

Apatite Fission-Track Results From The Region of The Pebble Deposit, Southwest Alaska

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1. Introduction and Data Summary

1.1. General

The Pebble deposit, in southwest Alaska, is one of the largest porphyry deposits in the world with measured and indicated resources of 67 million ounces of gold, 55 billion pounds of copper, and 3.3 billion pounds of molybdenum (Northern Dynasty Minerals; <http://www.northerndynastyminerals.com/ndm/NewsReleases.asp>). However, little is known about the Pebble deposit besides the age of mineralization, the types of alteration and mineralization assemblages present, and a generalized geologic model for the area by Northern Dynasty Minerals.

In order to better understand the formation of the Pebble deposit, this study was designed to produce apatite fission-track (AFT) data used to constrain the low-temperature thermal history of the region hosting the deposit. Funded by the Mineral Resources External Research Program (Grant #08HQGR0061), 67 samples for AFT analysis were collected during the summer of 2008. This report presents the analytical results of those analyses, as well as thermal-history interpretations for each sample.

These results provide information on the timing of pre- and post-mineralization faulting and uplift/exhumation, and how these factors controlled formation and preservation of the deposit. In particular, the thermal histories presented here characterize the regional thermal history of rocks both away from, and within areas of known porphyry mineralization. Comparison between these results will constrain different models of local porphyry preservation within the tectonically active region.

1.2. Sample Listing

Table 1.1 presents location information for each of the 67 samples collected for analysis, including latitude and longitude, and elevation/depth. **Table 1.2** contains a listing of the sample apatite yields available for analysis, as well as the number of grain mounts prepared for each sample, and the quality of the data obtained.

1.3. Fission-Track Data Interpretation

The geological history implications of the apatite fission-track data are summarized in **Table 1.3**. The apatite fission-track age analytical results are presented in **Table 1.4**. The apatite fission-track length analytical results are presented in **Table 1.5**.

Following the tables, the model results generated using the quantitative modeling program HeFTy are presented for each of the samples. As described in **Appendix B**, it is possible to test alternative thermal histories for each sample while maintaining these results as a background for guidance. HeFTy (©2008 Apatite to Zircon, Inc. and Richard A. Ketcham) implements various laboratory calibrations for both: 1) the behavior of fission tracks in apatite (apatite fission-track analysis - AFT), and 2) He diffusion in apatite (apatite uranium-thorium/helium analysis – AHe) in response to heating and cooling histories. Full details concerning these calibrations and the various uses of HeFTy (and its predecessor AFTSolve) are publicly available (Carlson et al., 1999; Donelick et al., 1999; Ketcham et al., 1999; Farley, 2000; Ketcham et al., 2000; Donelick et al., 2005; Ketcham et al., 2005; Shuster et al., 2006; Ketcham et al., 2007).

For each sample modeled, fission-track ages and track length distributions were calculated for a series of 10,000-20,000 randomly generated temperature histories. These randomly generated temperature histories were constrained to be geologically reasonable, where possible, by independently known information such as the stratigraphic age and present-day geological temperature for each sample. Statistics were used to gauge how well the original data and the model results match (for details of this approach see Ketcham et al., 2000, and Ketcham et al., 2005). This resulted in a “goodness-of-fit” (GOF) evaluation for both the age and length data. A temperature history was deemed acceptable (i.e., *Acceptable Fit*; solutions within the green band) when both the model fission-track age and the model fission track length distribution matched their measured counterparts with a level of confidence of 0.05 or greater ($GOF \geq 0.05$). A temperature history was deemed good (i.e., *Good Fit*; solutions within the red band) when both the model fission-track age and model fission-track length distribution matched their measured counterparts with a level of confidence of 0.50 or greater ($GOF \geq 0.50$). A useful way to think of these relative degrees of fitting is that a *Good Fit* implies the time-temperature path is supported by the data, while an *Acceptable Fit* time-temperature path is not ruled out by the data.

Vitrinite reflectance equivalent values were calculated using the EasyRo method of Sweeney and Burnham (1990) for each temperature history generated. Only the burial and exhumation segments of the overall temperature history were used to estimate expected vitrinite reflectance values; the provenance segment of each temperature history is ignored for this calculation.

Table 1.1. Location information for the samples submitted for analysis.

Sample Number	Sample Information	Latitude (°N)	Longitude (°W)	Elevation / Depth (m)
Pebble Region				
950-01	Kuskokwim Group	60.8308	155.0708	810
950-02	Kuskokwim Group	60.7035	154.9913	520
950-03	Tert-Cret Monzonite	60.5073	155.0493	970
950-04	Koksetna River	60.4482	155.0512	910
950-05	Tert-Cret Monzonite	60.4987	154.8260	1050
950-06	Koksetna River	60.4385	154.7273	930
950-07	Koksetna River	60.5388	154.4733	930
950-08	Tert-Cret Monzonite	60.4433	154.5903	980
950-09	Tert-Cret Diorite	60.3167	154.9578	900
950-10	Tert-Cret Diorite	60.2768	154.8415	930
950-11	Tertiary Volcanics	60.1512	154.7775	780
950-12	Tert-Cret Monzonite	60.3465	154.5445	1100
950-13	Tert-Cret Granite	60.3063	154.4401	940
950-14	Tert-Cret Granite	60.3145	154.3647	895
950-15	Tert-Cret Monzonite	60.2953	154.4948	1030
950-16	Tertiary Granite	60.1001	154.1153	1450
950-17	Tertiary Granite	60.0128	154.0998	1200
950-18	Tallkeetna Formation	59.959	154.2353	750
950-19	Tallkeetna Formation	59.9598	154.2348	740
950-20	Tert-Cret Granodiorite	59.9035	154.2155	770
950-21	Cretaceous Monzonite	59.8435	154.1997	830
950-22	Cretaceous Monzonite	59.7822	154.3982	50
950-23	Tertiary Intrusive	59.834	154.6353	730
950-24	Tertiary Intrusive	59.9558	154.6325	640
950-25	Tallkeetna Formation	59.9601	154.6401	645
950-26	Tallkeetna Formation	60.0142	154.5957	630
950-27	Koksetna River	59.9932	154.5367	360
950-28	Tallkeetna Formation	60.0633	154.5067	920
950-29	Tertiary Granodiorite	60.5213	153.6697	800
950-30	Cret. Granodiorite	60.4882	153.6022	990
950-31	Cret. Granodiorite	60.4625	153.4437	840
950-32	Tert-Cret Syenite	60.0133	155.3722	400
950-33	Koksetna River	60.1925	155.2834	570
950-34	Tert-Cret Granodiorite	60.167	155.1325	435
950-35	Koksetna River	60.2081	155.0144	610
950-36	Tert-Cret Granodiorite	60.2265	154.9227	400
950-37	Tert-Cret Granite	59.6157	156.2235	484
950-38	Tert-Cret Monzonite	59.8208	156.1766	525

950-39	Tert-Cret Granite	59.6814	156.4965	312
950-40	Tert-Cret Monzonite	59.6747	156.6043	357
950-41	Tert-Cret Granodiorite	60.3701	155.7971	750
950-42	Tert-Cret Granodiorite	60.2971	155.4471	315
950-43	Tert-Cret Syenite	59.893	156.1910	200
950-44	Koksetna River	59.6408	155.9401	210
950-45	Tert-Cret Monzonite	59.8001	156.0810	530
950-46	Kuskokwim Group	59.98	156.3300	390
950-47	Koksetna River	59.9601	155.9731	370
950-48	Cret. Granodiorite	59.8421	155.5297	680
950-49	Cret. Granodiorite	59.91	155.4990	740
950-50	Tertiary Volcanics	59.8902	155.2190	450
950-51	Pebble Deposit	Hole 7362		-215
950-52	Pebble Deposit	Hole 7362		-664
950-53	Pebble Deposit	Hole 7362		-1321
950-54	Pebble Deposit	Hole 7359		-436
950-55	Pebble Deposit	Hole 7359		-692
950-56	Pebble Deposit	Hole 7359		-1173
950-57	Pebble Deposit	Hole 6347		-387
950-58	Pebble Deposit	Hole 6347		-512
950-59	Pebble Deposit	Hole 6347		-1346
950-60	Pebble Deposit	Hole 6347		-1629
950-61	Pebble Deposit	Hole 6343		-288
950-62	Pebble Deposit	Hole 6343		-760
950-63	Pebble Deposit	Hole 6343		-1450
950-64	MzPz	60.3096	154.5459	1084
950-65	MzPz	60.3162	154.5439	863
950-66	Tlikalia	60.2129	154.1319	unknown
950-67	Tlikalia	60.4114	153.8751	unknown

Table 1.2. Listing of the apatite yields and data quality for each sample.

Sample Number	Apatite Observed	Grain Mounts Prepared	Apatite Quality 1=poor 10=excellent	Data Quality 1=poor 10=excellent
Pebble Region				
950-01	100's	2	3	7
950-02	100's	2	2	6
950-03	1000s	2	4	7
950-04	1000s	2	5	8
950-05	1000s	2	4	7
950-06	1000s	2	5	8
950-07	1000s	2	4	6
950-08	100s	2	Not Dateable	NA
950-09	1000s	2	7	10
950-10	1000s	2	8	10
950-11	100s	2	Not Dateable	NA
950-12	1000s	2	2	6
950-13	100s	2	3	5
950-14	<40	2	2	3
950-15	1000s	2	6	9
950-16	1000s	2	5	8
950-17	1000s	2	2	6
950-18	Low 10s	2	1	2
950-19	Low 10s	2	2	2
950-20	1000s	2	8	10
950-21	100s	2	5	4
950-22	1000s	2	3	6
950-23	1000s	2	3	6
950-24	1000s	2	2	5
950-25	1000s	2	2	7
950-26	Low 10s	2	1	4
950-27	1000s	2	3	6
950-28	1000s	2	7	9
950-29	1000s	2	3	6
950-30	1000s	2	5	7
950-31	100s	2	8	10
950-32	1000s	2	6	9
950-33	1000s	2	0	2
950-34	1000s	2	5	7
950-35	1000s	2	4	6
950-36	1000s	2	6	8
950-37	1000s	2	4	6

950-38	1000s	2	2	7
950-39	1000s	2	8	10
950-40	1000s	2	7	9
950-41	1000s	2	3	7
950-42	1000s	2	6	9
950-43	1000s	2	5	7
950-44	1000s	2	2	5
950-45	1000s	2	4	7
950-46	Low 10's	2	2	6
950-47	1000s	2	4	7
950-48	1000s	2	7	10
950-49	1000s	2	5	8
950-50	1000s	2	6	9
950-51	1000s	2	7	10
950-52	1000s	2	7	10
950-53	1000s	2	7	10
950-54	High 10s	2	7	10
950-55	Low 100s	2	1	3
950-56	Low 100s	2	2	4
950-57	Low 10's	2	1	3
950-58	1000s	2	8	10
950-59	Low 100's	2	2	4
950-60	100s	2	2	5
950-61	1000s	2	8	10
950-62	10s	2	4	7
950-63	100s	2	2	5
950-64	1000s	2	7	10
950-65	1000s	2	4	6
950-66	Low 10's	2	1	4
950-67	100s	2	4	8

Table 1.3. Geological history implications of the fission-track data.

Sample Number	Timing of Initiation of Uplift/Cooling (Ma $\pm 2\sigma$)	Thermal History Following Primary Cooling Episode	EasyRo (%)
Pebble			
950-01	Dpar (μm)=1.77: $\geq 57.0 \pm 11.6$ Ma	Remained at low temperatures since rapid cooling in the Paleocene-Eocene	$>0.72 \pm 0.01\%$ (post deposition)
950-02	Dpar (μm)=1.68: $\geq 49.7 \pm 8.7$ Ma	Remained at low temperatures since rapid cooling in the Eocene	$>0.73 \pm 0.01\%$ (post deposition)
950-03	Dpar (μm)=1.68: $\geq 38.6 \pm 6.2$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-04	Dpar (μm)=2.18: $\geq 63.6 \pm 11.5$ Ma	Remained at low temperatures since rapid cooling in the Paleocene	$>0.72 \pm 0.01\%$ (post deposition)
950-05	Dpar (μm)=1.70: $\geq 43.6 \pm 6.8$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-06	Dpar (μm)=2.11: $\geq 46.2 \pm 7.4$ Ma Dpar (μm)=2.53: $\geq 59.6 \pm 25.4$ Ma	Remained at low temperatures since rapid cooling in the Eocene	$>0.67 \pm 0.01\%$ (post deposition)
950-07	Dpar (μm)=2.32: $\geq 23.9 \pm 5.1$ Ma	Remained at low temperatures since rapid cooling in the Miocene	$>0.70 \pm 0.01\%$ (post deposition)
950-09	Dpar (μm)=2.04: $\geq 53.8 \pm 11.5$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-10	Dpar (μm)=1.72: $\geq 35.3 \pm 7.6$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-12	Dpar (μm)=1.72: $\geq 28.1 \pm 4.9$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-13	Dpar (μm)=1.39: $\geq 23.4 \pm 5.1$ Ma	Remained at low temperatures since rapid cooling in the Miocene	Not Applicable
950-14	Dpar (μm)=1.34: $\geq 42.3 \pm 9.0$ Ma Dpar (μm)=2.20: $\geq 63.9 \pm 17.6$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-15	Dpar (μm)=1.60: $\geq 37.4 \pm 6.2$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-16	Dpar (μm)=1.79: $\geq 20.8 \pm 4.0$ Ma	Remained at low temperatures since rapid cooling in the Miocene	Not Applicable
950-17	Dpar (μm)=1.61: $\geq 20.0 \pm 4.2$ Ma	Remained at low temperatures since rapid cooling in the Miocene	Not Applicable
950-18	Dpar (μm)=1.52: $\geq 50.9 \pm 11.6$ Ma	Remained at low temperatures since rapid cooling in the Eocene with possible minor recent cooling	$>0.69 \pm 0.01\%$ (post deposition)

950-19	Dpar (μm)=1.72: $\geq 65.8 \pm 22.4$ Ma	Remained at low temperatures since rapid cooling in the Paleocene with possible minor recent cooling	$>0.68 \pm 0.01\%$ (post deposition)
950-20	Dpar (μm)=1.64: $\geq 29.4 \pm 4.1$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-21	Dpar (μm)=1.37: $\geq 42.2 \pm 3.9$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-22	Dpar (μm)=1.70: $\geq 35.4 \pm 6.4$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-23	Dpar (μm)=1.52: $\geq 32.8 \pm 11.4$ Ma Dpar (μm)=2.06: $\geq 32.8 \pm 12.6$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-24	Dpar (μm)=1.32: $\geq 13.6 \pm 8.1$ Ma Dpar (μm)=1.84: $\geq 13.6 \pm 7.6$ Ma	Remained at low temperatures since rapid cooling in the Miocene	Not Applicable
950-25	Dpar (μm)=1.67: $\geq 29.9 \pm 11.5$ Ma Dpar (μm)=2.23: $\geq 31.6 \pm 13.5$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	$>0.69 \pm 0.01\%$ (post deposition)
950-26	Dpar (μm)=1.52: $\geq 23.3 \pm 10.4$ Ma	Remained at low temperatures since rapid cooling in the Miocene	$>0.67 \pm 0.01\%$ (post deposition)
950-27	Dpar (μm)=1.83: $\geq 37.2 \pm 9.8$ Ma	Remained at low temperatures since rapid cooling in the Eocene	$>0.65 \pm 0.01\%$ (post deposition)
950-28	Dpar (μm)=1.61: $\geq 35.8 \pm 11.3$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	$>0.69 \pm 0.01\%$ (post deposition)
950-29	Dpar (μm)=1.74: $\geq 40.5 \pm 11.6$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-30	Dpar (μm)=1.49: $\geq 11.2 \pm 3.0$ Ma	Remained at low temperatures since rapid cooling in the Miocene	Not Applicable
950-31	Dpar (μm)=1.57: $\geq 13.3 \pm 5.3$ Ma	Remained at low temperatures since rapid cooling in the Miocene	Not Applicable
950-32	Dpar (μm)=1.90: $\geq 43.3 \pm 7.7$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-33	Dpar (μm)=1.50: $\geq 52.6 \pm 16.9$ Ma Dpar (μm)=2.27: $\geq 54.0 \pm 19.2$ Ma	Remained at low temperatures since rapid cooling in the Eocene	$>0.65 \pm 0.01\%$ (post deposition)
950-34	Dpar (μm)=1.53: $\geq 18.6 \pm 6.5$ Ma	Remained at low temperatures since rapid cooling in the Miocene	Not Applicable
950-35	Dpar (μm)=1.98: $\geq 68.4 \pm 20.5$ Ma Dpar (μm)=2.57:	Remained at low temperatures since rapid cooling in the Lt. Cretaceous to Paleocene	$>0.68 \pm 0.01\%$ (post deposition)

