2000100

TABLE DR 1. ^{40}AR-^{39}AR DATA

Power(mW)	^{39}Ar frac	$^{39}Ar_K$ mol	$^{40}Ar/^{39}Ar$	$^{38}Ar/^{39}Ar$	$^{37}Ar/^{39}Ar$	$^{36}Ar/^{39}Ar$	$^{40}Ar^*/^{39}Ar_K$	$\%^{40}Ar$ atmos	Ca/K	Age (Ma)	1σ error (Ma)
HM95 biotite											
40	0.022	1.623E-16	30.2	0.061	0.068	0.025	22.91	24.2	0.13	572	22
80	0.089	6.563E-16	36.0	0.063	0.025	0.002	35.58	1.3	0.05	824	6
120	0.171	1.262E-15	40.6	0.068	0.009	0.000	40.51	0.2	0.02	914	3
160	0.126	9.286E-16	41.0	0.070	0.007	0.000	41.02	0.0	0.01	922	4
200	0.116	8.571E-16	41.2	0.070	0.019	0.001	40.84	0.9	0.03	919	4
240	0.104	7.654E-16	41.1	0.070	0.030	0.000	41.19	-0.2	0.05	925	5
300	0.068	5.003E-16	40.8	0.069	0.021	0.001	40.52	0.8	0.04	914	6
400	0.156	1.153E-15	40.5	0.067	0.009	0.000	40.41	0.2	0.02	912	2
520	0.108	8.004E-16	40.4	0.068	0.009	0.000	40.36	0.0	0.02	911	4
760	0.016	1.178E-16	41.0	0.065	0.018	-0.001	41.30	-0.8	0.03	927	19
2000	0.024	1.790E-16	41.1	0.066	0.024	0.002	40.51	1.4	0.04	913	11
J=0.0162729 +/- 0.0000253769											
total 39K VOL = 1.65284 E -10 ml STP											
total gas age = 902 +/- 2 Ma											
plateau age = 915 +/- 2 Ma											
A128 biotite											
80	0.007	2.000E-17	33.5	0.023	0.009	0.011	30.20	9.9	0.02	714	75
160	0.068	1.944E-16	43.5	0.023	0.001	0.000	43.40	0.2	0.00	954	9
240	0.160	4.566E-16	45.0	0.019	-0.001	0.000	45.03	0.0	0.00	982	5
320	0.208	5.933E-16	44.3	0.020	0.003	0.001	43.96	0.8	0.01	964	3
400	0.133	3.803E-16	43.9	0.021	0.003	0.000	43.86	0.2	0.01	962	5
520	0.092	2.624E-16	44.1	0.021	0.008	0.002	43.58	1.1	0.01	957	5
760	0.263	7.511E-16	44.4	0.021	0.001	0.001	44.23	0.4	0.00	968	3
1000	0.015	4.215E-17	44.7	0.025	0.016	0.022	38.18	14.6	0.03	863	58
2800	0.055	1.561E-16	43.9	0.018	0.009	0.006	42.03	4.3	0.02	931	10
J = 0.0160624 +/- 0.0000618639											
total 39K VOL = 6.40123 E -11 ml STP											
total gas age = 961 +/- 3 Ma											
plateau age = 964 +/- 4 Ma											
A129 biotite											
80	0.005	1.398E-17	79.7	0.027	-0.059	0.172	28.80	63.8	-0.11	693	184
160	0.011	3.173E-17	42.6	0.031	-0.074	0.013	38.78	8.9	-0.14	882	64
240	0.012	3.407E-17	41.5	0.034	-0.039	0.007	39.48	4.9	-0.07	894	66
360	0.052	1.442E-16	41.7	0.021	-0.003	0.004	40.59	2.8	-0.01	914	13
480	0.189	5.272E-16	41.6	0.022	-0.001	0.000	41.53	0.2	0.00	931	4
560	0.145	4.055E-16	41.4	0.021	-0.005	0.001	41.22	0.5	-0.01	925	5
680	0.116	3.237E-16	41.3	0.021	0.001	-0.001	41.62	-0.8	0.00	932	6
1000	0.209	5.839E-16	41.3	0.022	0.001	0.001	41.11	0.5	0.00	923	3
1520	0.224	6.273E-16	41.2	0.021	0.002	0.001	40.97	0.6	0.00	921	3
2000	0.024	6.729E-17	40.7	0.015	0.012	0.004	39.67	2.6	0.02	898	23
2800	0.013	3.722E-17	40.6	0.023	0.003	-0.003	41.50	-2.2	0.01	930	43
J = 0.016252 +/- 0.000060249											
total 39K VOL = 6.26115 E -11 ml STP											
total gas age = 922 +/- 1											
plateau age = 924 +/- 3 Ma											
A136 biotite											
80	0.050	9.868E-17	7.4	0.081	0.162	0.002	6.85	7.4	0.30	188	25
160	0.062	1.213E-16	32.5	0.096	0.031	0.000	32.56	-0.2	0.06	759	16
200	0.032	6.282E-17	39.7	0.112	-0.009	0.004	38.43	3.1	-0.02	867	35
320	0.155	3.033E-16	42.6	0.108	0.016	0.001	42.46	0.4	0.03	938	7
440	0.217	4.250E-16	43.4	0.112	0.029	0.000	43.51	-0.2	0.05	956	6
560	0.139	2.721E-16	43.4	0.110	0.061	0.000	43.50	-0.3	0.11	956	8
800	0.225	4.405E-16	41.3	0.105	0.027	0.000	41.38	-0.2	0.05	919	6
1000	0.058	1.135E-16	40.8	0.103	0.007	0.001	40.52	0.7	0.01	904	16
2000	0.058	1.143E-16	40.7	0.106	-0.010	-0.001	41.10	-1.0	-0.02	914	13
2800	0.002	3.880E-18	39.3	0.125	-0.223	0.047	25.31	35.7	-0.41	616	379
J = 0.0160624 +/- 0.0000618639											
total 39K VOL = 4.38021 E -11 ml STP											
total gas age = 892 +/- 4 Ma											
plateau age = 937 +/- 8 Ma											

