Table DR1a. Analytical condition and results of samples analyzed for Ar-Ar dating (see Table 1 in main text for samples location)

I. Overview

13 samples were submitted for mineral separation and Ar-Ar dating.

SJL1 19-8- 10	Actlabs ID	YK-348
PSL 16 16-9-10	Actlabs ID	YK-350
CSV 1 14-10-10	Actlabs ID	YK-352
CHO 1 12-10-10	Actlabs ID	YK-353
CGO 1 12-10-10	Actlabs ID	YK-354
CGO 2 6-9-10	Actlabs ID	YK-355
CCD1 6-10-10	Actlabs ID	YK-356
CFO 1 18-9-10	Actlabs ID	YK-357
CSR 2 6-10-10	Actlabs ID	YK-358

Next separates were obtained for these samples:

YK-348 k-spar separate, biotite separate, hornblende separate with approximately 10 % biotite (SEM)
YK-350 k-spar separate (30%) + pyrophyllite (70%) separate (SEM).
YK-352 k-spar separate, hornblende separate (SEM)
YK-353 k-spar separate containing ±10 % plagioclase, hornblende separate which contains ±30% pyroxene and trace biotite (SEM)
YK-354 plagioclase separate, hornblende separate which contains about 10 % plagioclase + qtz. (SEM)
YK-355 k-spar separate (80%) + plagioclase (20%), hornblende separate (SEM)
YK-356 plagioclase separate, hornblende separate +pyroxene (SEM)
YK-357 k-spar separate, hornblende separate (SEM)
YK-358 k-spar separate (60%) + plagioclase (40%), hornblende separate (SEM)

Summary Table of $^{40}Ar/^{39}Ar$ results

Sample	IIA (Ma) ±1σ	TFA ±1 σ	WMPA (Ma)±1σ	Ca/K	Comments
YK-348 K-feldspar	1.30±0.11	1.45±0.15	**1.43±0.09**	0.01-1.28	Four steps plateau
YK-350 K-feldspar	7.53±0.19	12.09±1.24	**8.75±0.87**	0.46-2.67	Three steps plateau
YK-352 K-feldspar	1.39±0.08	1.51±0.14	**1.37±0.07**	0.27-0.53	Three steps plateau
YK-353 K-feldspar	1.79±0.25	1.67±0.10	**1.25±0.07**	0.024-0.043	Three steps plateau
YK-354 plagioclase	7.53±0.19	11.26±0.52	**7.96±0.53**	5.24-28.05	Three steps plateau

YK-355 K-feldspar	1.06±0.08	0.94±0.06	**0.80±0.04**	0.46-1.20	Two steps intermediate plateau
YK-356 plagioclase	1.04±0.07	0.93±0.09	**0.98±0.05**	0.79-1.93	Two steps intermediate plateau
YK-357 K-feldspar	1.41±0.06	1.48±0.05	**1.31±0.01**	0.16-0.83	Four steps plateau
YK-358 K-feldspar	1.32±0.28	1.45±0.15	**1.41±0.18**	0.36-0.94	Four steps plateau

Explanation:

±1 σ = Estimated uncertainty (1 sigma); **IIA** = Inverse Isochrone age
TFA = Total fusion age; **WMPA** = Weighted mean plateau age;
Ca/K = Apparent Ca / K ratios; **WMIPA** = Weighted mean Intermediate Plateau age

II. Flux Monitoring and Isotope measurements

The samples wrapped in Al foil was loaded in evacuated and sealed quartz vial with K and Ca salts and packets of LP-6 biotite interspersed with the samples to be used as a flux monitor. The sample was irradiated in the nuclear reactor for 48 hours. The flux monitors were placed between every two samples, thereby allowing precise determination of the flux gradients within the tube. After the flux monitors were run, J values were then calculated for each sample, using the measured flux gradient. LP-6 biotite has an assumed age of 128.1 Ma. The neutron gradient deed not exceeded 0.5% on sample size. The Ar isotope composition was measured in a Micromass 5400 static mass spectrometer. 1200ºC blank of ^{40}Ar deed not exceed n*10^{-10} cc STP

III Results

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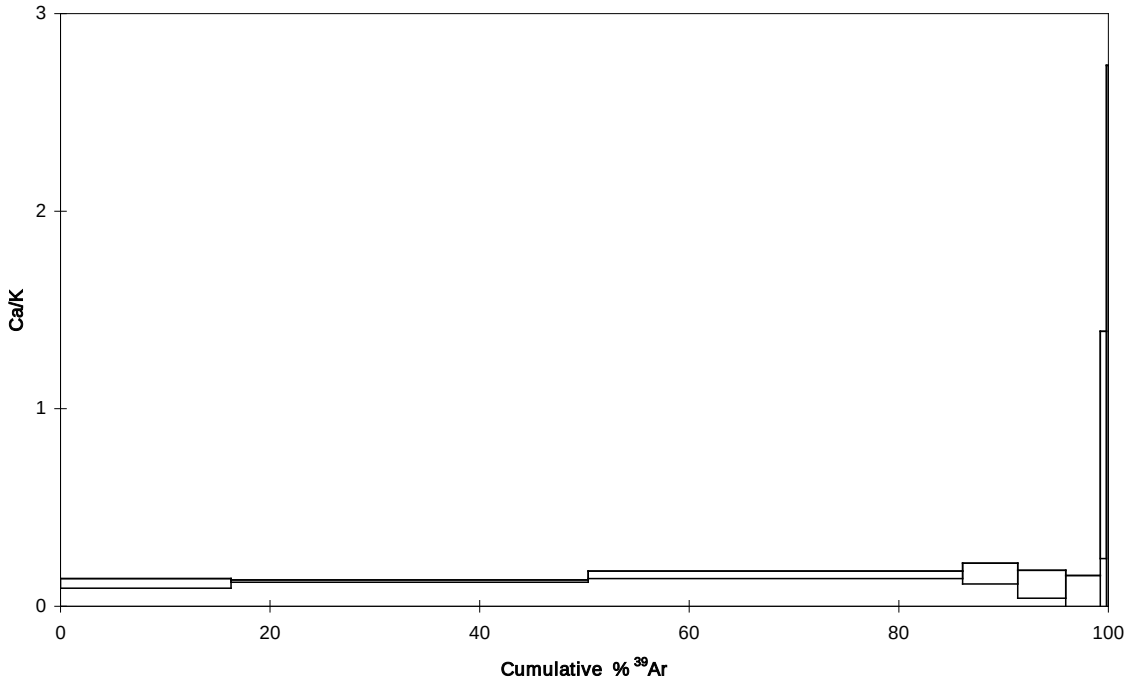
<u>YK-348 k-feldspar</u>

The sample yielded age spectrum with four steps plateau characterized by 79.7 % of ^{39}Ar, Age value of 1.43 ± 0.09 Ma.

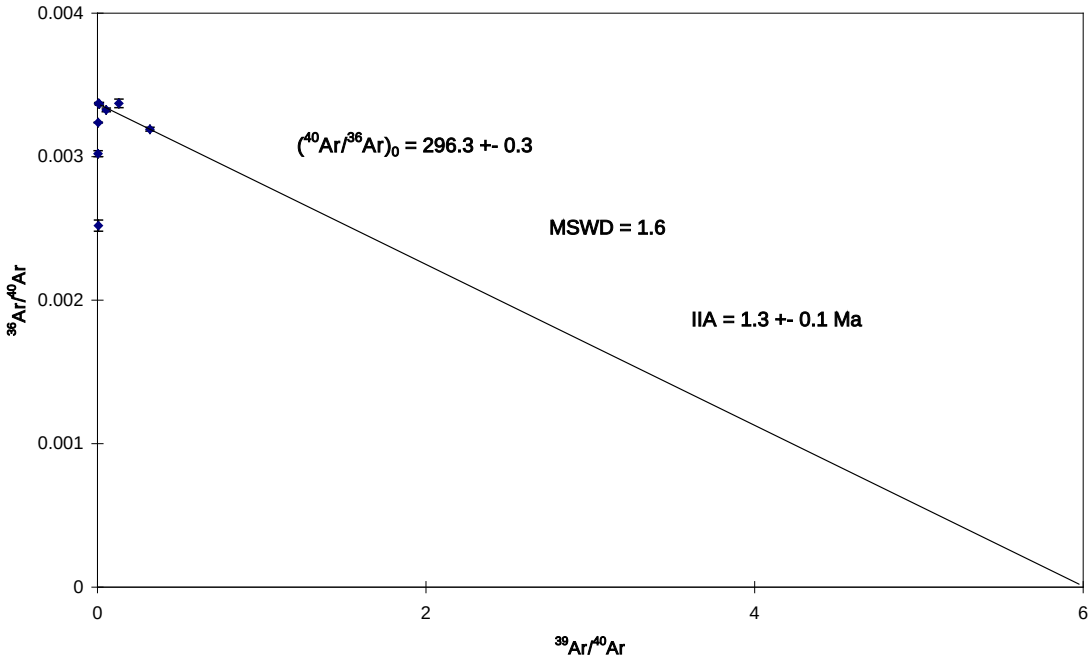
On the Inverse Isochrone Plot points form linear trend, characterized by age value of 1.30 ± 0.11 Ma, MSWD = 1.6