	$\geq 118 \pm 31.4$ Ma		
950-36	Dpar (μm)=1.48: $\geq 50.8 \pm 5.8$ Ma Dpar (μm)=1.92: $\geq 55.5 \pm 7.3$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-37	Dpar (μm)=1.64: $\geq 41.2 \pm 8.3$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-38	Dpar (μm)=1.53: $\geq 47.9 \pm 10.6$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-39	Dpar (μm)=2.00: $\geq 48.9 \pm 9.4$ Ma Dpar (μm)=2.51: $\geq 52.4 \pm 14.0$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-40	Dpar (μm)=1.74: $\geq 53.0 \pm 14.8$ Ma Dpar (μm)=2.14: $\geq 53.0 \pm 7.3$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-41	Dpar (μm)=1.53: $\geq 47.3 \pm 7.2$ Ma	Protracted cooling since rapid cooling in the Eocene	Not Applicable
950-42	Dpar (μm)=1.84: $\geq 55.4 \pm 5.1$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-43	Dpar (μm)=1.87: $\geq 54.0 \pm 6.6$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-44	Dpar (μm)=2.04: $\geq 73.4 \pm 9.7$ Ma	Remained at low temperatures since rapid cooling in the Late Cretaceous and Eocene	$>0.70 \pm 0.01\%$ (post deposition)
950-45	Dpar (μm)=1.53: $\geq 27.1 \pm 6.1$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-46	Dpar (μm)=1.83: $\geq 44.0 \pm 9.3$ Ma	Remained at low temperatures since rapid cooling in the Eocene	$>0.69 \pm 0.01\%$ (post deposition)
950-47	Dpar (μm)=1.78: $\geq 36.9 \pm 7.8$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	$>0.72 \pm 0.01\%$ (post deposition)
950-48	Dpar (μm)=1.68: $\geq 38.7 \pm 5.9$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-49	Dpar (μm)=1.75: $\geq 36.5 \pm 4.8$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-50	Dpar (μm)=2.04: $\geq 42.4 \pm 16.3$ Ma Dpar (μm)=2.67: $\geq 55.4 \pm 25.9$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-51	Dpar (μm)=1.80: $\geq 34.2 \pm 4.7$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	$>0.68 \pm 0.01\%$ (post deposition)
950-52	Dpar (μm)=1.50: $\geq 26.5 \pm 4.9$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable

950-53	Dpar (μm)=1.47: $\geq 34.5 \pm 8.8$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	$>0.71 \pm 0.01\%$ (post deposition)
950-54	Dpar (μm)=1.92: $\geq 39.8 \pm 4.6$ Ma	Remained at low temperatures since rapid cooling in the Eocene	$>0.72 \pm 0.01\%$ (post deposition)
950-55	Dpar (μm)=1.63: $\geq 33.1 \pm 4.5$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-56	Dpar (μm)=1.07: $\geq 57.8 \pm 13.0$ Ma Dpar (μm)=1.68: $\geq 57.8 \pm 29.3$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-57	Dpar (μm)=1.36: $\geq 41.5 \pm 23.1$ Ma	Remained at low temperatures since rapid cooling in the Eocene	$>0.67 \pm 0.01\%$ (post deposition)
950-58	Dpar (μm)=1.92: $\geq 38.9 \pm 13.1$ Ma	Remained at low temperatures since rapid cooling in the Eocene	$>0.67 \pm 0.01\%$ (post deposition)
950-59	Dpar (μm)=1.66: $\geq 37.1 \pm 3.6$ Ma	Protracted cooling since rapid cooling in the Eocene	Not Applicable
950-60	Dpar (μm)=1.22: $\geq 45.9 \pm 14.1$ Ma	Remained at low temperatures since rapid cooling in the Eocene	$>0.65 \pm 0.01\%$ (post deposition)
950-61	Dpar (μm)=1.81: $\geq 62.3 \pm 20.3$ Ma	Remained at low temperatures since rapid cooling in the Paleocene	Not Applicable
950-62	Dpar (μm)=1.61: $\geq 33.2 \pm 5.6$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	$>0.71 \pm 0.01\%$ (post deposition)
950-63	Dpar (μm)=1.78: $\geq 21.0 \pm 7.1$ Ma	Remained at low temperatures since rapid cooling in the Miocene	Not Applicable
950-64	Dpar (μm)=1.34: $\geq 31.7 \pm 3.5$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-65	Dpar (μm)=1.52: $\geq 36.3 \pm 3.9$ Ma	Remained at low temperatures since rapid cooling in the Oligocene	Not Applicable
950-66	Dpar (μm)=2.38: $\geq 48.1 \pm 26.9$ Ma	Remained at low temperatures since rapid cooling in the Eocene	Not Applicable
950-67	Dpar (μm)=1.61: $\geq 18.1 \pm 4.1$ Ma	Remained at low temperatures since rapid cooling in the Miocene	Not Applicable

Table 1.4. Summary of the apatite fission-track age data.

Client Sample Name	A2Z Sample Number	Grains (dmnls)	Dpar (μm)	Dper (μm)	N _s (tracks)	Area Analyzed (cm ²)	Σ(PQ) (cm ²)	1σ Σ(PQ) (cm ²)	ξ _{MS}	1σ ξ _{MS}	⁴³ Ca (apatite) ²⁹ Si (zircon) bkg:sig (dmnls)	²³⁸ U bkg:sig (dmnls)	Q (dmnls)	Pooled Fission-Track Age (Ma ±1σ)
Apatite														
Age Standards														
Durango	DR06	492	1.52	0.29	3091	2.27E-02	7.117E-04	1.335E-06	14.5149	0.2625	2.565E-02	2.166E-03	0.9665	31.4+/- 0.8
Report 950 - Pebble														
950-1	950-1	24	1.47	0.33	83	5.04E-04	9.90E-06	1.14E-07	13.6154	0.2672	6.08E-02	1.99E-01	0.0123	56.8+/- 6.4
950-2	950-2	28	1.61	0.36	114	4.90E-04	1.72E-05	1.69E-07	14.9073	0.2908	5.09E-02	4.34E-01	0.2393	49.2+/- 4.7
950-3	950-3	22	1.57	0.42	142	4.08E-04	2.09E-05	1.89E-07	13.2991	0.2665	6.86E-02	2.63E-01	0	45.0+/- 3.9
950-4	950-4	25	2.02	0.77	112	8.96E-04	1.18E-05	6.81E-08	13.7735	0.2675	6.50E-02	1.28E-01	0.9921	65.0+/- 6.3
950-5	950-5	24	1.8	0.6	147	8.50E-04	1.96E-05	1.49E-07	13.4045	0.2667	1.45E-01	4.09E-01	0	50.1+/- 4.3
950-6	950-6	21	2.13	0.66	162	4.99E-04	2.83E-05	2.46E-07	14.7619	0.2914	6.47E-02	1.00E-01	0.0021	42.2+/- 3.4
950-7	950-7	20	2.18	0.68	74	3.51E-04	2.08E-05	2.63E-07	14.6696	0.2918	7.10E-02	1.45E-01	0.003	26.0+/- 3.1
950-9	950-9	24	2.04	0.64	80	6.61E-04	9.38E-06	7.18E-08	14.5431	0.2923	4.52E-02	1.09E-01	0.0293	61.7+/- 7.0
950-10	950-10	15	1.68	0.41	70	2.73E-04	1.30E-05	1.43E-07	13.2464	0.2664	3.49E-02	1.49E-01	0.0406	35.6+/- 4.3
950-12	950-12	24	1.69	0.38	112	4.14E-04	3.03E-05	2.05E-07	14.8081	0.2912	3.58E-02	1.53E-01	0.1239	27.3+/- 2.6
950-13	950-13	19	1.26	0.24	70	3.99E-04	2.13E-05	1.54E-07	13.8452	0.2677	8.81E-02	5.75E-01	0	22.8+/- 2.8
950-14	950-14	18	1.48	0.27	113	2.37E-04	1.97E-05	2.80E-07	12.601	0.2556	1.08E-01	1.76E-01	0.0014	36.0+/- 3.5
950-15	950-15	24	1.59	0.35	130	7.37E-04	2.26E-05	1.62E-07	13.4572	0.2669	4.36E-02	9.90E-02	0.258	38.6+/- 3.5
950-16	950-16	19	1.76	0.44	88	3.48E-04	2.90E-05	2.74E-07	14.6123	0.292	1.36E-01	3.58E-01	0.0988	22.1+/- 2.4
950-17	950-17	20	1.53	0.38	73	2.88E-04	2.34E-05	2.38E-07	13.5363	0.267	8.72E-02	2.85E-01	0	21.1+/- 2.5
950-18	950-18	16	1.54	0.35	62	1.56E-04	7.43E-06	1.19E-07	12.2679	0.2507	1.71E-01	6.03E-01	0	51.0+/- 6.6
950-19	950-19	23	1.74	0.41	23	3.94E-04	2.43E-06	2.04E-08	14.5892	0.2921	5.69E-02	2.34E-01	0.1577	68.6+/- 14.4
950-20	950-20	25	1.71	0.39	197	8.92E-04	4.58E-05	2.84E-07	14.8819	0.2909	1.87E-01	3.53E-01	0.0002	31.9+/- 2.4
950-21	950-21	23	1.5	0.27	506	7.12E-04	9.20E-05	4.49E-07	14.2832	0.2845	5.02E-02	1.26E-01	0	39.2+/- 1.9
950-22	950-22	22	1.63	0.49	110	7.07E-04	2.24E-05	1.68E-07	14.7388	0.2915	4.91E-02	1.05E-01	0.7472	36.0+/- 3.5
950-23	950-23	25	1.78	0.52	39	9.35E-04	7.74E-06	3.77E-08	13.8979	0.2678	6.46E-02	2.81E-01	0.9875	34.9+/- 5.6
950-24	950-24	18	1.51	0.33	11	2.42E-04	4.40E-06	5.67E-08	14.4969	0.2925	8.66E-02	3.80E-01	0.6715	18.1+/- 5.5
950-25	950-25	23	1.94	0.55	30	1.91E-04	5.48E-06	4.58E-08	13.3782	0.2667	1.08E-01	4.93E-01	0.9909	36.5+/- 6.7
950-26	950-26	6	1.48	0.3	11	5.68E-05	3.22E-06	4.88E-08	13.7604	0.2747	2.37E-01	3.80E-01	0.0002	23.4+/- 7.1
950-27	950-27	23	1.72	0.54	43	3.16E-04	7.34E-06	5.55E-08	13.51	0.267	6.14E-02	1.71E-01	0.9962	39.5+/- 6.1
950-28	950-28	24	1.68	0.42	28	9.63E-04	5.66E-06	3.55E-08	14.8589	0.291	7.08E-02	1.02E+00	0.1689	36.7+/- 7.0
950-29	950-29	25	1.65	0.42	35	5.31E-04	6.07E-06	4.81E-08	13.1937	0.2663	8.78E-02	2.40E-01	0.9947	37.9+/- 6.5
950-30	950-30	18	1.51	0.44	46	4.39E-04	2.15E-05	2.55E-07	14.6927	0.2917	1.13E-01	3.46E-01	0.0116	15.7+/- 2.3
950-31	950-31	25	1.52	0.4	15	6.23E-04	7.90E-06	1.07E-07	14.4424	0.2928	8.09E-02	3.28E-01	0.2798	13.7+/- 3.6
950-32	950-32	22	1.75	0.41	131	6.15E-04	1.95E-05	1.92E-07	14.4738	0.2926	1.63E-01	1.62E+00	0	48.5+/- 4.4
950-33	950-33	17	1.91	0.57	48	3.01E-04	5.92E-06	8.65E-08	13.7962	0.2676	1.09E-01	5.10E-01	0.068	55.7+/- 8.2

950-34	950-34	17	1.47	0.31	22	3.07E-04	7.00E-06	6.93E-08	14.3963	0.293	9.38E-02	2.65E-01	0.0023	22.6+/- 4.8
950-35	950-35	25	2.28	0.77	74	7.73E-04	7.61E-06	7.37E-08	14.6354	0.2919	3.70E-02	1.77E-01	0.1036	70.8+/- 8.4
950-36	950-36	25	1.67	0.39	528	9.00E-04	7.64E-05	4.05E-07	13.7472	0.2675	1.19E-01	3.13E-01	0.0081	47.4+/- 2.3
950-37	950-37	20	1.61	0.37	80	2.67E-04	1.61E-05	1.25E-07	14.785	0.2913	8.45E-02	3.09E-01	0.0975	36.6+/- 4.2
950-38	950-38	23	1.37	0.28	65	3.77E-04	1.05E-05	8.11E-08	14.7157	0.2916	1.03E-01	5.85E-01	0.0004	45.5+/- 5.7
950-39	950-39	19	2.15	0.64	135	3.39E-04	1.98E-05	1.93E-07	14.5662	0.2922	1.85E-01	4.55E-01	0.0007	49.5+/- 4.4
950-40	950-40	24	2.05	0.73	241	5.58E-04	2.92E-05	2.67E-07	13.4309	0.2668	4.08E-02	1.76E-01	0	55.3+/- 3.8
950-41	950-41	24	1.48	0.27	219	3.52E-04	2.38E-05	2.66E-07	13.6417	0.2673	6.68E-02	4.13E-01	0	62.4+/- 4.4
950-42	950-42	24	1.79	0.49	512	5.48E-04	6.35E-05	3.34E-07	13.8716	0.2678	7.69E-02	1.42E-01	0.0002	55.7+/- 2.7
950-43	950-43	21	1.88	0.48	257	2.75E-04	3.33E-05	2.75E-07	13.9703	0.2749	3.07E-02	1.12E-01	0.0123	53.7+/- 3.5
950-44	950-44	22	2.11	0.63	218	6.07E-04	2.46E-05	2.04E-07	14.0634	0.2771	7.96E-02	2.51E-01	0.0002	62.1+/- 4.4
950-45	950-45	11	1.53	0.22	65	3.30E-04	1.74E-05	1.78E-07	14.6525	0.2919	4.90E-02	1.31E-01	0.3801	27.3+/- 3.4
950-46	950-46	24	1.8	0.5	72	5.25E-04	1.15E-05	1.01E-07	14.2495	0.2815	8.46E-02	2.76E-01	0.0135	44.4+/- 5.3
950-47	950-47	30	1.63	0.35	73	4.28E-04	1.50E-05	1.26E-07	14.8335	0.2911	1.25E-01	1.91E+00	0.2431	35.9+/- 4.3
950-48	950-48	25	1.63	0.38	156	9.28E-04	2.44E-05	3.11E-07	13.5627	0.2671	8.68E-02	2.62E-01	0	43.3+/- 3.6
950-49	950-49	25	1.72	0.48	227	6.62E-04	3.45E-05	3.25E-07	13.2727	0.2664	6.87E-02	1.41E+00	0	43.5+/- 3.0
950-50	950-50	22	2.18	0.75	32	4.80E-04	4.84E-06	3.99E-08	13.3518	0.2666	4.88E-02	2.99E-01	0.442	44.0+/- 7.8
950-51	950-51	25	1.71	0.42	212	7.97E-04	3.89E-05	2.29E-07	13.6945	0.2674	8.21E-02	3.30E-01	0	37.2+/- 2.7
950-52	950-52	24	1.57	0.29	97	5.82E-04	2.64E-05	2.58E-07	13.22	0.2663	5.31E-02	1.96E-01	0.4854	24.2+/- 2.5
950-53	950-53	25	1.48	0.29	47	9.69E-04	9.90E-06	7.41E-08	13.589	0.2671	1.05E-01	2.15E-01	0.2706	32.2+/- 4.7
950-54	950-54	23	1.89	0.45	295	9.52E-04	5.36E-05	3.59E-07	14.994	0.2994	1.14E-01	2.02E-01	0.5054	41.1+/- 2.5
950-55	950-55	21	1.58	0.36	201	2.24E-04	4.83E-05	5.86E-07	15.0871	0.3016	3.57E-02	1.06E-01	0	31.3+/- 2.3
950-56	950-56	17	1.37	0.36	9	3.27E-04	1.05E-06	2.08E-08	13.8189	0.2676	4.95E-02	6.37E+00	0	58.8+/- 19.7
950-57	950-57	10	1.34	0.31	6	4.85E-05	1.09E-06	1.24E-08	15.2639	0.3058	3.84E-02	1.19E-01	0.9992	42.0+/- 17.2
950-58	950-58	23	1.92	0.55	24	6.26E-04	4.41E-06	3.82E-08	14.4194	0.2929	3.33E-02	8.89E-02	0.9893	39.1+/- 8.0
950-59	950-59	19	1.64	0.38	462	3.44E-04	1.09E-04	1.01E-06	15.4407	0.31	5.02E-02	1.10E-01	0	32.8+/- 1.7
950-60	950-60	19	1.21	0.29	29	2.09E-04	4.24E-06	3.69E-08	13.7208	0.2674	8.71E-02	4.81E-01	0	46.7+/- 8.7
950-61	950-61	23	1.89	0.6	26	5.29E-04	3.04E-06	2.78E-08	14.52	0.2924	6.00E-02	2.26E-01	0.9931	61.7+/- 12.2
950-62	950-62	20	1.58	0.31	124	6.43E-04	2.85E-05	2.46E-07	15.7236	0.3168	7.05E-02	1.38E-01	0.0098	34.1+/- 3.2
950-63	950-63	20	1.69	0.38	24	4.14E-04	3.03E-05	2.05E-07	14.8081	0.2912	3.58E-02	1.53E-01	0.1239	23.8+/- 4.9
950-64	950-64	20	1.41	0.36	343	2.48E-04	7.01E-05	5.67E-07	13.4836	0.2669	6.07E-02	1.14E-01	0.372	32.9+/- 1.9
950-65	950-65	20	1.51	0.36	338	3.18E-04	6.10E-05	4.39E-07	13.6681	0.2673	7.50E-02	1.65E-01	0.5081	37.8+/- 2.2
950-66	950-66	6	2.09	0.56	6	6.36E-05	9.24E-07	2.23E-08	14.4581	0.2927	1.68E-01	7.51E-01	0.0743	46.8+/- 19.1
950-67	950-67	23	1.66	0.37	63	4.29E-04	2.42E-05	2.07E-07	13.3255	0.2666	6.39E-02	2.11E-01	0.1211	17.3+/- 2.2

