Datafile: C:\Users\ablythe\Desktop\Ann-2019 samples\HG-34.fta Title: Sample HG-34, Haida Gwai, CN-5 glass for monitor

#### **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 1.25E+05 ( 2) 3.44E+06 ( 55)
                                 25 108 29 10.3
                                                   1.1 36.3
                                 50 168 26 12.6 5.2 24.9
 2 2.50E+05 ( 8) 5.34E+06 (171)
 3 6.51E+04 ( 1) 1.43E+06 ( 22)
                                 24
                                     45 19 13.6
                                                  0.3 73.8
 4 1.25E+05 ( 2) 2.63E+06 ( 42)
                                 25
                                     82 25 13.5
                                                  1.5 48.2
 5 3.13E+05 ( 5) 5.00E+06 ( 80)
                                 25
                                     157 35
                                            17.0
                                                  5.2 40.0
 6 1.25E+05 ( 2) 5.31E+06 ( 85)
                                 25
                                     167 36
                                             6.7
                                                  0.7 23.1
 7 1.25E+05 ( 2) 3.81E+06 ( 61)
                                 25
                                     120 31
                                             9.3
                                                  1.0 32.6
 8 2.50E+05 ( 4) 5.00E+06 ( 80)
                                 25
                                     157 35
                                            13.7
                                                   3.5 35.1
 9 0.00E+00 ( 0) 1.44E+06 ( 23)
                                     45 19
                                 25
                                             8.1
                                                  0.3 45.8
 10 6.25E+04 ( 1) 2.56E+06 ( 41)
                                  25
                                      80 25
                                             7.3
                                                  0.2 37.8
 11 6.25E+04 (
                                      96 27
                                                  0.1 31.4
               1) 3.06E+06 ( 49)
                                  25
                                             6.2
 12 1.88E+05 ( 3) 4.75E+06 ( 76)
                                  25
                                      149 34
                                             10.9
                                                   2.1
                                                       31.6
                                  25
                                      196 40 11.0
 13 2.50E+05 ( 4) 6.25E+06 (100)
                                                   2.8 27.8
                                      165 36
 14 1.25E+05 ( 2) 5.25E+06 ( 84)
                                  25
                                             6.8 0.7 23.4
                                      92 33 18.8
 15 1.95E+05 ( 2) 2.93E+06 ( 30)
                                  16
                                                   2.0 69.0
 16 2.50E+05 ( 4) 5.31E+06 ( 85)
                                      167 36 12.9
                                  25
                                                   3.3 32.9
                                                   0.3 70.3
 17 6.25E+04 ( 1) 1.44E+06 ( 23)
                                  25
                                      45 19 13.0
 18 1.95E+05 ( 5) 4.69E+06 (120)
                                      147 27 11.3
                                                    3.5 26.3
                                  40
                                                   1.6 23.3
 19 1.88E+05 ( 3) 6.38E+06 (102)
                                  25
                                     200 40
                                              8.2
20 3.13E+05 ( 4) 5.94E+06 ( 76)
                                  20
                                     186 43 14.4
                                                   3.7
                                                       37.0
POOLED 1.67E+05( 56) 4.18E+06(1405) 525 131 8 10.5 8.0 13.8
CHI^2 PROBABILITY (%): 99.9
>>> Beware: possible upward bias in Chi^2 probability due to low counts <<<
POOLED AGE W/ 68% CONF. INTERVAL(Ma): 10.5, 9.1 -- 12.1 (-1.4 +1.6)
        95% CONF. INTERVAL(Ma):
                                      8.0 -- 13.8 ( -2.5 +3.3)
```

CENTRAL AGE W/ 68% CONF. INTERVAL(Ma): 10.5, 9.1 -- 12.1 (-1.4 +1.6) 8.0 -- 13.8 ( -2.5 +3.3) 95% CONF. INTERVAL(Ma): AGE DISPERSION (%): 0.1

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## 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 7	eak #. Peak Age		ta Frac	tion(%)	Count					
1.	10.50	0.038	28.9	5.79						
Total range for grain ages: 5.6 to 21.6 Ma Number of active grains (Num. used for fit): 20										
Number of removed grains: 0										
Degrees of freedom for fit: 19										
Average of the SE(Z)'s for the grains: 0.69										
Estimated width of peaks in PD plot in Z units: 0.8										

### 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

#. F	Peak A	ge(Ma)	68%0	CI	95%0	CI	W(Z) F	rac(%	SE,%	Count
1.	10.5	-1.4 .	+1.6	-2.5	+3.3	0.71	100.0	0.0	20.0	
1 00	likalih	and for	hoot fit		20.62	10				

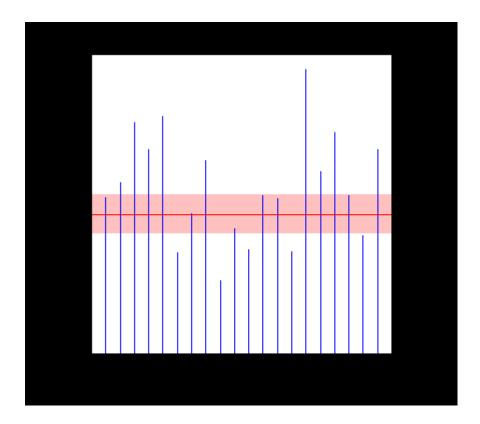
Log-likelihood for best fit: -29.622 Chi-squared value for best fit: 5.424 Reduced chi-squared value: 0.285

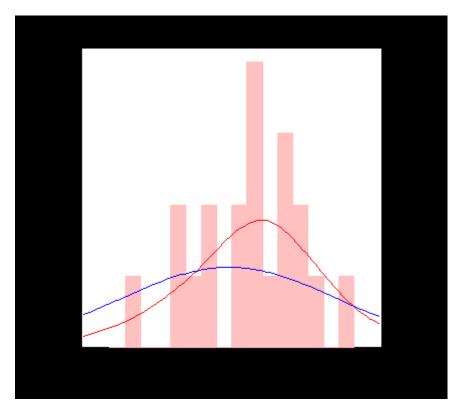
Probability for F test: 0%

Condition number for COVAR matrix: 1.00

Number of iterations: 5

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