02
790	2.440E-17	1.286E-15	2.566E-14	7.561E-13	99.00	29.165	25.99	460.66	1.38	9.520E-02
810	2.019E-17	3.295E-15	2.731E-14	8.018E-13	99.20	29.130	34.34	460.16	2.18	2.290E-01
830	1.814E-17	3.226E-15	3.061E-14	9.014E-13	99.40	29.260	43.69	461.98	2.41	2.000E-01
850	1.882E-17	1.602E-15	3.216E-14	9.449E-13	99.30	29.188	53.51	460.97	1.68	9.470E-02
870	1.055E-17	9.321E-17	3.086E-14	9.045E-13	99.60	29.185	62.94	460.94	1.55	5.740E-03
900	1.386E-17	1.390E-15	3.161E-14	9.307E-13	99.50	29.292	72.60	462.42	2.16	8.360E-02
930	2.183E-17	4.936E-16	2.592E-14	7.592E-13	99.10	29.012	80.52	458.51	1.56	3.620E-02
970	3.419E-17	2.556E-15	2.288E-14	6.714E-13	98.40	28.887	87.51	456.78	1.78	2.120E-01
1010	3.428E-17	2.158E-15	1.959E-14	5.718E-13	98.20	28.655	93.50	453.53	2.17	2.090E-01
1050	4.017E-17	4.210E-15	1.591E-14	4.669E-13	97.50	28.601	98.36	452.77	2.64	5.030E-01
1150	4.157E-17	2.527E-15	3.868E-15	1.101E-13	89.00	25.334	99.54	406.44	2.72	1.240E+00
1250	4.179E-17	3.439E-15	8.570E-16	2.642E-14	54.50	16.856	99.80	280.36	8.69	7.650E+00
1350	6.983E-17	1.176E-16	4.917E-16	3.733E-14	44.70	33.958	99.95	526.26	24.75	4.540E-01
1450	1.156E-16	2.215E-17	1.681E-16	4.053E-14	15.70	37.940	100.00	579.00	93.78	2.500E-01
Total	8.054E-16	4.944E-14	3.273E-13	9.707E-12						

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 9.9743E-3

Total fusion age (2 $\sigma$ ) = 457.21  $\pm$  3.88  
 Plateau age (2 $\sigma$ ) = 460.59  $\pm$  1.32  
 MSWD = 0.50, Probability = 0.81



Sample: DV06-48  
 [GPS: NO57947521]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 13th August 2007  
 Mineral: Biotite  
 Amount analysed: 2.5 mg  
 Grainsize: 250-420  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	$\text{Ar}^{36}$ (mol)	$\text{Ar}^{37}$ (mol)	$\text{Ar}^{39}$ (mol)	$\text{Ar}^{40}$ (mol)	% $\text{Ar}^{40*}$	$\text{Ar}^{40*}/\text{Ar}^{39}$ (K)	Cumulative $\text{Ar}^{39}$ (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
450	3.100E-15	3.444E-16	5.527E-15	9.971E-13	8.10	14.656	0.99	247.88	12.65	1.180E-01
500	1.750E-15	5.309E-16	6.474E-15	6.295E-13	17.80	17.322	2.15	289.51	8.25	1.560E-01
550	2.083E-15	6.086E-16	1.179E-14	8.375E-13	26.50	18.822	4.26	312.53	6.40	9.810E-02
600	7.380E-15	2.487E-16	3.002E-14	2.801E-12	22.10	20.652	9.64	340.21	9.16	1.570E-02
600	7.032E-15	3.783E-15	1.975E-14	2.562E-12	18.90	24.504	13.17	397.14	11.56	3.640E-01
650	8.615E-15	1.798E-15	4.275E-14	3.779E-12	32.60	28.826	20.83	458.95	6.50	7.990E-02
690	4.264E-15	2.914E-15	7.244E-14	3.409E-12	63.00	29.640	33.80	470.36	2.57	7.640E-02
720	8.835E-16	5.262E-16	8.398E-14	2.714E-12	90.30	29.184	48.84	463.97	1.49	1.190E-02
750	3.119E-16	1.092E-16	8.319E-14	2.519E-12	96.30	29.145	63.73	463.42	1.50	2.490E-03
780	1.742E-16	2.806E-15	5.231E-14	1.585E-12	96.70	29.304	73.10	465.65	1.11	1.020E-01
800	1.205E-16	2.541E-15	1.925E-14	6.084E-13	94.10	29.738	76.55	471.71	1.92	2.510E-01
820	9.505E-17	2.614E-15	1.186E-14	3.919E-13	92.80	30.681	78.67	484.84	2.90	4.190E-01
860	1.655E-16	1.931E-15	1.684E-14	5.740E-13	91.40	31.172	81.69	491.62	3.63	2.180E-01
900	1.725E-16	1.096E-16	1.693E-14	5.785E-13	91.10	31.131	84.72	491.05	2.55	1.230E-02
950	2.536E-16	2.296E-15	3.204E-14	1.054E-12	92.80	30.541	90.46	482.90	2.18	1.360E-01
1000	2.416E-16	2.096E-15	3.308E-14	1.036E-12	93.00	29.147	96.38	463.46	1.88	1.200E-01
1050	1.481E-16	1.103E-16	1.664E-14	5.107E-13	91.30	28.027	99.36	447.68	3.56	1.260E-02
1100	2.980E-17	3.878E-15	2.649E-15	8.885E-14	90.50	30.375	99.83	480.59	13.64	2.780E+00
1150	1.901E-17	6.900E-16	3.985E-16	1.834E-14	69.70	32.115	99.90	504.59	14.10	3.290E+00
1250	3.209E-17	4.874E-16	4.720E-16	2.407E-14	60.80	31.009	99.99	489.38	14.80	1.960E+00
1350	5.342E-17	2.588E-17	3.487E-17	1.795E-14	12.10	62.152	99.99	875.43	889.37	1.410E+00
1450	1.114E-16	1.690E-16	3.228E-17	3.319E-14	0.90	9.351	100.00	162.03	1196.68	9.990E+00
Total	3.703E-14	3.062E-14	5.585E-13	2.677E-11						

