APPENDIX D

Binomial Peak-Fit Ages

1. 05-01
2. 05-03
3. 05-04
4. 05-06
5. 05-07
6. 05-08
7. 05-09
8. 05-10
9. 05-11
10. 05-12
11. 05-13
12. 05-16
13. 05-17
14. KA 1
15. KL 2
16. DK 3

05-01 - Kulthieth Formation, Donald Ridge

```
BinomFit for Windows ver.1.0
[03/08/2006 11:42]    Main results
05-01ab, U35Z-45,46
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-01.txt


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


INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 2)
```

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	34.80	0.453	46.6	23.30
2.	67.00	0.615	13.1	6.57

```
Total range for grain ages:              16.6  to  78.8 Ma
Number of active grains:                 50
Number of removed grains:                0
Degrees of freedom for fit:              47
Average of the SE(Z)'s for the grains:   0.24
Estimated width of peaks in PD plot in Z units: 0.29


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
```

#.	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,% Count
1.	31.4	-1.6 ...+1.6	-3.0 ...+3.3	0.26	78.4	9.3
39.2						
2.	57.6	-7.3 ...+8.4	-13.5 ...+17.6	0.30	21.6	9.3
10.8						

```
Log-likelihood for best fit:         -161.799
Chi-squared value for best fit:      49.979
Reduced chi-squared value:           1.063
Probability for F test:              0%
Degrees of freedom for fit:          47
Condition number for covar matrix:   15.33
Number of iterations:                11
```

Probability-Density Plot with Best-Fit Peaks

Figure axes: Density (% per delta z=0.1) versus FT grain age (Ma)
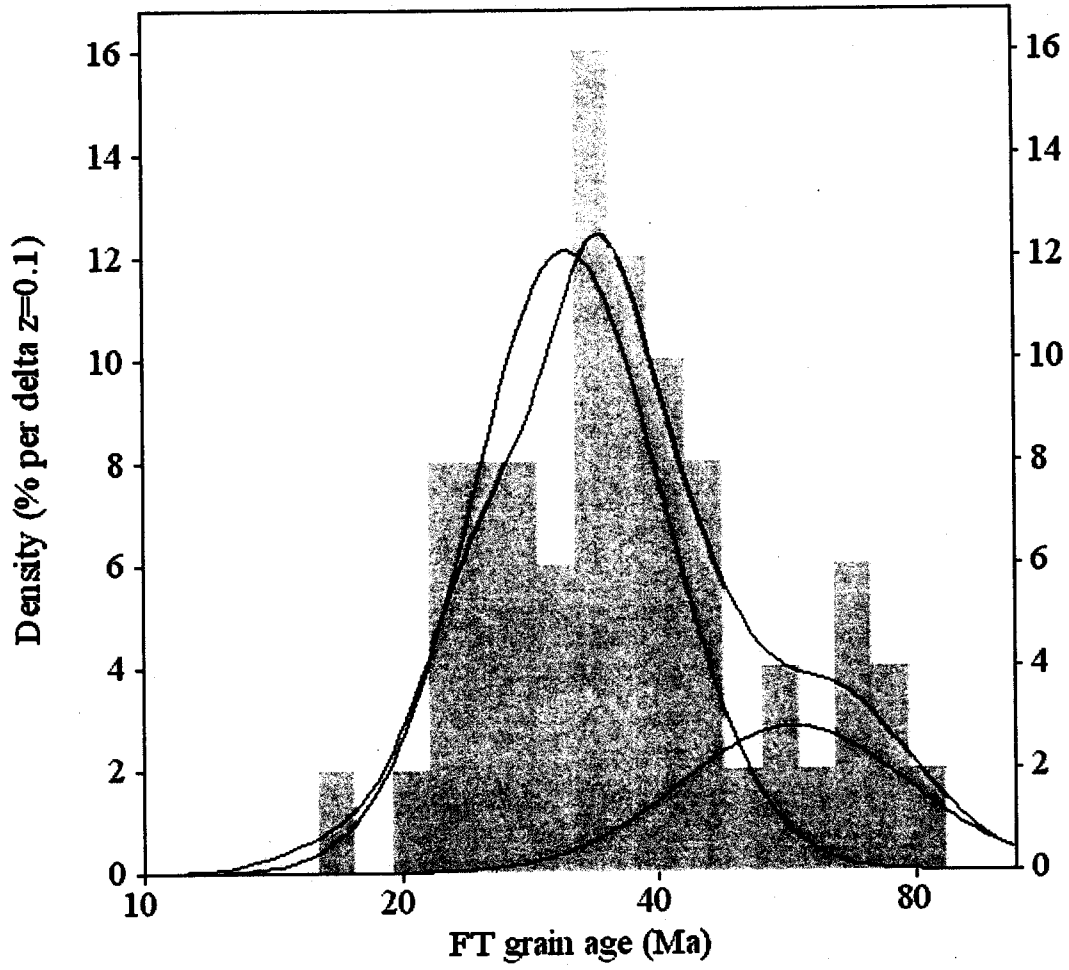
05-03 - Kulthieth Formation, North of Donald Ridge

```
BinomFit for Windows ver.1.0
[03/08/2006 11:46]    Main results
05-03ab, U35Z-47,48
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-03.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 3)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	38.50	0.480	39.9	19.93
2.	54.80	0.569	25.3	12.63
3.	105.00	0.717	5.1	2.53

```
Total range for grain ages:                    19.3  to  108.4 Ma
Number of active grains:                        50
Number of removed grains:                        0
Degrees of freedom for fit:                     45
Average of the SE(Z)'s for the grains:           0.25
Estimated width of peaks in PD plot in Z units: 0.29
```

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 17.1	28.1	-2.5 ...+2.8	-4.7 ...+5.7	0.26	34.2	14.2
2. 29.6	43.5	-3.2 ...+3.4	-6.0 ...+7.0	0.28	59.2	14.1
3. 3.3	97.0	-16.0 ...+19.2	-28.9 ...+41.1	0.31	6.6	4.1

```
Log-likelihood for best fit:          -161.760
Chi-squared value for best fit:         45.437
Reduced chi-squared value:               1.010
Probability for F test:                  0%
Degrees of freedom for fit:             45
Condition number for covar matrix:      60.18
Number of iterations:                   27
```

Probability-Density Plot with Best-Fit Peaks
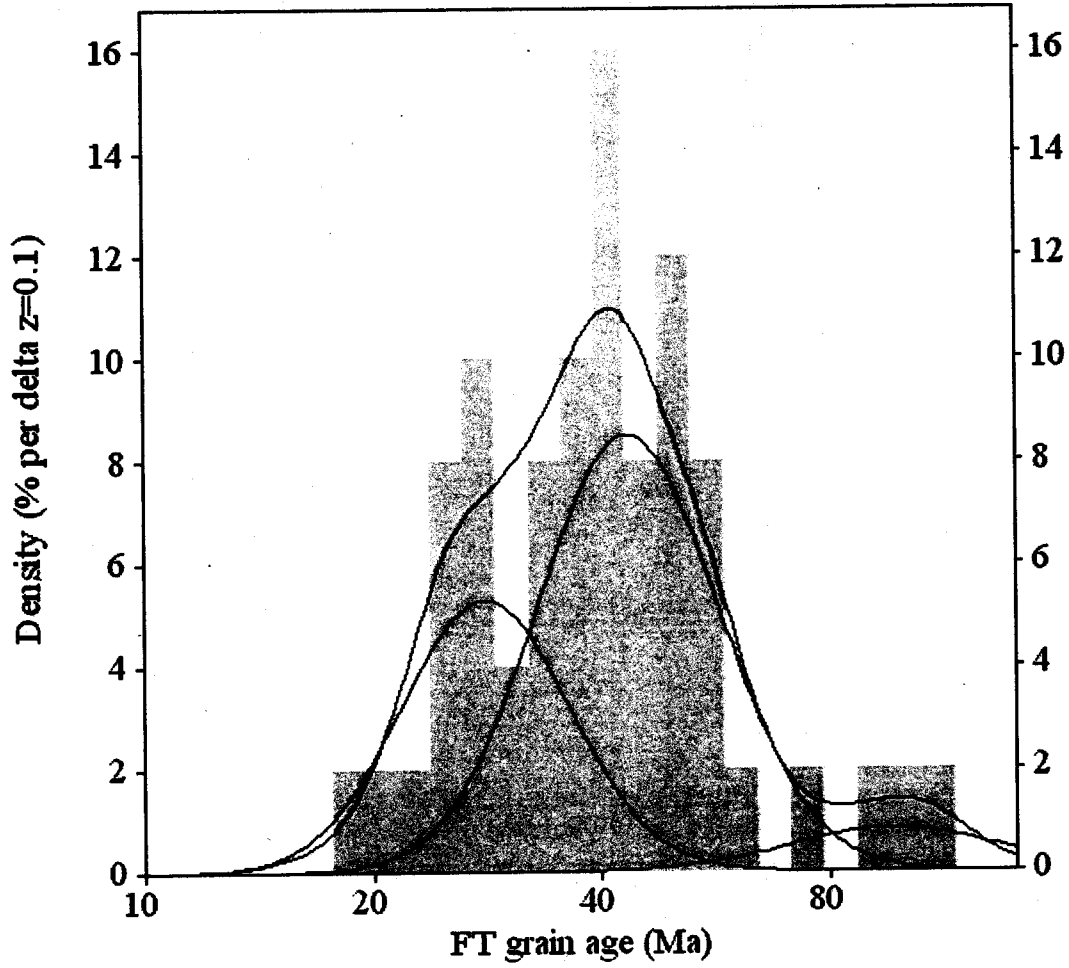
05-04 - Kulthieth Formation, North of Donald Ridge