Power(mW)	^{39}Ar frac	$^{39}Ar_K$ mol	$^{40}Ar/^{39}Ar$	$^{38}Ar/^{39}Ar$	$^{37}Ar/^{39}Ar$	$^{36}Ar/^{39}Ar$	$^{40}Ar^*/^{39}Ar_K$	%^{40}Ar atmos	Ca/K	Age (Ma)	1σ error (Ma)
A112 biotite											
80	0.011	2.748E-17	39.8	0.017	0.072	0.015	35.31	11.3	0.13	804	65
160	0.125	3.135E-16	41.9	0.016	0.005	0.000	41.83	0.3	0.01	920	7
200	0.099	2.470E-16	43.8	0.015	0.000	0.001	43.47	0.7	0.00	948	8
320	0.209	5.209E-16	43.5	0.015	0.001	0.000	43.54	-0.1	0.00	949	5
400	0.165	4.115E-16	43.1	0.014	0.002	0.000	42.99	0.3	0.00	940	5
560	0.273	6.830E-16	42.9	0.014	-0.001	0.000	43.07	-0.3	0.00	941	4
680	0.090	2.255E-16	42.4	0.012	0.000	0.000	42.50	-0.3	0.00	931	9
1000	0.013	3.304E-17	43.5	0.015	-0.030	0.004	42.45	2.5	-0.05	931	57
2800	0.014	3.576E-17	43.2	0.014	0.025	-0.007	45.21	-4.6	0.05	977	36

J = 0.0158999 +/- 0.000066656
total 39K VOL = 5.59556 E -11 ml STP/G
total gas age = 939 +/- 4
plateau age = 940 +/- 4 Ma

