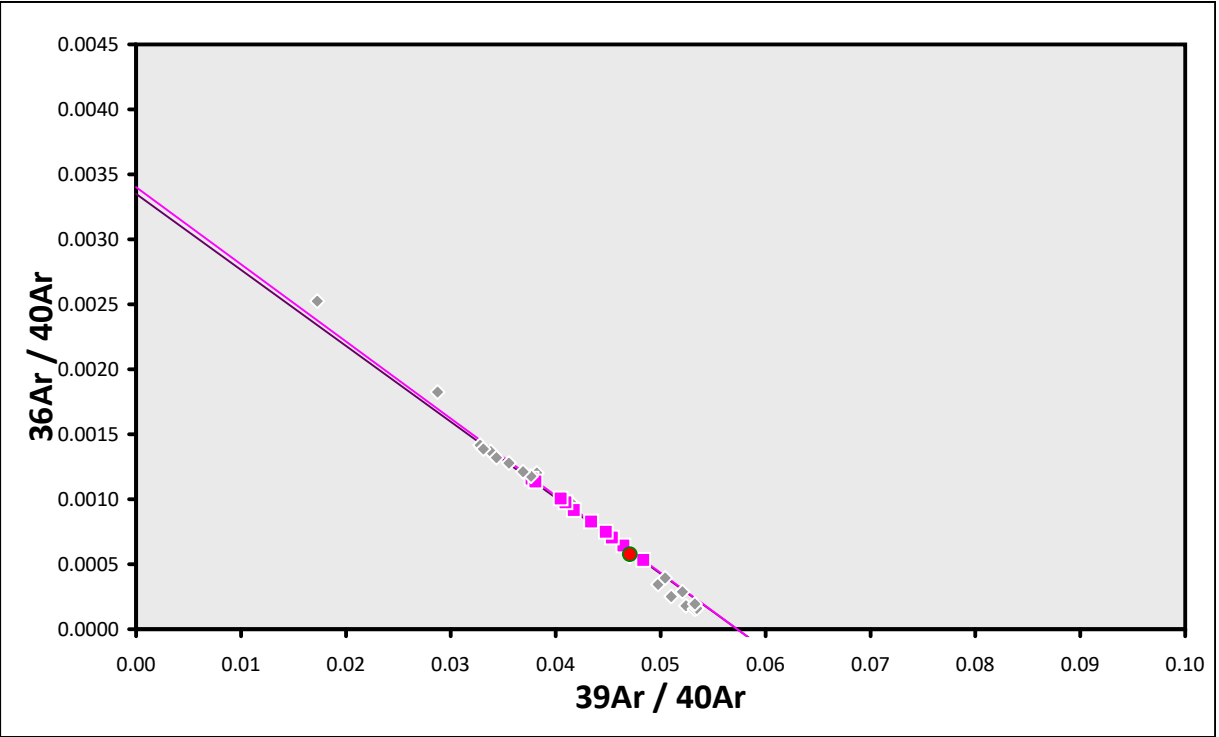
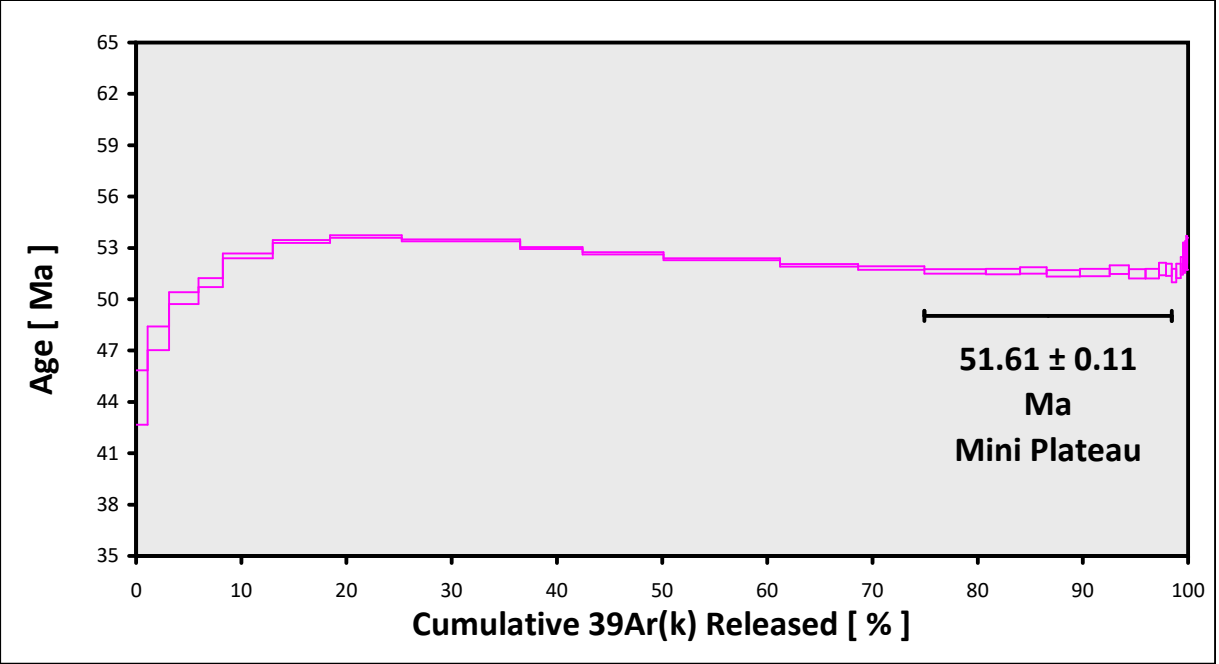