```
BinomFit for Windows ver.1.0
[03/08/2006 11:49]    Main results
05-04ab, U35Z-49,50
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-04.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 2)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	27.60	0.401	30.7	15.37
2.	37.90	0.479	44.7	22.37

```
Total range for grain ages:                21.2  to  70.4 Ma
Number of active grains:                   50
Number of removed grains:                  0
Degrees of freedom for fit:                47
Average of the SE(Z)'s for the grains:     0.24
Estimated width of peaks in PD plot in Z units: 0.28
```

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

#.	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%	Count
1.	30.8	-3.2 ...+3.6	-6.0 ...+7.4	0.26	41.1	21.9	20.6
2.	44.1	-3.6 ...+3.9	-6.8 ...+8.0	0.27	58.9	21.9	29.4

```
Log-likelihood for best fit:        -154.014
Chi-squared value for best fit:     49.160
Reduced chi-squared value:          1.046
Probability for F test:             0%
Degrees of freedom for fit:         47
Condition number for covar matrix:  23.49
Number of iterations:               18
```

Probability-Density Plot with Best-Fit Peaks
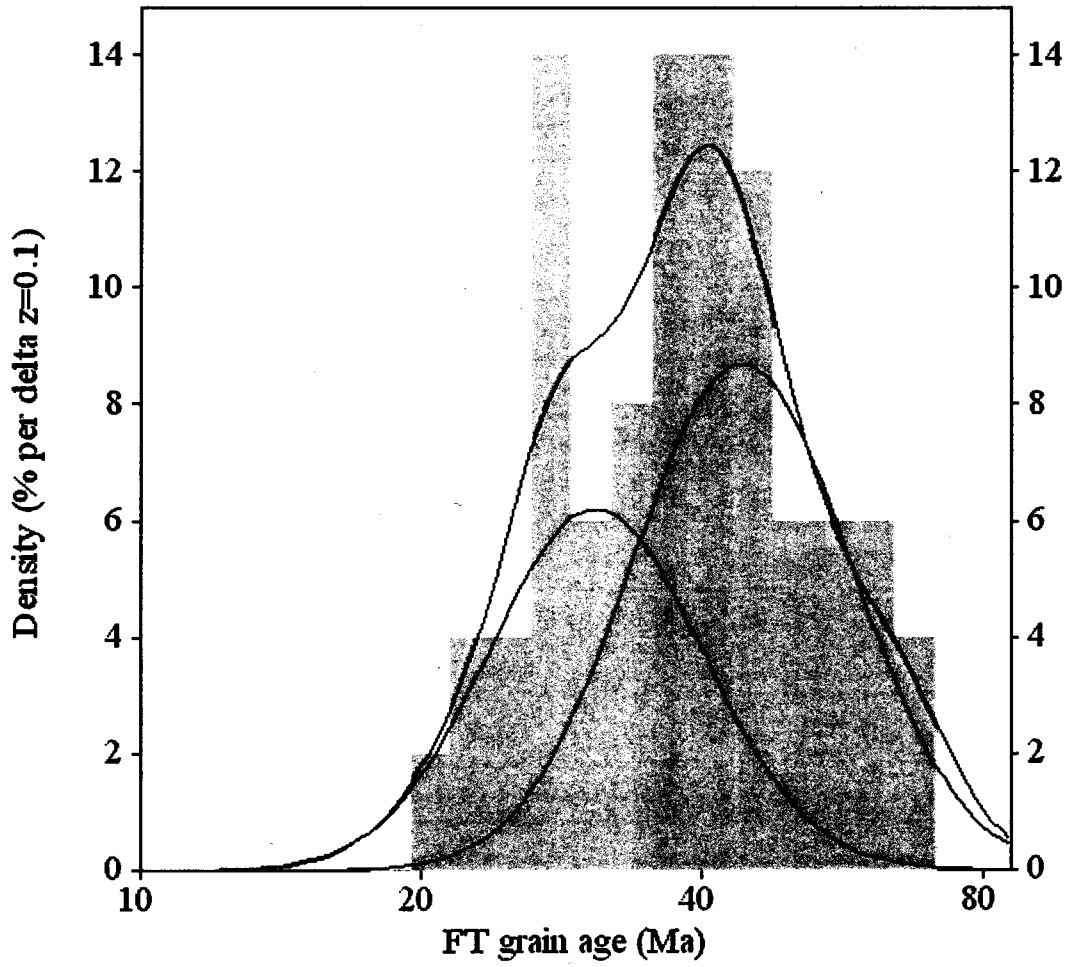
05-06 - Kulthieth Formation, Northern Robinson Mountains

```
BinomFit for Windows ver.1.0
[03/08/2006 11:50]    Main results
05-06a, U35Z-51
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-06a.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 3)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	22.80	0.358	17.7	8.84
2.	36.30	0.471	53.1	26.55
3.	91.10	0.692	4.0	1.99

```
Total range for grain ages:                   14.0  to  91.5 Ma
Number of active grains:                       50
Number of removed grains:                       0
Degrees of freedom for fit:                    45
Average of the SE(Z)'s for the grains:          0.22
Estimated width of peaks in PD plot in Z units: 0.26
```

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 6.3	22.3	-2.8 ...+3.1	-5.1 ...+6.6	0.25	12.6	8.3
2. 41.1	37.5	-1.9 ...+2.0	-3.6 ...+4.0	0.24	82.2	8.7
3. 2.6	80.2	-14.2 ...+17.3	-25.5 ...+37.3	0.27	5.2	3.7

```
Log-likelihood for best fit:        -165.385
Chi-squared value for best fit:       48.539
Reduced chi-squared value:             1.079
Probability for F test:                0%
Degrees of freedom for fit:           45
Condition number for covar matrix:    67.46
Number of iterations:                 10
```

Probability-Density Plot with Best-Fit Peaks
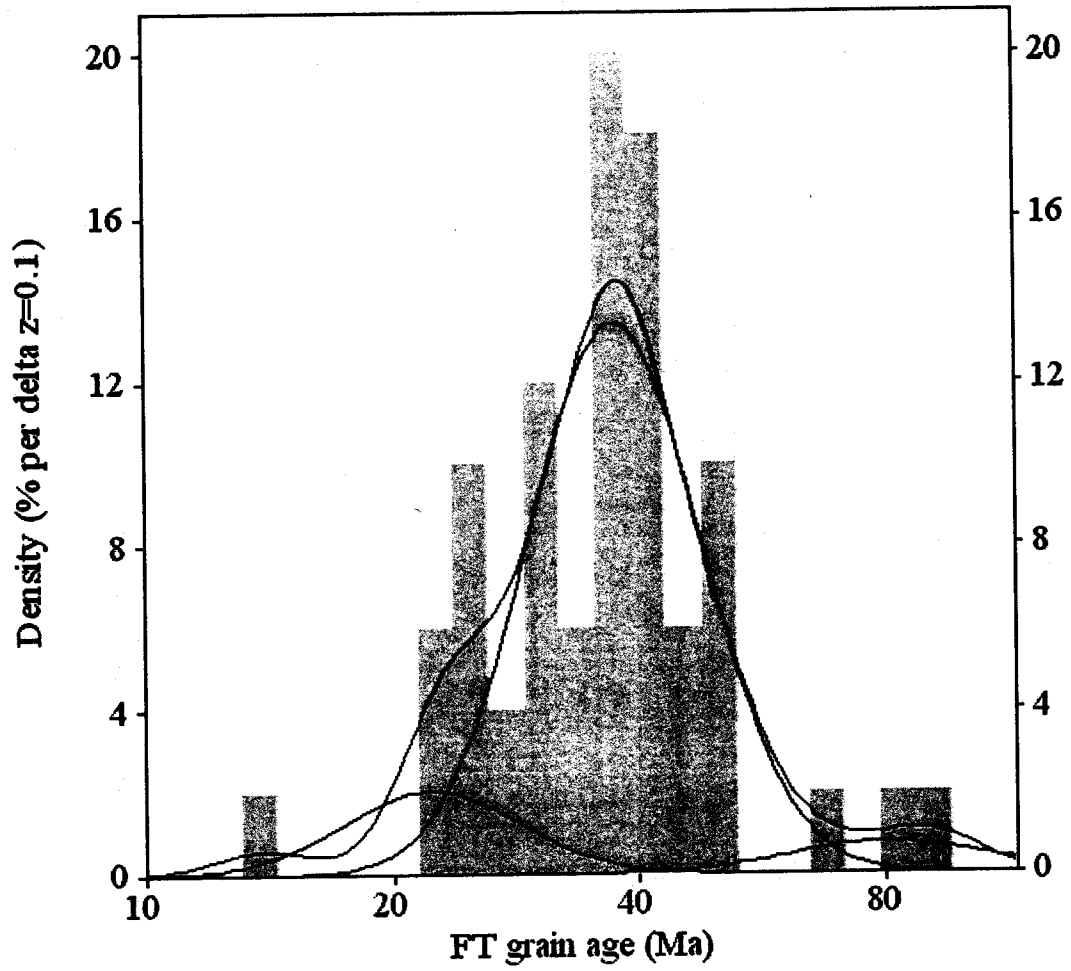
05-07 – Poul Creek Formation, Northern Robinson Mountains