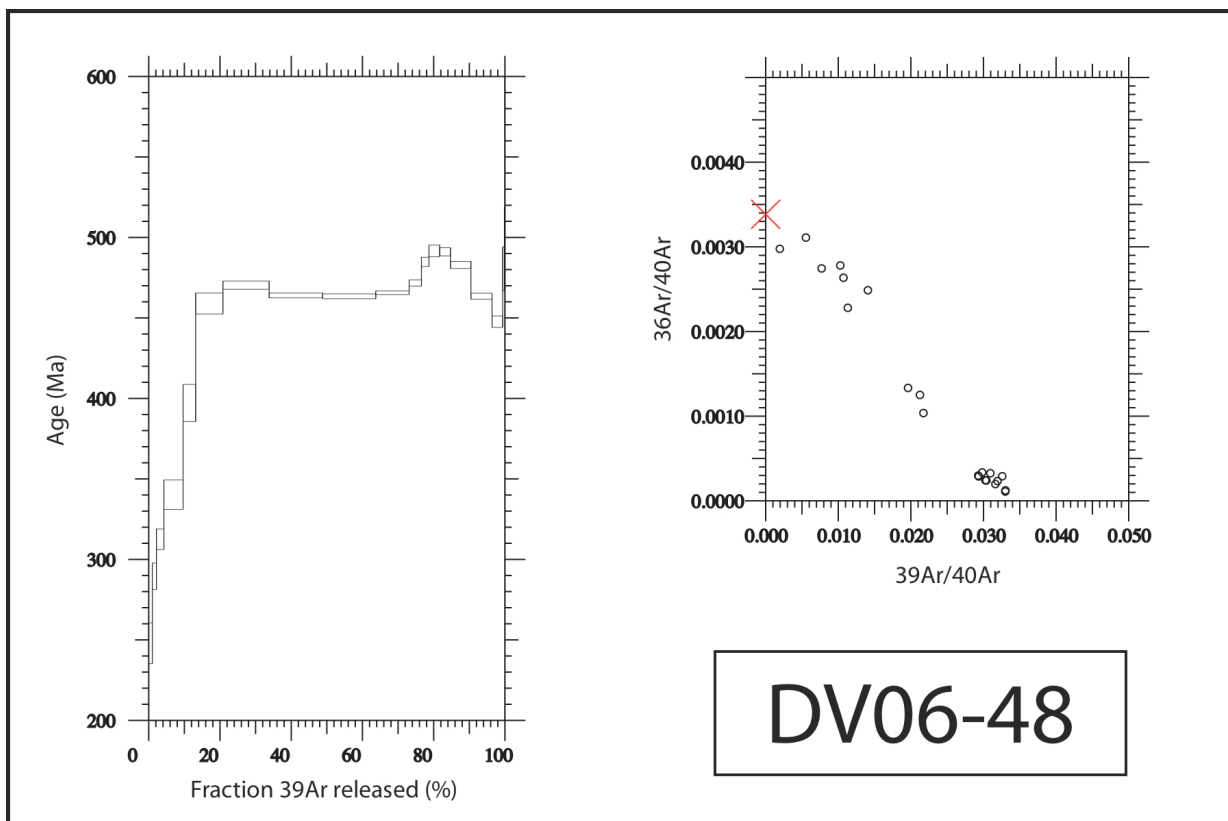
Lambda  $\text{K}^{40}$  = 5.5430E-10

J factor = 1.0049E-2

Total fusion age (2 $\sigma$ ) = 451.79  $\pm$  7.02

Plateau age (2 $\sigma$ ) = 465.02  $\pm$  1.46

MSWD = 1.8, Probability = 0.13



Sample: DV06-49B  
 [GPS: NO56207575]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 2nd August 2007  
 Mineral: Muscovite  
 Amount analysed: 2.6 mg  
 Grainsize: 250-420  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	$\text{Ar}^{36}$ (mol)	$\text{Ar}^{37}$ (mol)	$\text{Ar}^{39}$ (mol)	$\text{Ar}^{40}$ (mol)	% $\text{Ar}^{40*}$	$\text{Ar}^{40*}/\text{Ar}^{39}$ (K)	Cumulative $\text{Ar}^{39}$ (%)	Age (Ma)	Error ( $1\sigma$ )	Ca/K
550	1.821E-16	1.432E-15	1.551E-15	8.881E-14	39.50	22.647	0.20	369.60	10.96	1.760E+00
600	7.935E-17	1.134E-16	1.933E-15	6.889E-14	65.90	23.485	0.44	381.91	6.70	1.110E-01
650	5.608E-17	9.858E-17	3.424E-15	1.181E-13	85.90	29.622	0.88	469.68	3.25	5.470E-02
700	4.792E-17	2.297E-17	6.973E-15	2.235E-13	93.60	29.998	1.76	474.93	2.10	6.260E-03
730	2.908E-17	2.230E-17	8.128E-15	2.499E-13	96.50	29.663	2.79	470.26	1.42	5.210E-03
760	3.127E-17	3.547E-16	1.095E-14	3.306E-13	97.10	29.322	4.18	465.50	1.94	6.150E-02
790	3.755E-17	2.474E-15	1.826E-14	5.455E-13	97.90	29.256	6.50	464.56	1.52	2.570E-01
