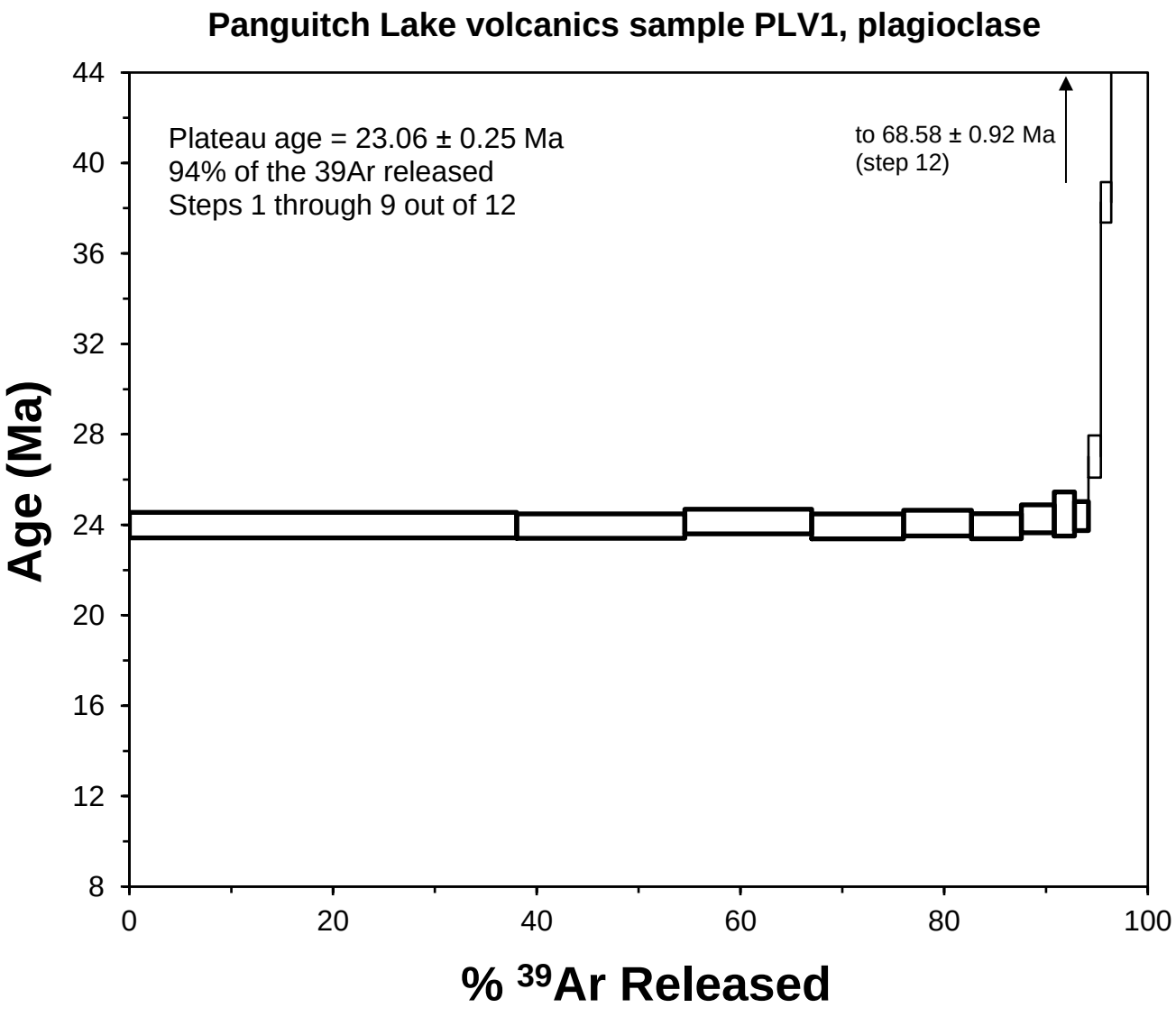
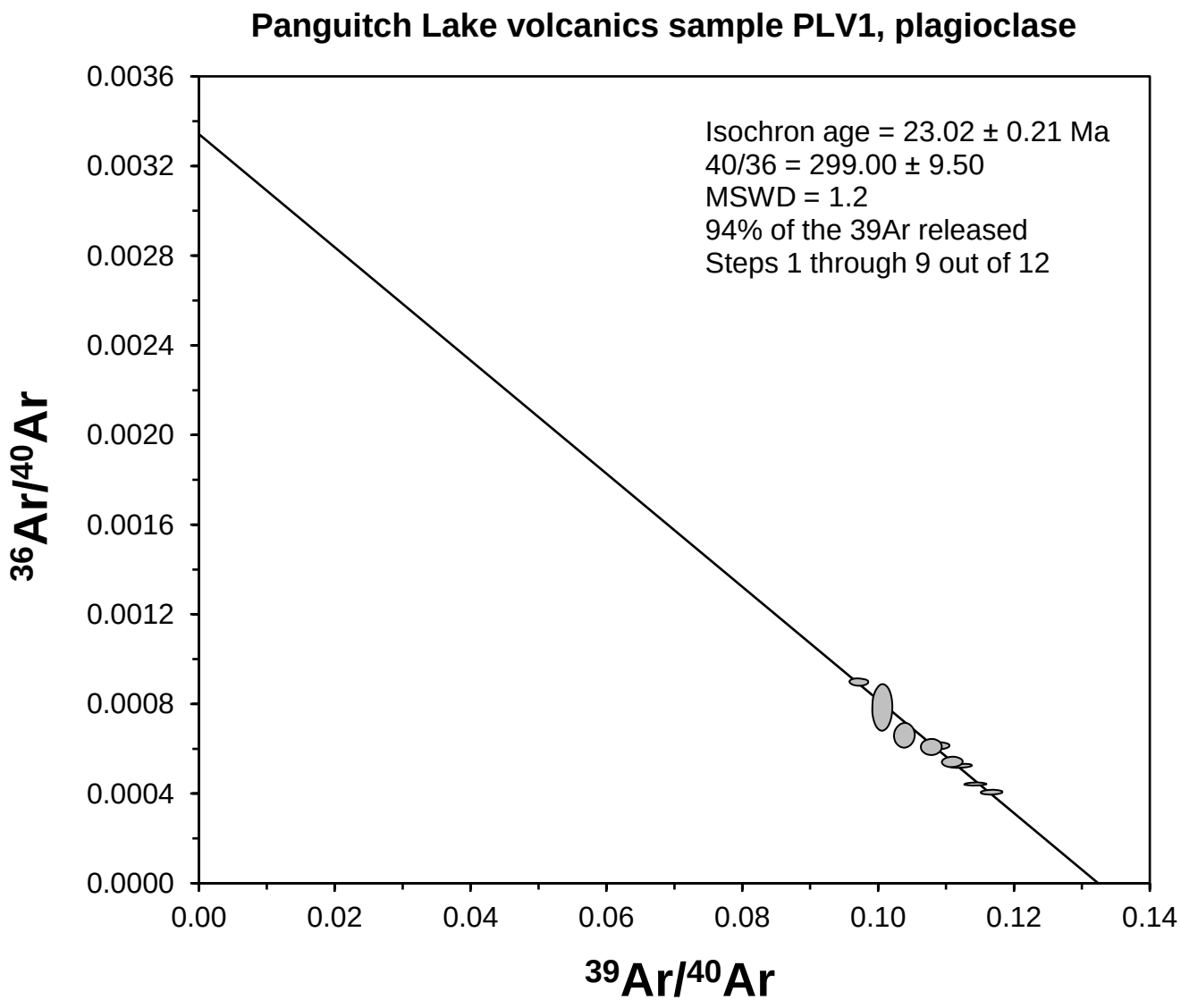
Filkorn-Pierce College, Panguitch Lake volcanics sample PLV1, plagioclase, 27.10 mg, J = 0.0017 ± 1.03%
4 amu discrimination = 1.0467 ± 0.32%, 40/39K = 0.155 ± 2.67%, 36/37Ca = 0.000166 ± 0.76%, 39/37Ca = 0.000651 ± 0.28%