```
BinomFit for Windows ver.1.0
[03/08/2006 11:51]    Main results
05-07ab, U35Z-52,53
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-07.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 3)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	28.30	0.411	35.2	17.58
2.	38.40	0.487	38.4	19.21
3.	84.10	0.675	6.3	3.17

```
Total range for grain ages:                    19.7  to  86.5 Ma
Number of active grains:                        50
Number of removed grains:                        0
Degrees of freedom for fit:                     45
Average of the SE(Z)'s for the grains:          0.24
Estimated width of peaks in PD plot in Z units: 0.29
```

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 19.6	29.0	-3.1 ...+3.5	-5.8 ...+7.3	0.27	39.2	23.9
2. 24.9	42.0	-5.4 ...+6.2	-9.9 ...+13.0	0.26	49.8	21.8
3. 5.5	67.2	-12.0 ...+14.7	-21.6 ...+31.7	0.27	11.0	10.3

```
Log-likelihood for best fit:          -163.449
Chi-squared value for best fit:        47.994
Reduced chi-squared value:              1.067
Probability for F test:                 2%
Degrees of freedom for fit:            45
Condition number for covar matrix:     80.57
Number of iterations:                  10
```

Probability-Density Plot with Best-Fit Peaks
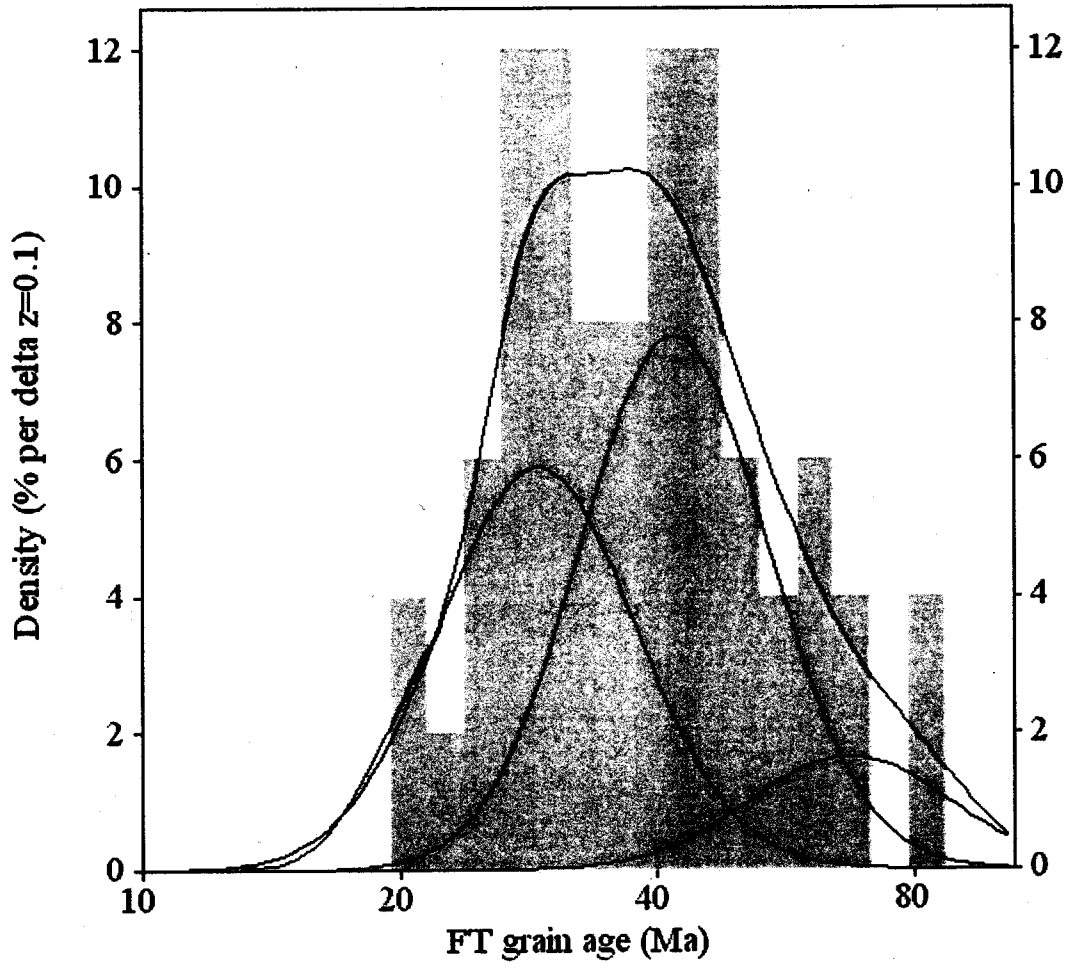
05-08 – Poul Creek Formation, Northern Robinson Mountains

```
BinomFit for Windows ver.1.0
[03/08/2006 11:51]    Main results
05-08ab, U35Z-67,68
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-08.txt


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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 2)


Peak #.  Peak Age    Theta    Fraction,%  Count
-------  --------   --------  ------------ -----
    1.     38.40     0.507         51.0   25.52
    2.     80.40     0.684          3.5    1.77
-------------------------------------------------
Total range for grain ages:              24.6  to  80.4 Ma
Number of active grains:                 50
Number of removed grains:                 0
Degrees of freedom for fit:              47
Average of the SE(Z)'s for the grains:   0.26
Estimated width of peaks in PD plot in Z units: 0.3


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


 #.  Peak,Ma      68%CI            95%CI         W(Z)  Frac,%  SE,%
Count
--- -------  ---------------- ----------------  ------ ------ -----
------
 1.    37.5   -1.9 ...+2.0     -3.7 ...+4.1     0.29    96.0   6.0
48.0
 2.    65.8  -19.5 ...+27.6   -32.7 ...+64.8    0.29     4.0   6.0
2.0
-------------------------------------------------------------------
--------
Log-likelihood for best fit:      -139.614
Chi-squared value for best fit:     42.409
Reduced chi-squared value:           0.902
Probability for F test:             0%
Degrees of freedom for fit:         47
Condition number for covar matrix: 108.00
Number of iterations:                7
```
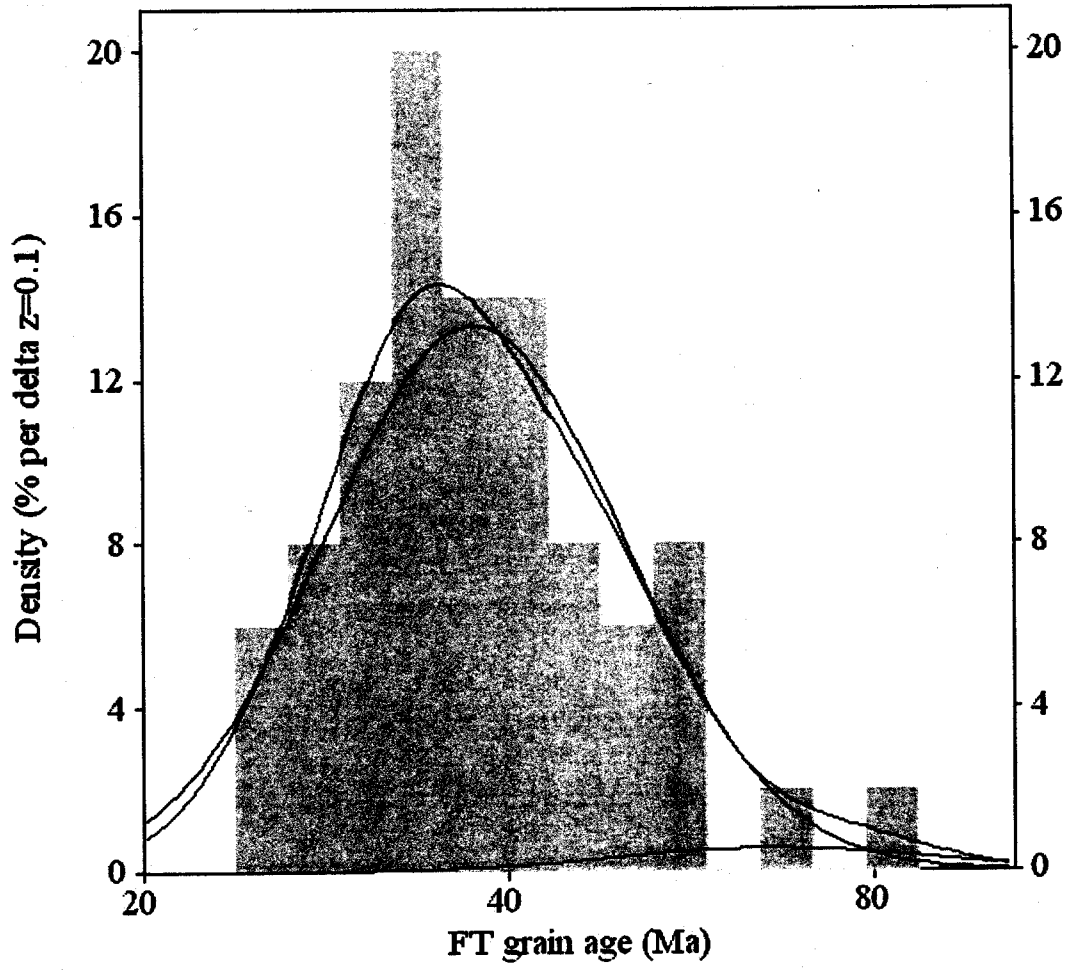
Probability-Density Plot with Best-Fit Peaks