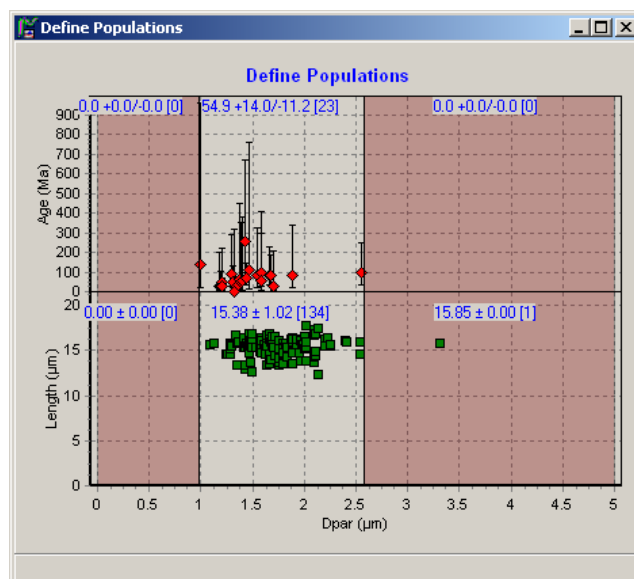
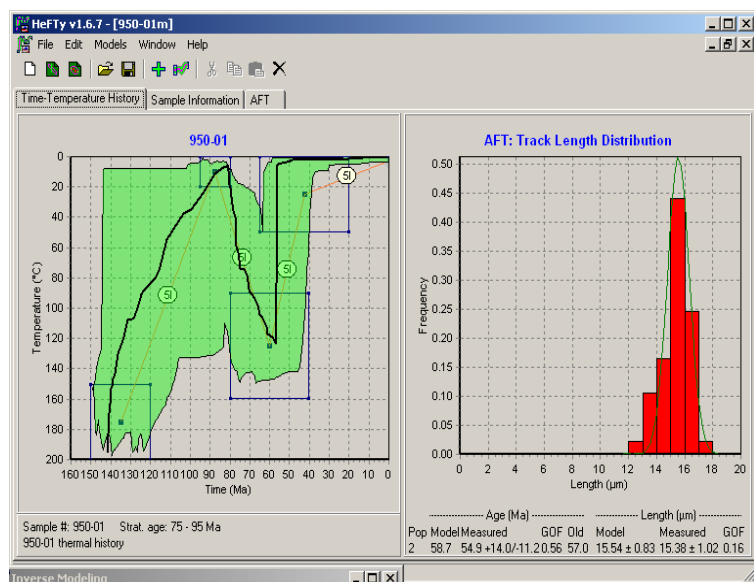
Analyst: POS

Table 1.5. Summary of the apatite fission-track length data.

Client Sample Name	A2Z Sample Number	Tracks (tracks)	Mean \pm Standard Error ($\mu\text{m} \pm 1\sigma$)	Standard Deviation (μm)	Dpar (μm)	Dper (μm)	0-1 (μm)	1-2 (μm)	2-3 (μm)	3-4 (μm)	4-5 (μm)	5-6 (μm)	6-7 (μm)	7-8 (μm)	8-9 (μm)	9-10 (μm)	10-11 (μm)	11-12 (μm)	12-13 (μm)	13-14 (μm)	14-15 (μm)	15-16 (μm)	16-17 (μm)	17-18 (μm)	18-19 (μm)	19-20 (μm)
Length Standards																										
Durango-D 31.4 Ma	DR-01	138	14.59\pm0.08	0.98	1.87	0.22	-	-	-	-	-	-	-	-	-	-	-	1	5	28	60	32	10	2	-	-
Fish Canyon Tuff-D 27.8 Ma	FC-01	130	15.01\pm0.09	1.02	2.36	0.46	-	-	-	-	-	-	-	-	-	-	-	1	3	16	46	39	23	2	-	-
Report 950 - Pebble																										
950-1	950-1	135	14.54\pm0.13	1.56	1.74	0.29	-	-	-	-	-	-	-	-	-	2	1	8	12	17	32	44	16	3	-	-
950-2	950-2	64	14.36\pm0.17	1.37	1.63	0.25	-	-	-	-	-	-	-	-	-	2	-	-	5	17	20	13	7	-	-	-
950-3	950-3	127	14.98\pm0.14	1.58	1.64	0.18	-	-	-	-	-	-	1	-	1	-	-	1	3	22	29	39	23	8	-	-
950-4	950-4	171	14.92\pm0.09	1.23	2.34	0.99	-	-	-	-	-	-	-	-	-	-	-	3	14	20	42	60	28	4	-	-
950-5	950-5	125	15.10\pm0.12	1.31	1.89	0.4	-	-	-	-	-	-	-	-	-	-	1	3	2	15	25	51	20	8	-	-
950-6	950-6	125	14.85\pm0.14	1.56	2.28	0.61	-	-	-	-	-	-	-	-	-	2	2	3	2	20	32	36	22	6	-	-
950-7	950-7	191	15.06\pm0.13	1.74	2.22	0.55	-	-	-	-	3	-	-	-	-	-	1	1	5	19	44	73	39	6	-	-
950-9	950-9	125	14.96\pm0.12	1.3	2.22	0.66	-	-	-	-	-	-	-	-	-	1	-	2	4	14	37	46	16	5	-	-
950-10	950-10	125	14.41\pm0.15	1.64	1.72	0.21	-	-	-	-	-	1	-	-	1	1	3	1	9	23	36	38	10	2	-	-
950-12	950-12	126	14.73\pm0.12	1.33	1.54	0.24	-	-	-	-	-	-	-	-	-	-	1	2	11	21	35	33	18	5	-	-
950-13	950-13	127	13.85\pm0.15	1.73	1.39	0.19	-	-	-	-	-	-	-	-	-	1	4	12	28	18	25	27	12	-	-	-
950-14	950-14	11	12.47\pm0.97	3.05	1.73	0.42	-	-	-	-	-	-	-	1	1	1	1	1	-	-	3	2	1	-	-	-
950-15	950-15	125	14.46\pm0.12	1.31	1.56	0.2	-	-	-	-	-	-	-	-	-	-	2	5	10	22	44	29	12	1	-	-
950-16	950-16	126	14.69\pm0.16	1.81	1.67	0.22	-	-	-	-	-	1	-	-	1	1	-	8	9	13	25	41	22	5	-	-
950-17	950-17	126	15.02\pm0.13	1.45	1.63	0.23	-	-	-	-	-	-	-	-	1	-	1	1	7	17	28	42	21	8	-	-
950-18	950-18	6	14.15\pm0.49	1.09	1.67	0.13	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	1	-	-	-	-
950-19	950-19	2	15.69\pm0.40	0.4	1.24	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
950-20	950-20	127	15.30\pm0.11	1.23	2.89	0.51	-	-	-	-	-	-	-	-	-	-	-	3	4	12	26	38	40	4	-	-
950-21	950-21	125	14.33\pm0.12	1.33	2.24	0.4	-	-	-	-	-	-	-	-	-	-	-	8	11	30	35	29	10	2	-	-
950-22	950-22	61	14.78\pm0.18	1.41	1.9	0.47	-	-	-	-	-	-	-	-	-	-	1	3	-	13	13	19	11	1	-	-
950-23	950-23	66	15.09\pm0.16	1.26	1.72	0.42	-	-	-	-	-	-	-	-	-	-	1	1	3	4	12	34	9	2	-	-
950-24	950-24	76	15.14\pm0.19	1.62	1.57	0.24	-	-	-	-	-	-	-	-	-	1	-	5	2	5	17	24	15	7	-	-
950-25	950-25	96	15.39\pm0.13	1.23	2	0.46	-	-	-	-	-	-	-	-	-	-	-	1	5	7	16	35	25	7	-	-
950-26	950-26	6	14.11\pm0.66	1.48	1.99	0.57	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	1	1	-	-	-
950-27	950-27	125	14.91\pm0.13	1.45	1.88	0.46	-	-	-	-	-	-	-	-	-	2	-	1	7	18	35	31	24	7	-	-
950-28	950-28	76	14.48\pm0.20	1.74	1.75	0.39	-	-	-	-	-	-	-	-	1	1	2	2	5	15	14	23	12	1	-	-
950-29	950-29	84	13.84\pm0.23	2.09	1.71	0.35	-	-	-	-	-	-	1	-	2	4	1	4	7	19	20	17	8	1	-	-
950-30	950-30	132	13.83\pm0.17	1.98	2.23	0.58	-	-	-	-	-	-	-	1	1	4	8	9	14	30	25	25	10	5	-	-
950-31	950-31	20	14.97\pm0.29	1.26	1.85	0.51	-	-	-	-	-	-	-	-	-	-	-	1	-	3	3	10	2	1	-	-
950-32	950-32	125	14.87\pm0.12	1.3	2.23	0.45	-	-	-	-	-	-	-	-	-	-	1	3	8	16	36	38	17	6	-	-
950-33	950-33	11	15.22\pm0.41	1.3	1.75	0.34	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	4	2	1	-	-

950-34	950-34	129	15.24+/-0.11	1.23	1.87	0.27	-	-	-	-	-	-	-	-	-	-	3	4	13	26	44	33	6	-	-	
950-35	950-35	125	14.62+/-0.16	1.82	2.08	0.51	-	-	-	-	-	-	-	1	2	3	6	10	13	31	28	24	7	-	-	
950-36	950-36	126	15.22+/-0.11	1.2	2.23	0.55	-	-	-	-	-	-	-	-	-	-	-	6	15	20	59	18	8	-	-	
950-37	950-37	125	15.12+/-0.09	1.04	2.08	0.5	-	-	-	-	-	-	-	-	-	-	1	4	8	38	52	20	2	-	-	
950-38	950-38	125	13.88+/-0.18	1.97	1.64	0.35	-	-	-	-	-	-	-	1	-	4	8	8	14	28	24	23	10	5	-	-
950-39	950-39	127	14.87+/-0.13	1.42	2.63	0.73	-	-	-	-	-	-	-	-	-	1	6	5	20	33	34	20	8	-	-	
950-40	950-40	129	14.71+/-0.12	1.36	2.5	0.64	-	-	-	-	-	-	-	1	1	1	1	8	15	46	37	17	2	-	-	
950-41	950-41	68	13.52+/-0.24	1.96	1.59	0.24	-	-	-	-	-	-	2	-	-	-	4	5	11	17	13	11	5	-	-	-
950-42	950-42	129	14.49+/-0.14	1.56	1.85	0.34	-	-	-	-	-	-	-	2	1	1	6	9	14	41	39	15	-	1	-	
950-43	950-43	51	14.19+/-0.21	1.46	2	0.43	-	-	-	-	-	-	-	-	-	3	2	1	14	17	12	1	1	-	-	
950-44	950-44	65	13.93+/-0.25	1.98	2.39	0.73	-	-	-	-	-	-	-	-	2	3	7	11	9	8	13	10	2	-	-	
950-45	950-45	127	14.70+/-0.08	0.89	1.55	0.22	-	-	-	-	-	-	-	-	-	-	-	4	20	55	40	8	-	-	-	
950-46	950-46	31	14.77+/-0.27	1.46	1.65	0.42	-	-	-	-	-	-	-	-	1	-	-	1	5	10	9	5	-	-	-	
950-47	950-47	115	14.45+/-0.12	1.27	1.55	0.22	-	-	-	-	-	-	-	-	1	-	6	4	24	37	32	11	-	-	-	
950-48	950-48	125	14.88+/-0.11	1.26	1.73	0.25	-	-	-	-	-	-	-	-	-	-	4	7	13	41	38	19	3	-	-	
950-49	950-49	125	14.79+/-0.10	1.07	1.79	0.32	-	-	-	-	-	-	-	-	-	1	2	5	15	49	38	13	2	-	-	
950-50	950-50	125	15.10+/-0.13	1.44	2.8	0.84	-	-	-	-	-	-	-	1	-	1	1	7	11	30	45	19	10	-	-	
950-51	950-51	125	14.82+/-0.12	1.28	1.88	0.31	-	-	-	-	-	-	-	-	-	1	3	7	17	37	42	16	1	1	-	
950-52	950-52	125	14.01+/-0.10	1.13	1.46	0.16	-	-	-	-	-	-	-	-	1	1	6	12	37	47	18	3	-	-	-	
950-53	950-53	60	13.18+/-0.20	1.53	1.44	0.19	-	-	-	-	-	-	-	1	-	-	3	10	11	14	15	5	1	-	-	-
950-54	950-54	125	14.61+/-0.12	1.38	2.06	0.49	-	-	-	-	-	-	-	-	2	-	2	11	17	39	36	17	1	-	-	
950-55	950-55	23	12.70+/-0.66	3.1	1.61	0.17	-	-	-	1	1	-	-	-	-	1	2	6	3	7	1	-	1	-	-	
950-56	950-56	19	13.75+/-0.44	1.88	1.87	0.29	-	-	-	-	-	-	-	-	1	1	3	1	1	8	2	2	-	-	-	
950-57	950-57	4	14.46+/-1.54	2.66	1.42	0.17	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	1	-	-	-	
950-58	950-58	45	14.43+/-0.24	1.6	2.19	0.61	-	-	-	-	-	-	1	-	-	-	2	3	6	13	15	5	-	-	-	
950-59	950-59	55	13.00+/-0.24	1.76	1.62	0.29	-	-	-	-	-	-	1	-	1	5	8	10	8	18	4	-	-	-	-	
950-60	950-60	20	13.84+/-0.27	1.18	1.54	0.39	-	-	-	-	-	-	-	-	1	-	3	7	4	5	-	-	-	-	-	
950-61	950-61	63	14.60+/-0.17	1.36	2.25	0.62	-	-	-	-	-	-	-	-	-	-	3	5	9	22	13	10	1	-	-	
950-62	950-62	23	14.52+/-0.27	1.26	1.59	0.28	-	-	-	-	-	-	-	-	-	-	1	1	2	13	3	2	1	-	-	
950-63	950-63	21	14.95+/-0.27	1.24	1.83	0.49	-	-	-	-	-	-	-	-	-	-	1	1	3	3	10	2	1	-	-	
950-64	950-64	202	14.55+/-0.08	1.12	1.43	0.24	-	-	-	-	-	-	-	-	-	1	3	10	49	60	64	12	3	-	-	
950-65	950-65	184	14.70+/-0.10	1.35	1.71	0.31	-	-	-	-	-	-	-	1	-	-	-	3	11	32	65	46	19	5	2	-
950-66	950-66	19	14.82+/-0.24	1	2.12	0.93	-	-	-	-	-	-	-	-	-	-	-	5	5	8	1	-	-	-	-	
950-67	950-67	131	13.95+/-0.15	1.72	1.68	0.28	-	-	-	-	-	-	-	1	-	3	8	6	13	21	41	30	8	-	-	-