Age Spectrum

Ca/K Spectrum



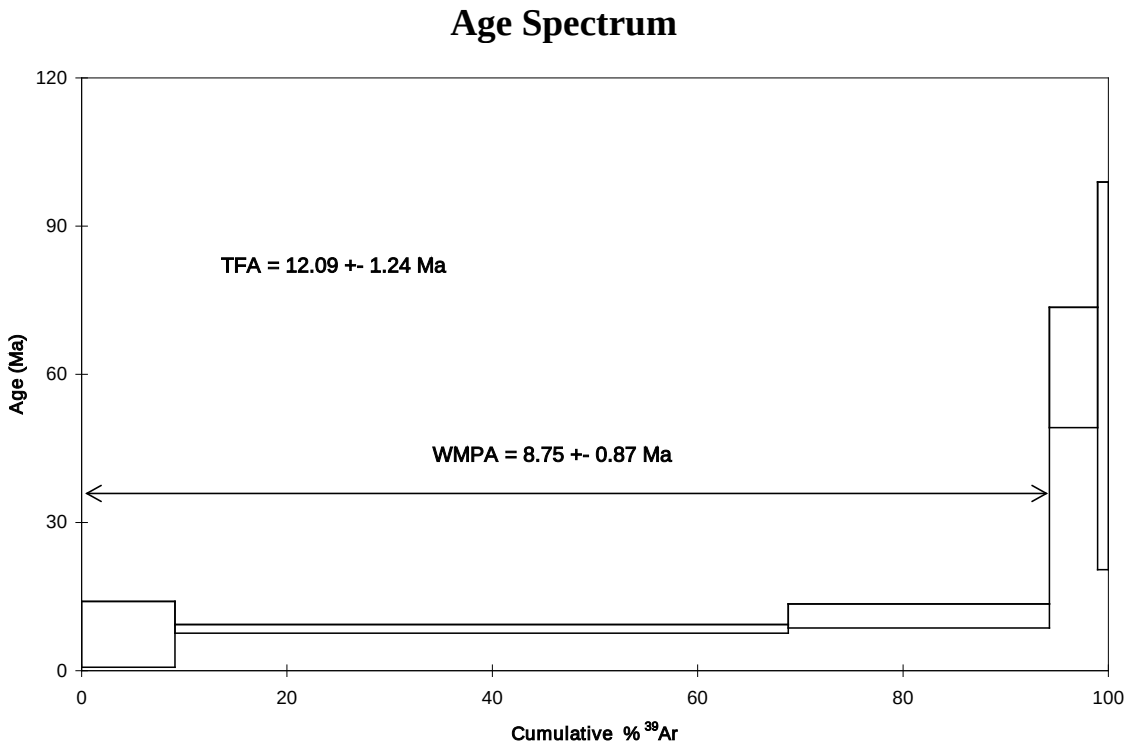
Isochrone diagram



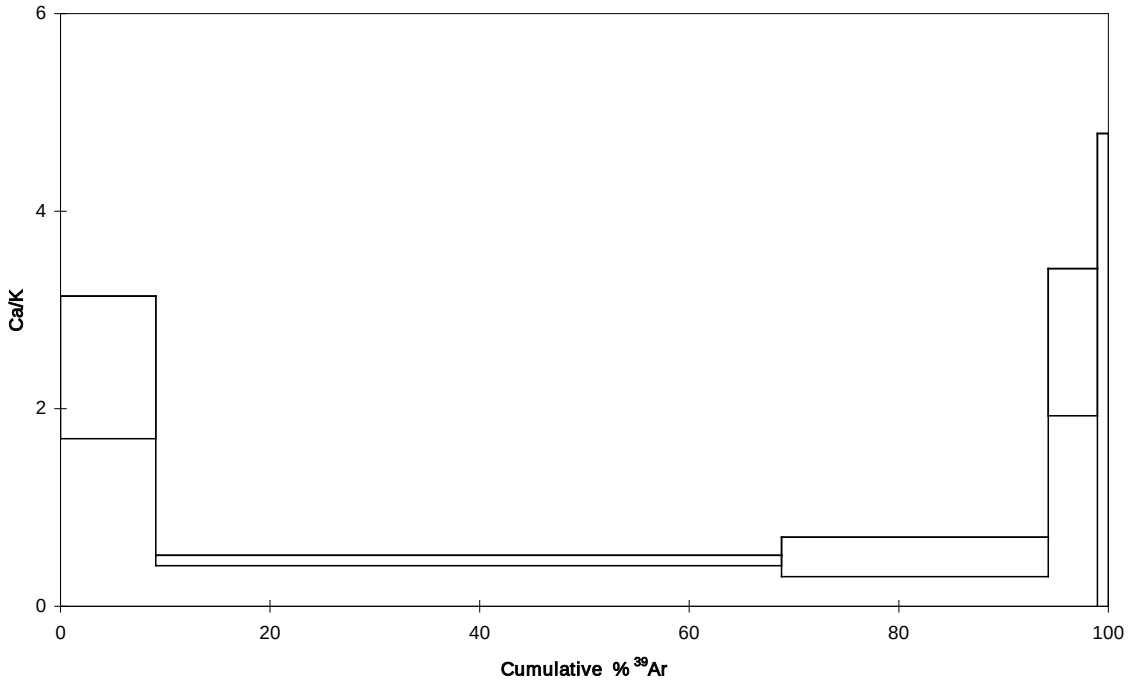
YK-350 k-feldspar

The sample yielded age spectrum with three steps plateau characterized by 94.3 % of ^{39}Ar, Age value of 8.75 ± 0.87 Ma.

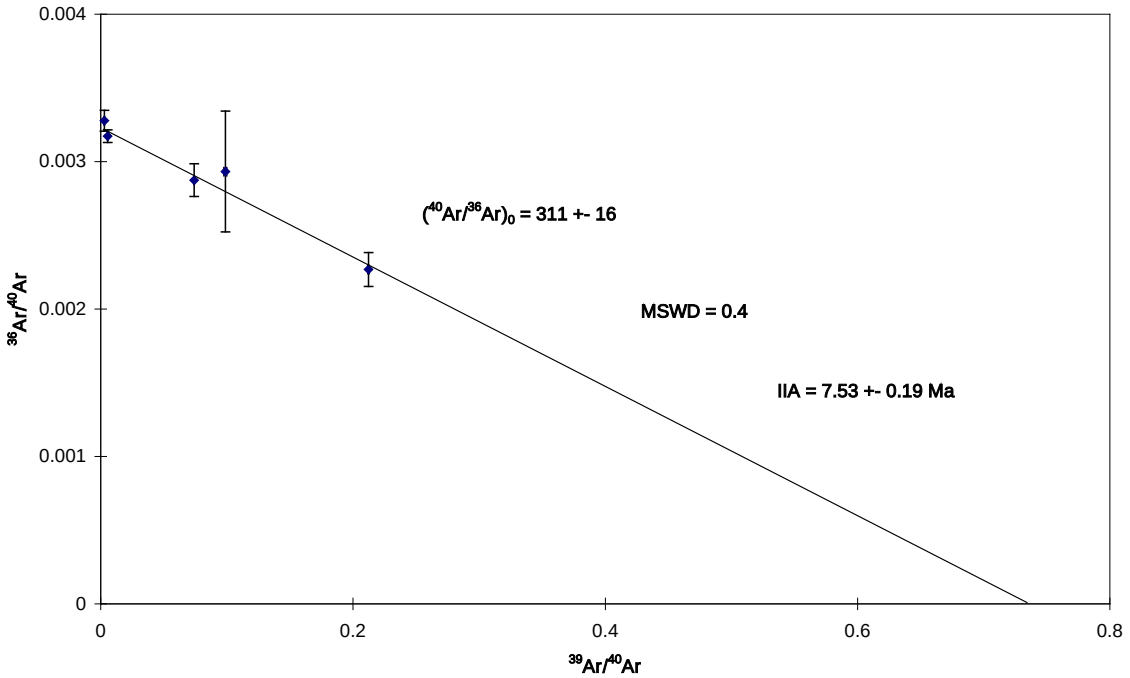
On the Inverse Isochrone Plot plateau points form linear trend, characterized by age value of 7.53 ± 0.19 Ma, MSWD = 0.4



Ca/K Spectrum



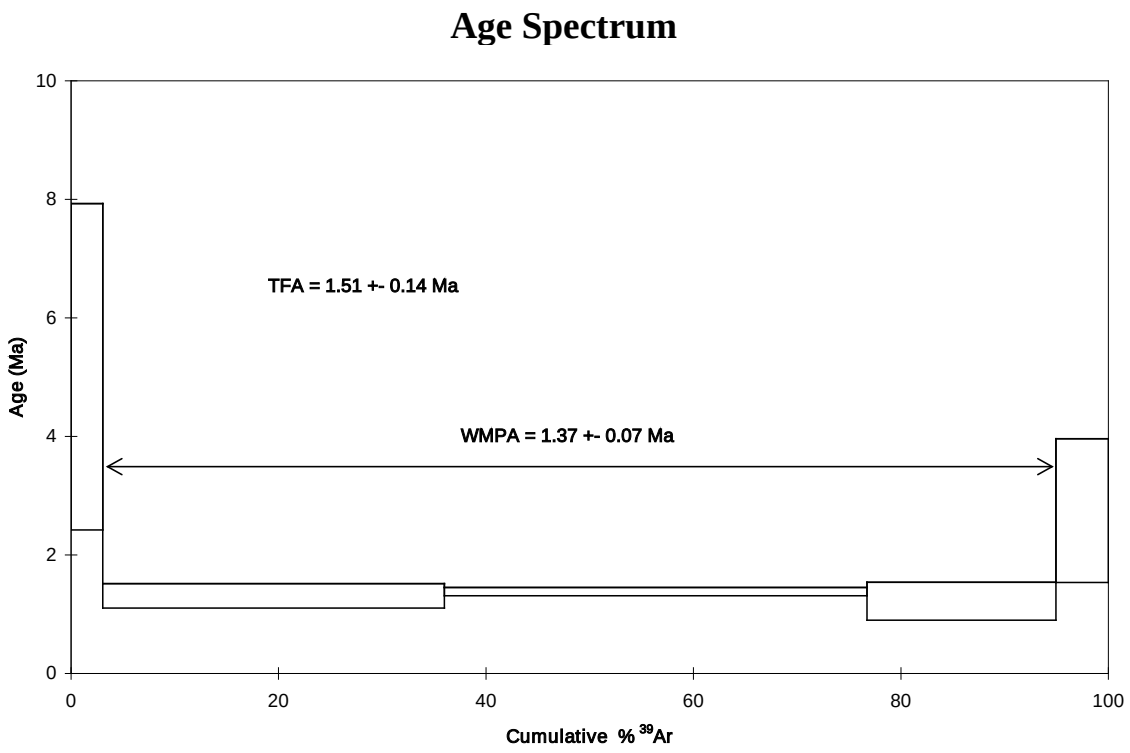
Isochrone diagram



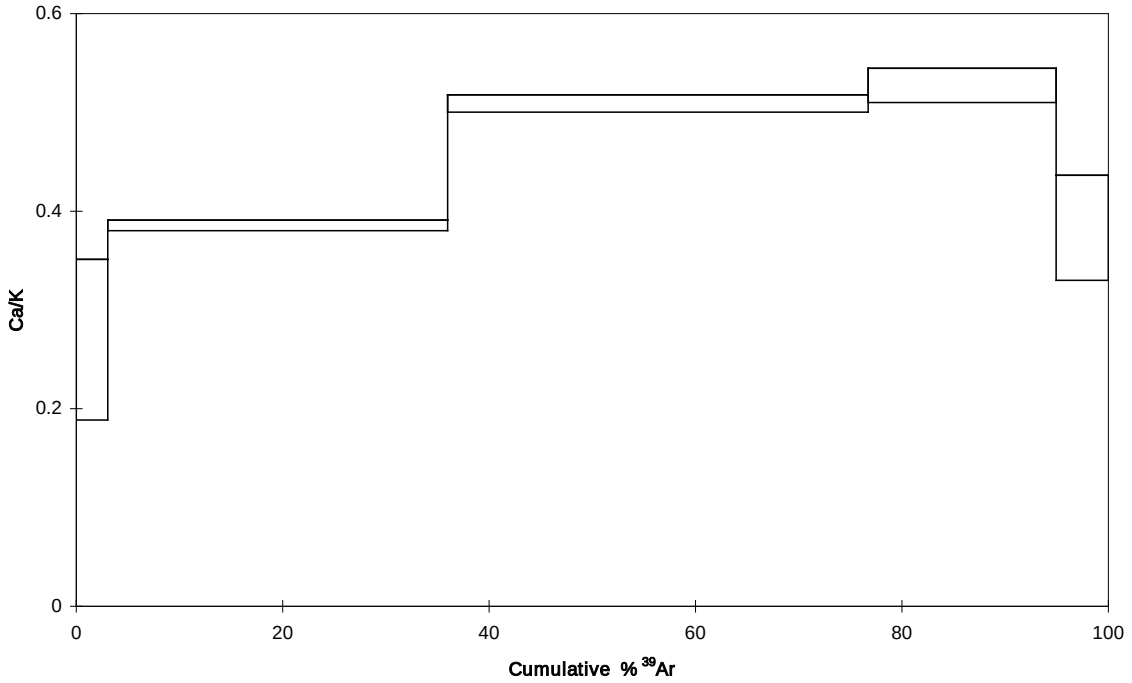
YK-352 k-feldspar

The sample yielded age spectrum with three steps plateau characterized by 91.9 % of ^{39}Ar, Age value of 1.37 ± 0.07 Ma.

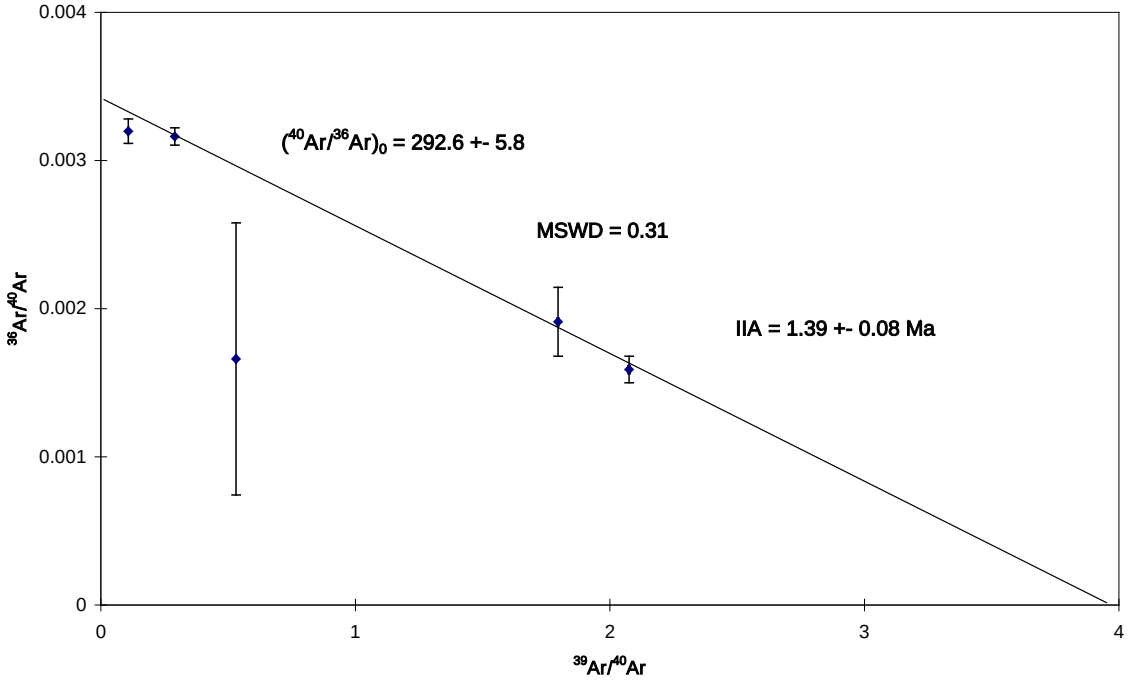
On the Inverse Isochrone Plot plateau points form linear trend, characterized by age value of 1.39 ± 0.08 Ma, MSWD = 0.31