810	4.515E-17	1.227E-16	2.506E-14	7.368E-13	98.10	28.838	9.68	458.71	2.36	9.300E-03
830	6.215E-17	2.240E-15	4.739E-14	1.387E-12	98.60	28.860	15.69	459.02	1.43	8.980E-02
850	6.346E-17	1.658E-15	7.649E-14	2.232E-12	99.10	28.905	25.39	459.65	1.01	4.120E-02
870	5.563E-17	2.411E-15	7.555E-14	2.186E-12	99.20	28.701	34.98	456.79	1.53	6.060E-02
900	4.404E-17	8.719E-16	6.922E-14	2.010E-12	99.30	28.819	43.76	458.44	1.56	2.390E-02
930	3.818E-17	1.406E-16	5.222E-14	1.520E-12	99.20	28.866	50.38	459.10	0.95	5.120E-03
970	5.508E-17	3.368E-15	5.063E-14	1.478E-12	98.80	28.851	56.80	458.88	1.51	1.260E-01
1010	5.987E-17	8.830E-17	7.050E-14	2.068E-12	99.10	29.053	65.75	461.72	1.73	2.380E-03
1030	4.426E-17	8.836E-17	8.432E-14	2.461E-12	99.40	29.006	76.44	461.07	1.08	1.990E-03
1050	4.479E-17	8.841E-17	8.010E-14	2.357E-12	99.30	29.231	86.60	464.21	0.87	2.100E-03
1080	2.916E-17	8.842E-16	6.868E-14	2.004E-12	99.50	29.022	95.32	461.29	0.69	2.450E-02
1150	3.693E-17	7.420E-16	3.327E-14	9.827E-13	98.80	29.188	99.54	463.61	1.66	4.240E-02
1250	3.827E-17	1.677E-15	1.804E-15	6.356E-14	82.40	29.056	99.76	461.77	6.82	1.770E+00
1350	6.391E-17	2.084E-17	1.101E-15	5.119E-14	63.10	29.316	99.90	465.41	7.75	3.600E-02
1450	1.323E-16	2.085E-17	7.562E-16	5.996E-14	34.70	27.553	100.00	440.57	16.86	5.240E-02
Total	1.277E-15	1.894E-14	7.883E-13	2.322E-11						