05-09 – Yakataga Formation, Kulthieth Mountain

```
BinomFit for Windows ver.1.0
[03/08/2006 11:52]    Main results
05-09a, U35Z-54
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-09a.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 3)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	24.70	0.381	19.7	9.83
2.	28.90	0.419	16.1	8.06
3.	78.20	0.662	10.9	5.46

```
Total range for grain ages:              6.1  to  113.5 Ma
Number of active grains:                 50
Number of removed grains:                0
Degrees of freedom for fit:              45
Average of the SE(Z)'s for the grains:   0.22
Estimated width of peaks in PD plot in Z units: 0.26
```

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 19.7	16.9	-1.0 ...+1.0	-1.8 ...+2.1	0.22	39.3	8.3
2. 15.1	32.4	-2.6 ...+2.8	-4.9 ...+5.7	0.23	30.2	8.2
3. 15.2	67.8	-4.4 ...+4.7	-8.4 ...+9.6	0.26	30.4	7.2

```
Log-likelihood for best fit:          -207.878
Chi-squared value for best fit:       51.540
Reduced chi-squared value:            1.145
Probability for F test:               1%
Degrees of freedom for fit:           45
Condition number for covar matrix:    6.35
Number of iterations:                 8
```

Probability-Density Plot with Best-Fit Peaks
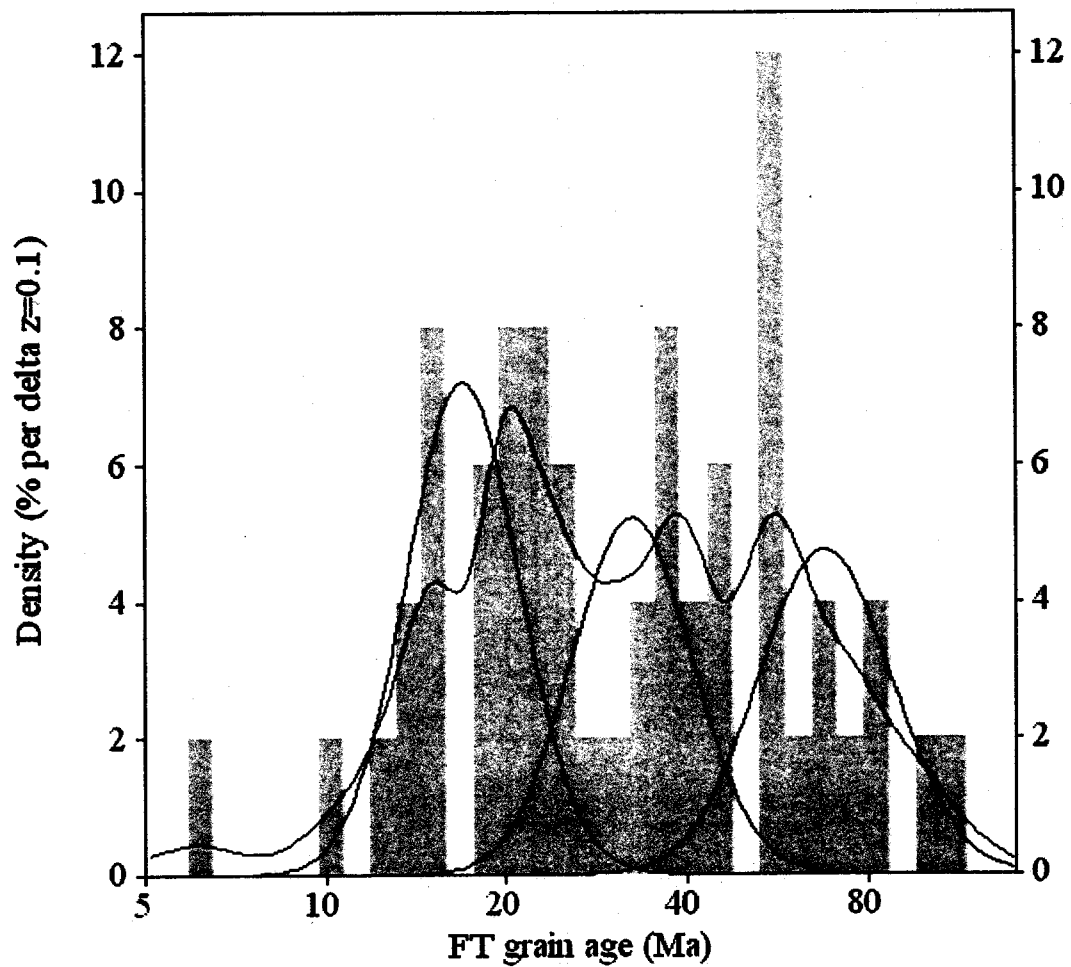
05-10 – Yakataga Formation, Kulthieth Mountain

```
BinomFit for Windows ver.1.0
[03/08/2006 11:52]    Main results
05-10ab, U35Z-55,56
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-10.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 3)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	26.30	0.398	19.8	9.88
2.	42.10	0.515	19.6	9.81
3.	72.30	0.646	15.9	7.96

```
Total range for grain ages:                      8.3  to  90.5 Ma
Number of active grains:                         50
Number of removed grains:                        0
Degrees of freedom for fit:                      45
Average of the SE(Z)'s for the grains:           0.21
Estimated width of peaks in PD plot in Z units:  0.25
```

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 21.7	15.8	-0.9 ...+1.0	-1.7 ...+1.9	0.23	43.5	8.1
2. 19.7	32.8	-2.2 ...+2.3	-4.1 ...+4.7	0.23	39.4	8.1
3. 8.5	72.5	-6.1 ...+6.7	-11.6 ...+13.7	0.25	17.1	5.6

```
Log-likelihood for best fit:        -203.868
Chi-squared value for best fit:     49.912
Reduced chi-squared value:          1.109
Probability for F test:             0%
Degrees of freedom for fit:         45
Condition number for covar matrix:  8.39
Number of iterations:               10
```