Ca/K Spectrum



Isochrone diagram

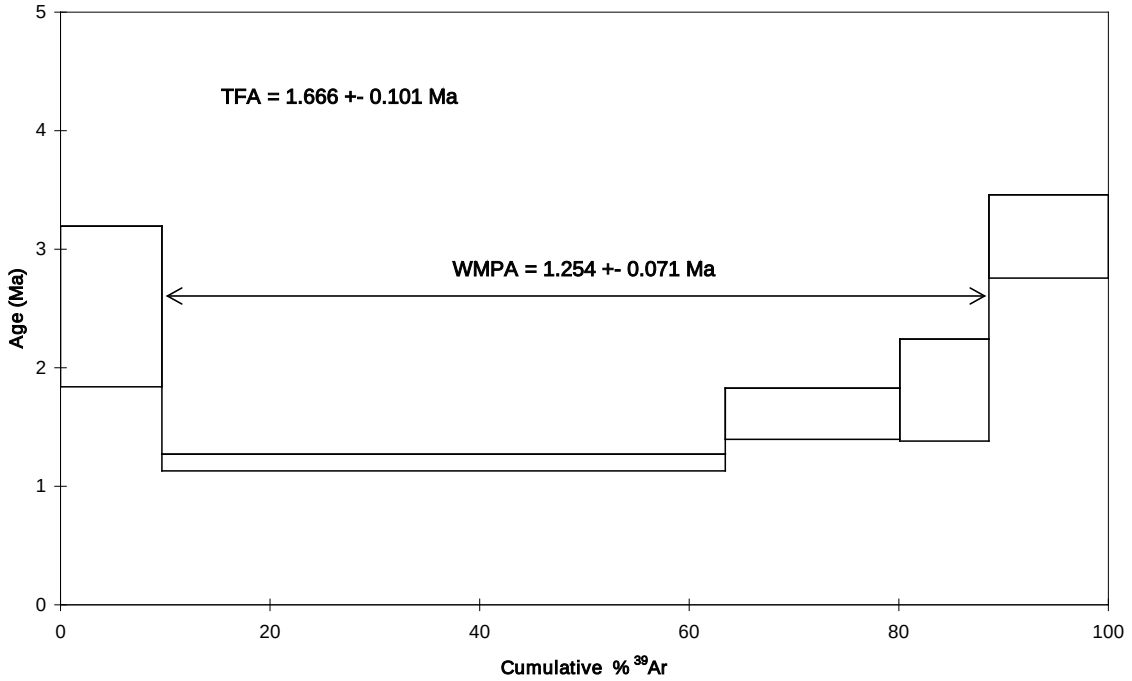


YK-353 k-feldspar

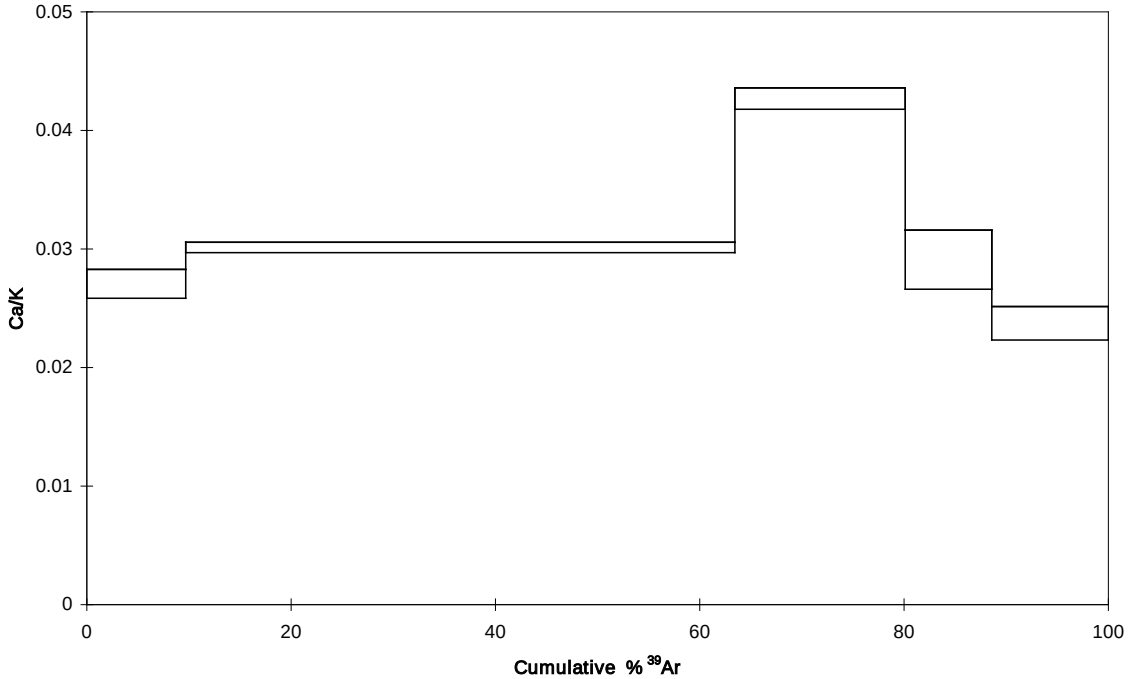
The sample yielded age spectrum with three steps plateau characterized by 78.9 % of ^{39}Ar, Age value of 1.25 ± 0.07 Ma.

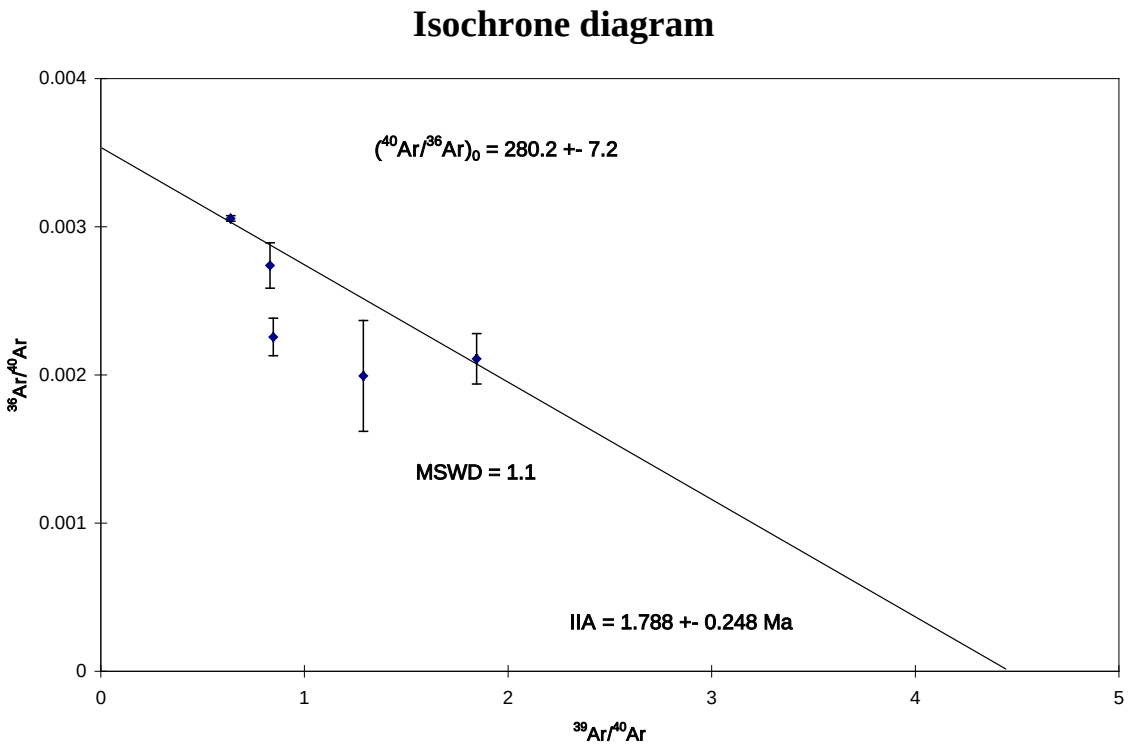
On the Inverse Isochrone Plot plateau points form linear trend, characterized by age value of 1.79 ± 0.25 Ma, MSWD = 1.

Age Spectrum



Ca/K Spectrum



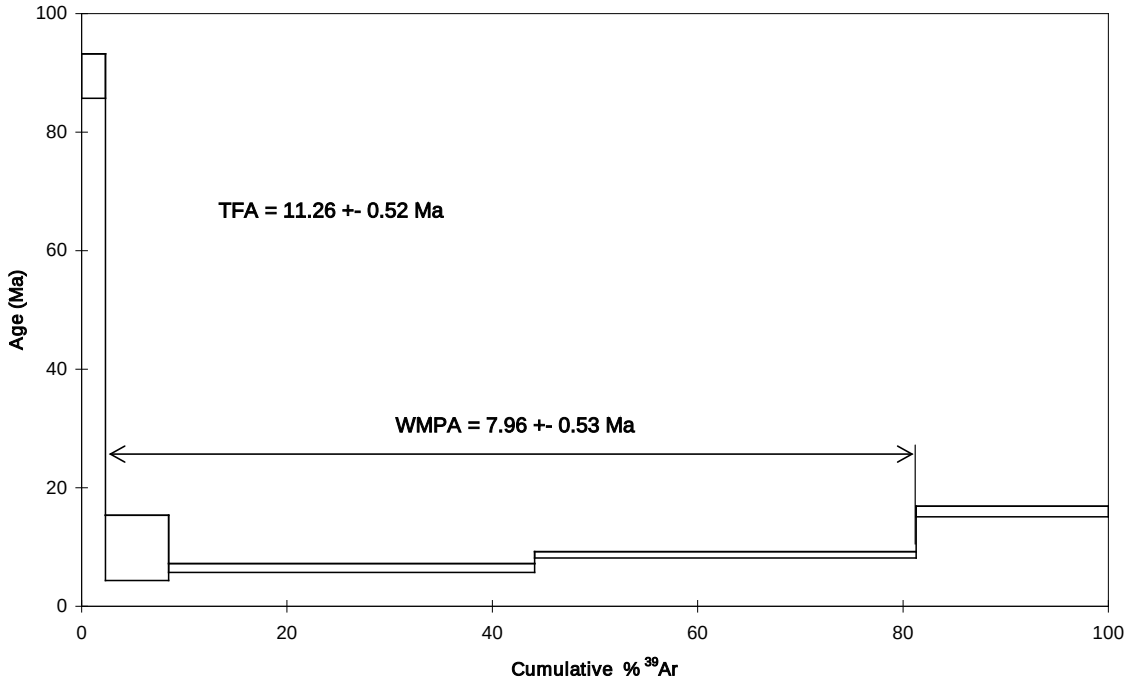


<u>YK-354 plagioclase</u>

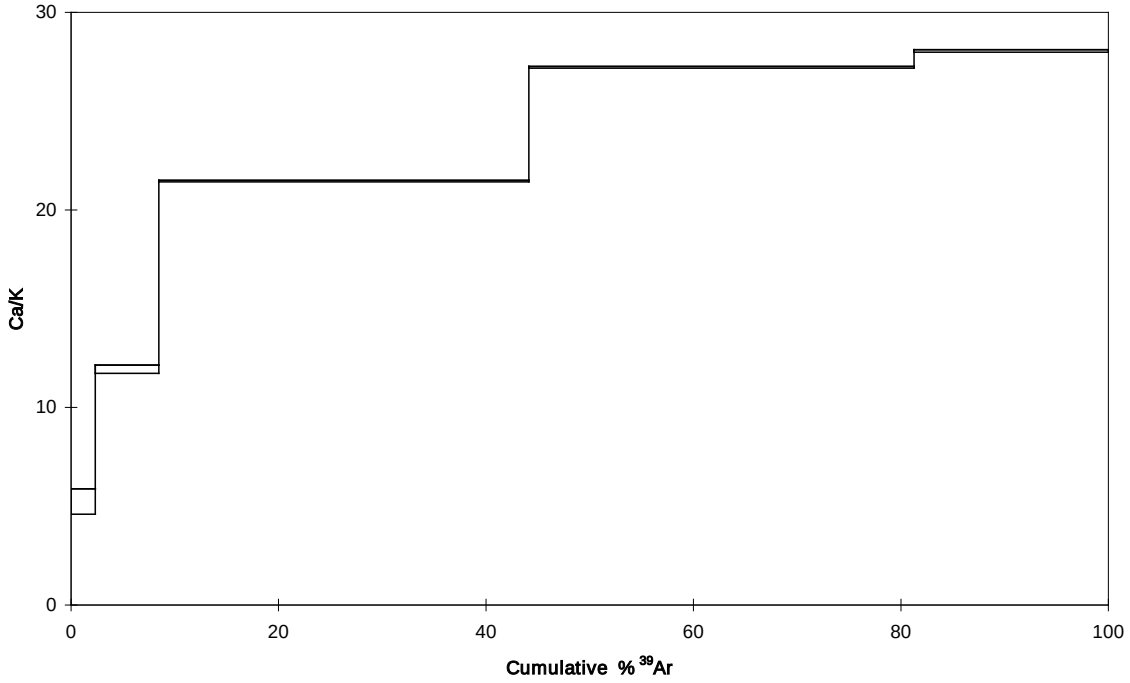
The sample yielded age spectrum with three steps plateau characterized by 78.9 % of ^{39}Ar, Age value of 7.96 ± 0.53 Ma.