Analyst: POS



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

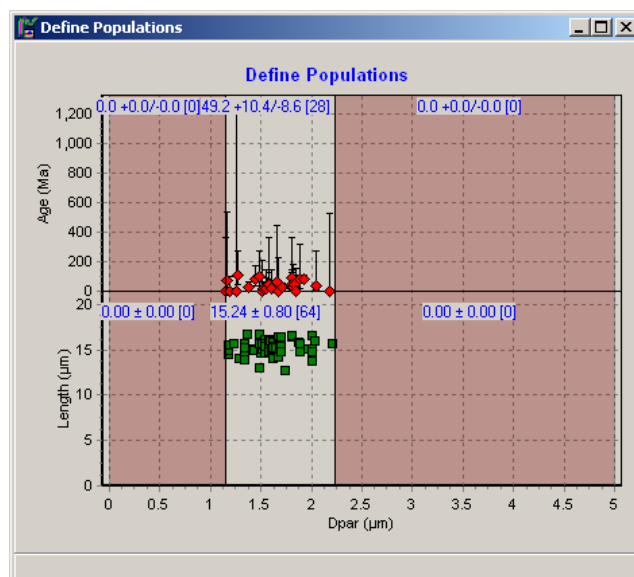
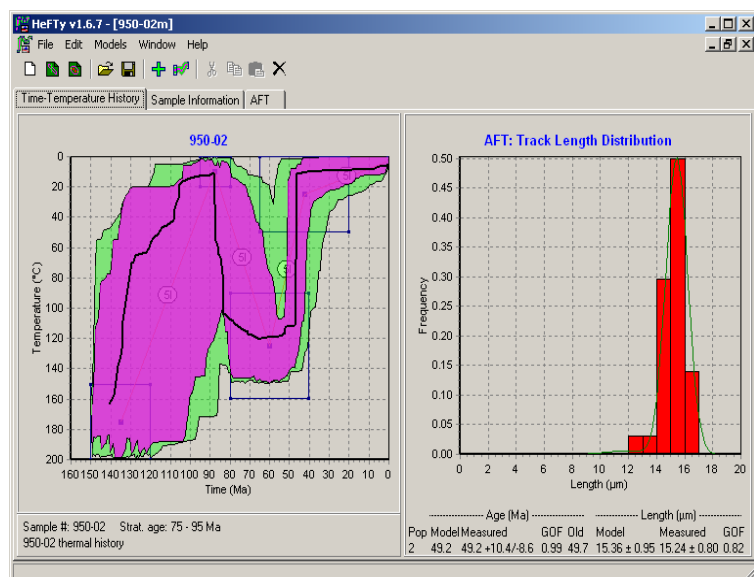
950-01
Dpar (μm)
Upper Cretaceous (~95-75 Ma)
0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)
Thermal History Following Primary Cooling

EasyRo (% reflectance)

Dpar (μm)=1.77: ≥57.0±11.6 Ma
Remained at low temperatures since rapid cooling in the Paleocene/Eocene
>0.72±0.01% (post deposition)

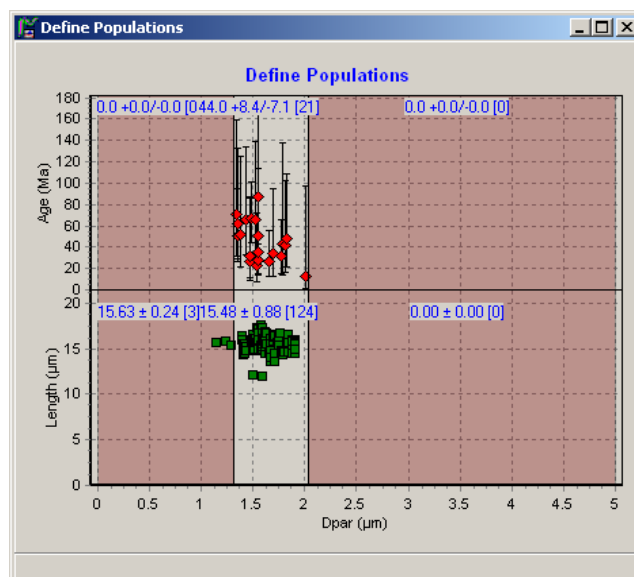
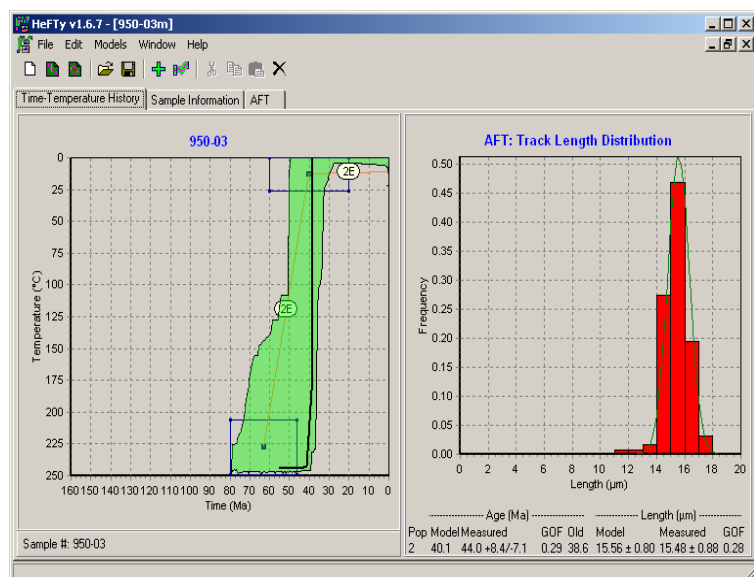


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-02
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Upper Cretaceous (~95-75 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.68: ≥49.7±8.7 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	>0.73±0.01% (post deposition)

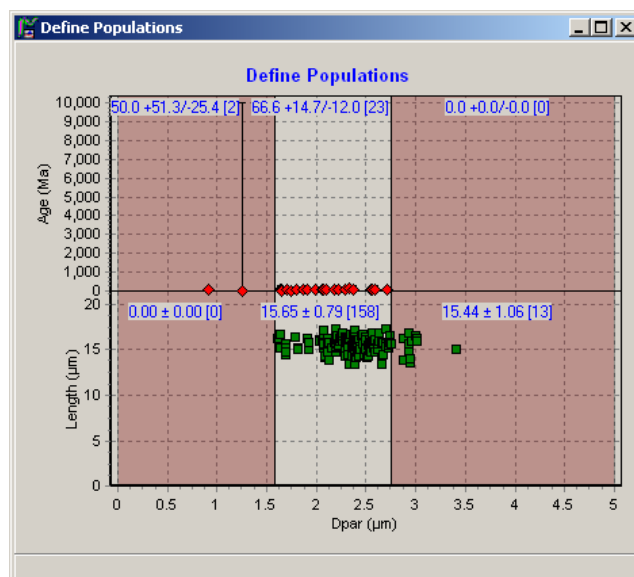
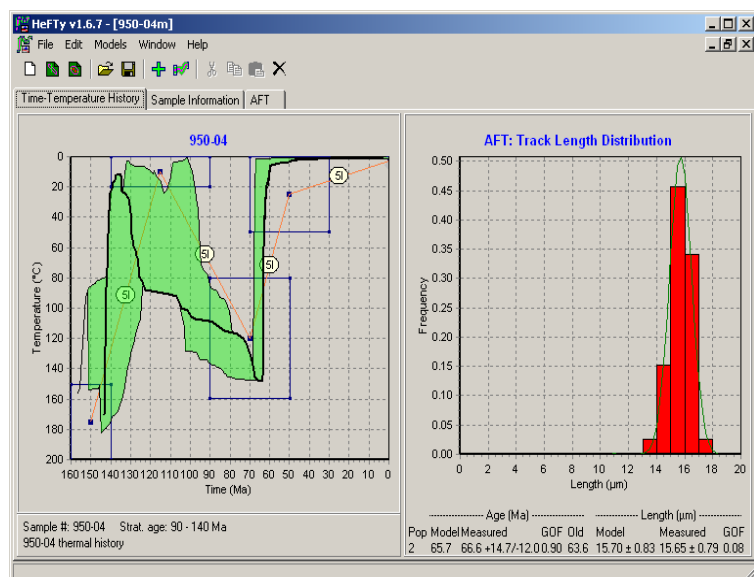


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-03
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.68: ≥38.6±6.2 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

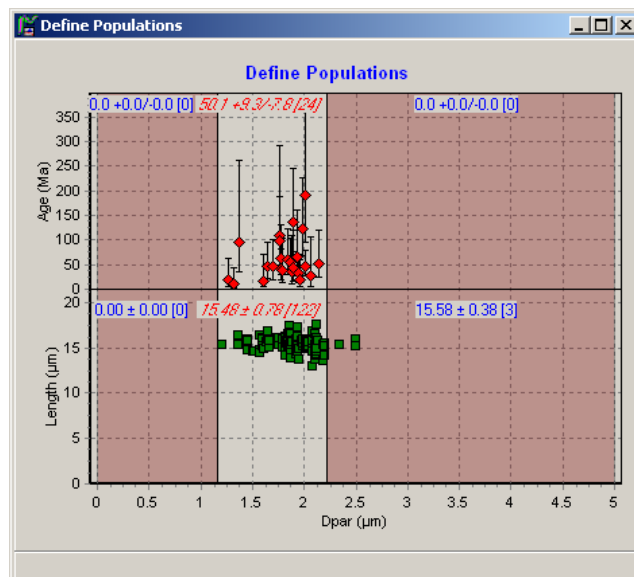
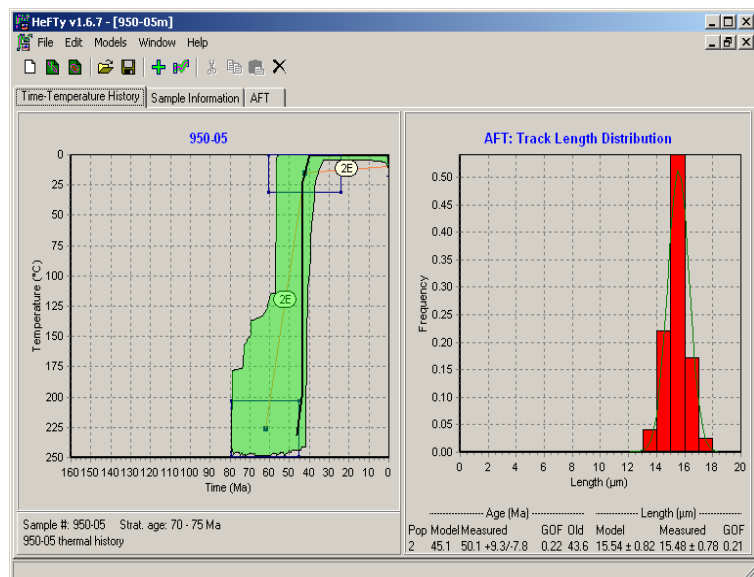
950-04
Dpar (μm)
U. Jurassic – L. Cretaceous (~140-80 Ma)
0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)
Thermal History Following Primary Cooling

EasyRo (% reflectance)

Dpar (μm)=2.18: ≥63.6±11.5 Ma
Remained at low temperatures since rapid cooling in the Paleocene
>0.72±0.01% (post deposition)

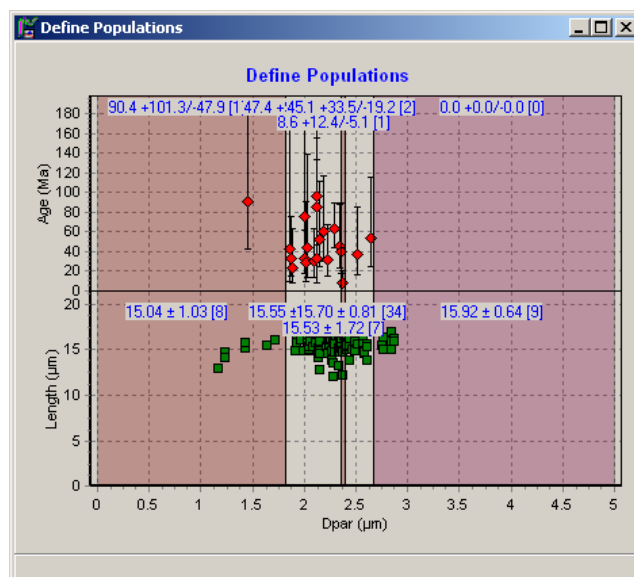
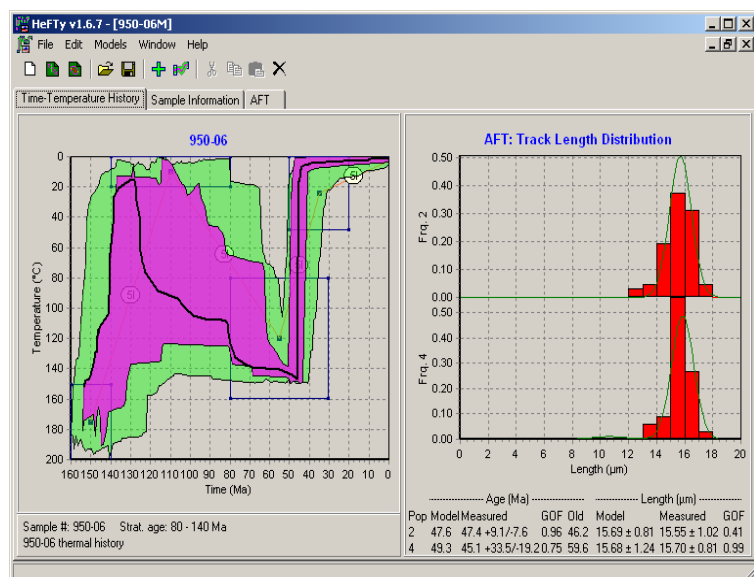


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-05
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.70: ≥43.6±6.8 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

950-06
 Dpar (μm)
 U. Jurassic – L. Cretaceous (~140-80 Ma)
 0°-5°C Assumed

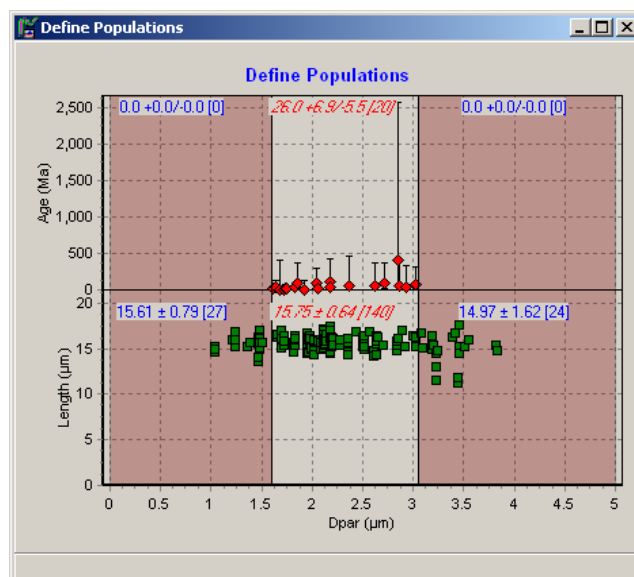
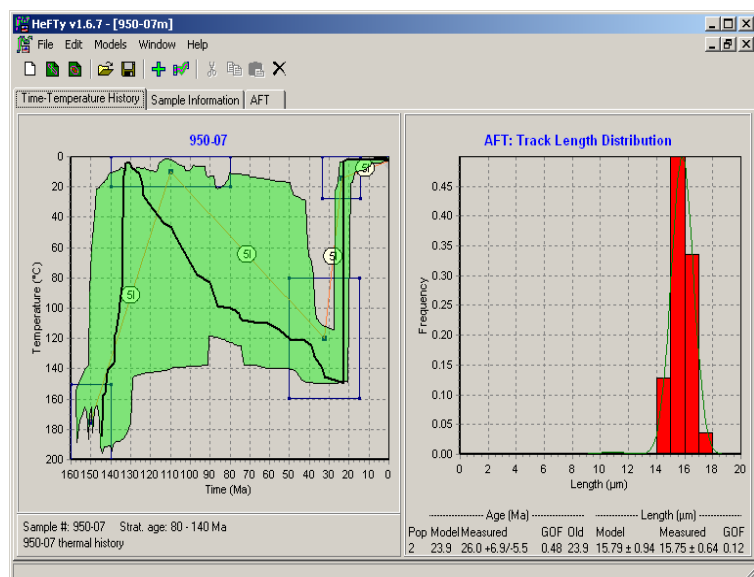
IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)

Thermal History Following Primary Cooling

EasyRo (% reflectance)

Dpar (μm)=2.11: $\geq 46.2 \pm 7.4$ Ma
 Dpar (μm)=2.53: $\geq 59.6 \pm 25.4$ Ma
 Remained at low temperatures since rapid cooling in the Eocene
 $> 0.67 \pm 0.01\%$ (post deposition)