step	T (C)	t (min.)	36Ar	37Ar	38Ar	39Ar	40Ar	%40Ar*	% 39Ar rlsd	40Ar*/39ArK	Age (Ma)	1s.d.
1	620	12	2.912	1.433	9.417	292.079	3042.07	72.5	38.0	7.237879	23.00	0.27
2	660	12	0.585	1.109	4.219	126.810	1122.57	86.5	16.5	7.224897	22.96	0.26
3	700	12	0.512	1.317	3.036	95.659	870.685	85.5	12.5	7.286011	23.16	0.26
4	740	12	0.464	1.417	2.212	69.321	650.184	83.2	9.0	7.221097	22.95	0.26
5	780	12	0.388	1.457	1.517	51.224	493.433	82.7	6.7	7.265428	23.09	0.27
6	820	12	0.348	1.433	1.048	37.599	376.010	80.7	4.9	7.223630	22.96	0.27
7	860	12	0.274	1.133	0.697	24.788	260.087	80.9	3.2	7.323063	23.27	0.30
8	900	12	0.253	0.906	0.416	15.277	181.475	76.1	2.0	7.369619	23.42	0.47
9	950	12	0.229	0.847	0.333	10.522	142.392	77.9	1.4	7.359801	23.39	0.31
10	1040	12	0.820	0.908	0.447	9.347	307.668	29.2	1.2	8.160379	25.92	0.45
11	1140	12	0.295	0.871	0.396	7.826	173.086	82.4	1.0	11.565003	36.62	0.43
12	1400	12	1.170	2.660	1.136	27.582	951.183	69.7	3.6	21.851868	68.58	0.92
								Cumulative %39Ar rlsd =	100.0	Total gas age =	24.85	0.10
										Plateau age = (steps 1-9)	23.06	0.25
										Isochron age = (steps 1-9)	23.02	0.21

note: isotope beams in mV, rlsd = released, error in age includes J error, all errors 1 sigma
(36Ar through 40Ar are measured beam intensities, corrected for decay for the age calculations)


Panguitch Lake volcanics sample PLV1, plagioclase
Plateau age = 23.06 ± 0.25 Ma
94% of the 39Ar released
Steps 1 through 9 out of 12
to 68.58 ± 0.92 Ma
(step 12)
Age (Ma)
44
40
36
32
28
24
20
16
12
8
0
20
40
60
80
100
% 39Ar Released


Panguitch Lake volcanics sample PLV1, plagioclase
Isochron age = 23.02 ± 0.21 Ma
40/36 = 299.00 ± 9.50
MSWD = 1.2
94% of the 39Ar released
Steps 1 through 9 out of 12
0.0036
0.0032
0.0028
0.0024
0.0020
0.0016
0.0012
0.0008
0.0004
0.0000
36Ar/40Ar
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
39Ar/40Ar