On the Inverse Isochrone Plot plateau points form linear trend, characterized by age value of 7.53 ± 0.19 Ma, MSWD = 2.4

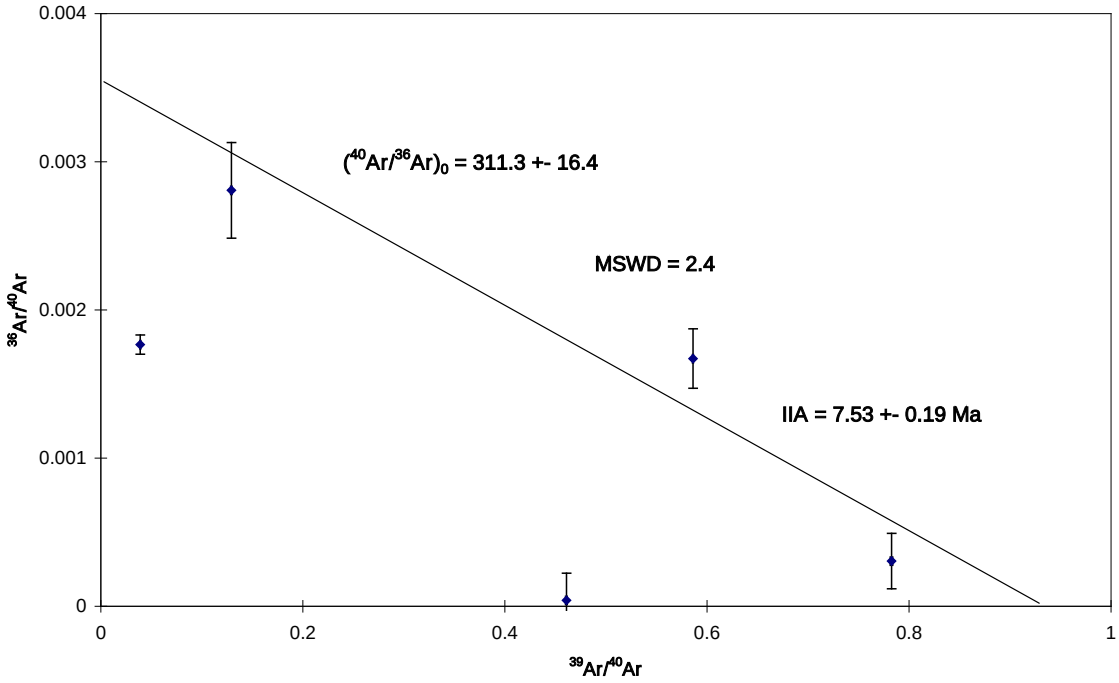
Age Spectrum



Ca/K Spectrum



Isochrone diagram



<u>YK-355 K-feldspar</u>

The sample yielded age spectrum with two steps intermediate plateau characterized by 53.9 % of ^{39}Ar, Age value of 0.80 ± 0.04 Ma.

On the Inverse Isochrone Plot points form linear trend, characterized by age value of 1.060± 0.08 Ma, MSWD = 0.3

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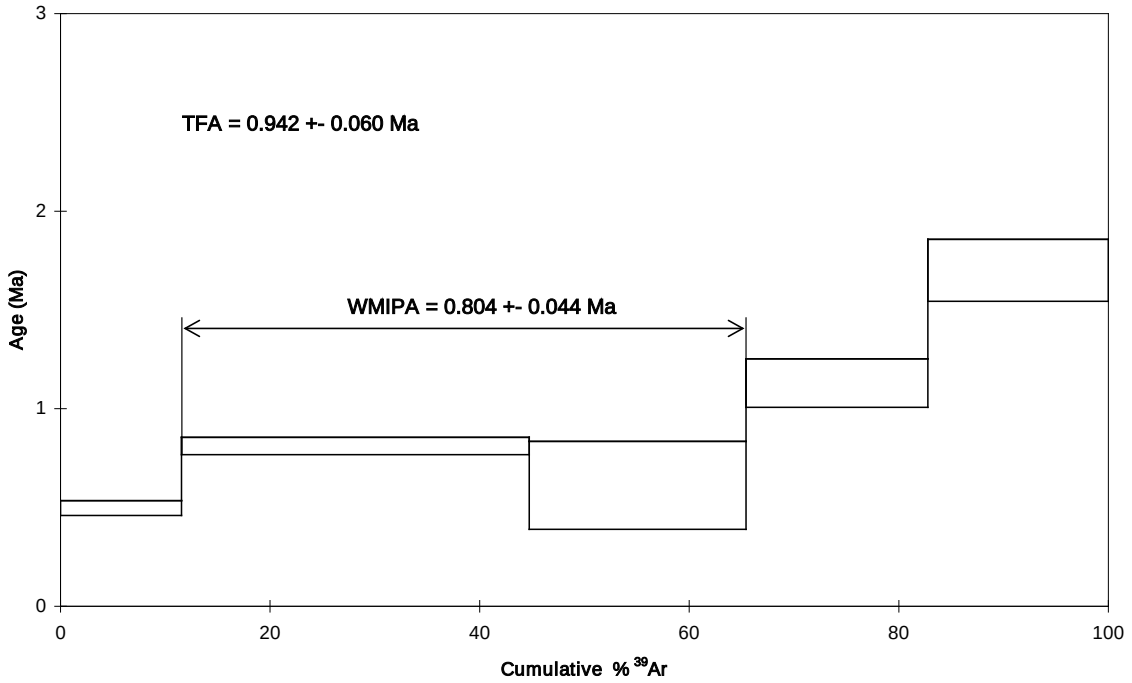
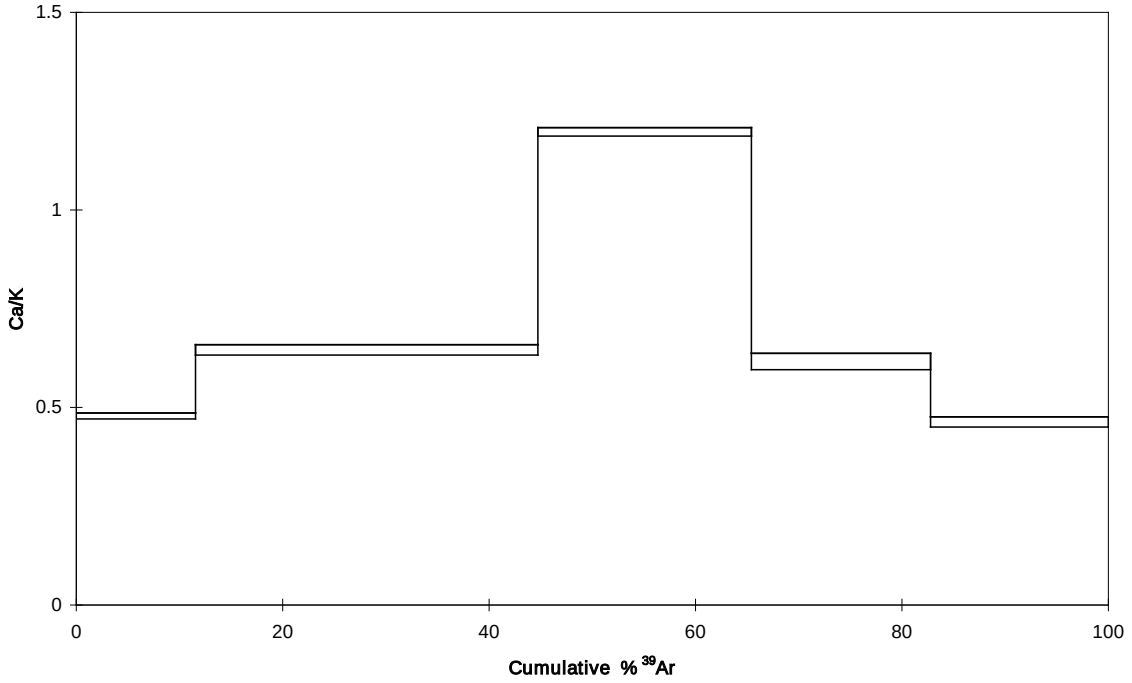
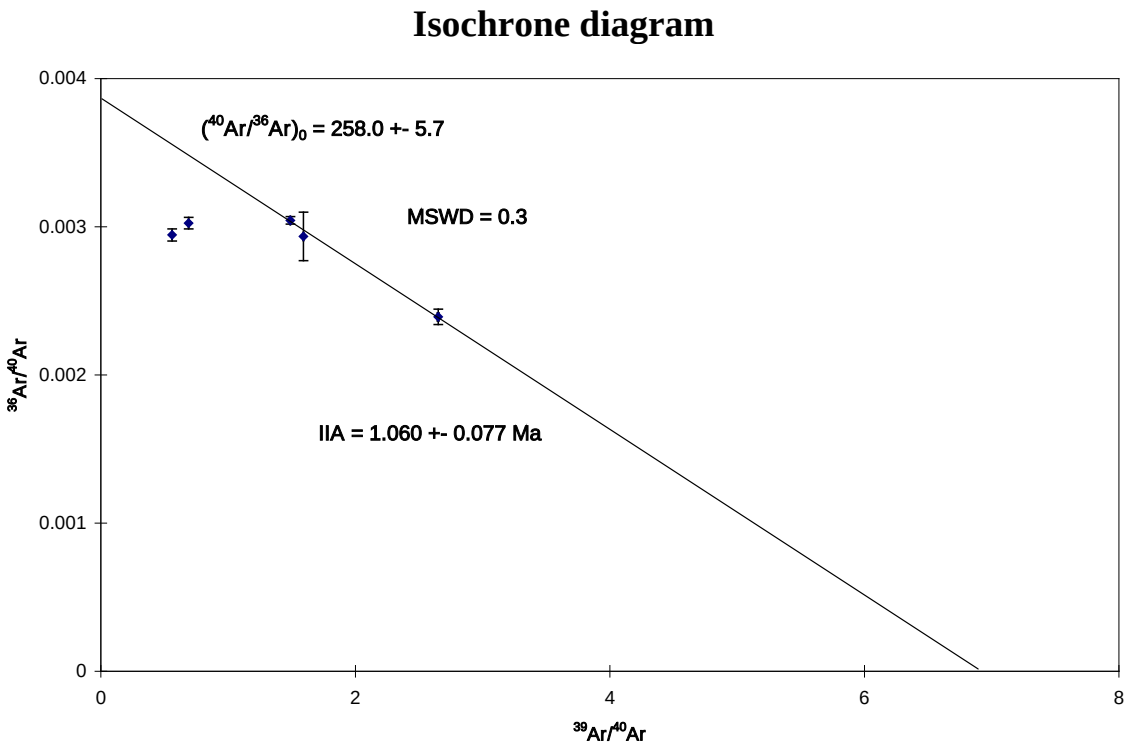
Age Spectrum