A142 biotite											
80	0.024	5.799E-17	16.5	0.333	0.126	-0.009	19.20	-16.4	0.23	496	65
160	0.061	1.474E-16	28.9	0.310	0.039	0.001	28.56	1.0	0.07	696	15
240	0.159	3.837E-16	42.0	0.306	0.014	-0.001	42.27	-0.7	0.03	953	6
320	0.072	1.739E-16	40.5	0.297	0.008	0.000	40.50	0.0	0.02	922	8
440	0.166	4.008E-16	41.4	0.305	0.048	-0.002	41.82	-1.1	0.09	945	5
560	0.098	2.357E-16	39.5	0.288	0.024	-0.002	39.95	-1.2	0.04	912	7
800	0.112	2.707E-16	39.0	0.282	0.004	-0.003	39.89	-2.2	0.01	911	6
1000	0.055	1.335E-16	38.7	0.279	-0.014	-0.003	39.76	-2.6	-0.03	909	12
2000	0.153	3.702E-16	38.7	0.274	-0.006	-0.001	39.08	-0.9	-0.01	896	6
2800	0.100	2.412E-16	38.7	0.275	-0.004	-0.004	39.86	-2.9	-0.01	910	7

J = 0.0164686 +/- 0.0000639689
total 39K VOL = 5.4120 E -11 ml STP/G
total gas age = 900 +/- 4 Ma
plateau age = 919 +/- 1 Ma

LB93 biotite											
40	0.006	2.547E-17	22.1	0.089	0.244	0.015	17.67	20.0	0.45	454	104
80	0.132	5.884E-16	40.0	0.055	0.006	0.000	39.94	0.2	0.01	899	5
120	0.195	8.683E-16	40.6	0.052	0.003	0.001	40.20	1.1	0.01	904	3
160	0.212	9.436E-16	40.4	0.052	0.019	0.001	40.20	0.6	0.03	904	3
240	0.101	4.501E-16	40.4	0.054	0.014	0.000	40.32	0.1	0.02	906	5
320	0.163	7.268E-16	40.4	0.051	0.012	0.000	40.34	0.0	0.02	906	4
400	0.147	6.560E-16	40.4	0.052	0.011	0.001	40.17	0.7	0.02	903	4
520	0.026	1.151E-16	40.7	0.050	0.006	0.005	39.17	3.7	0.01	886	20
2000	0.017	7.655E-17	40.2	0.048	-0.004	0.002	39.51	1.7	-0.01	892	26

J = 0.0161824 +/- 0.0000341735
total 39K VOL = 9.96868 E -11 ml STP/G
total gas age = 901 +/- 2 Ma
plateau age = 904 +/- 2 Ma

LB596-31b biotite											
40	0.007	7.894E-17	17.5	3.334	0.379	0.007	15.47	11.7	0.69	402	35
120	0.016	1.870E-16	36.3	0.146	0.157	0.002	35.69	1.6	0.29	820	10
200	0.031	3.724E-16	39.3	0.110	0.209	-0.001	39.71	-1.1	0.38	893	6
280	0.083	9.971E-16	42.0	0.110	0.012	0.001	41.78	0.5	0.02	930	2
360	0.091	1.090E-15	42.1	0.111	0.033	0.001	41.86	0.5	0.06	931	4
440	0.093	1.114E-15	41.8	0.109	0.012	0.000	41.86	-0.1	0.02	931	2
600	0.150	1.805E-15	42.0	0.109	0.015	0.000	41.90	0.3	0.03	932	2
720	0.105	1.263E-15	41.7	0.107	0.017	0.000	41.70	0.0	0.03	928	2
880	0.119	1.431E-15	41.6	0.106	0.052	0.000	41.55	0.0	0.10	926	2
1120	0.182	2.181E-15	41.7	0.107	0.034	0.000	41.62	0.2	0.06	927	2
1360	0.083	9.951E-16	41.7	0.106	0.031	0.001	41.50	0.6	0.06	925	3
2000	0.041	4.944E-16	41.8	0.106	-0.020	0.000	41.70	0.3	-0.04	928	5

J = 0.0161362 +/- 0.0000361145
total 39K VOL = 2.69006 E -10 ml STP/G
total gas age = 923 +/- 2 Ma
plateau age = 925 +/- 2 Ma