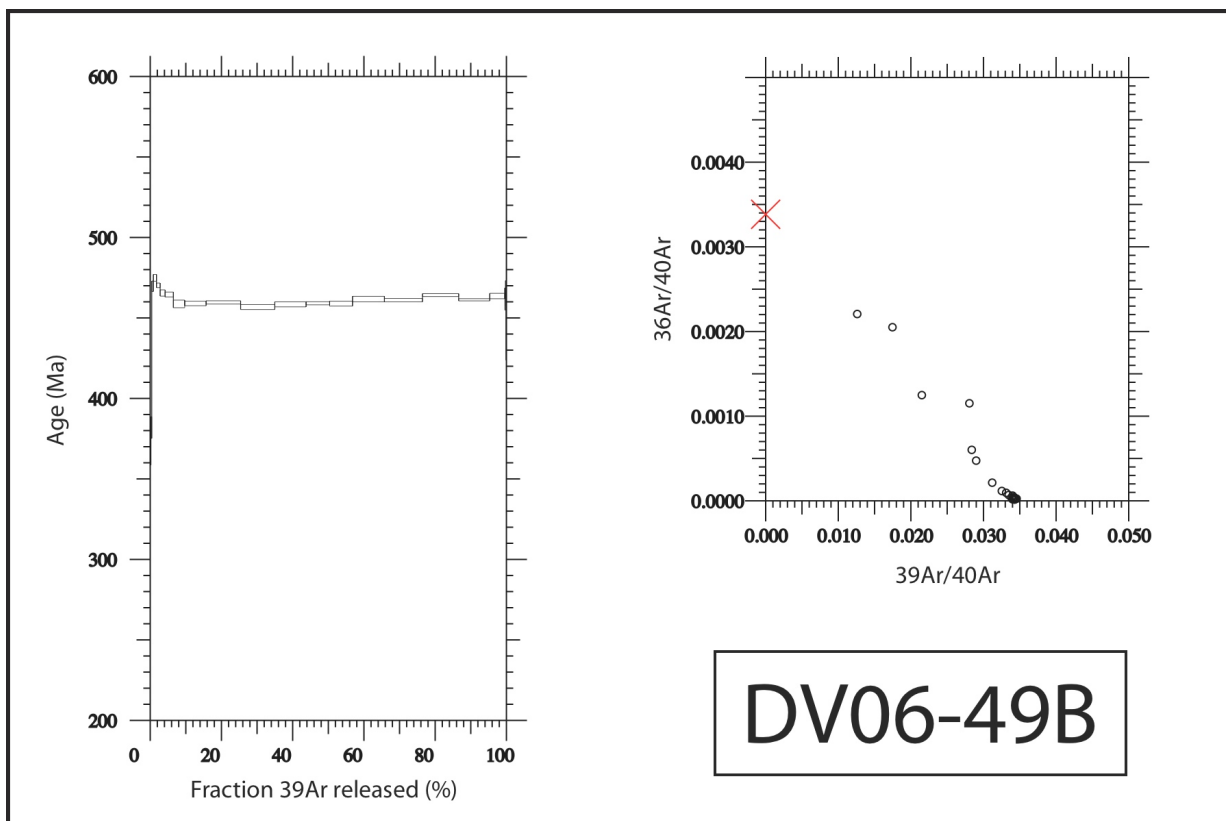
$\text{Lambda K}^{40} = 5.5430\text{E-}10$