Ca/K Spectrum



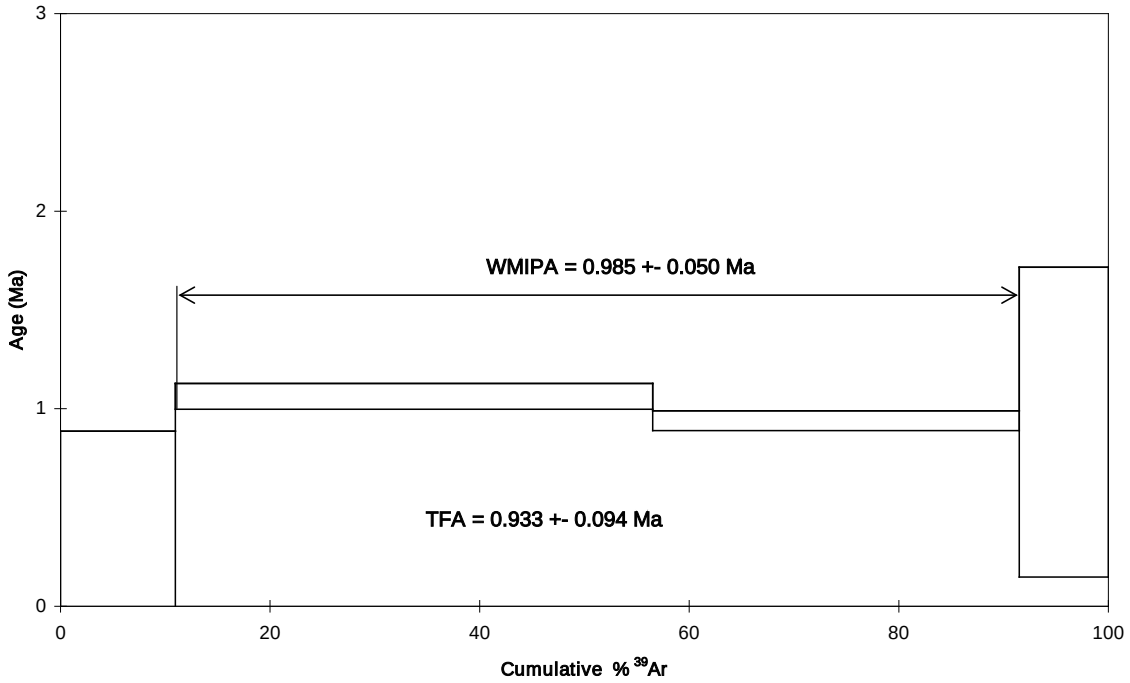


<u>YK-356 plagioclase</u>

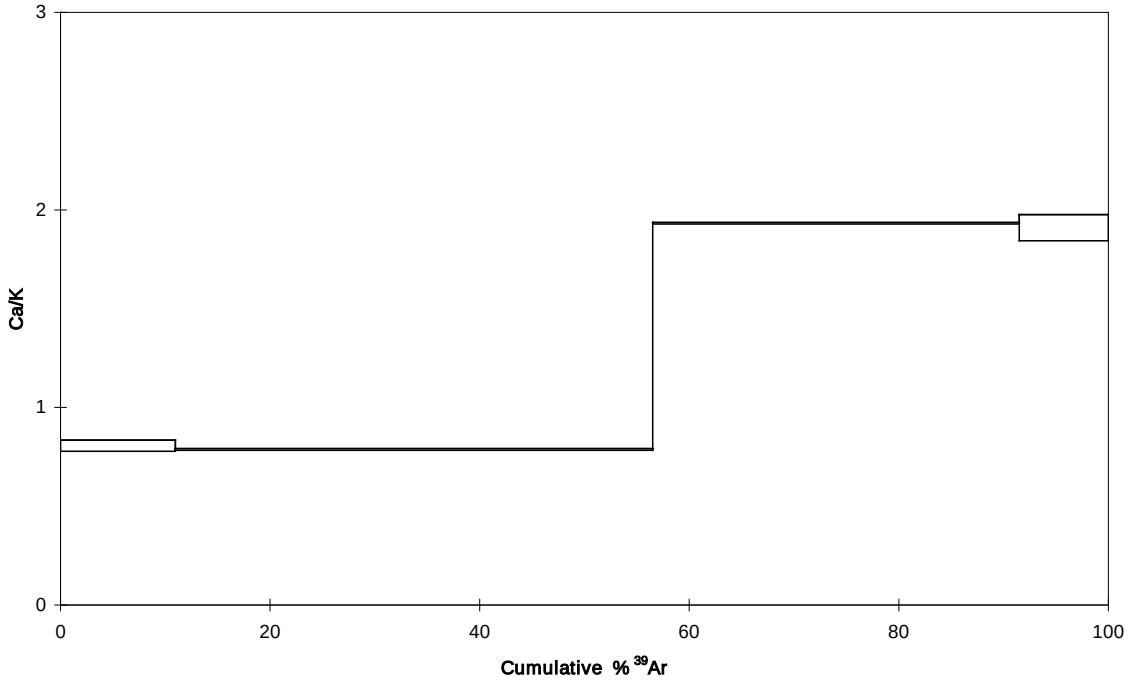
The sample yielded age spectrum with two steps Intermediate Plateau characterized by 80.5 % of ^{39}Ar, Age value of 0.98 ± 0.05 Ma.

On the Inverse Isochrone Plot all points form linear trend, characterized by age value of 1.04 ± 0.07 Ma, MSWD = 1.2

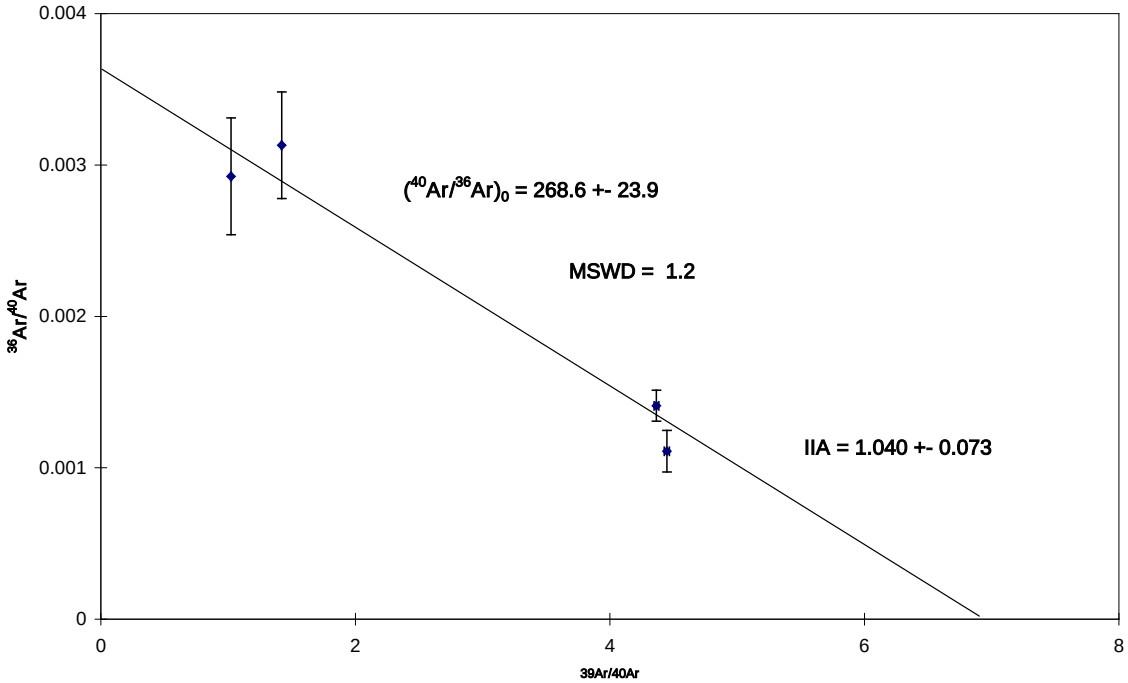
Age Spectrum



Ca/K Spectrum



Isochrone diagram

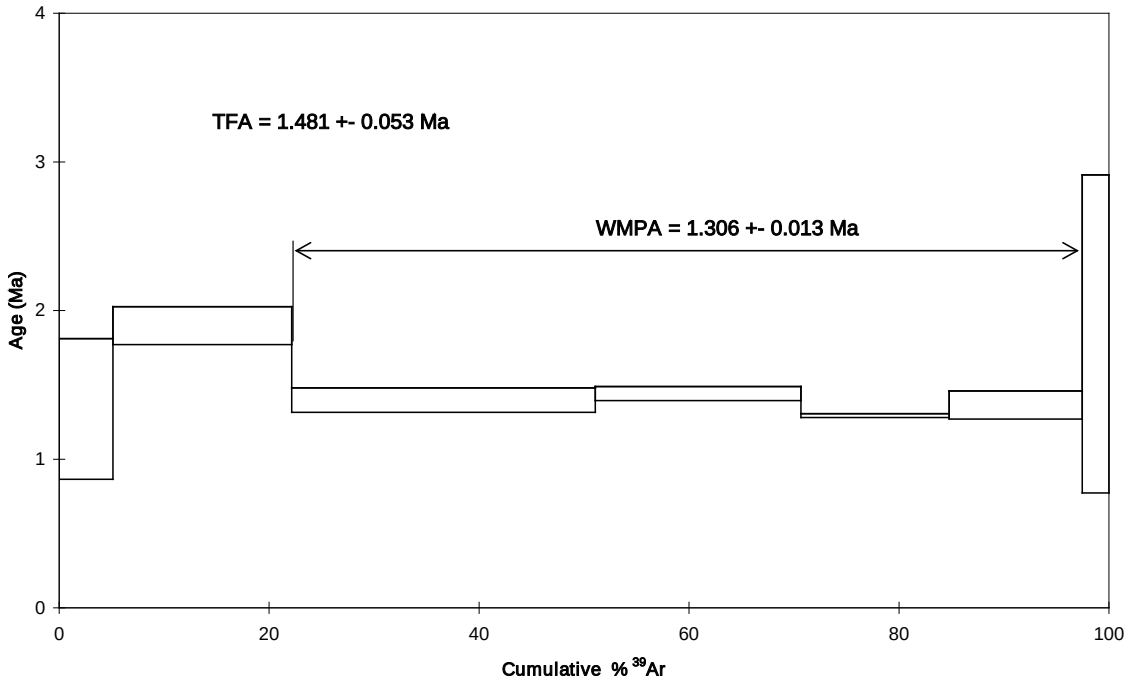


<u>YK-357 feldspar</u>

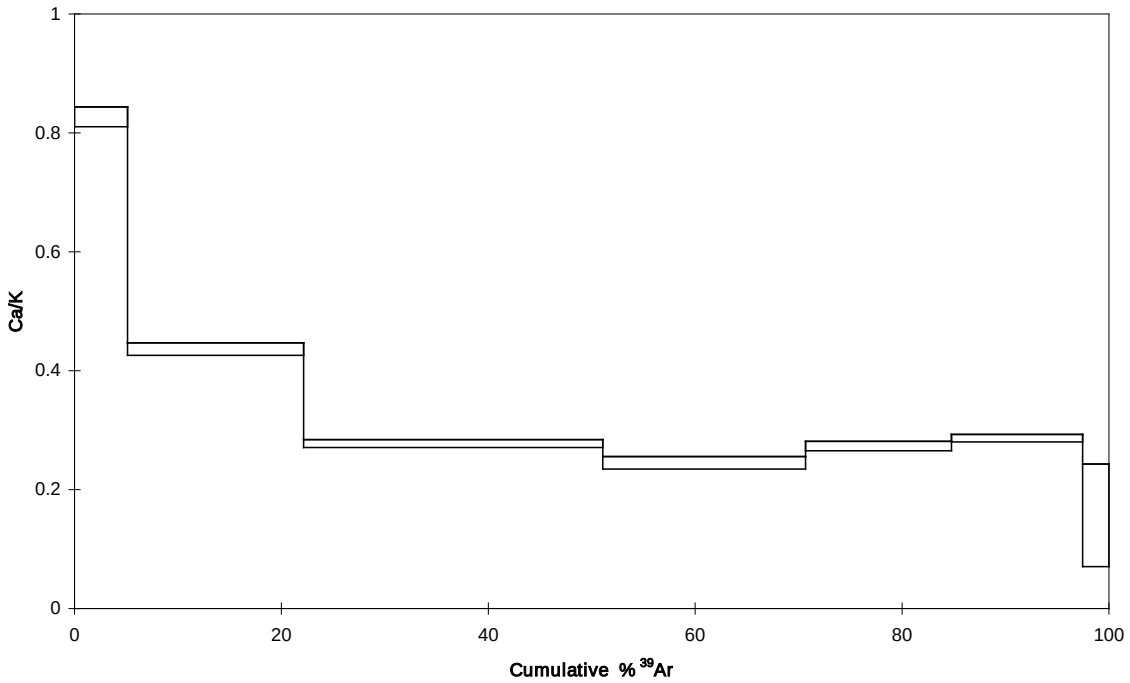
The sample yielded age spectrum with four steps plateau characterized by 75.3 % of ^{39}Ar, Age value of 1.31± 0.01 Ma.

