

**EXP#16D30836 > 373-DFWJ-14 > Plagioclase > MCCLAUGHRY (15-17)**  
**SW-COLOMBIA > DUFUR**  
**16-OSU-07 (7A41-16) > Incremental Heating > Anthony Koppers**

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

Project = MCCLAUGHRY (15-17)  
Sample = 373-DFWJ-14  
Material = Plagioclase  
Location = Dufur  
Region = SW-Colombia  
Analyst = Anthony Koppers  
Irradiation = 16-OSU-07 (7A41-16)  
Position = X: 0 | Y: 0 | Z/H: 53.72 mm  
FCT-NM Age = 28.201 ± 0.023 Ma  
FCT-NM Reference = Kuiper et al (2008)  
FCT-NM 40Ar/39Ar Ratio = 10.64920 ± 0.00713  
FCT-NM J-value = 0.00147592 ± 0.00000099  
Air Shot 40Ar/36Ar = 303.3480 ± 0.4399  
Air Shot MDF = 0.99352382 ± 0.00067750 (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 = 25  
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 Error Mean		1.43535 ± 0.00283 ± 0.20%	3.83 ± 0.01 ± 0.24%	2.62 0%	93.95 16	0.106 ± 0.003
			Full External Error ± 0.09 Analytical Error ± 0.01	1.73 1.6182	2σ Confidence Limit Error Magnification	
Total Fusion Age		1.44174 ± 0.00327 ± 0.23%	3.84 ± 0.01 ± 0.26%		29	0.106 ± 0.000
			Full External Error ± 0.09 Analytical Error ± 0.01			
Normal Isochron Error Chron	300.36 ± 3.93 ± 1.31%	1.42900 ± 0.00399 ± 0.28%	3.81 ± 0.01 ± 0.31%	3.85 0%	93.95 16	
			Full External Error ± 0.09 Analytical Error ± 0.01	1.76 1.9614	2σ Confidence Limit Error Magnification	
Inverse Isochron Error Chron	298.32 ± 2.99 ± 1.00%	1.43410 ± 0.00295 ± 0.21%	3.82 ± 0.01 ± 0.25%	2.23 1%	93.95 16	
			Full External Error ± 0.09 Analytical Error ± 0.01	1.4926 81%	Error Magnification Spreading Factor	