J factor =  $1.0039\text{E-}2$

Total fusion age ( $2\sigma$ ) =  $460.35 \pm 2.76$

Plateau age ( $2\sigma$ ) =  $459.41 \pm 0.88$

MSWD = 0.99, Probability = 0.44



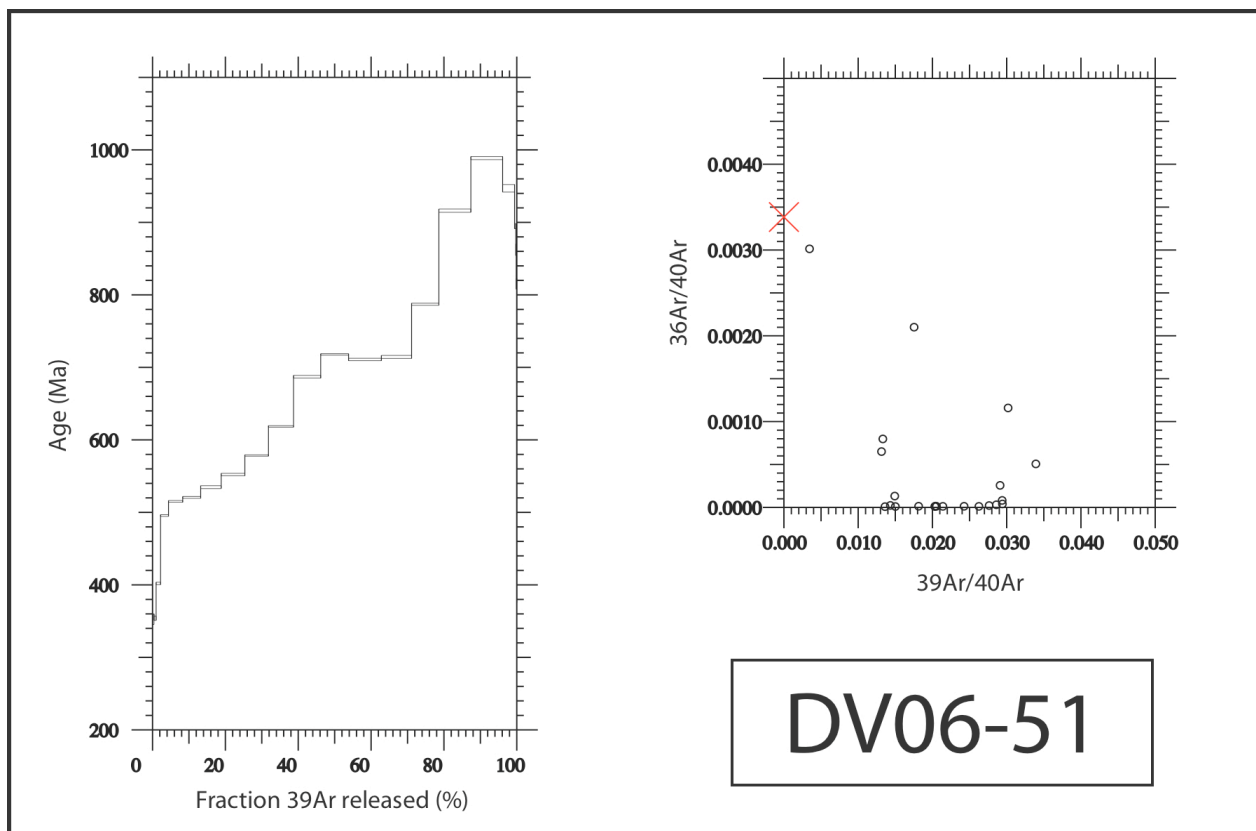


Sample: DV06-51  
 [GPS: NO89068778]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 9th August 2007  
 Mineral: Muscovite  
 Amount analysed: 3.2 mg  
 Grainsize: 120-180  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40</sup> *	Ar <sup>40</sup> */Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
500	3.936E-16	1.340E-15	3.285E-15	1.874E-13	38.00	21.669	0.42	352.69	7.22	7.750E-01
550	1.723E-16	5.973E-16	4.486E-15	1.486E-13	65.70	21.758	0.99	354.01	2.92	2.530E-01
600	1.426E-16	1.622E-15	9.540E-15	2.812E-13	85.00	25.050	2.21	402.00	1.69	3.230E-01
650	1.500E-16	2.222E-15	1.701E-14	5.843E-13	92.40	31.728	4.39	495.60	1.18	2.480E-01
700	8.455E-17	7.267E-16	3.051E-14	1.038E-12	97.50	33.168	8.29	515.17	1.22	4.520E-02
730	5.275E-17	4.571E-15	3.860E-14	1.312E-12	98.80	33.573	13.23	520.62	1.26	2.250E-01
760	4.721E-17	2.838E-15	4.396E-14	1.537E-12	99.00	34.633	18.85	534.85	1.94	1.230E-01
790	3.970E-17	6.204E-15	5.082E-14	1.839E-12	99.30	35.938	25.35	552.20	1.67	2.320E-01
810	2.330E-17	4.369E-15	5.060E-14	1.927E-12	99.60	37.938	31.83	578.48	0.96	1.640E-01