Power(mW)	^{39}Ar frac	$^{39}Ar_K$ mol	$^{40}Ar/^{39}Ar$	$^{38}Ar/^{39}Ar$	$^{37}Ar/^{39}Ar$	$^{36}Ar/^{39}Ar$	$^{40}Ar^*/^{39}Ar_K$	$\%^{40}Ar$ atmos	Ca/K	Age (Ma)	1σ error (Ma)
PP596-60 biotite											
40	0.010	5.464E-17	29.8	0.140	0.034	0.017	24.82	16.8	0.06	603	52
80	0.051	2.775E-16	34.8	0.020	0.004	0.005	33.45	4.0	0.01	773	12
120	0.161	8.814E-16	39.9	0.006	-0.001	-0.001	40.13	-0.5	0.00	895	4
160	0.126	6.938E-16	40.6	0.005	0.005	0.000	40.57	0.2	0.01	903	3
240	0.149	8.193E-16	41.0	0.006	-0.001	0.000	40.95	0.1	0.00	909	3
320	0.089	4.908E-16	40.5	0.007	0.007	0.001	40.10	1.0	0.01	894	4
440	0.183	1.005E-15	40.6	0.004	-0.002	0.002	40.04	1.4	0.00	893	4
600	0.153	8.391E-16	40.4	0.005	-0.001	0.001	40.13	0.7	0.00	895	4
1000	0.060	3.303E-16	40.4	0.004	-0.007	0.002	39.77	1.5	-0.01	888	6
2000	0.017	9.426E-17	40.7	-0.001	-0.057	0.000	40.62	0.2	-0.10	903	26
J = 0.0160029 +/- 0.0000446936											
total 39K VOL = 1.22883 E -10 ml STP/G											
total gas age = 889 +/- 3 Ma											
plateau age = 899 +/- 1 Ma											
SE596-49 biotite											
40	0.003	1.322E-16	31.2	2.221	0.225	0.019	25.51	18.4	0.41	624	26
80	0.006	2.320E-16	22.2	0.395	0.065	0.006	20.35	8.3	0.12	515	14
120	0.018	7.360E-16	27.0	0.333	0.003	0.003	26.03	3.6	0.01	635	5
160	0.036	1.496E-15	35.7	0.376	0.025	0.001	35.50	0.6	0.05	820	3
200	0.056	2.344E-15	39.0	0.405	0.012	0.000	38.81	0.4	0.02	881	2
220	0.063	2.631E-15	39.4	0.413	0.016	0.000	39.34	0.2	0.03	890	1
240	0.052	2.171E-15	39.7	0.417	0.009	0.000	39.74	-0.2	0.02	897	2
260	0.047	1.956E-15	39.6	0.416	-0.008	0.000	39.58	0.0	-0.01	895	2
280	0.048	2.000E-15	39.7	0.418	0.013	0.000	39.71	-0.1	0.02	897	2
300	0.050	2.060E-15	39.8	0.417	-0.003	0.000	39.88	-0.1	-0.01	900	1
320	0.045	1.879E-15	39.7	0.415	-0.001	0.000	39.73	-0.1	0.00	897	3
360	0.054	2.257E-15	39.9	0.419	0.003	0.000	39.90	0.1	0.01	900	2
400	0.049	2.047E-15	39.8	0.415	0.008	0.000	39.76	0.1	0.02	898	1
440	0.047	1.938E-15	39.8	0.411	0.008	0.000	39.74	0.1	0.01	897	2
480	0.038	1.599E-15	39.7	0.408	0.043	0.000	39.66	0.1	0.08	896	3
520	0.124	5.168E-15	39.4	0.412	0.001	0.000	39.24	0.3	0.00	888	4
560	0.046	1.923E-15	39.5	0.409	0.008	0.000	39.39	0.3	0.01	891	2
600	0.035	1.468E-15	39.5	0.410	-0.008	0.000	39.42	0.2	-0.01	892	2
640	0.020	8.124E-16	39.3	0.398	0.003	0.001	39.07	0.6	0.00	885	4
720	0.022	9.327E-16	39.6	0.403	0.018	0.001	39.29	0.9	0.03	889	4
960	0.049	2.047E-15	39.9	0.396	0.001	0.000	39.77	0.3	0.00	898	2
1240	0.034	1.397E-15	38.1	0.265	0.020	0.001	37.76	0.8	0.04	862	2
1760	0.055	2.296E-15	34.8	0.044	0.002	0.000	34.83	0.0	0.00	808	2
2000	0.002	8.804E-17	35.6	0.036	-0.300	-0.009	38.28	-7.4	-0.55	871	38
J = 0.0162163 +/- 0.0000317085											
total 39K VOL = 9.32026 E -10 ml STP											
total gas age = 878 +/- 2 Ma											
plateau age = 895 +/- 1 Ma											
CN596-56 biotite											
40	0.021	3.031E-16	5.8	0.638	0.123	0.002	5.22	10.7	0.22	147	8
80	0.080	1.159E-15	31.0	0.431	0.017	0.004	29.75	4.1	0.03	713	3
120	0.089	1.291E-15	42.5	0.428	0.005	0.000	42.55	-0.2	0.01	950	2
160	0.144	2.096E-15	43.5	0.425	0.004	0.001	43.40	0.3	0.01	964	2
200	0.163	2.364E-15	44.4	0.438	0.007	0.000	44.24	0.3	0.01	979	1
220	0.075	1.091E-15	45.1	0.441	0.011	0.001	44.89	0.5	0.02	990	3
240	0.053	7.711E-16	44.4	0.430	0.021	0.002	43.92	1.1	0.04	973	4
280	0.079	1.141E-15	43.2	0.410	0.049	0.000	43.19	0.0	0.09	961	3
360	0.147	2.137E-15	42.4	0.402	0.039	0.000	42.45	-0.2	0.07	948	2
440	0.079	1.141E-15	41.8	0.396	0.050	0.000	41.72	0.3	0.09	935	2
600	0.042	6.139E-16	41.7	0.390	0.016	0.000	41.69	0.1	0.03	935	4
1000	0.021	2.997E-16	41.8	0.389	0.043	0.001	41.53	0.5	0.08	932	9
2000	0.009	1.250E-16	42.6	0.404	0.067	-0.004	43.76	-2.8	0.12	971	17
J = 0.0162842 +/- 0.0000275431											
total 39K VOL = 3.25544 E -10 ml STP											
total gas age = 928 +/- 1 Ma											
plateau age = 924 +/- 2 Ma											

