NEW PARAMETERS - ZETA METHOD

EFFECTIVE TRACK DENSITY FOR FLUENCE MONITOR (tracks/cm^2): 1.47E+06
RELATIVE ERROR (%): 1.57
EFFECTIVE URANIUM CONTENT OF MONITOR (ppm): 46.10
ZETA FACTOR AND STANDARD ERROR (yr cm^2): 359.00 10.00
SIZE OF COUNTER SQUARE (cm^2): 6.40E-07

GRAIN AGES IN ORIGINAL ORDER

```
Grain RhoS (Ns) RhoI (Ni) Squares U+/-2s Grain Age (Ma)
no. (cm^-2)
                 (cm^{2})
                                     Age
                                          --95% CI--
 1 0.00E+00 ( 0) 4.38E+05 ( 14)
                                 50
                                      14 7 13.4
                                                  0.5 79.1
 2 0.00E+00 ( 0) 6.25E+05 ( 16)
                                 40
                                     20 10 11.7
                                                  0.4 68.1
                                                 2.1 71.6
                                      16 6 19.5
   3.47E+04 ( 2) 5.03E+05 ( 29)
                                 90
 4 0.00E+00 ( 0) 2.50E+05 ( 8)
                                 50
                                      8 5 23.8
                                                 0.8 152.8
    3.13E+04 ( 1) 5.31E+05 ( 17)
                                 50
                                     17 8 17.6
                                                  0.4 98.4
 6 0.00E+00 ( 0) 4.06E+05 ( 13)
                                 50
                                     13 7 14.4
                                                 0.5 86.1
 7 6.25E+04 ( 1) 5.63E+05 ( 9)
                                 25
                                     18 11 32.9 0.7 208.3
 8 0.00E+00 ( 0) 2.50E+05 ( 8)
                                 50
                                      8 5 23.8
                                                 0.8 152.8
 9 9.38E+04 ( 3) 9.38E+05 ( 30)
                                 50
                                      29 11 27.6
                                                  5.2 84.4
                                  50
 10 0.00E+00 ( 0) 4.06E+05 ( 13)
                                      13 7
                                            14.4
                                                  0.5 86.1
 11 0.00E+00 ( 0) 6.25E+05 ( 10)
                                  25
                                      20 12 18.9 0.7 116.7
 12 0.00E+00 ( 0) 2.19E+05 (
                             7)
                                 50
                                      7 5 27.4 1.0 180.6
 13 1.95E+04 ( 1) 3.91E+05 ( 20)
                                  80
                                      12 5 15.0
                                                  0.3 82.0
 14 2.60E+04 ( 1) 2.08E+05 ( 8)
                                 60
                                      7 4 37.0 0.7 241.6
                                  50
 15 3.13E+04 ( 1) 3.75E+05 ( 12)
                                      12 7 24.8 0.5 147.0
 16 0.00E+00 (
               0) 3.44E+05 ( 11)
                                  50
                                      11 6 17.1
                                                  0.6 104.3
 17 1.88E+05 (
                                  25
                                      45 19 35.9 6.6 113.0
               3) 1.44E+06 ( 23)
 18 0.00E+00 ( 0) 2.50E+05 (
                                      8 5 23.8 0.8 152.8
                             8)
                                 50
 19 3.13E+04 (
               1) 5.94E+05 (
                             19)
                                  50
                                      19 8 15.8
                                                  0.3 86.8
 20 0.00E+00 ( 0) 5.00E+05 ( 16)
                                  50
                                      16 8 11.7
                                                  0.4 68.1
                                      11 6 27.1
 21 3.13E+04 ( 1) 3.44E+05 ( 11)
                                  50
                                                  0.6 163.1
 22 6.25E+04 ( 2) 4.69E+05 ( 15)
                                  50
                                      15 7 37.4
                                                  3.9 149.6
23 0.00E+00 ( 0) 3.44E+05 ( 11)
                                  50
                                      11 6 17.1
                                                  0.6 104.3
 24 0.00E+00 ( 0) 3.75E+05 ( 12)
                                  50
                                      12 7
                                            15.7
                                                  0.6 94.3
 25 0.00E+00 ( 0) 4.38E+05 (
                             7)
                                 25
                                      14 10
                                             27.4
                                                   1.0 180.6
 26 0.00E+00 ( 0) 6.56E+05 ( 21)
                                  50
                                      21
                                          9
                                             8.9
                                                  0.3 50.5
 27 0.00E+00 ( 0) 3.13E+05 ( 10)
                                  50
                                      10 6
                                             18.9
                                                  0.7 116.7
                                  50
 28 3.13E+04 ( 1) 3.75E+05 ( 12)
                                      12 7
                                             24.8
                                                  0.5 147.0
 29 3.13E+04 ( 1) 4.69E+05 ( 15)
                                  50
                                      15 7 19.9
                                                  0.4 113.4
 30 0.00E+00 ( 0) 2.50E+05 ( 4)
                                 25
                                      8 7 49.7
                                                 1.7 388.0
POOLED 2.05E+04( 19) 4.42E+05( 409) 1445
                                            14 1 12.4
                                                       7.3 19.4
```

CHI^2 PROBABILITY (%): 92.3

>>> Beware: possible upward bias in Chi^2 probability due to low counts <<<

POOLED AGE W/ 68% CONF. INTERVAL(Ma): 12.4, 9.4 -- 15.8 (-2.9 +3.5) 95% CONF. INTERVAL(Ma): 7.3 -- 19.4 (-5.1 +7.0)

CENTRAL AGE W/ 68% CONF. INTERVAL(Ma): 12.2, 9.7 -- 15.5 (-2.6 +3.3) 95% CONF. INTERVAL(Ma): 7.7 -- 19.5 (-4.5 +7.2) AGE DISPERSION (%): 0.6

FIT OPTION: Best-fit peaks using the binomial model of Galbraith and Green

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 1)

Peak	#. Peak A	Age The	ta Frac	tion(%)	Count		
1.	12.40	0.045	12.2	3.67			
	nge for gra		46.4 Ma				
Number of active grains (Num. used for fit): 30							
Number	of remove	ed grains:		Ó			
Degrees of freedom for fit: 29							
Average of the SE(Z)'s for the grains: 1.21							
Estimated width of peaks in PD plot in Z units: 1.41							

PARAMETERS FOR BEST-FIT PEAKS

- * Standard error for peak age includes group error
- * Peak width is for PD plot assuming a kernel factor = 0.60

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#. Peak Age(Ma) 68%CI	95%CI	W(Z) Frac(%) SE,%	Count
1. 12.2 -2.6+3.3 -4.5	+7.2 1.50	100.0 0.0 30.0	
Log-likelihood for best fit:	-26.411		
Chi-squared value for best fit:	18.946		
Reduced chi-squared value:	0.653		

Probability for F test: 0%

Condition number for COVAR matrix: 1.00

Number of iterations: 5