Probability-Density Plot with Best-Fit Peaks
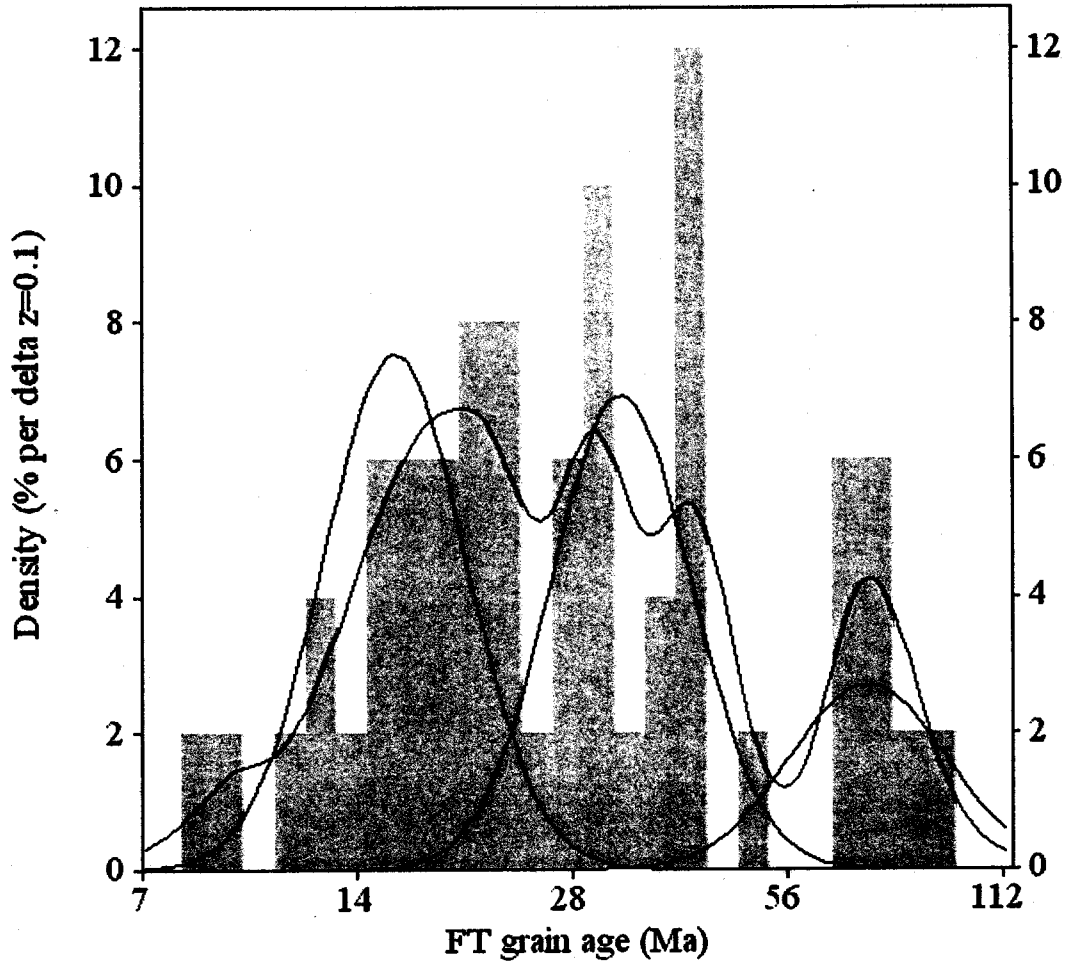
05-11 – Yakataga Formation, Kulthieth Mountain

```
BinomFit for Windows ver.1.0
[03/08/2006 11:52]    Main results
05-11ab, U35Z-57,58
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-11.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 3)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	9.80	0.199	4.6	2.30
2.	25.10	0.388	31.7	15.83
3.	81.60	0.675	7.2	3.60

```
Total range for grain ages:                     4.3  to  113.9 Ma
Number of active grains:                         50
Number of removed grains:                        0
Degrees of freedom for fit:                      45
Average of the SE(Z)'s for the grains:           0.2
Estimated width of peaks in PD plot in Z units:  0.23
```

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 18.7	15.1	-0.8 ...+0.9	-1.6 ...+1.8	0.22	37.4	7.6
2. 24.4	29.8	-1.6 ...+1.6	-3.0 ...+3.3	0.21	48.8	7.9
3. 6.9	71.9	-6.7 ...+7.4	-12.6 ...+15.3	0.24	13.7	5.3

```
Log-likelihood for best fit:            -213.861
Chi-squared value for best fit:         54.465
Reduced chi-squared value:              1.210
Probability for F test:                 0%
Degrees of freedom for fit:             45
Condition number for covar matrix:      8.56
Number of iterations:                   13
```

Probability-Density Plot with Best-Fit Peaks

Density (% per delta z=0.1) vs FT grain age (Ma)
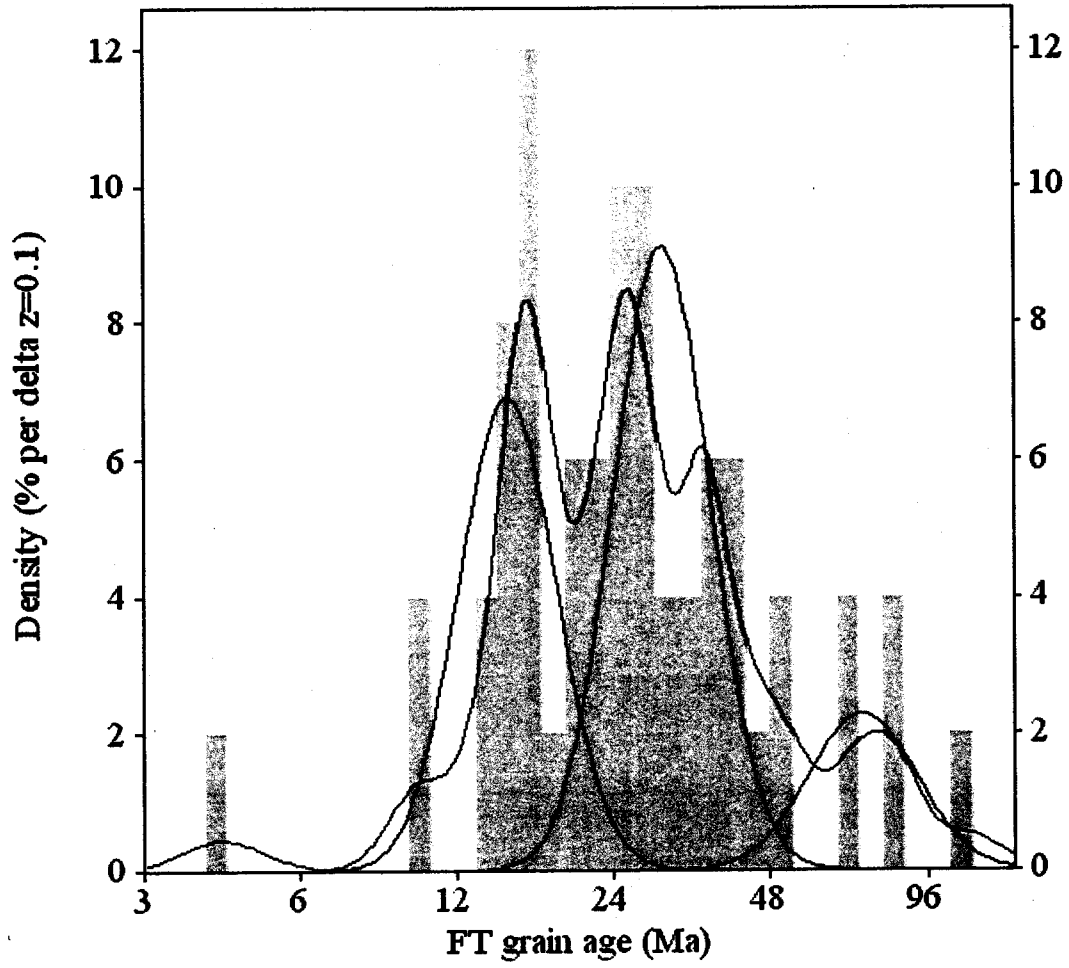
05-12 – Yakataga Formation, Suckling Hills

```
BinomFit for Windows ver.1.0
[03/08/2006 11:53]    Main results
05-12ab, U35Z-59,60
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-12.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 3)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	12.40	0.241	2.8	1.41
2.	16.30	0.294	15.4	7.71
3.	30.90	0.442	39.3	19.67

```
Total range for grain ages:                  12.4  to  113.8 Ma
Number of active grains:                      50
Number of removed grains:                      0
Degrees of freedom for fit:                   45
Average of the SE(Z)'s for the grains:         0.21
Estimated width of peaks in PD plot in Z units: 0.24
```

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 19.4	21.3	-1.6 ...+1.7	-3.0 ...+3.4	0.22	38.7	11.1
2. 24.7	34.8	-2.4 ...+2.6	-4.6 ...+5.3	0.22	49.4	11.0
3. 5.9	76.8	-8.7 ...+9.8	-16.2 ...+20.5	0.24	11.9	5.3

```
Log-likelihood for best fit:        -194.762
Chi-squared value for best fit:      54.099
Reduced chi-squared value:            1.202
Probability for F test:               0%
Degrees of freedom for fit:          45
Condition number for covar matrix:   23.51
Number of iterations:                45
```