830	2.907E-17	4.005E-15	5.384E-14	2.219E-12	99.60	41.046	38.71	618.58	1.01	1.410E-01
850	3.319E-17	2.525E-15	5.831E-14	2.724E-12	99.60	46.517	46.17	687.07	1.89	8.230E-02
870	3.171E-17	1.766E-15	5.974E-14	2.941E-12	99.60	49.046	53.82	717.87	0.95	5.620E-02
900	4.429E-17	2.416E-15	7.042E-14	3.428E-12	99.60	48.470	62.82	710.90	1.66	6.520E-02
930	4.702E-17	4.219E-15	6.486E-14	3.178E-12	99.50	48.761	71.12	714.42	2.05	1.240E-01
960	4.383E-17	4.260E-15	5.857E-14	3.229E-12	99.60	54.887	78.61	787.05	1.47	1.380E-01
1000	4.753E-17	3.167E-15	6.858E-14	4.569E-12	99.70	66.409	87.39	916.21	2.29	8.770E-02
1050	4.463E-17	2.512E-15	6.826E-14	5.014E-12	99.70	73.244	96.12	988.68	2.09	6.990E-02
1100	4.161E-17	3.340E-15	2.562E-14	1.787E-12	99.30	69.281	99.39	947.01	5.22	2.480E-01
1150	2.264E-17	1.321E-15	2.552E-15	1.710E-13	96.10	64.447	99.72	894.86	3.58	9.840E-01
1250	4.335E-17	4.436E-16	8.757E-16	6.662E-14	80.80	61.496	99.83	862.26	8.03	9.630E-01
1350	7.051E-17	2.411E-17	1.177E-15	8.835E-14	76.40	57.346	99.98	815.41	7.58	3.890E-02
1450	1.141E-16	3.909E-16	1.306E-16	3.786E-14	11.10	32.152	100.00	501.38	125.42	5.700E+00
Total	1.720E-15	5.488E-14	7.817E-13	3.831E-11						

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 9.9644E-3

Total fusion age (2 $\sigma$ ) = 709.26  $\pm$  3.60  
 Plateau age (2 $\sigma$ ) = n/a

