

**EXP#16D44886 > 154-DFWJ-15 > Plagioclase > MCCLAUGHRY (15-17)**  
**CENTRAL CORDILLERA OF ... > DUFUR**  
**16-OSU-10 (10C8-16) > Incremental Heating > Dan Miggins**

**Information on Analysis  
and Constants Used in Calculations**

Project = MCCLAUGHRY (15-17)  
Sample = 154-DFWJ-15  
Material = Plagioclase  
Location = Dufur  
Region = Central Cordillera of ...  
Analyst = Dan Miggins  
Irradiation = 16-OSU-10 (10C8-16)  
Position = X: 0 | Y: 0 | Z/H: 14.20827 mm  
FCT-NM Age = 28.201 ± 0.023 Ma  
FCT-NM Reference = Kuiper et al (2008)  
FCT-NM 40Ar/39Ar Ratio = 5.77135 ± 0.00768  
FCT-NM J-value = 0.00272335 ± 0.00000362  
Air Shot 40Ar/36Ar = 305.1700 ± 0.4517  
Air Shot MDF = 0.99206795 ± 0.00067728 (LIN)  
Experiment Type = Incremental Heating  
Extraction Method = Undefined  
Heating = 77 sec  
Isolation = 1.50 min  
Instrument = ARGUS-VI-D  
Preferred Age = Undefined  
Age Classification = Undefined  
IGSN = 21  
Rock Class = Undefined  
Lithology = Undefined  
Lat-Lon = Undefined - Undefined  
Age Equations = Min et al. (2000)  
Negative Intensities = Allowed  
Collector Calibrations = 36Ar  
Decay 40K = 5.530 ± 0.048 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  
Decay 40K(EC,β<sup>+</sup>) = 0.580 ± 0.009 E-10 1/a  
Decay 40K(β<sup>-</sup>) = 4.950 ± 0.043 E-10 1/a  
Atmospheric 40/36(a) = 295.50  
Atmospheric 38/36(a) = 0.1869  
Production 39/37(ca) = 0.0006756 ± 0.0000089  
Production 38/37(ca) = 0.0000718 ± 0.0000092  
Production 36/37(ca) = 0.0002663 ± 0.0000004  
Production 40/39(k) = 0.003823 ± 0.000102  
Production 38/39(k) = 0.012031 ± 0.000019  
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

Results	40(a)/36(a) ± 2σ	40(r)/39(k) ± 2σ	Age ± 2σ (Ma)	MSWD	39Ar(k) (%n)	K/Ca ± 2σ
Age Plateau		0.74897 ± 0.00321 ± 0.43%	3.68 ± 0.02 ± 0.50%	1.15 28%	62.61 24	0.0549 ± 0.0004
		Full External Error ± 0.09 Analytical Error ± 0.02		1.59 1.0711	2σ Confidence Limit Error Magnification	
Total Fusion Age		0.75795 ± 0.00250 ± 0.33%	3.73 ± 0.02 ± 0.42%		29	0.0554 ± 0.0001
		Full External Error ± 0.09 Analytical Error ± 0.01				
Normal Isochron	291.93 ± 2.43 ± 0.83%	0.75082 ± 0.00310 ± 0.41%	3.69 ± 0.02 ± 0.49%	0.95 52%	62.61 24	
		Full External Error ± 0.09 Analytical Error ± 0.02		1.60 1.0000	2σ Confidence Limit Error Magnification	
Inverse Isochron	292.35 ± 2.43 ± 0.83%	0.75020 ± 0.00311 ± 0.41%	3.69 ± 0.02 ± 0.49%	0.89 60%	62.61 24	
		Full External Error ± 0.09 Analytical Error ± 0.02		1.60 1.0000 87%	2σ Confidence Limit Error Magnification Spreading Factor	