Probability-Density Plot with Best-Fit Peaks
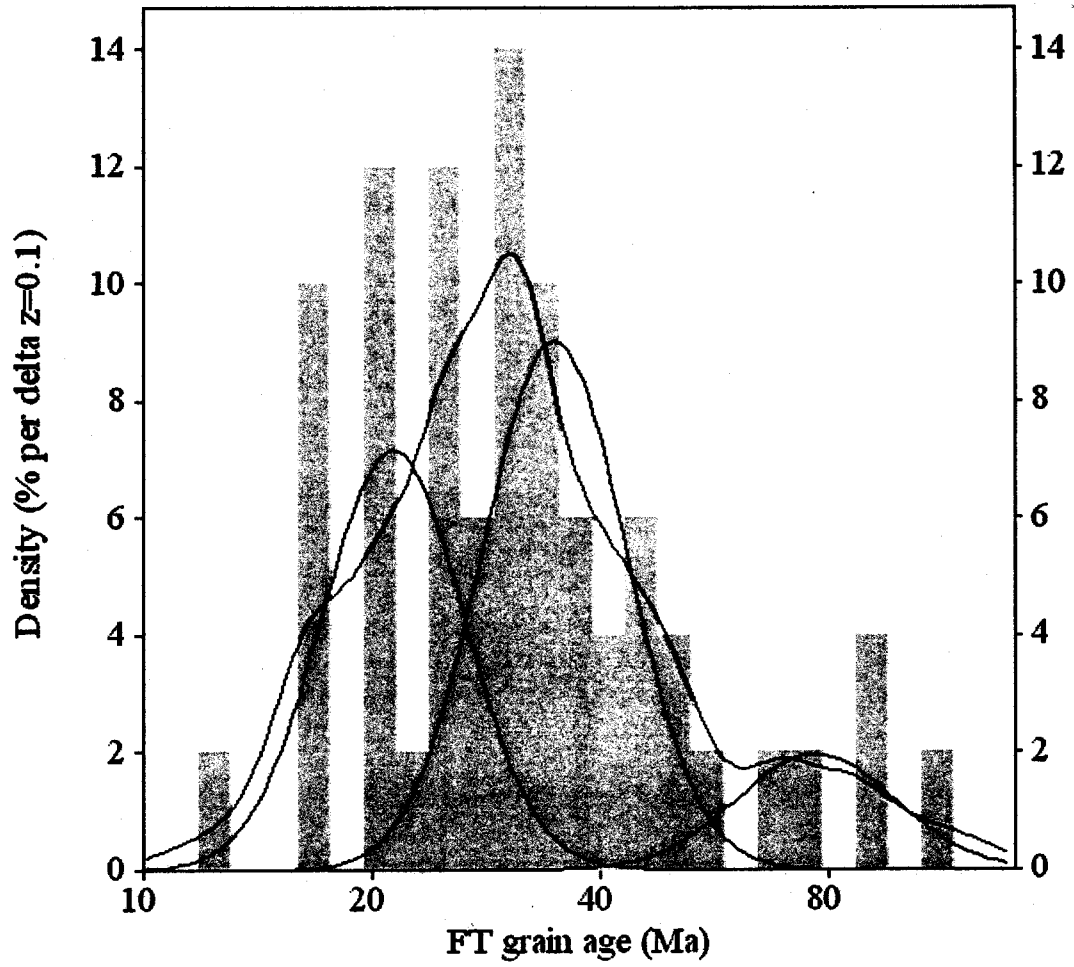
05-13 - Poul Creek Formation, Grindle Hills

```
BinomFit for Windows ver.1.0
[03/08/2006 11:53]    Main results
05-13b, U35Z-62
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-13b.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 2)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	32.40	0.457	39.7	19.87
2.	70.30	0.647	7.9	3.93

```
Total range for grain ages:              17.7  to  73.3 Ma
Number of active grains:                  50
Number of removed grains:                  0
Degrees of freedom for fit:               47
Average of the SE(Z)'s for the grains:    0.23
Estimated width of peaks in PD plot in Z units: 0.27
```
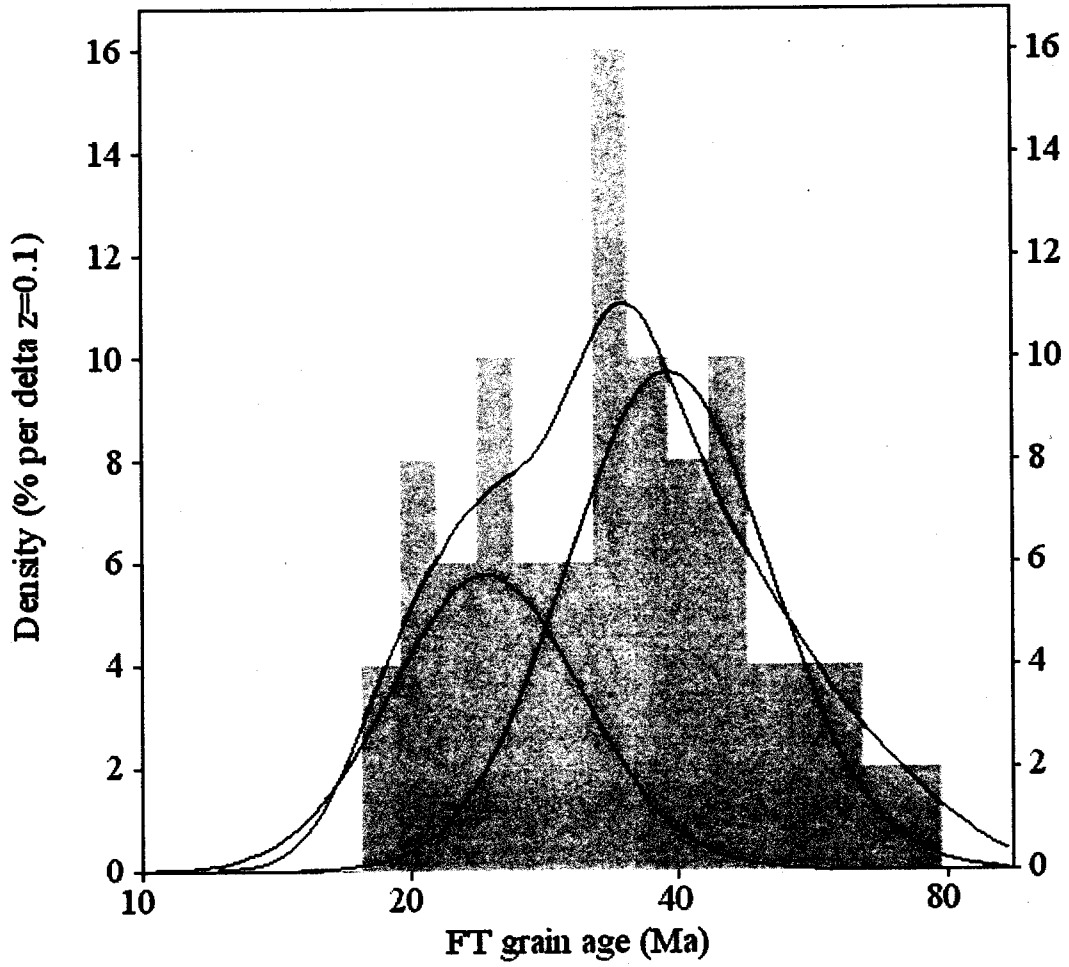
PARAMETERS FOR BEST-FIT PEAKS
*   Standard error for peak age includes group error
*   Peak width is for PD plot assuming a kernel factor = 0.60

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 17.9	24.4	-2.2 ...+2.4	-4.1 ...+4.9	0.25	35.8	12.7
2. 32.1	38.9	-2.6 ...+2.8	-4.9 ...+5.6	0.26	64.2	12.7

```
Log-likelihood for best fit:        -165.005
Chi-squared value for best fit:       56.195
Reduced chi-squared value:             1.196
Probability for F test:               0%
Degrees of freedom for fit:           47
Condition number for covar matrix:    10.44
Number of iterations:                 36
```

Probability-Density Plot with Best-Fit Peaks

Figure axes: vertical axis labeled "Density (% per delta z=0.1)" with values 0, 2, 4, 6, 8, 10, 12, 14, 16 on both left and right sides; horizontal axis labeled "FT grain age (Ma)" with values 10, 20, 40, 80.

05-16 - Poul Creek Formation, Grindle Hills

```
BinomFit for Windows ver.1.0
[03/08/2006 11:54]    Main results
05-16ab, U35Z-63,64
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-16.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 2)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	39.50	0.509	36.4	18.18
2.	82.40	0.684	8.4	4.18

```
Total range for grain ages:                    22.2  to  91.5 Ma
Number of active grains:                       50
Number of removed grains:                      0
Degrees of freedom for fit:                    47
Average of the SE(Z)'s for the grains:         0.25
Estimated width of peaks in PD plot in Z units: 0.29
```

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 29.3	32.6	-2.4 ...+2.6	-4.5 ...+5.3	0.27	58.6	14.8
2. 20.7	54.7	-5.5 ...+6.1	-10.2 ...+12.6	0.29	41.4	14.8

```
Log-likelihood for best fit:          -159.103
Chi-squared value for best fit:       48.820
Reduced chi-squared value:            1.039
Probability for F test:               0%
Degrees of freedom for fit:           47
Condition number for covar matrix:    13.24
Number of iterations:                 23
```