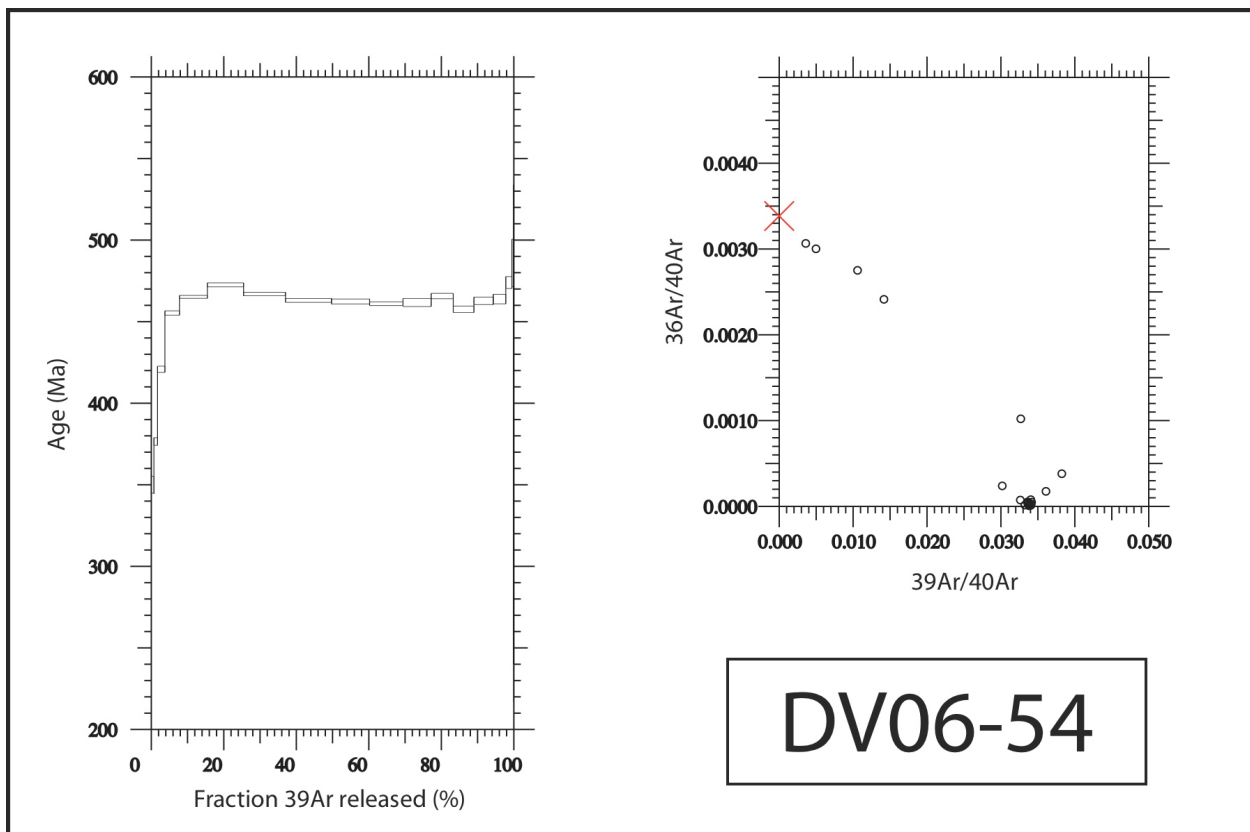


Sample: DV06-54  
 [GPS: NO58307364]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 8th August 2007  
 Mineral: Muscovite  
 Amount analysed: 2.6 mg  
 Grainsize: 120-180  $\mu\text{m}$

Temp (°C)	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40*</sup>	Ar <sup>40*</sup> /Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
500	8.271E-17	1.091E-15	2.648E-15	8.102E-14	69.90	21.393	0.73	350.03	5.21	7.830E-01
550	3.623E-17	1.857E-16	3.636E-15	9.509E-14	88.70	23.187	1.73	376.51	2.35	9.700E-02
600	3.581E-17	3.146E-16	7.366E-15	2.041E-13	94.70	26.245	3.76	420.79	1.92	8.110E-02
650	3.354E-17	1.478E-16	1.454E-14	4.272E-13	97.60	28.680	7.77	455.28	1.32	1.930E-02
700	2.891E-17	1.501E-16	2.792E-14	8.299E-13	98.90	29.388	15.46	465.18	0.90	1.020E-02
730	1.719E-17	2.929E-15	3.623E-14	1.090E-12	99.50	29.917	25.45	472.55	1.23	1.540E-01
760	9.476E-18	2.694E-15	4.193E-14	1.241E-12	99.70	29.513	37.01	466.93	1.08	1.220E-01
790	1.723E-17	2.205E-15	4.607E-14	1.353E-12	99.50	29.232	49.70	463.01	1.20	9.100E-02
810	2.817E-17	9.834E-17	3.817E-14	1.123E-12	99.20	29.186	60.22	462.36	1.52	4.890E-03
830	2.623E-17	3.441E-15	3.341E-14	9.802E-13	99.20	29.089	69.43	461.01	1.13	1.960E-01
850	2.219E-17	1.799E-15	2.817E-14	8.279E-13	99.10	29.141	77.19	461.73	2.49	1.210E-01
870	9.356E-18	1.274E-15	2.208E-14	6.530E-13	99.50	29.425	83.28	465.70	1.63	1.100E-01
900	3.006E-17	3.245E-15	2.070E-14	6.062E-13	98.50	28.845	88.99	457.59	1.96	2.980E-01
940	2.689E-17	9.868E-17	1.936E-14	5.740E-13	98.50	29.212	94.32	462.73	2.29	9.680E-03
980	1.943E-17	6.284E-16	1.255E-14	3.736E-13	98.40	29.293	97.78	463.85	2.94	9.520E-02
1020	1.391E-17	2.904E-15	6.104E-15	1.871E-13	97.90	30.019	99.46	473.96	3.66	9.040E-01
1100	1.118E-17	1.310E-15	1.410E-15	4.672E-14	93.10	30.886	99.85	485.97	14.59	1.770E+00
1150	2.447E-17	2.942E-16	1.437E-16	1.014E-14	29.00	20.478	99.89	336.37	53.80	3.900E+00
1250	3.827E-17	1.311E-16	1.474E-16	1.391E-14	18.70	17.693	99.93	294.15	54.03	1.690E+00
1350	6.866E-17	3.892E-16	1.137E-16	2.287E-14	11.50	23.111	99.96	375.40	158.46	6.520E+00
1450	1.189E-16	2.344E-17	1.393E-16	3.879E-14	9.40	26.172	100.00	419.74	74.54	3.200E-01
<b>Total</b>	<b>6.988E-16</b>	<b>2.535E-14</b>	<b>3.628E-13</b>	<b>1.078E-11</b>						