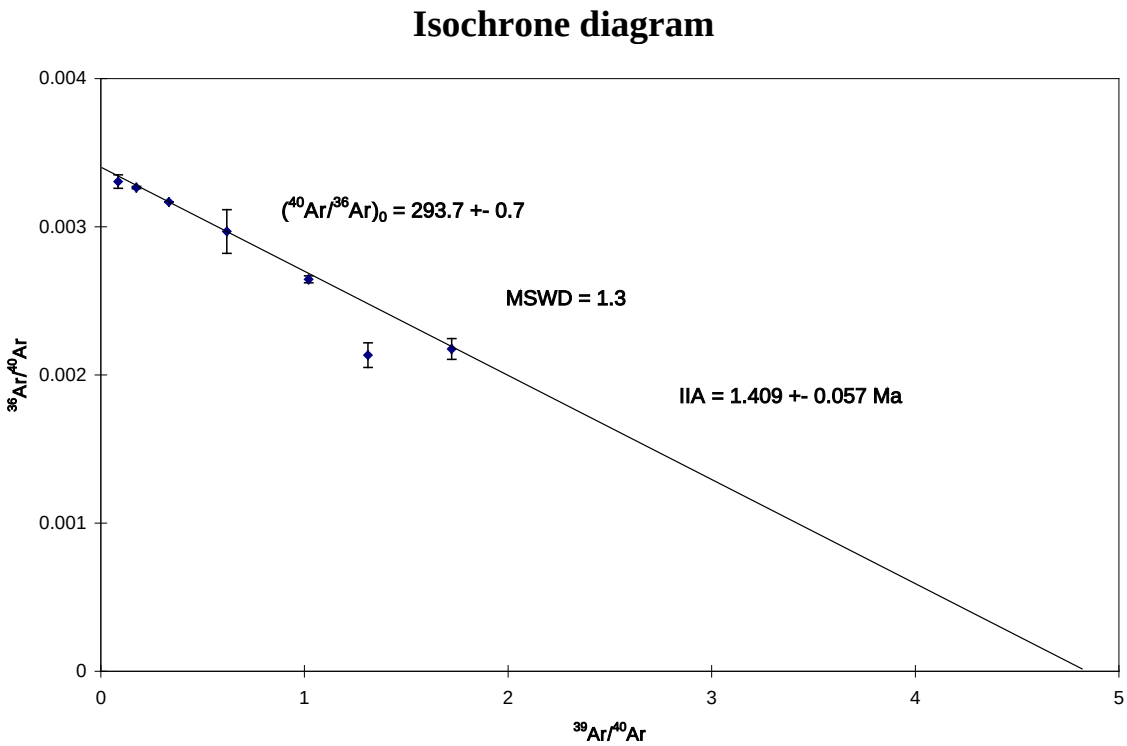
On the Inverse Isochrone point form linear trend, characterized by age value of 1.41 ± 0.06 Ma, MSWD = 1.3

Age Spectrum



Ca/K Spectrum



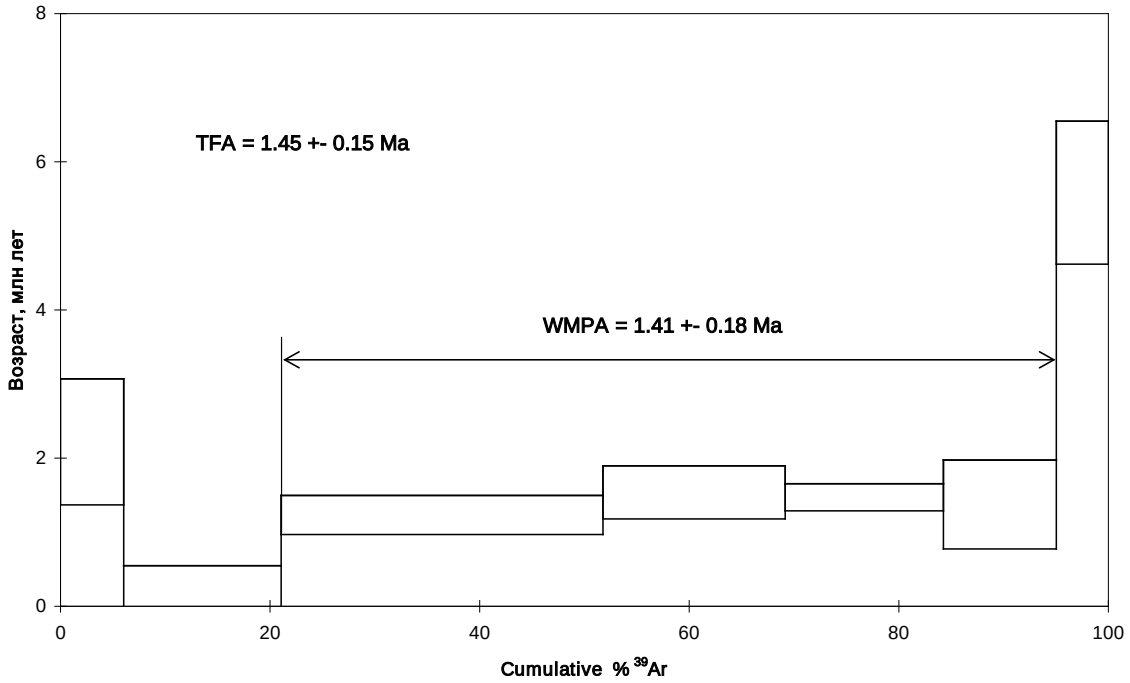


<u>YK-358 k-feldspar</u>

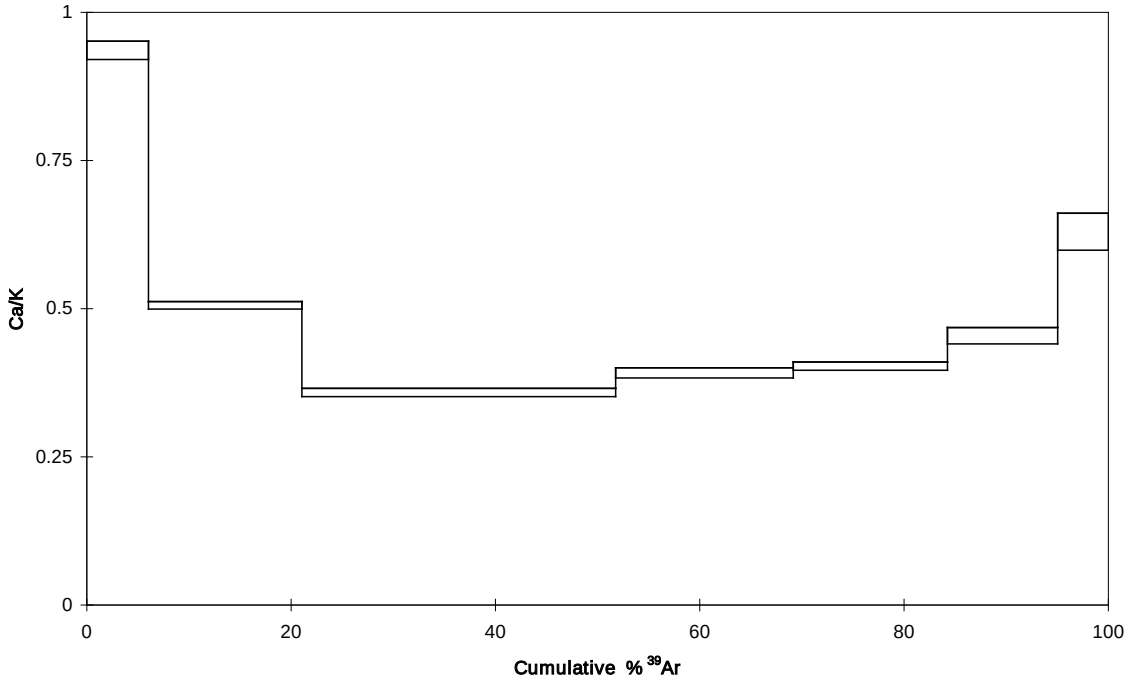
The sample yielded age spectrum with four steps plateau characterized by 74.0 % of ^{39}Ar, Age value of 1.41 ± 0.18 Ma.

On the Inverse Isochrone Plot plateau points form linear trend, characterized by age value of 1.32 ± 0.28 Ma, MSWD = 0.55

Age Spectrum



Ca/K Spectrum



Isochrone diagram

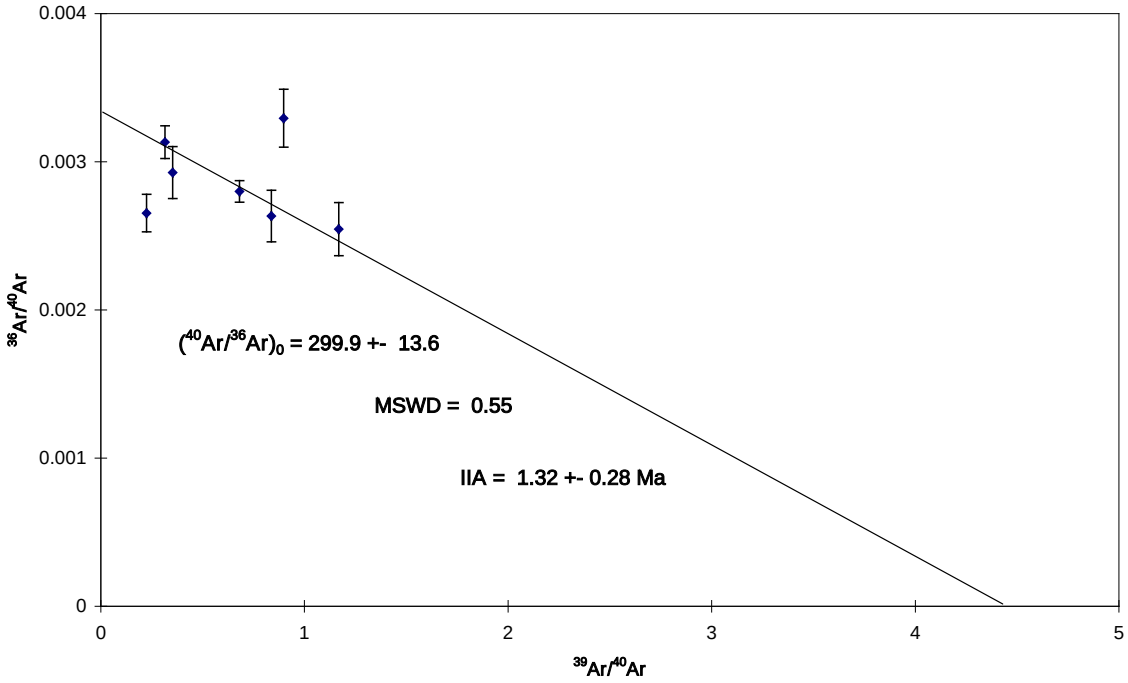


Table DR1b. Results of samples analyzed in this study for Ar-Ar dating (see Table 1 in main text for samples location)

Tabulated data

Sample: YK-348 k-feldspar J=0.004281 ± 0.000048

T^0C	^{40}Ar(ccSTP)	$^{40}Ar/^{39}Ar$	±1σ	$^{38}Ar/^{39}Ar$	±1σ	$^{37}Ar/^{39}Ar$	±1σ	$^{36}Ar/^{39}Ar$	±1σ	Ca/K	$\sum^{39}Ar$ (%)	Age (Ma) ±1σ	±1σ
450	$21.9*e^{-9}$	7.7173	0.0039	0.02301	0.00039	0.0322	0.0068	0.02602	0.00023	0.12	16.3	0.22	0.53
550	$18.6*e^{-9}$	3.1290	0.0015	0.01778	0.00012	0.0355	0.0016	0.00998	0.00004	0.13	50.4	1.38	0.10
650	$116.7*e^{-9}$	18.7308	0.0127	0.02757	0.00060	0.0443	0.0052	0.06230	0.00024	0.16	86.1	2.48	0.55
750	$84.6*e^{-9}$	92.2273	0.1903	0.07631	0.00100	0.0459	0.0146	0.31062	0.00113	0.17	91.4	3.40	2.13
825	$120.1*e^{-9}$	150.3684	0.1506	0.10991	0.00182	0.0310	0.0197	0.50701	0.00080	0.11	95.9	4.21	1.43
900	$142.2*e^{-9}$	247.8335	1.3960	0.17401	0.00338	0.0035	0.0399	0.80241	0.00456	0.01	99.2	80.95	1.74
1000	$33.2*e^{-9}$	323.3075	2.9864	0.21394	0.01968	0.2269	0.1597	0.97667	0.01131	0.82	99.8	249.88	13.99
1130	$6.1*e^{-9}$	189.6583	2.1682	0.19790	0.03701	0.3552	0.4055	0.47781	0.00913	1.28	100.0	340.13	14.70

Inverse Isochrone Age = 30.5 ± 1.0 Ma. (MSWD = 1.6; $^{40}Ar/^{36}Ar$ =447.5 ± 5.2).