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

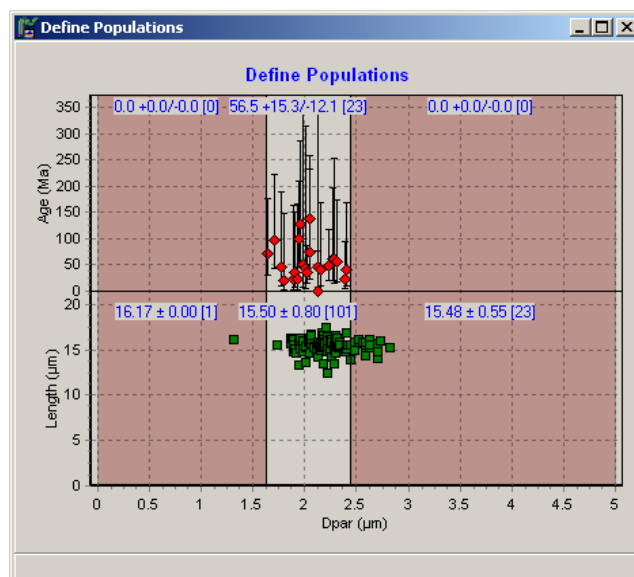
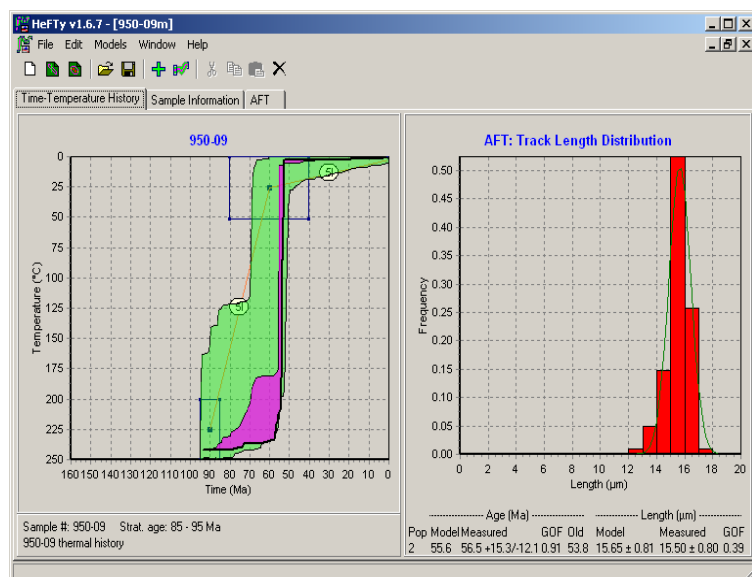
950-07
Dpar (μm)
U. Jurassic – L. Cretaceous (~140-80 Ma)
0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)
Thermal History Following Primary Cooling

EasyRo (% reflectance)

Dpar (μm)=2.32: ≥23.9±5.1 Ma
Remained at low temperatures since rapid cooling in the Miocene
>0.70±0.01% (post deposition)

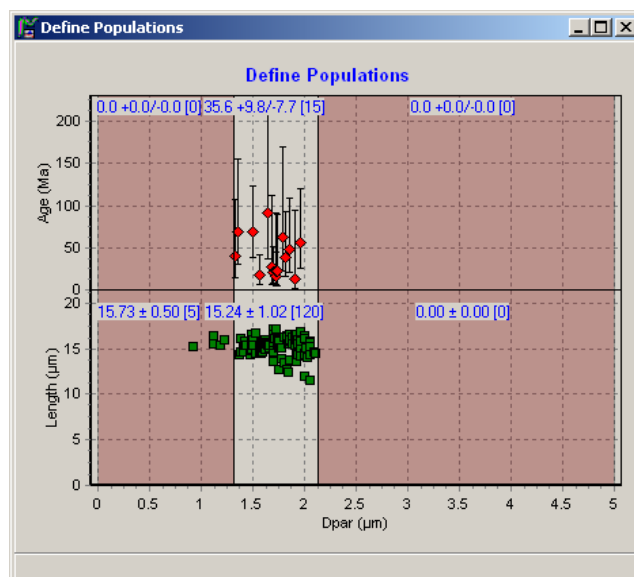
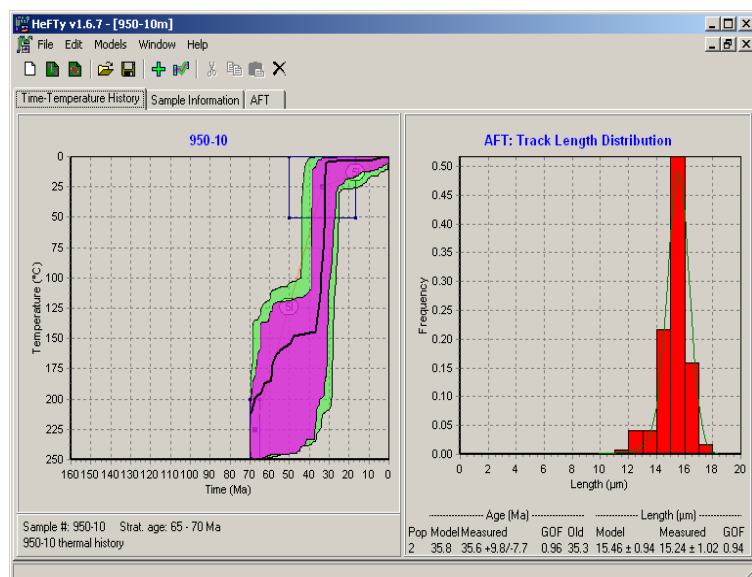


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-09
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=2.04: ≥53.8±11.5 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

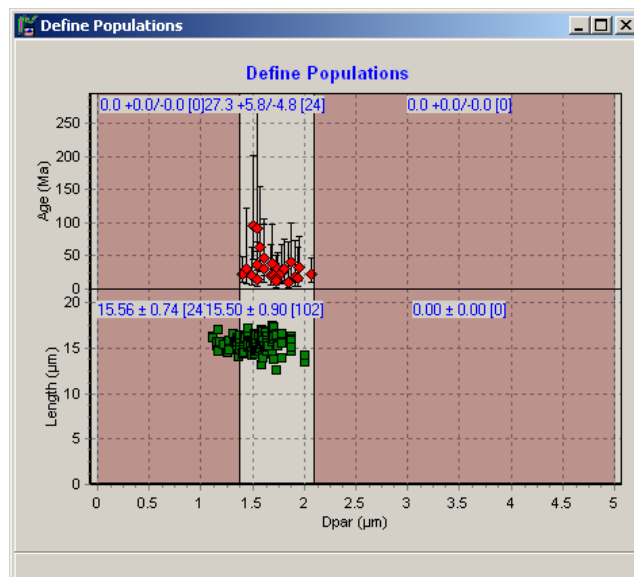
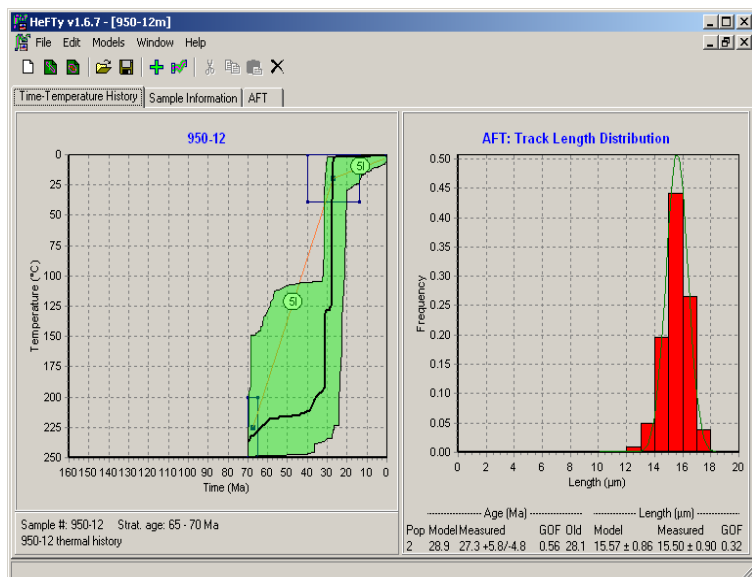


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-10
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.72: ≥35.3±7.6 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

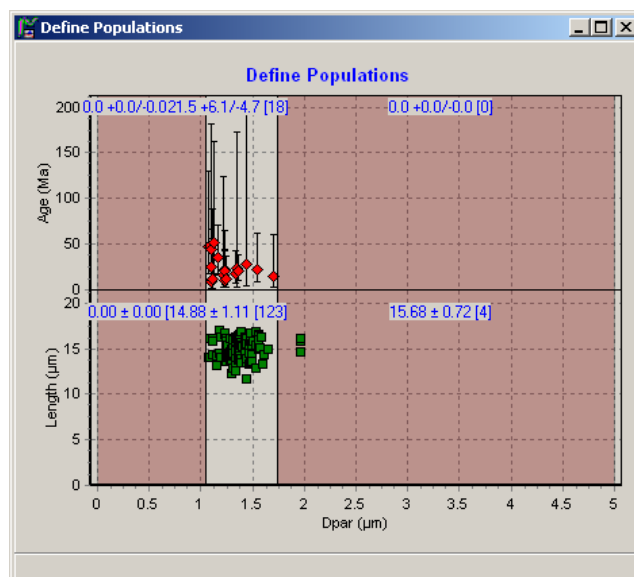
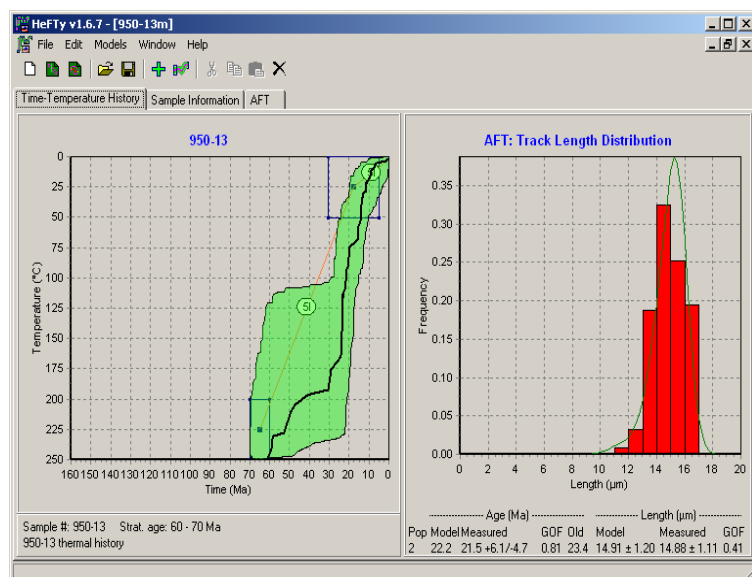
950-12
 Dpar (μm)
 Cretaceous-Tertiary (~85-45 Ma)
 0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)
Thermal History Following Primary Cooling

EasyRo (% reflectance)

Dpar (μm)=1.72: ≥28.1±4.9 Ma
 Remained at low temperatures since rapid cooling in the Oligocene
 Not Applicable

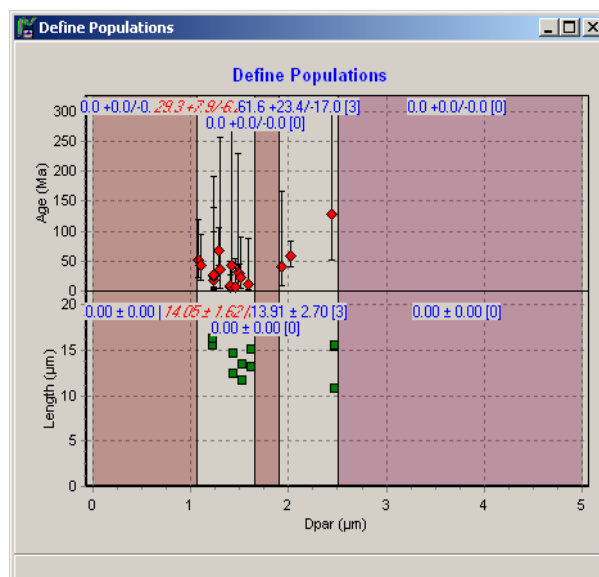
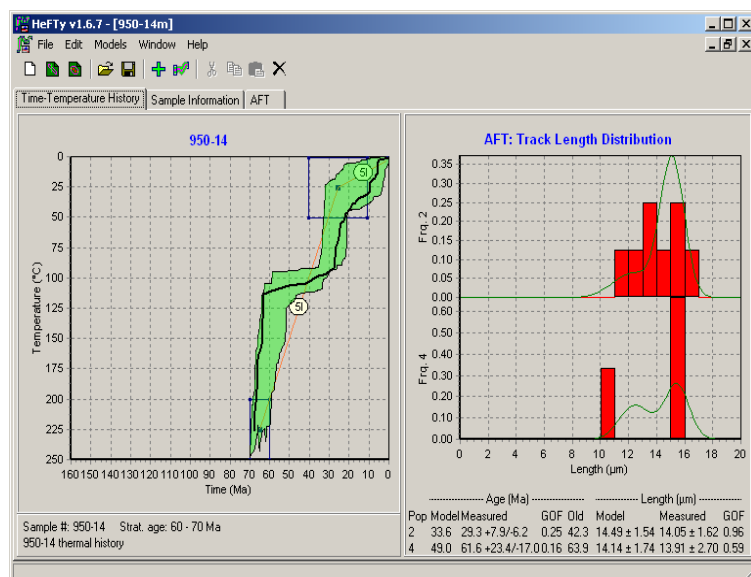


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-13
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.39: ≥23.4±5.1 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Miocene
EasyRo (% reflectance)	Not Applicable

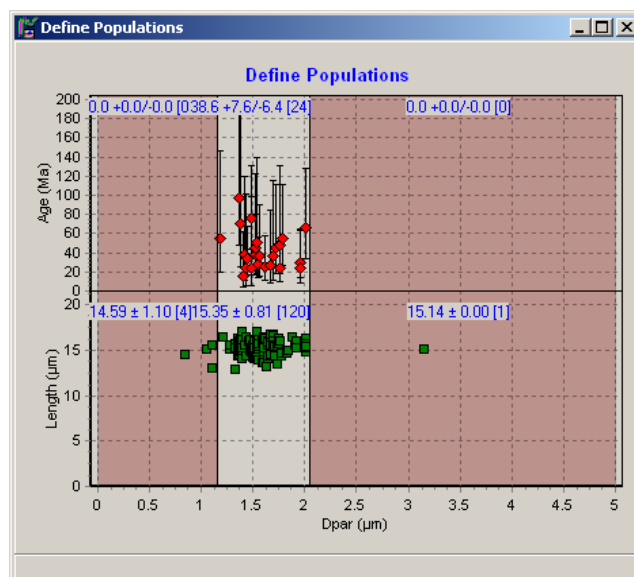
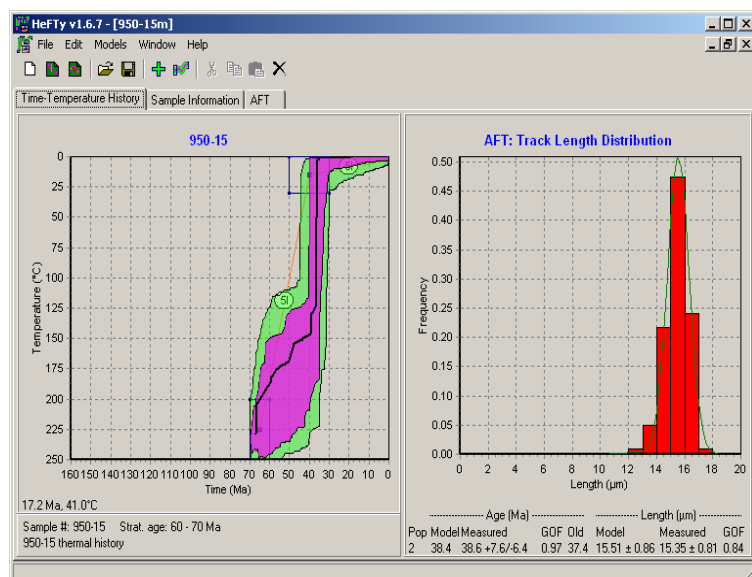


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-14
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.34: $\geq 42.3 \pm 9.0$ Ma
Thermal History Following Primary Cooling	Dpar (μm)=2.20: $\geq 63.9 \pm 17.6$ Ma
EasyRo (% reflectance)	Remained at low temperatures since rapid cooling in the Eocene
	Not Applicable

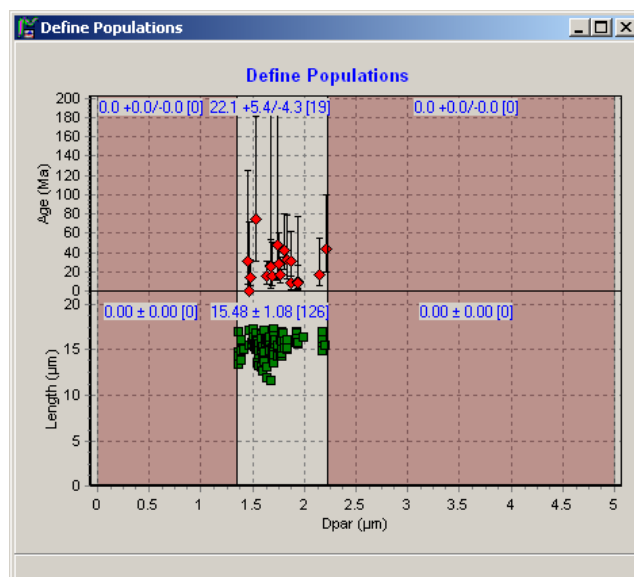
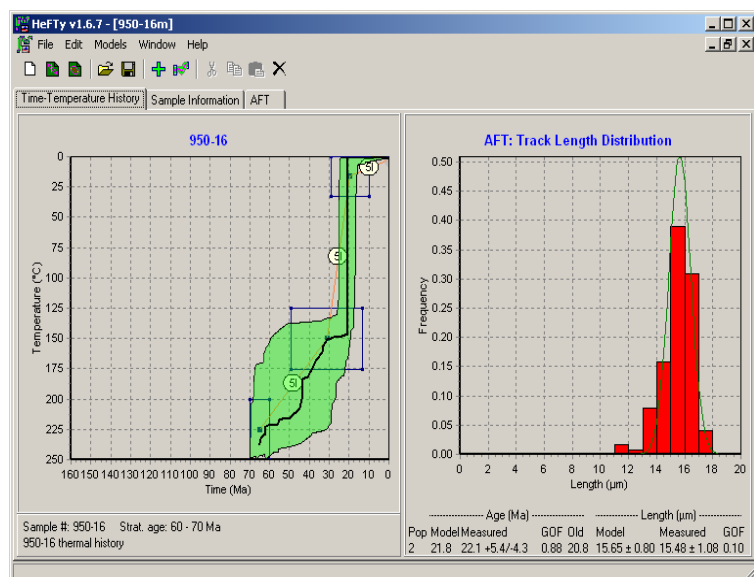