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 1.0009E-2

Total fusion age (2 $\sigma$ ) = 461.42  $\pm$  3.52  
 Plateau age (2 $\sigma$ ) = 462.21  $\pm$  1.16  
 MSWD = 1.7, Probability = 0.097



Sample: DV06-59  
 [GPS: NO90279098]  
 Irradiation can: #ANU143  
 Irradiated: 16th November 2006  
 Analysed: 25th July 2007  
 Mineral: Muscovite  
 Amount analysed: 2.4 mg  
 Grainsize: 180-250  $\mu\text{m}$

Temp ( $^{\circ}\text{C}$ )	Ar <sup>36</sup> (mol)	Ar <sup>37</sup> (mol)	Ar <sup>39</sup> (mol)	Ar <sup>40</sup> (mol)	%Ar <sup>40</sup> *	Ar <sup>40</sup> */Ar <sup>39</sup> (K)	Cumulative Ar <sup>39</sup> (%)	Age (Ma)	Error (1 $\sigma$ )	Ca/K
550	7.417E-16	7.445E-16	3.140E-15	2.839E-13	22.80	20.612	0.41	339.93	12.36	4.510E-01
600	1.568E-16	6.270E-16	2.711E-15	1.205E-13	61.60	27.371	0.76	438.76	5.32	4.400E-01
650	7.886E-17	2.409E-16	5.023E-15	1.720E-13	86.40	29.583	1.41	469.97	2.75	9.110E-02
700	5.396E-17	5.189E-16	9.233E-15	2.929E-13	94.50	29.974	2.60	475.42	1.59	1.070E-01
730	3.683E-17	1.785E-16	1.019E-14	3.149E-13	96.50	29.800	3.92	473.01	1.36	3.330E-02
760	3.763E-17	1.898E-17	1.348E-14	4.102E-13	97.20	29.566	5.67	469.74	1.19	2.670E-03
790	5.432E-17	4.378E-15	2.207E-14	6.558E-13	97.50	28.990	8.53	461.66	2.91	3.770E-01
810	5.002E-17	2.620E-15	2.783E-14	8.198E-13	98.10	28.908	12.13	460.51	2.00	1.790E-01
830	4.980E-17	1.387E-15	4.212E-14	1.236E-12	98.70	28.969	17.59	461.37	1.77	6.260E-02
850	4.822E-17	1.122E-15	6.149E-14	1.800E-12	99.10	29.023	25.56	462.12	1.26	3.470E-02
870	5.085E-17	2.292E-15	6.776E-14	1.960E-12	99.20	28.680	34.33	457.30	1.55	6.430E-02
900	4.308E-17	1.941E-15	6.674E-14	1.938E-12	99.30	28.833	42.98	459.45	1.39	5.530E-02
940	5.813E-17	1.331E-15	6.375E-14	1.861E-12	99.00	28.893	51.24	460.29	1.17	3.970E-02
990	6.009E-17	1.664E-15	6.206E-14	1.807E-12	98.90	28.807	59.27	459.09	2.07	5.090E-02
1020	4.690E-17	2.079E-15	5.562E-14	1.600E-12	99.10	28.496	66.48	454.70	2.19	7.100E-02
1050	4.834E-17	9.479E-17	7.050E-14	2.049E-12	99.20	28.833	75.61	459.45	1.31	2.550E-03
1090	4.945E-17	1.237E-15	1.073E-13	3.130E-12	99.40	29.010	89.51	461.94	1.93	2.190E-02
1150	2.542E-17	1.858E-15	4.661E-14	1.366E-12	99.40	29.118	95.54	463.46	1.39	7.570E-02
1250	1.378E-16	3.637E-15	2.117E-14	6.576E-13	93.80	29.132	98.29	463.65	2.04	3.260E-01
1350	2.971E-16	2.570E-15	1.190E-14	4.384E-13	80.00	29.468	99.83	468.35	3.45	4.100E-01
1450	6.181E-16	1.333E-15	1.332E-15	2.200E-13	17.00	28.176	100.00	450.19	65.53	1.900E+00
Total	2.743E-15	3.187E-14	7.720E-13	2.313E-11						

Lambda K<sup>40</sup> = 5.5430E-10  
 J factor = 1.0059E-2

Total fusion age (2 $\sigma$ ) = 460.28  $\pm$  3.74  
 Plateau age (2 $\sigma$ ) = 459.95  $\pm$  0.96  
 MSWD = 1.4, Probability = 0.16