Probability-Density Plot with Best-Fit Peaks
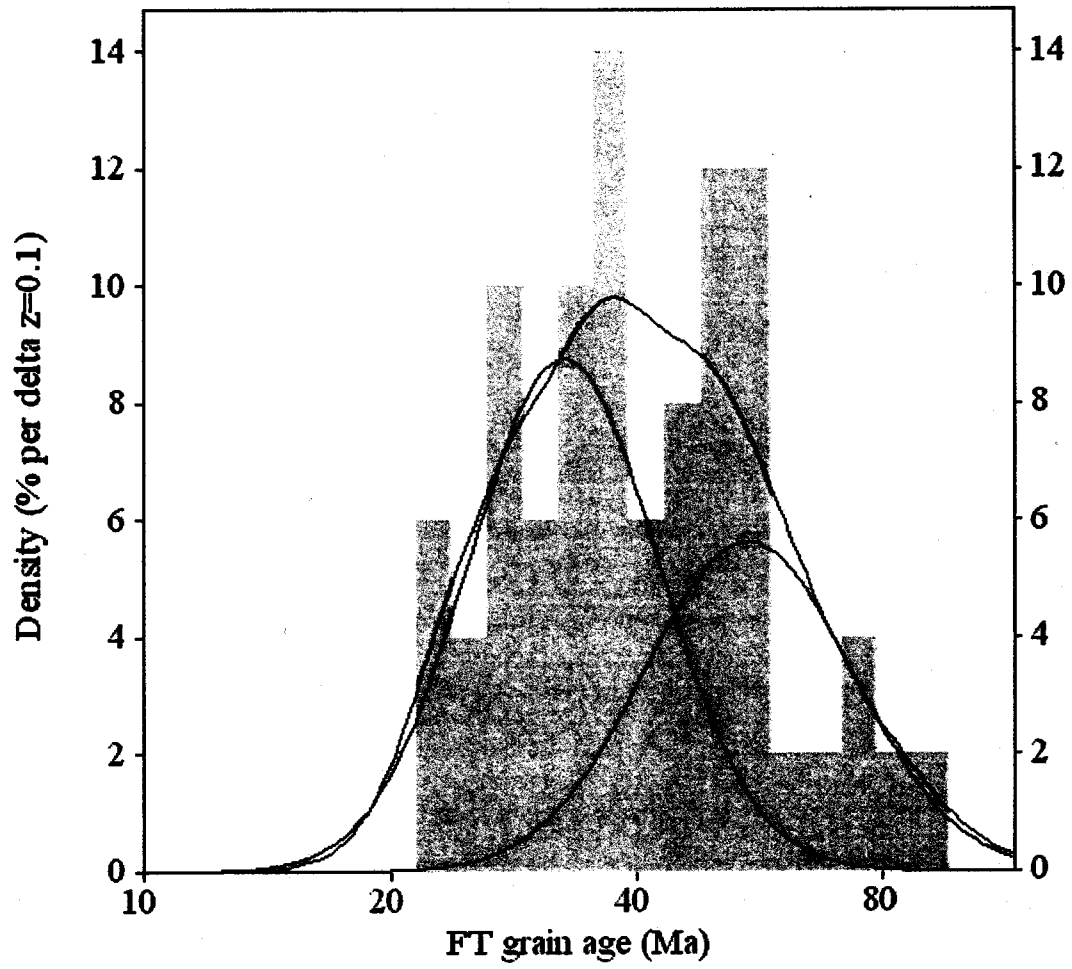
05-17 - Kulthieth Formation, Khitrov Hills

```
BinomFit for Windows ver.1.0
[03/08/2006 11:54]    Main results
05-17ab, U35Z-65,66
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\05-17.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 2)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	32.50	0.462	51.6	25.78
2.	51.20	0.576	21.3	10.66

```
Total range for grain ages:                  18.6  to  66.4 Ma
Number of active grains:                     50
Number of removed grains:                    0
Degrees of freedom for fit:                  47
Average of the SE(Z)'s for the grains:       0.26
Estimated width of peaks in PD plot in Z units: 0.3
```
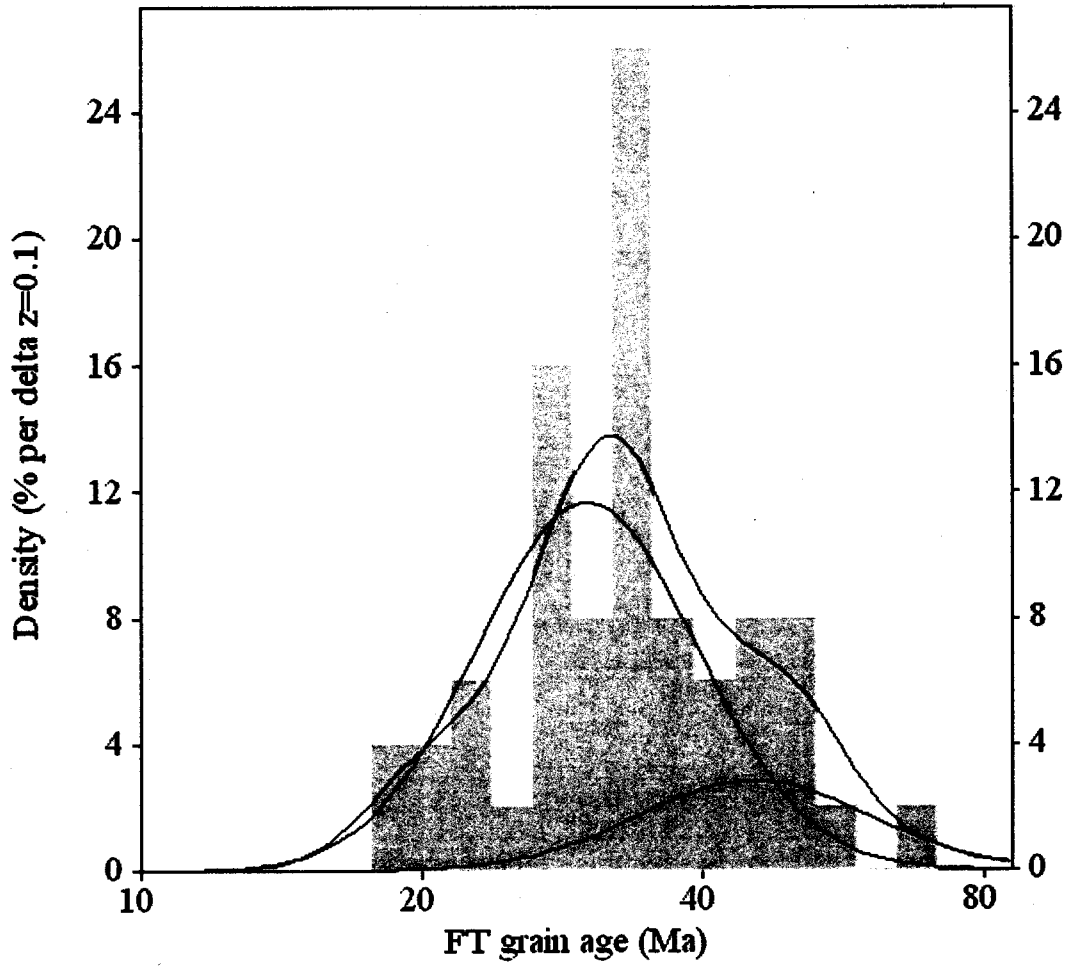
PARAMETERS FOR BEST-FIT PEAKS
*   Standard error for peak age includes group error
*   Peak width is for PD plot assuming a kernel factor = 0.60

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 39.9	30.1	-1.8 ...+1.9	-3.4 ...+3.9	0.27	79.8	15.2
2. 10.1	45.3	-6.3 ...+7.3	-11.5 ...+15.3	0.29	20.2	15.2

```
Log-likelihood for best fit:        -148.615
Chi-squared value for best fit:     46.771
Reduced chi-squared value:          0.995
Probability for F test:             0%
Degrees of freedom for fit:         47
Condition number for covar matrix:  23.69
Number of iterations:               6
```

Probability-Density Plot with Best-Fit Peaks

KA 1 - Kaliakh River