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-15
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.60: ≥37.4±6.2 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

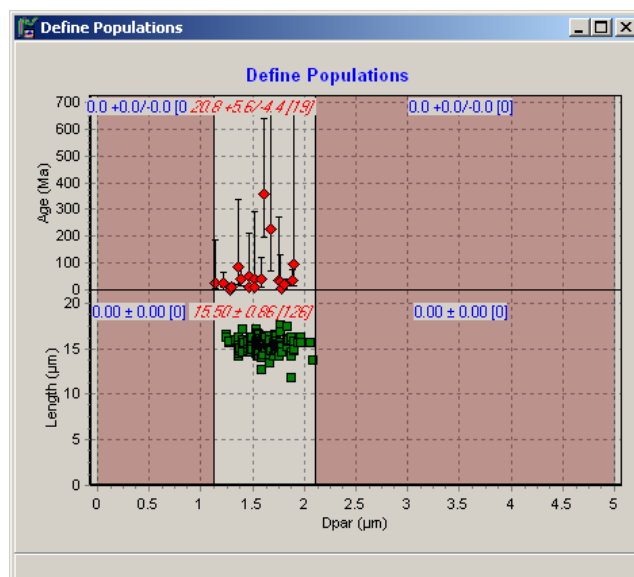
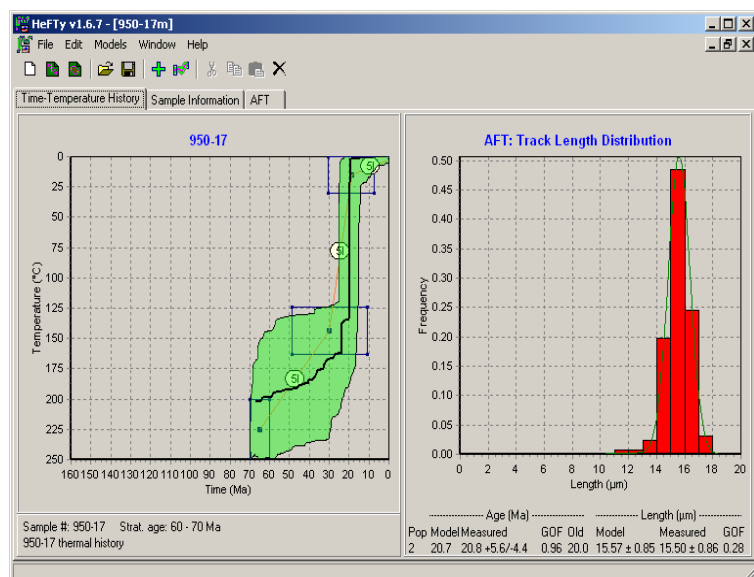


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-16
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary (~65-20 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma $\pm 2\sigma$)	Dpar (μm)=1.79: $\geq 20.8 \pm 4.0$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Miocene
EasyRo (% reflectance)	Not Applicable

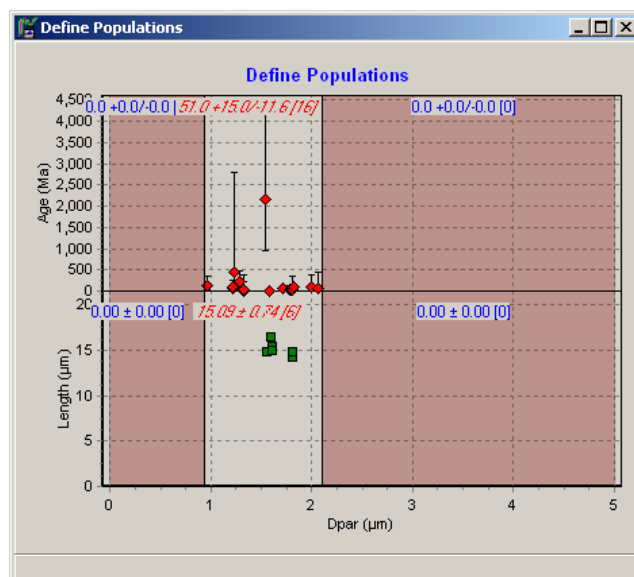
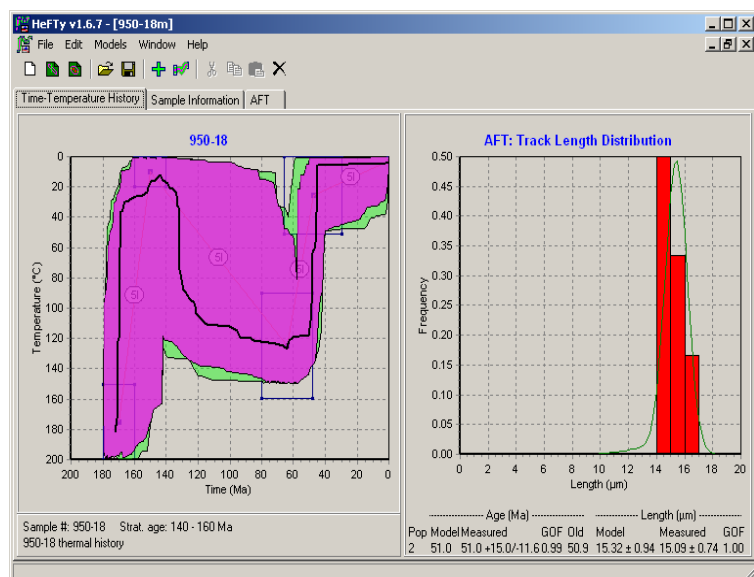


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-17
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary (~65-20 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.61: ≥20.0±4.2 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Miocene
EasyRo (% reflectance)	Not Applicable

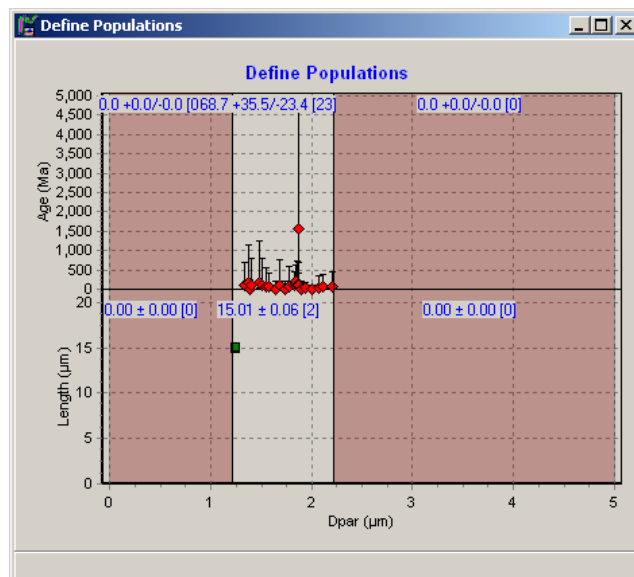
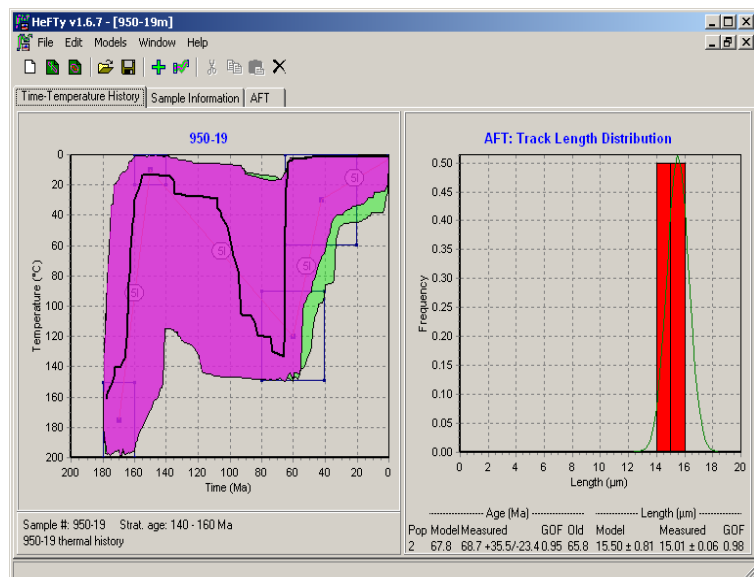


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-18
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Jurassic (~180-140 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.52: $\geq 50.9 \pm 11.6$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene – possible minor recent cooling
EasyRo (% reflectance)	$>0.69 \pm 0.01\%$ (post deposition)

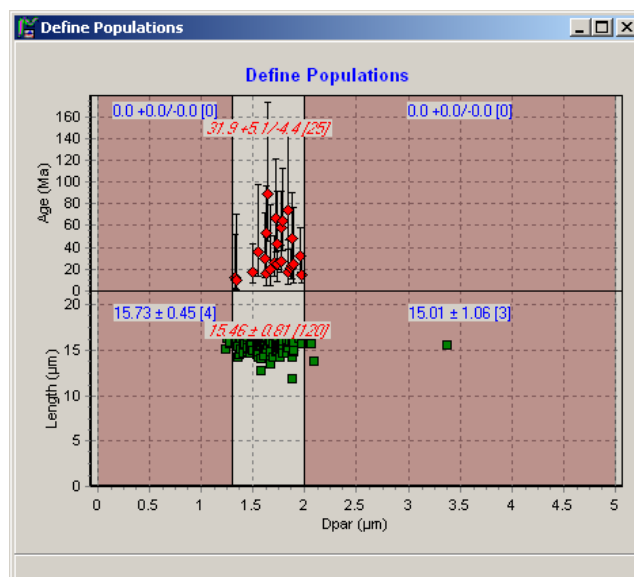
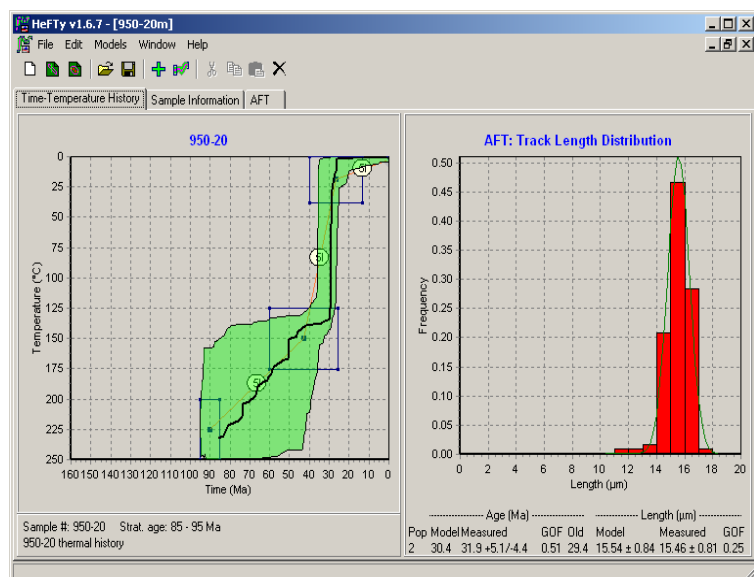


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-19
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Jurassic (~180-140 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.72: ≥65.8±22.4 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Paleocene with possible minor recent cooling
EasyRo (% reflectance)	>0.68±0.01% (post deposition)

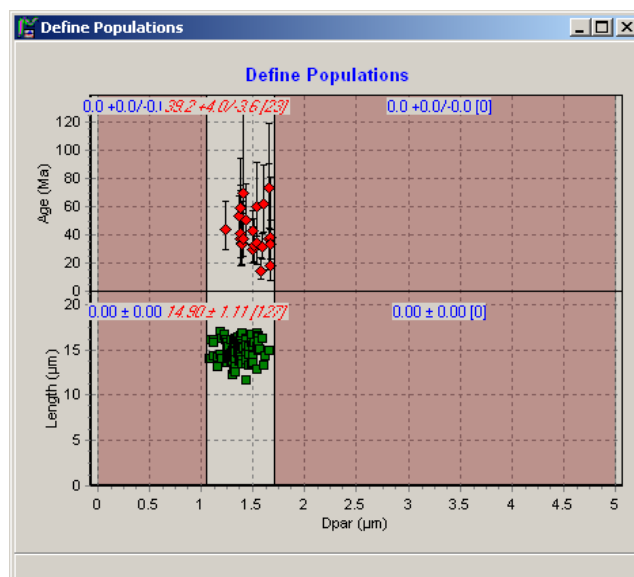
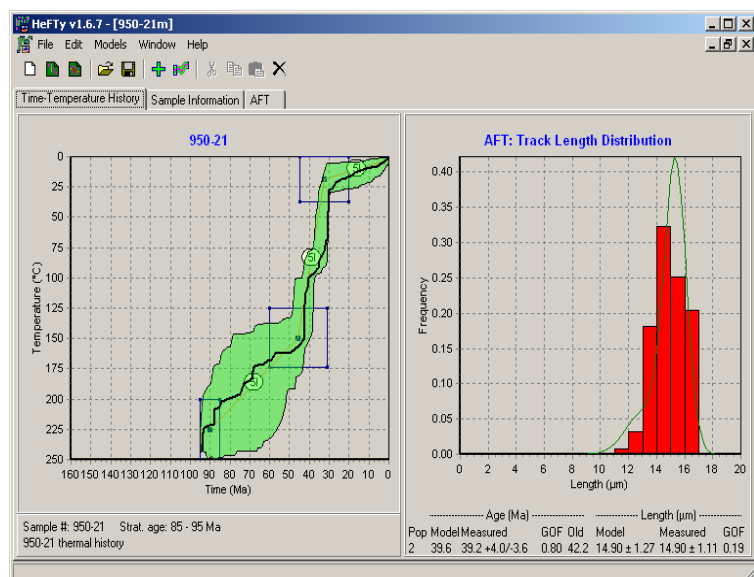


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-20
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.64: ≥29.4±4.1 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable

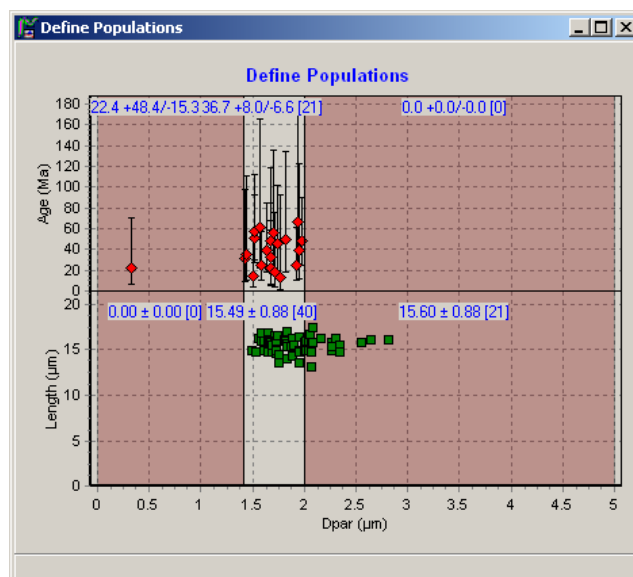
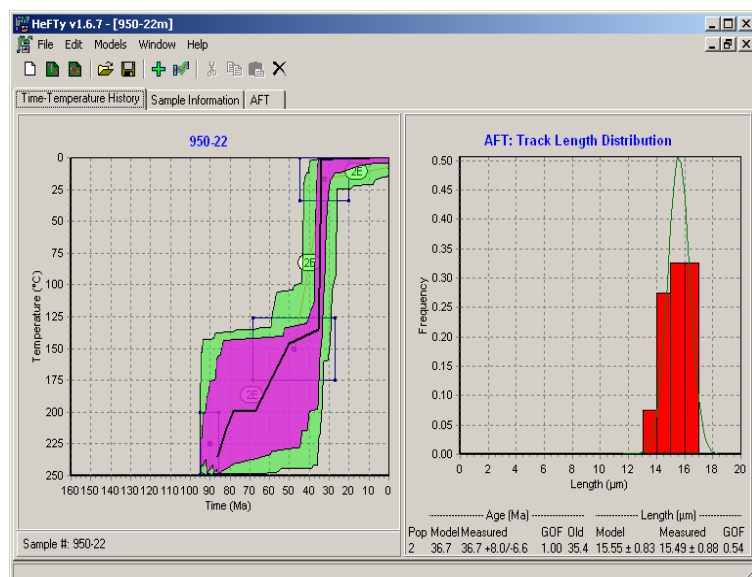