Sample: YK-350 k-feldspar J=0.003029 ± 0.000024

T^0C	^{40}Ar(ccSTP)	$^{40}Ar/^{39}Ar$	±1σ	$^{38}Ar/^{39}Ar$	±1σ	$^{37}Ar/^{39}Ar$	±1σ	$^{36}Ar/^{39}Ar$	±1σ	Ca/K	$\sum^{39}Ar$ (%)	Age (Ma) ±1σ	±1σ
450	$2.3*e^{-9}$	10.123	0.113	0.01157	0.00923	0.672	0.200	0.02969	0.00416	2.42	9.1	7.4	6.7
650	$6.9*e^{-9}$	4.711	0.012	0.01628	0.00064	0.129	0.015	0.01069	0.00054	0.46	68.8	8.5	0.9
850	$8.4*e^{-9}$	13.517	0.043	0.02732	0.00270	0.139	0.056	0.03886	0.00151	0.50	94.3	11.1	2.4
1000	$21.0*e^{-9}$	183.021	1.656	0.15830	0.00439	0.743	0.207	0.58069	0.00940	2.67	98.9	61.4	12.2
1140	$9.1*e^{-9}$	352.905	27.657	0.08125	0.06093	0.389	0.941	1.15669	0.09401	1.40	100.0	59.7	39.2

Sample: YK-352 k- feldspar J=0.002996 ± 0.000024

T^0C	^{40}Ar(ccSTP)	$^{40}Ar/^{39}Ar$	±1σ	$^{38}Ar/^{39}Ar$	±1σ	$^{37}Ar/^{39}Ar$	±1σ	$^{36}Ar/^{39}Ar$	±1σ	Ca/K	$\sum^{39}Ar$ (%)	Age (Ma) ±1σ	±1σ
500	$1.9*e^{-9}$	1.883	0.005	0.01710	0.00135	0.075	0.023	0.00313	0.00173	0.27	3.1	5.18	2.75
650	$5.9*e^{-9}$	0.557	0.001	0.01545	0.00015	0.107	0.002	0.00106	0.00013	0.39	36.0	1.31	0.21
850	$6.3*e^{-9}$	0.482	0.001	0.01513	0.00007	0.141	0.002	0.00077	0.00004	0.51	76.7	1.38	0.07
1000	$20.2*e^{-9}$	3.444	0.001	0.01734	0.00023	0.146	0.005	0.01089	0.00020	0.53	94.9	1.22	0.32
1140	$15.0*e^{-9}$	9.240	0.003	0.02266	0.00057	0.106	0.015	0.02955	0.00076	0.38	100.0	2.75	1.21

Sample: YK-353 plagioclase J=0.004380 ± 0.000050

T^0C	^{40}Ar(ccSTP)	$^{40}Ar/^{39}Ar$	±1σ	$^{38}Ar/^{39}Ar$	±1σ	$^{37}Ar/^{39}Ar$	±1σ	$^{36}Ar/^{39}Ar$	±1σ	Ca/K	$\sum^{39}Ar$ (%)	Age (Ma) ±1σ	±1σ
550	$2.83*e^{-9}$	0.7756	0.0015	0.01446	0.00048	0.00752	0.00034	0.00155	0.00029	0.027	9.7	2.517	0.678
750	$31.84*e^{-9}$	1.5697	0.0010	0.01462	0.00007	0.00837	0.00012	0.00480	0.00003	0.030	63.4	1.200	0.071
875	$3.40*e^{-9}$	0.5418	0.0011	0.01419	0.00028	0.01186	0.00025	0.00114	0.00009	0.043	80.1	1.612	0.216
1000	$3.85*e^{-9}$	1.2031	0.0013	0.01689	0.00044	0.00808	0.00069	0.00330	0.00018	0.029	88.6	1.812	0.431
1130	$5.08*e^{-9}$	1.1809	0.0014	0.01538	0.00027	0.00659	0.00039	0.00266	0.00015	0.024	100.0	3.107	0.351

Sample: YK-354 plagioclase J=0.004154 ± 0.000045

T^0C	^{40}Ar(ccSTP)	$^{40}Ar/^{39}Ar$	±1σ	$^{38}Ar/^{39}Ar$	±1σ	$^{37}Ar/^{39}Ar$	±1σ	$^{36}Ar/^{39}Ar$	±1σ	Ca/K	$\sum^{39}Ar$ (%)	Age (Ma) ±1σ	±1σ
475	$4.1*e^{-9}$	25.613	0.271	0.02992	0.01095	1.455	0.178	0.04525	0.00173	5.24	2.3	89.5	3.8
600	$3.2*e^{-9}$	7.738	0.039	0.02434	0.00575	3.316	0.058	0.02172	0.00250	11.94	8.5	9.9	5.5
750	$4.1*e^{-9}$	1.706	0.001	0.01598	0.00052	5.961	0.011	0.00285	0.00034	21.46	44.1	6.5	0.8
950	$3.2*e^{-9}$	1.278	0.002	0.01377	0.00065	7.561	0.012	0.00039	0.00024	27.22	81.3	8.7	0.5
1130	$2.8*e^{-9}$	2.170	0.004	0.01516	0.00126	7.791	0.017	0.00009	0.00040	28.05	100.0	16.0	0.9

Sample: YK-355 k- feldspar J=0.004067 ± 0.000043

T^0C	^{40}Ar(STP)	$^{40}Ar/^{39}Ar$	±1σ	$^{38}Ar/^{39}Ar$	±1σ	$^{37}Ar/^{39}Ar$	±1σ	$^{36}Ar/^{39}Ar$	±1σ	Ca/K	$\sum^{39}Ar$ (%)	Age (Ma) ±1σ	±1σ
550	$2.6*e^{-9}$	0.6717	0.0011	0.014796	0.000235	0.1329	0.0021	0.002044	0.000017	0.48	11.5	0.497	0.037
700	$4.1*e^{-9}$	0.3773	0.0010	0.014001	0.000118	0.1794	0.0037	0.000902	0.000019	0.65	44.7	0.812	0.044
850	$4.3*e^{-9}$	0.6281	0.0011	0.014935	0.000291	0.3327	0.0030	0.001843	0.000103	1.20	65.4	0.612	0.223
1000	$8.3*e^{-9}$	1.4505	0.0012	0.015656	0.000296	0.1712	0.0057	0.004387	0.000056	0.62	82.8	1.130	0.123
1130	$10.1*e^{-9}$	1.7865	0.0011	0.015641	0.000021	0.1287	0.0035	0.005261	0.000072	0.46	100.0	1.701	0.157

Sample: YK-356 plagioclase J=0.003898 ± 0.000040

T^0C	^{40}Ar(ccSTP)	$^{40}Ar/^{39}Ar$	±1σ	$^{38}Ar/^{39}Ar$	±1σ	$^{37}Ar/^{39}Ar$	±1σ	$^{36}Ar/^{39}Ar$	±1σ	Ca/K	$\sum^{39}Ar$ (%)	Age (Ma) ±1σ	±1σ
550	$3.7*e^{-9}$	0.7039	0.0013	0.016367	0.000452	0.2241	0.0079	0.002204	0.000248	0.81	11.0	0.371	0.515
700	$5.0*e^{-9}$	0.2248	0.0010	0.013092	0.000073	0.2189	0.0012	0.000249	0.000031	0.79	56.5	1.062	0.065
850	$3.9*e^{-9}$	0.2291	0.0010	0.013752	0.000025	0.5368	0.0012	0.000323	0.000023	1.93	91.5	0.939	0.050
1130	$4.0*e^{-9}$	0.9780	0.0028	0.012947	0.000645	0.5306	0.0184	0.002861	0.000378	1.91	100.0	0.932	0.784

Sample: YK-357 k-feldspar J=0.003736 ± 0.000037

T^0C	^{40}Ar(ccSTP)	$^{40}Ar/^{39}Ar$	±1σ	$^{38}Ar/^{39}Ar$	±1σ	$^{37}Ar/^{39}Ar$	±1σ	$^{36}Ar/^{39}Ar$	±1σ	Ca/K	$\sum^{39}Ar$ (%)	Age (Ma) ±1σ	±1σ
500	$4.53*e^{-9}$	1.61614	0.00132	0.01953	0.00038	0.230	0.005	0.005	0.000	0.827	5.1	1.338	0.473
650	$7.10*e^{-9}$	0.76257	0.00014	0.01388	0.00014	0.121	0.003	0.002	0.000	0.436	22.1	1.899	0.127
750	$9.18*e^{-9}$	0.58055	0.00008	0.01368	0.00009	0.077	0.002	0.001	0.000	0.278	51.1	1.397	0.082
850	$10.51*e^{-9}$	0.98028	0.00029	0.01426	0.00015	0.068	0.003	0.003	0.000	0.245	70.7	1.441	0.047
950	$23.14*e^{-9}$	2.99744	0.00100	0.01521	0.00008	0.076	0.002	0.009	0.000	0.273	84.8	1.293	0.013
1050	$39.79*e^{-9}$	5.74143	0.00168	0.01752	0.00017	0.080	0.002	0.019	0.000	0.287	97.4	1.364	0.095
1150	$16.41*e^{-9}$	11.75485	0.01501	0.02464	0.00083	0.044	0.024	0.039	0.001	0.157	100.0	1.842	1.070

Sample: YK-358 k-feldspar J=0.003223 ± 0.000027

T^0C	^{40}Ar(ccSTP)	$^{40}Ar/^{39}Ar$	±1σ	$^{38}Ar/^{39}Ar$	±1σ	$^{37}Ar/^{39}Ar$	±1σ	$^{36}Ar/^{39}Ar$	±1σ	Ca/K	$\sum^{39}Ar$ (%)	Age (Ma) ±1σ	±1σ
500	$5.7*e^{-9}$	2.8322	0.0025	0.02156	0.00037	0.2600	0.0042	0.00829	0.00050	0.94	6.0	2.22	0.85
600	$5.6*e^{-9}$	1.1140	0.0012	0.01664	0.00029	0.1405	0.0018	0.00367	0.00022	0.51	21.0	0.17	0.38
725	$8.8*e^{-9}$	0.8558	0.0011	0.01560	0.00021	0.0996	0.0019	0.00218	0.00015	0.36	51.8	1.23	0.26
825	$6.9*e^{-9}$	1.1936	0.0013	0.01650	0.00018	0.1088	0.0024	0.00314	0.00021	0.39	69.2	1.54	0.36
925	$7.4*e^{-9}$	1.4678	0.0014	0.01716	0.00035	0.1120	0.0019	0.00411	0.00011	0.40	84.3	1.47	0.18
1025	$11.4*e^{-9}$	3.1784	0.0026	0.01929	0.00064	0.1262	0.0038	0.00996	0.00035	0.45	95.0	1.37	0.60
1140	$7.4*e^{-9}$	4.4567	0.0066	0.01776	0.00054	0.1749	0.0087	0.01183	0.00056	0.63	100.0	5.58	0.97