```
BinomFit for Windows ver.1.0
[03/08/2006 11:56]    Main results
KA-1ab, U35Z-36,37
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\KA-1.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 2)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	38.90	0.470	38.1	19.05
2.	64.00	0.593	24.6	12.29

```
Total range for grain ages:              21.8  to  79.9 Ma
Number of active grains:                 50
Number of removed grains:                0
Degrees of freedom for fit:              47
Average of the SE(Z)'s for the grains:   0.22
Estimated width of peaks in PD plot in Z units: 0.26
```
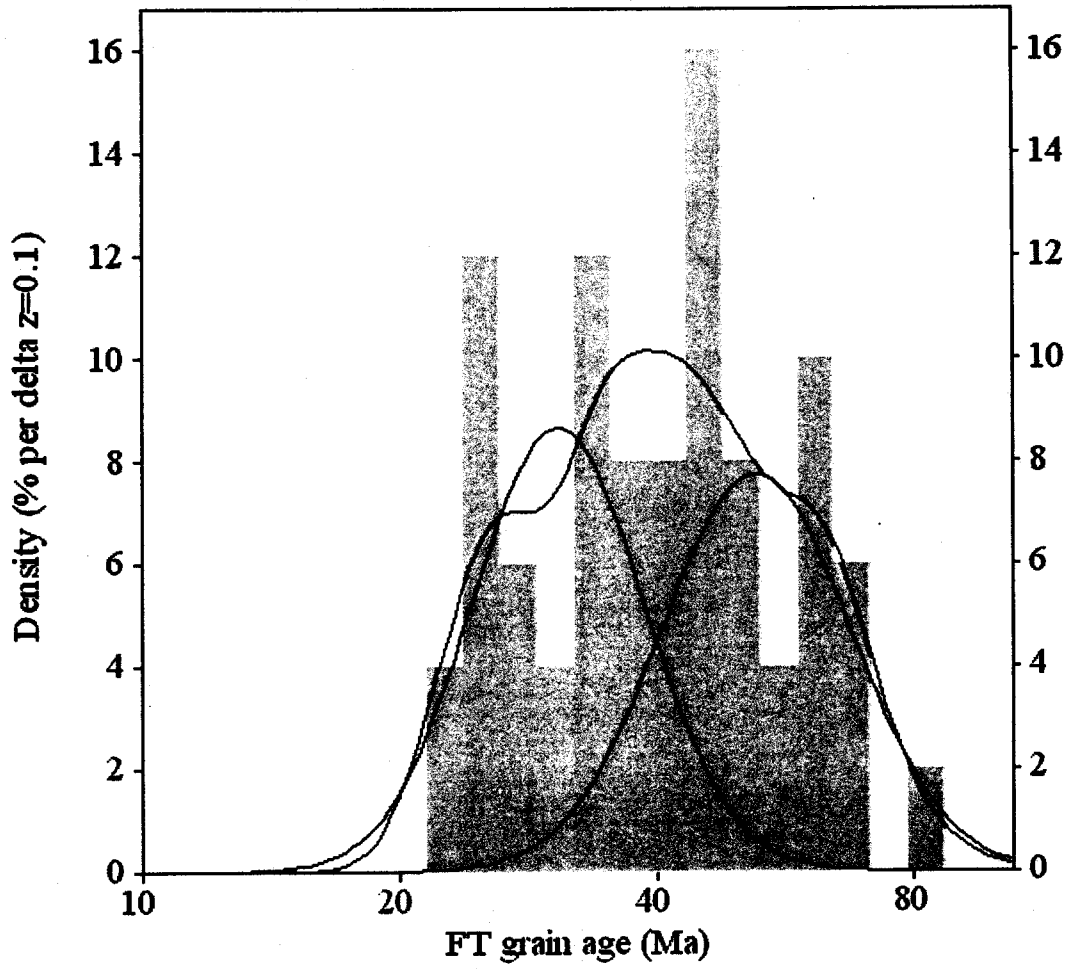
PARAMETERS FOR BEST-FIT PEAKS
*   Standard error for peak age includes group error
*   Peak width is for PD plot assuming a kernel factor = 0.60

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 25.1	30.7	-2.0 ...+2.1	-3.7 ...+4.2	0.23	50.3	12.1
2. 24.9	52.3	-3.8 ...+4.0	-7.1 ...+8.2	0.26	49.7	12.1

```
Log-likelihood for best fit:       -170.174
Chi-squared value for best fit:    47.947
Reduced chi-squared value:         1.020
Probability for F test:            0%
Degrees of freedom for fit:        47
Condition number for covar matrix: 9.64
Number of iterations:              18
```

Probability-Density Plot with Best-Fit Peaks

KL 2 - Kulthieth River

BinomFit for Windows ver.1.0
[03/08/2006 11:57]   Main results
KL-2ab, U35Z-38,39
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\KL-2.txt

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 2)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	37.30	0.461	40.4	20.18
2.	69.70	0.616	17.2	8.61

|	
Total range for grain ages:	22.0 to 77.3 Ma
Number of active grains:	50
Number of removed grains:	0
Degrees of freedom for fit:	47
Average of the SE(Z)'s for the grains:	0.22
Estimated width of peaks in PD plot in Z units:	0.25

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 32.4	32.1	-1.5 ...+1.6	-2.9 ...+3.2	0.22	64.7	10.6
2. 17.6	56.4	-4.8 ...+5.3	-9.0 ...+10.8	0.26	35.3	10.6

Log-likelihood for best fit:	-171.332
Chi-squared value for best fit:	45.991
Reduced chi-squared value:	0.979
Probability for F test:	0%
Degrees of freedom for fit:	47
Condition number for covar matrix:	12.34
Number of iterations:	14

Probability-Density Plot with Best-Fit Peaks

Density (% per delta z=0.1) vs. FT grain age (Ma)
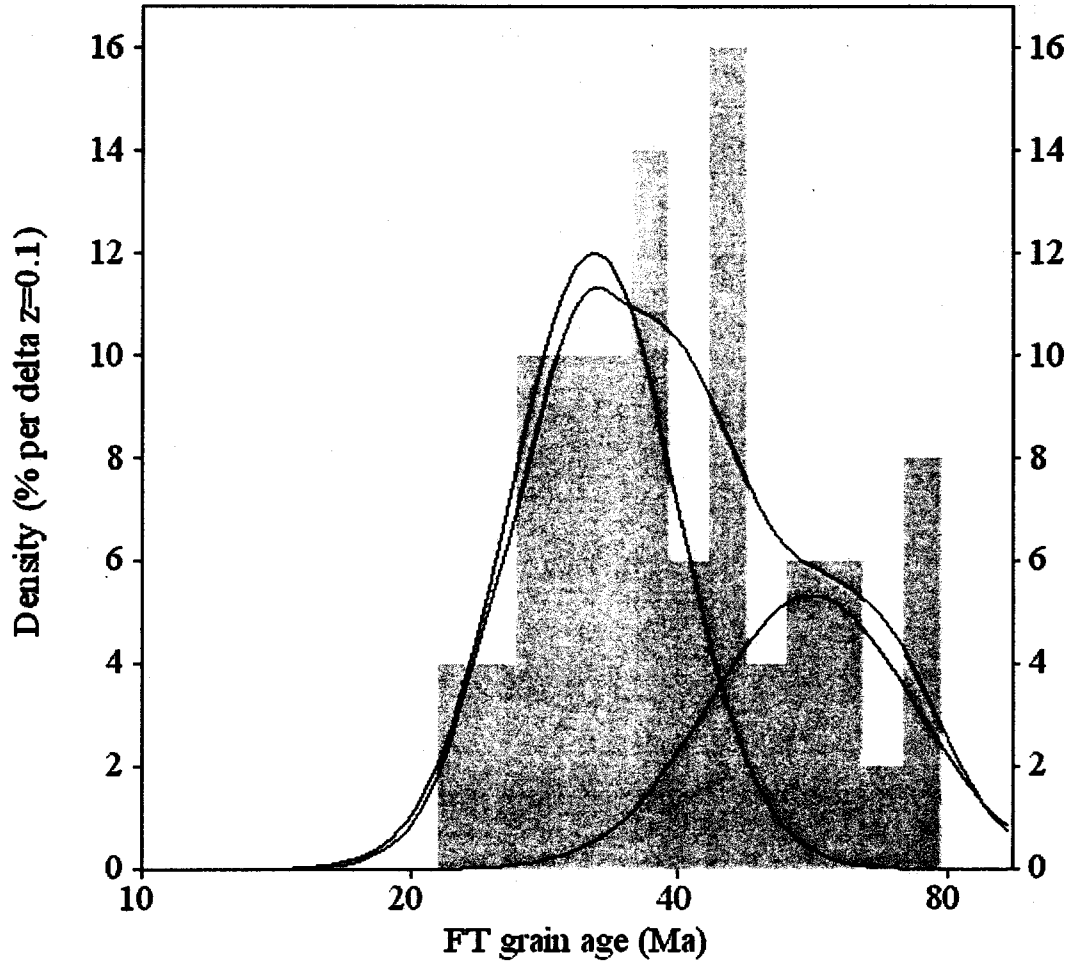
DK 3 - Duktoth River

```
BinomFit for Windows ver.1.0
[03/08/2006 11:56]    Main results
DK-3a, U35Z-40
File: C:\Documents and Settings\John
Garver\Desktop\FT\SEP\Alaska\Alaska\DK-3a.txt
```

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

INITIAL GUESS FOR MODEL PARAMETERS (number of peaks to fit = 3)

Peak #.	Peak Age	Theta	Fraction,%	Count
1.	19.20	0.308	8.5	4.24
2.	25.10	0.368	9.4	4.69
3.	38.70	0.473	43.9	21.97

```
Total range for grain ages:                       15.7  to  77.8 Ma
Number of active grains:                          50
Number of removed grains:                         0
Degrees of freedom for fit:                       45
Average of the SE(Z)'s for the grains:            0.21
Estimated width of peaks in PD plot in Z units:   0.24
```

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

#. Count	Peak,Ma	68%CI	95%CI	W(Z)	Frac,%	SE,%
1. 4.4	19.5	-2.4 ...+2.7	-4.4 ...+5.7	0.24	8.8	4.6
2. 18.3	34.8	-3.4 ...+3.8	-6.3 ...+7.7	0.22	36.6	22.0
3. 27.3	46.7	-3.5 ...+3.8	-6.6 ...+7.7	0.23	54.6	22.4

```
Log-likelihood for best fit:          -171.433
Chi-squared value for best fit:       48.404
Reduced chi-squared value:            1.076
Probability for F test:               0%
Degrees of freedom for fit:           45
Condition number for covar matrix:    36.16
Number of iterations:                 37
```

Probability-Density Plot with Best-Fit Peaks