Streepy B2148+

TABLE DR 2. SAMPLE LOCATIONS

Sample	Location
HM95	Northwest of Russell on Rt. 17 in Devil's Elbow, 2 miles south of Hermon. Massive outcrop on both sides of the road; sample from east side.
SE596-49	On Rt 87, north of Dana Hill Rd. 1.9 miles south of Whipporwill Corners. Smallish outcrop on northwest side of road.
LB596-31b	4.5 miles from intersection of Hwy 3 and Hwy 812, on Hwy 812. South of Balmat, at first bend in road north of Geers Corners. Outcrop on both sides of the road, sample from the east side.
LB93	Outcrop just north of LB596-31b.
CN596-56	0.2 miles south of junction of Hanson Rd and Orebed Rd, on Orebed Rd near Colton. Small outcrop on west side of road.
PP596-60	1 mile southwest of Pierrepont on Rt. 2. Outcrop on east side of road.
A112	Near Gouverneur, north of junction of Poplar Hill Rd and Hwy 812. Sample from northerly outcrop.
A128	Outcrop 40 m long roadcut on the south side of Trout Lake Rd, north of Edwards on the west side of Trout Lake just west of 2 islands.
A129	Outcrop due west of westernmost extreme of Cedar Lake, south of Trout Lake on Rt. 19 on the way to Edwards.
A136	Small outcrop on Joe Indian Rd at the crest of a small hill. Located at the N70W, 60N symbol on Leonard and Buddington's map.
A142	Small outcrop on the east side of Mud Lake Rd at the junction of Mud Lake and Briggs Rd (outcrop on the southeast corner of intersection).