Dip direction	Angle	Lat. N (°)	Long. W (°)	Dip direction	Angle	Lat. N (°)	Long. W (°)	Dip direction	Angle	Lat. N (°)	Long. W (°)	Dip direction	Angle	Lat. N (°)	Long. W (°)
295	90	10.761384	85.4401421	7	90	10.7613835	85.440142	276	90	10.74018	85.4145867	320	75	10.8712	85.412106
295	90	10.761384	85.4401421	86	90	10.7613835	85.440142	335	90	10.74018	85.4145867	137	90	10.8712	85.412106
295	90	10.761384	85.4401421	283	90	10.7613835	85.440142	335	90	10.74018	85.4145867	153	90	10.8712	85.412106
295	90	10.761384	85.4401421	275	90	10.7613835	85.440142	333	90	10.74018	85.4145867	156	90	10.8712	85.412106
295	90	10.761384	85.4401421	85	90	10.7613835	85.440142	273	90	10.74018	85.4145867	328	81	10.8712	85.412106
295	90	10.761384	85.4401421	84	90	10.7613835	85.440142	5	90	10.74018	85.4145867	147	90	10.8712	85.412106
295	90	10.761384	85.4401421	180	90	10.7613835	85.440142	285	90	10.74018	85.4145867	320	80	10.8712	85.412106
295	90	10.761384	85.4401421	357	85	10.7613835	85.440142	277	90	10.74018	85.4145867	142	90	10.8712	85.412106
290	90	10.761384	85.4401421	355	90	10.7613835	85.440142	347	90	10.74018	85.4145867	142	90	10.8712	85.412106
290	90	10.761384	85.4401421	350	90	10.7613835	85.440142	340	90	10.74018	85.4145867	142	90	10.8712	85.412106
290	90	10.761384	85.4401421	350	90	10.7613835	85.440142	327	90	10.74018	85.4145867	142	90	10.8712	85.412106
290	90	10.761384	85.4401421	345	90	10.7613835	85.440142	345	90	10.74018	85.4145867	137	90	10.8712	85.412106
290	90	10.761384	85.4401421	70	90	10.7613835	85.440142	347	90	10.74018	85.4145867	125	90	10.8712	85.412106
290	90	10.761384	85.4401421	70	90	10.7613835	85.440142	330	90	10.74018	85.4145867	301	75	10.8712	85.412106
290	90	10.761384	85.4401421	359	90	10.7613835	85.440142	295	90	10.74018	85.4145867	320	75	10.8712	85.412106
290	90	10.761384	85.4401421	180	90	10.7613835	85.440142	35	90	10.74018	85.4145867	137	90	10.8712	85.412106
290	90	10.761384	85.4401421	78	90	10.7613835	85.440142	335	90	10.74018	85.4145867	153	90	10.8712	85.412106
290	90	10.761384	85.4401421	285	90	10.7613835	85.440142	338	90	10.74018	85.4145867	156	90	10.8712	85.412106
290	90	10.761384	85.4401421	275	90	10.7613835	85.440142	295	90	10.74018	85.4145867	328	81	10.8712	85.412106
290	90	10.761384	85.4401421	82	90	10.7613835	85.440142	345	90	10.74018	85.4145867	147	90	10.8712	85.412106
290	90	10.761384	85.4401421	15	72	10.7613835	85.440142	345	90	10.74018	85.4145867	320	80	10.8712	85.412106
290	90	10.761384	85.4401421	180	90	10.7613835	85.440142	40	90	10.74018	85.4145867	142	90	10.8712	85.412106
290	90	10.761384	85.4401421	342	90	10.7613835	85.440142	347	90	10.74018	85.4145867	142	90	10.8712	85.412106
290	90	10.761384	85.4401421	180	90	10.7613835	85.440142	338	90	10.74018	85.4145867	142	90	10.8712	85.412106
290	90	10.761384	85.4401421	280	90	10.7613835	85.440142	345	90	10.74018	85.4145867	142	90	10.8712	85.412106
290	90	10.761384	85.4401421	332	90	10.7613835	85.440142	347	90	10.74018	85.4145867	189	90	10.83025	85.4501998
290	90	10.761384	85.4401421	330	72	10.7613835	85.440142	333	90	10.74018	85.4145867	160	90	10.83025	85.4501998
290	90	10.761384	85.4401421	180	90	10.7613835	85.440142	340	90	10.74018	85.4145867	140	84	10.83025	85.4501998
290	90	10.761384	85.4401421	58	90	10.7613835	85.440142	334	75	10.74018	85.4145867	184	90	10.83025	85.4501998
290	90	10.761384	85.4401421	330	90	10.7613835	85.440142	350	90	10.74018	85.4145867	185	90	10.83025	85.4501998
290	90	10.761384	85.4401421	295	90	10.7613835	85.440142	317	90	10.74018	85.4145867	175	90	10.83025	85.4501998
290	90	10.761384	85.4401421	348	90	10.7613835	85.440142	5	90	10.74018	85.4145867	190	90	10.83025	85.4501998
290	90	10.761384	85.4401421	5	90	10.7613835	85.440142	30	90	10.74018	85.4145867	193	90	10.83025	85.4501998
290	90	10.761384	85.4401421	180	90	10.7613835	85.440142	15	90	10.74018	85.4145867	210	90	10.83025	85.4501998
290	90	10.761384	85.4401421	356	90	10.7613835	85.440142	18	90	10.7814	85.4059337	189	90	10.83025	85.4501998
290	90	10.761384	85.4401421	354	90	10.7613835	85.440142	295	90	10.7814	85.4059337	124	90	10.81713	85.4191795
275	85	10.761384	85.4401421	5	90	10.7613835	85.440142	304	90	10.7814	85.4059337	125	90	10.81713	85.4191795
339	90	10.761384	85.4401421	3	90	10.7613835	85.440142	315	90	10.7814	85.4059337	126	90	10.81713	85.4191795
280	90	10.761384	85.4401421	277	90	10.7613835	85.440142	355	90	10.7814	85.4059337	130	90	10.81713	85.4191795
290	90	10.761384	85.4401421	88	80	10.7613835	85.440142	290	72	10.7814	85.4059337	128	90	10.81713	85.4191795
286	90	10.761384	85.4401421	78	69	10.7613835	85.440142	305	90	10.7814	85.4059337	125	90	10.81713	85.4191795
10	90	10.761384	85.4401421	83	65	10.7613835	85.440142	310	84	10.7814	85.4059337	126	90	10.81713	85.4191795
293	90	10.761384	85.4401421	180	90	10.7613835	85.440142	345	90	10.7814	85.4059337	125	90	10.81713	85.4191795
290	90	10.761384	85.4401421	180	90	10.7613835	85.440142	355	76	10.7814	85.4059337	123	90	10.81713	85.4191795
293	90	10.761384	85.4401421	180	90	10.7613835	85.440142	345	90	10.7814	85.4059337	124	90	10.81713	85.4191795
308	90	10.761384	85.4401421	180	90	10.7613835	85.440142	356	85	10.7814	85.4059337	122	90	10.81713	85.4191795
295	90	10.761384	85.4401421	180	90	10.7613835	85.440142	305	90	10.75782	85.3768051	119	90	10.81713	85.4191795
110	85	10.761384	85.4401421	345	90	10.7613835	85.440142	295	90	10.75782	85.3768051	121	90	10.81713	85.4191795
70	90	10.761384	85.4401421	345	90	10.7613835	85.440142	297	90	10.75782	85.3768051	115	90	10.81713	85.4191795
72	90	10.761384	85.4401421	8	90	10.7613835	85.440142	290	90	10.75782	85.3768051	113	90	10.81713	85.4191795
70	90	10.761384	85.4401421	5	90	10.7613835	85.440142	294	90	10.75782	85.3768051	112	90	10.81713	85.4191795
72	90	10.761384	85.4401421	90	90	10.7613835	85.440142	310	90	10.75782	85.3768051	107	90	10.81713	85.4191795
74	90	10.761384	85.4401421	90	90	10.7613835	85.440142	312	90	10.75782	85.3768051	105	90	10.81713	85.4191795
74	90	10.761384	85.4401421	274	90	10.7613835	85.440142	330	90	10.75782	85.3768051	105	90	10.81713	85.4191795
66	90	10.761384	85.4401421	87	90	10.7613835	85.440142	180	90	10.75782	85.3768051	154	90	10.81713	85.4191795
64	90	10.761384	85.4401421	20	90	10.7613835	85.440142	348	90	10.75782	85.3768051	95	90	10.81713	85.4191795
74	90	10.761384	85.4401421	10	90	10.7613835	85.440142	357	90	10.75782	85.3768051	90	90	10.81713	85.4191795
64	90	10.761384	85.4401421	17	90	10.7613835	85.440142	5	90	10.75782	85.3768051	148	90	11.41795	86.0438665
74	90	10.761384	85.4401421	17	90	10.7613835	85.440142	320	90	10.75782	85.3768051	146	90	11.41795	86.0438665
75	90	10.761384	85.4401421	12	85	10.7613835	85.440142	23	90	10.75782	85.3768051	147	90	11.41795	86.0438665
70	90	10.761384	85.4401421	7	90	10.7613835	85.440142	330	90	10.75782	85.3768051	146	90	11.41795	86.0438665
70	90	10.761384	85.4401421	20	90	10.7401804	85.414587	340	90	10.75782	85.3768051	145	90	11.41795	86.0438665
5	90	10.761384	85.4401421	45	90	10.7401804	85.414587	310	90	10.75782	85.3768051	144	90	11.41795	86.0438665
5	90	10.761384	85.4401421	313	90	10.7401804	85.414587	315	90	10.75782	85.3768051	145	90	11.41795	86.0438665
5	90	10.761384	85.4401421	290	90	10.7401804	85.414587	300	90	10.75782	85.3768051	147	90	11.41795	86.0438665
5	90	10.761384	85.4401421	83	90	10.7401804	85.414587	330	90	10.75782	85.3768051	146	90	11.41795	86.0438665
5	90	10.761384	85.4401421	275	90	10.7401804	85.414587	134	90	10.8712	85.412106	145	90	11.41795	86.0438665
5	90	10.761384	85.4401421	282	90	10.7401804	85.414587	137	90	10.8712	85.412106	140	90	11.41795	86.0438665
5	90	10.761384	85.4401421	275	90	10.7401804	85.414587	125	90	10.8712	85.412106	142	90	11.41795	86.0438665
5	90	10.761384	85.4401421	58	90	10.7401804	85.414587	301	75	10.8712	85.412106	143	90	11.41795	86.0438665
5	90	10.761384	85.4401421	330	90	10.7401804	85.414587	320	75	10.8712	85.412106	140	90	11.41795	86.0438665
5	90	10.761384	85.4401421	310	0	10.7401804	85.414587	137	90	10.8712	85.412106	140	90	11.41795	86.0438665
5	90	10.761384	85.4401421	44	90	10.7401804	85.414587	153	90	10.8712	85.412106	143	90	11.41795	86.0438665
5	90	10.761384	85.4401421	70	73	10.7401804	85.414587	156	90	10.8712	85.412106	140	90	11.41795	86.0438665
5	90	10.761384	85.4401421	70	90	10.7401804	85.414587	328	81	10.8712	85.412106	141	90	11.41795	86.0438665
160	90	10.761384	85.4401421	295	90	10.7401804	85.414587	147	90	10.8712	85.412106	133	90	11.41795	86.0438665
105	90	10.761384	85.4401421	80	90	10.7401804	85.414587	320	80	10.8712	85.412106	132	90	11.41795	86.0438665
158	90	10.761384	85.4401421	300	90	10.7401804	85.414587	142	90	10.8712	85.412106	133	90	11.41795	86.0438665
90	90	10.761384	85.4401421	275	90	10.7401804	85.414587	142	90	10.8712	85.412106	145	90	11.41795	86.0438665
165	90	10.761384	85.4401421	276	90	10.7401804	85.414587	142	90	10.8712	85.412106	125	90	11.41795	86.0438665
158	90	10.761384	85.4401421	335	90	10.7401804	85.414587	142	90	10.8712	85.412106	155	90	11.41795	86.0438665
110	75	10.761384	85.4401421	300	90	10.7401804	85.414587	142	90	10.8712	85.412106	154	90	11.41795	86.0438665
350	80	10.761384	85.4401421	350	90	10.7401804	85.414587	137	90	10.8712	85.412106	178	90	11.41795	86.0438665
342	90	10.761384	85.4401421	275	90	10.7401804	85.414587	125	90	10.8712	85.412106	178	90	11.41795	86.0438665
275	90	10.761384	85.4401421	300	90	10.7401804	85.414587	301	75	10.8712	85.412106	177	90	11.41795	86.0438665

Table DR1. Field structural data corresponding to the dip direction and angle of faults, fractures, and joints. Co-ordinates of the location of each measurement are also included