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-21
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous (~85-65 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.37: ≥42.2±3.9 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

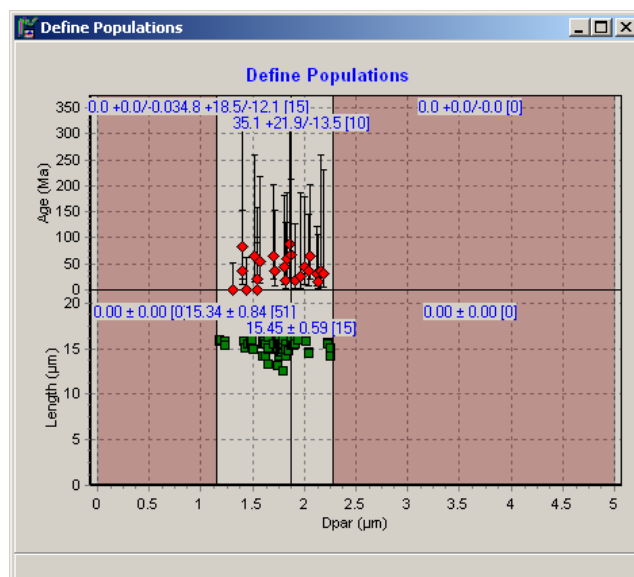
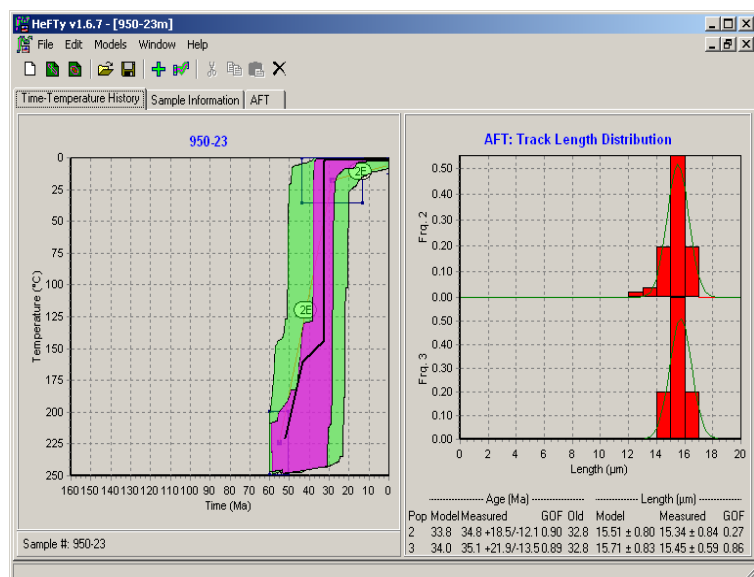


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-22
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous (~85-65 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma $\pm 2\sigma$)	Dpar (μm)=1.70: $\geq 35.4 \pm 6.4$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable

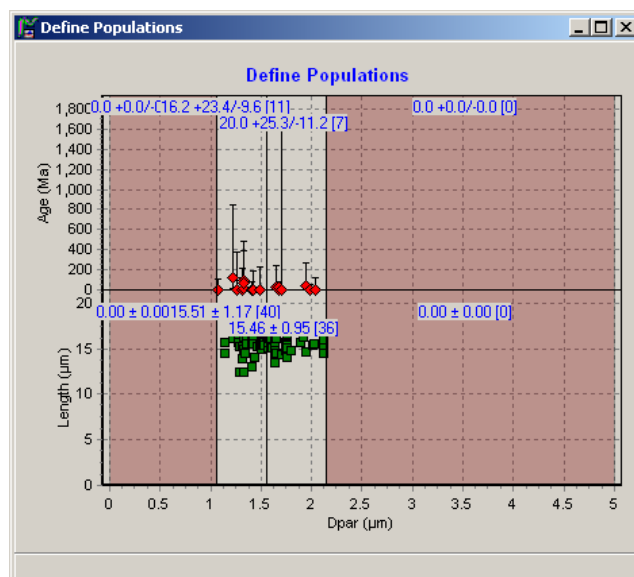
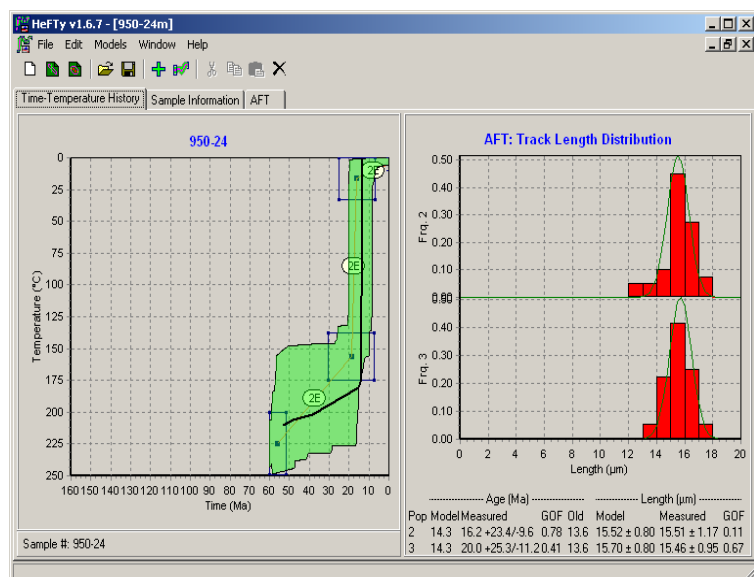


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-23
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary (~65-20 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.52: $\geq 32.8 \pm 11.4$ Ma
Thermal History Following Primary Cooling	Dpar (μm)=2.06: $\geq 32.8 \pm 12.6$ Ma Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable

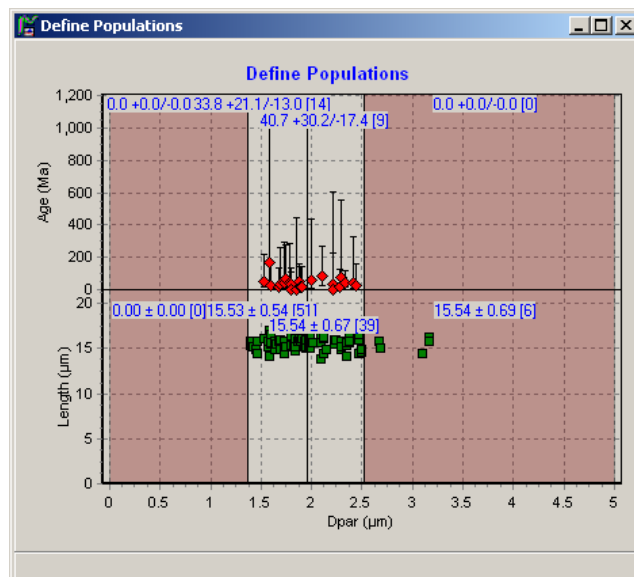
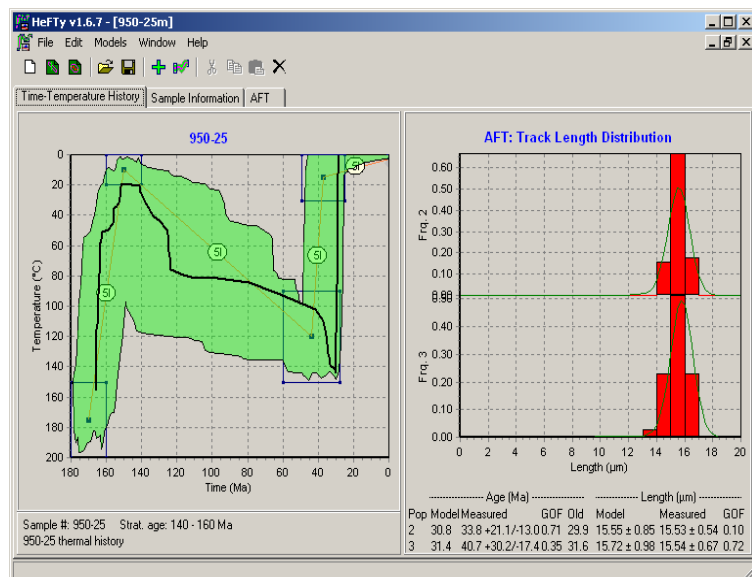


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-24
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary (~65-20 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.32: $\geq 13.6 \pm 8.1$ Ma
Thermal History Following Primary Cooling	Dpar (μm)=1.84: $\geq 13.6 \pm 7.6$ Ma
EasyRo (% reflectance)	Remained at low temperatures since rapid cooling in the Miocene
	Not Applicable

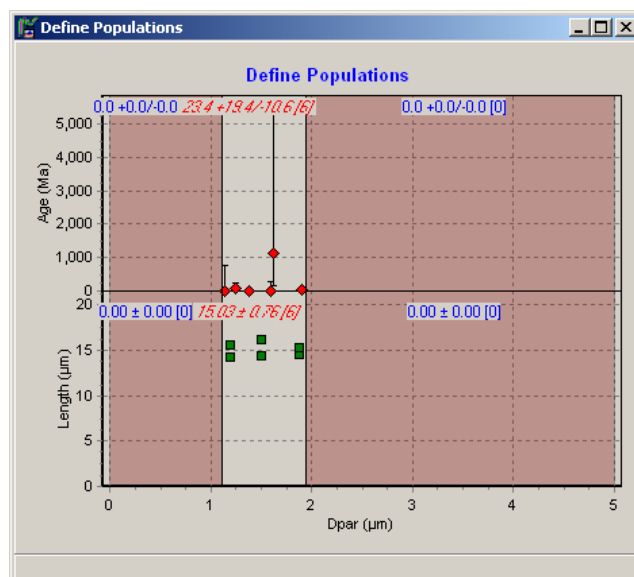
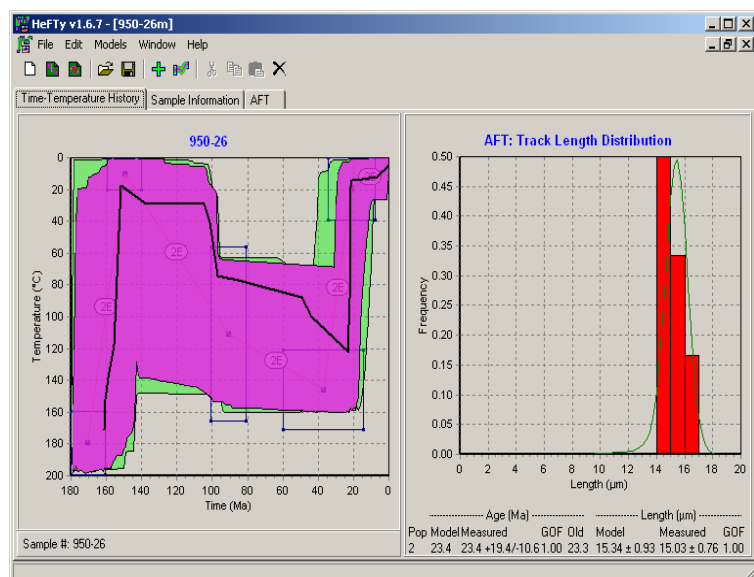


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-25
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Jurassic (~180-140 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.67: ≥29.9±11.5 Ma
Thermal History Following Primary Cooling	Dpar (μm)=2.23: ≥31.6±13.5 Ma
EasyRo (% reflectance)	Remained at low temperatures since rapid cooling in the Oligocene >0.69±0.01% (post deposition)

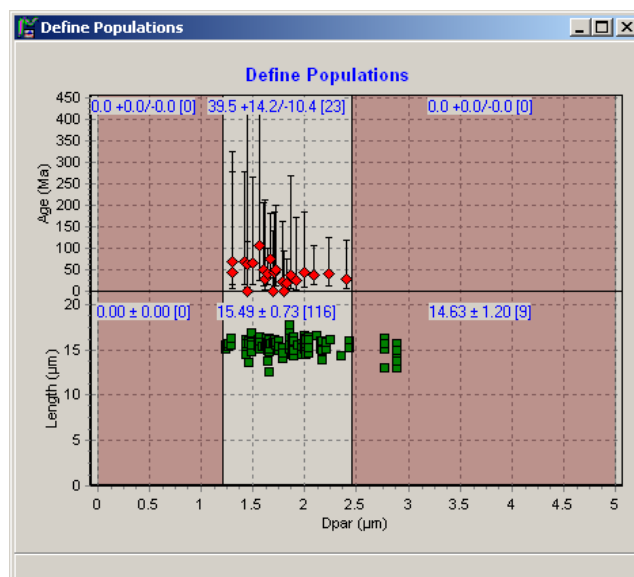
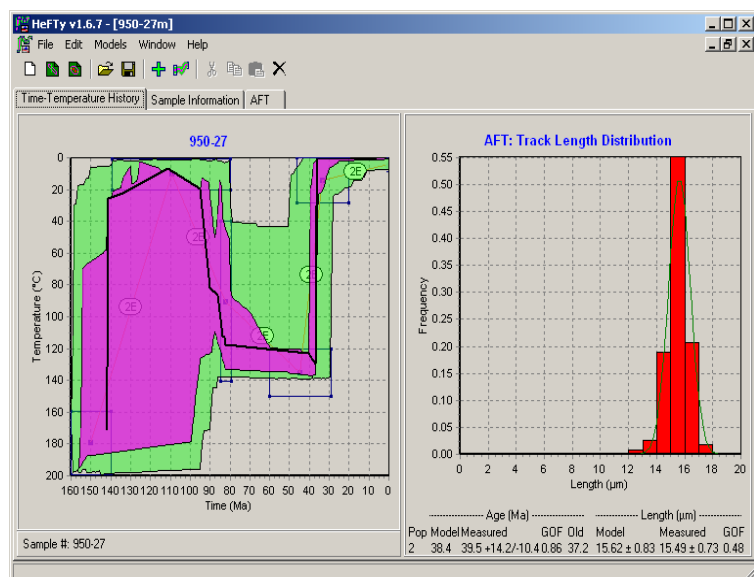


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-26
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Jurassic (~180-140 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.52: $\geq 23.3 \pm 10.4$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Miocene
EasyRo (% reflectance)	$> 0.67 \pm 0.01\%$ (post deposition)



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

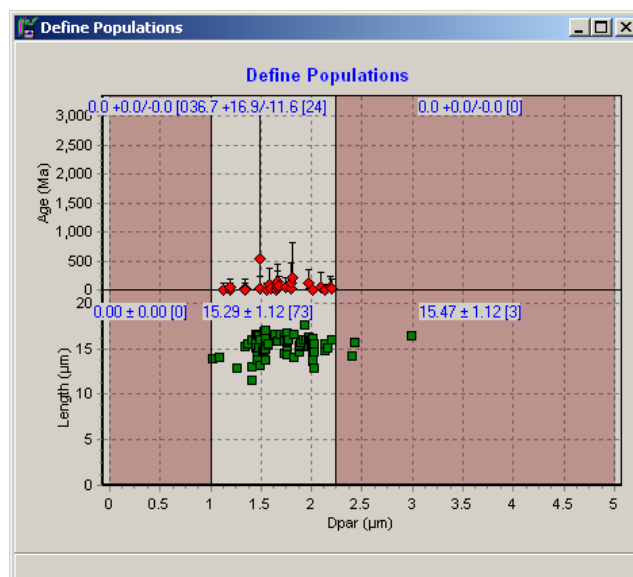
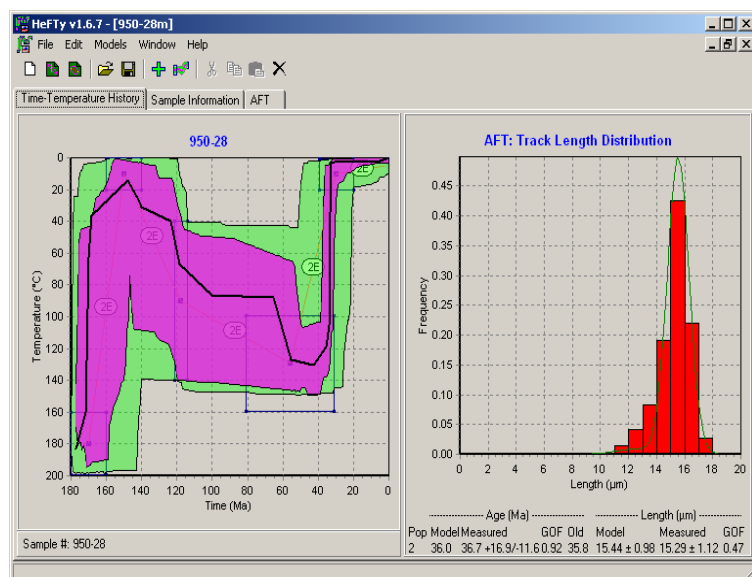
950-27
 Dpar (μm)
 U. Jurassic – L. Cretaceous (~140-80 Ma)
 0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma $\pm 2\sigma$)
Thermal History Following Primary Cooling