EXP#23G09786 > 4A22-3 > STEELY (22-19)
NORTHEAST WASHINGTON > HUNTERS
23-OSU-01 (1B19-23) > Incremental Heating > GROUNDMASS > Dan Miggins

Information on Analysis and Constants Used in Calculations
Project = STEELY (22-19) Sample = 4A22-3 Material = GROUNDMASS Location = Hunters Region = Northeast Washington Analyst = Dan Miggins Irradiation = 23-OSU-01 (1B19-23) Position = X: 999 Y: 999 Z/H: 25.50191 mm FCT-NM Age = 28.201 ± 0.023 Ma FCT-NM Reference = Kuiper et al (2008) FCT-NM 40Ar/39Ar Ratio = 9.47567 ± 0.00853 FCT-NM J-value = 0.00163846 ± 0.00000147 Air Shot 40Ar/36Ar = 308.5940 ± 0.4228 Air Shot MDF = 0.99186069 ± 0.00041656 (LIN) Experiment Type = Incremental Heating Extraction Method = Bulk Laser Heating Heating = 50 sec Isolation = 2.00 min Instrument = ARGUS-VI-G Preferred Age = Mini Plateau Age Classification = Crystallization Age IGSN = Undefined Rock Class = Undefined Lithology = Undefined Lat-Lon = Undefined - Undefined Age Equations = Min et al. (2000) Negative Intensities = Allowed Collector Calibrations = 36Ar Decay 40K(total) = 5.463 ± 0.107 E-10 1/a Decay 40K(EC,β ⁺) = 0.580 ± 0.014 E-10 1/a Decay 40K(β ⁻) = 4.884 ± 0.099 E-10 1/a Decay 39Ar = 2.940 ± 0.016 E-07 1/h Decay 37Ar = 8.230 ± 0.012 E-04 1/h Decay 36Cl = 2.257 ± 0.015 E-06 1/a Production 39/37(ca) = 0.0006425 ± 0.0000059 Production 38/37(ca) = 0.0001800 ± 0.0000173 Production 36/37(ca) = 0.0002703 ± 0.0000005 Production 40/39(k) = 0.000607 ± 0.000059 Production 38/39(k) = 0.012077 ± 0.000011 Production 36/38(cl) = 262.80 ± 1.71 Scaling Ratio K/Ca = 0.430 Abundance Ratio 40K/K = 1.1700 ± 0.0100 E-04 Atomic Weight K = 39.0983 ± 0.0001 g Trapped 40/36(a) = 293.99 ± 1.77 Trapped 38/36(a) = 0.1885 ± 0.0003 Standard MDF 40/36(a) = 298.56 ± 0.31 Standard MDF Reference = Lee et al 2006

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%,n)	K/Ca ± 2σ
Age Plateau		17.45345 ± 0.02227 ± 0.13%	51.61 ± 0.11 ± 0.22%	0.60 80%	23.53 10	0.89 ± 0.22
		Full External Error ± 2.67 Analytical Error ± 0.06		1.94 1.0000	2σ Confidence Limit Error Magnification	
Total Fusion Age		17.64493 ± 0.01163 ± 0.07%	52.17 ± 0.10 ± 0.19%		31	1.08 ± 0.00
		Full External Error ± 2.69 Analytical Error ± 0.03				
Normal Isochron Error Chron	294.06 ± 3.55 ± 1.21%	17.44995 ± 0.06340 ± 0.36%	51.60 ± 0.21 ± 0.40%	3.59 0%	23.53 10	
		Full External Error ± 2.67 Analytical Error ± 0.18		2.00 1.8946	2σ Confidence Limit Error Magnification	
Inverse Isochron Error Chron	293.99 ± 3.54 ± 1.21%	17.45143 ± 0.06333 ± 0.36%	51.61 ± 0.21 ± 0.40%	3.59 0%	23.53 10	
		Full External Error ± 2.67 Analytical Error ± 0.18		2.00 1.8946	2σ Confidence Limit Error Magnification Spreading Factor	



Sub-atmospheric 40/36 = 293.99 ± 0.60 (%SD).