EasyRo (% reflectance)

Dpar (μm)=1.83: $\geq 37.2 \pm 9.8$ Ma
 Remained at low temperatures since rapid cooling in the Eocene
 $>0.65 \pm 0.01\%$ (post deposition)

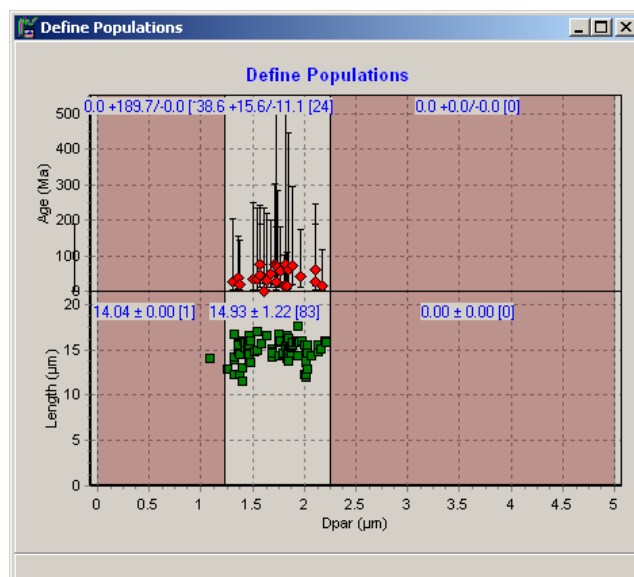
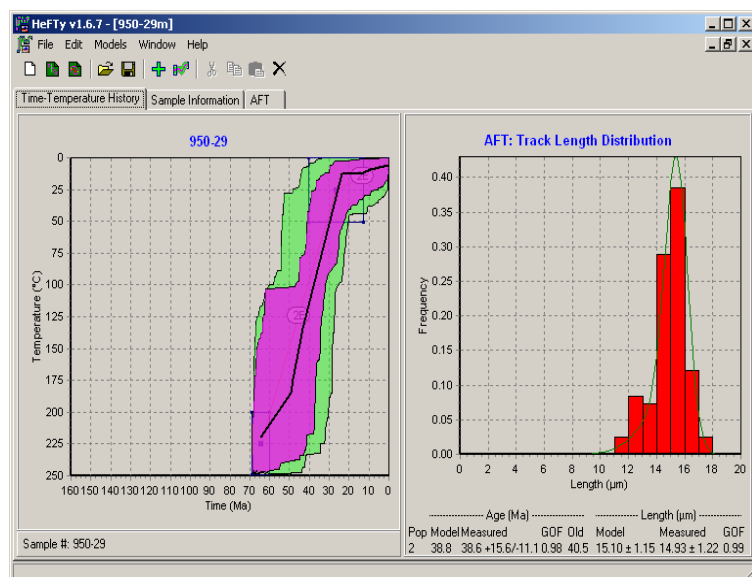


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-28
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Jurassic (~180-140 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.61: ≥35.8±11.3 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	>0.69±0.01% (post deposition)

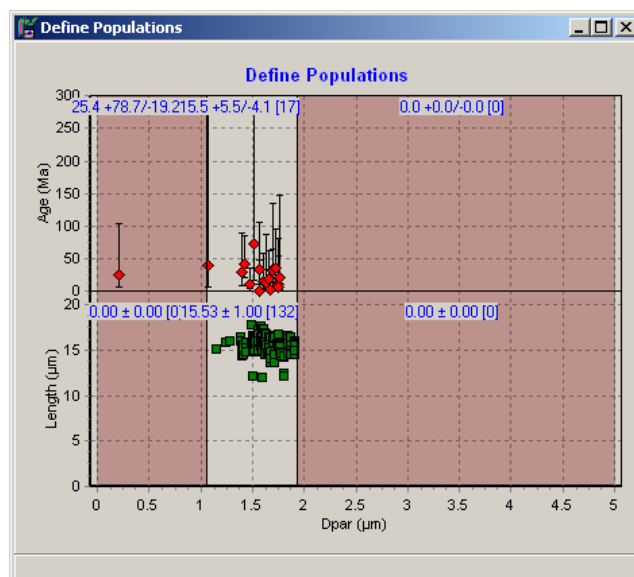
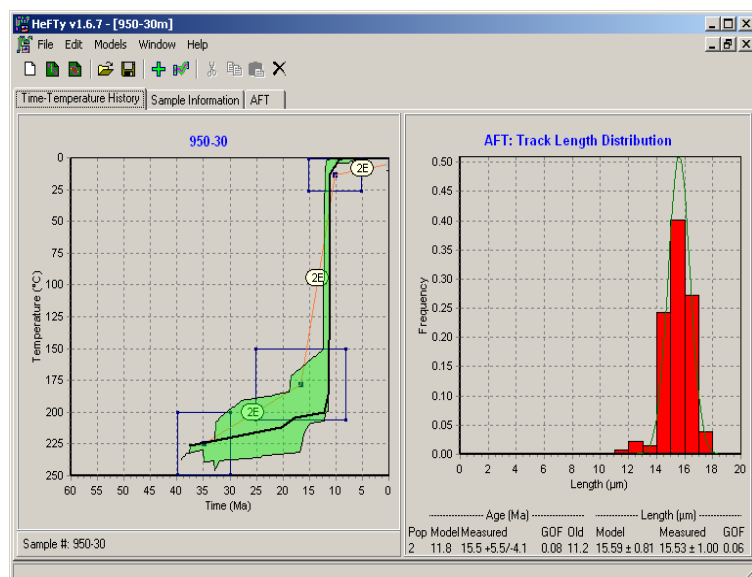


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-29
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary (~65-20 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.74: ≥40.5±11.6 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

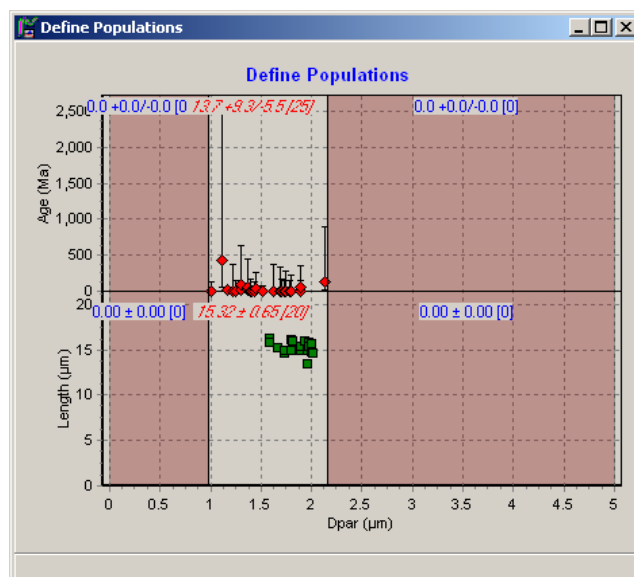
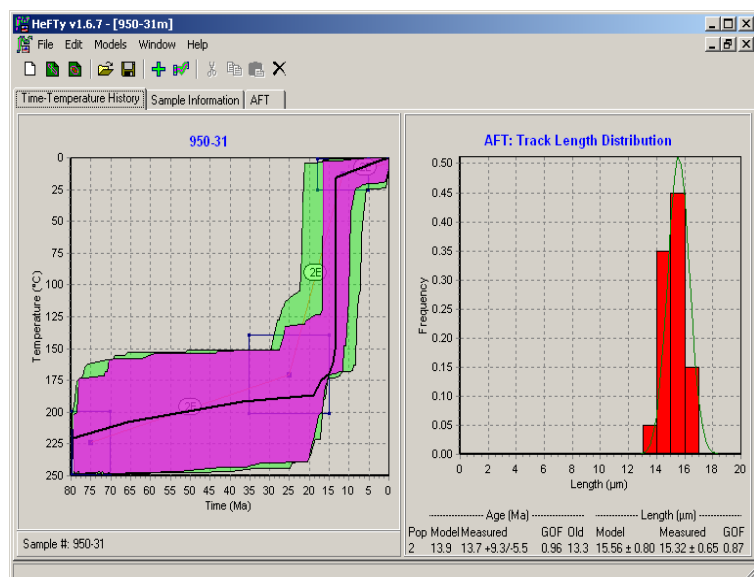


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-30
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous (~85-65 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.49: ≥11.2±3.0 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Miocene
EasyRo (% reflectance)	Not Applicable

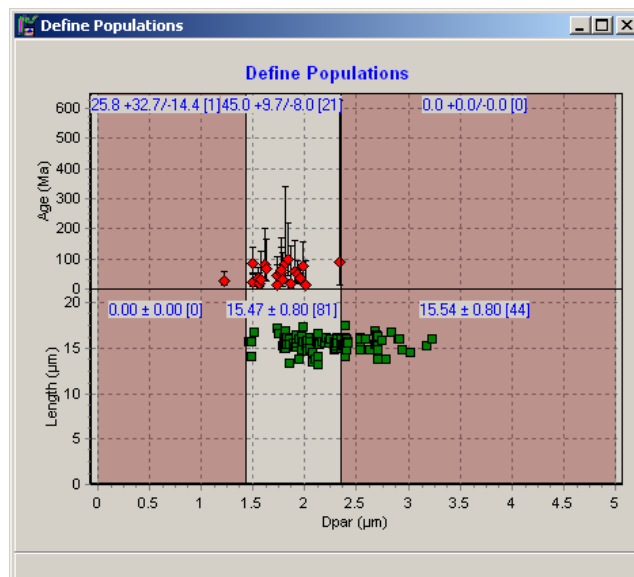
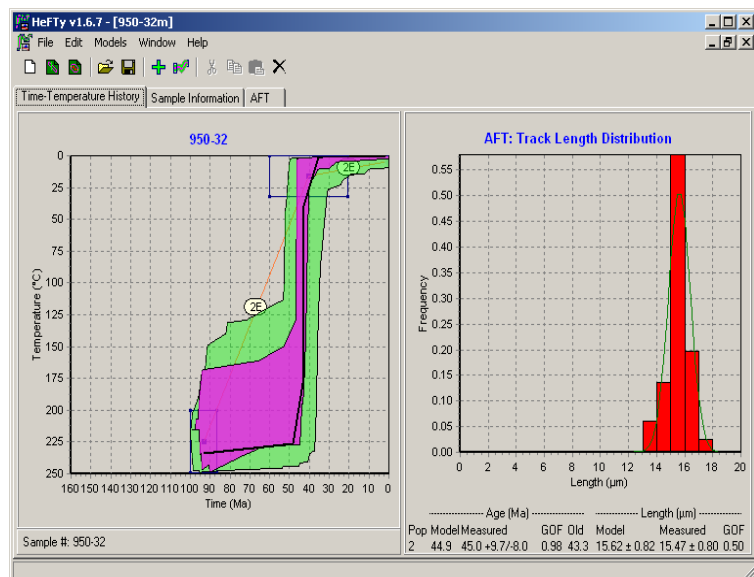


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-31
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous (~85-65 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.57: $\geq 13.3 \pm 5.3$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Miocene
EasyRo (% reflectance)	Not Applicable

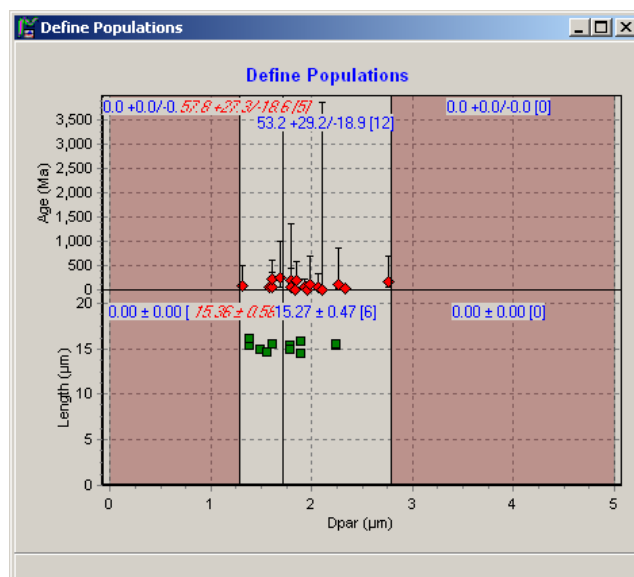
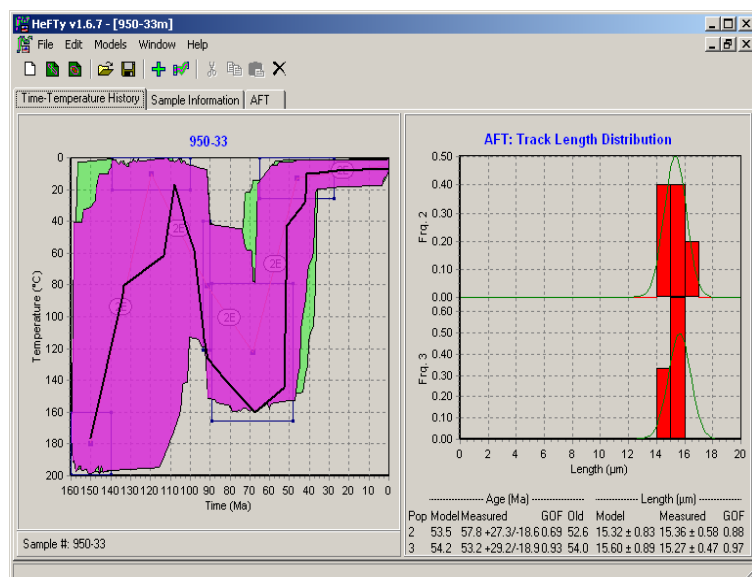


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-32
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.90: ≥43.3±7.7 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

950-33
 Dpar (μm)
 U. Jurassic – L. Cretaceous (~140-80 Ma)
 0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)

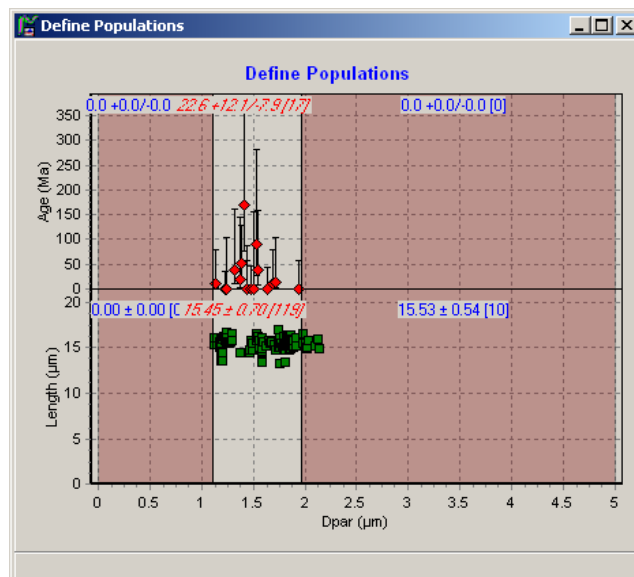
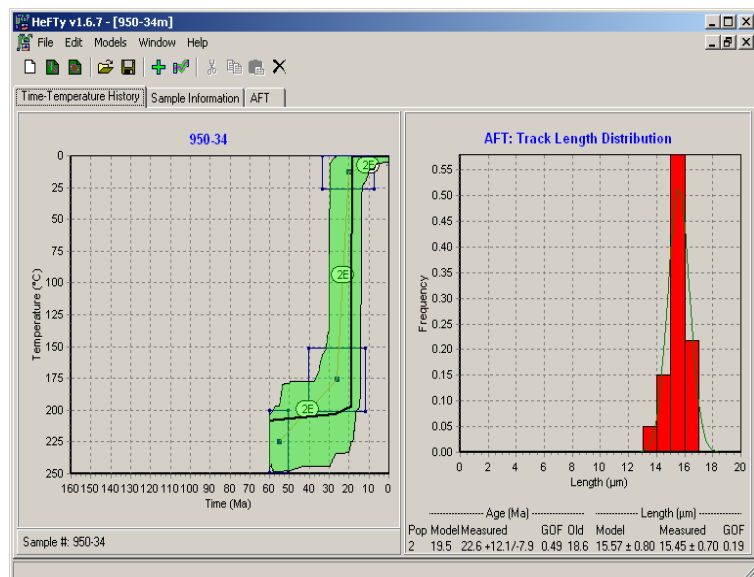
Dpar (μm)=1.50: $\geq 52.6 \pm 16.9$ Ma

Thermal History Following Primary Cooling

Dpar (μm)=2.27: $\geq 54.0 \pm 19.2$ Ma

EasyRo (% reflectance)

Remained at low temperatures since rapid cooling in the Eocene
 $> 0.65 \pm 0.01\%$ (post deposition)

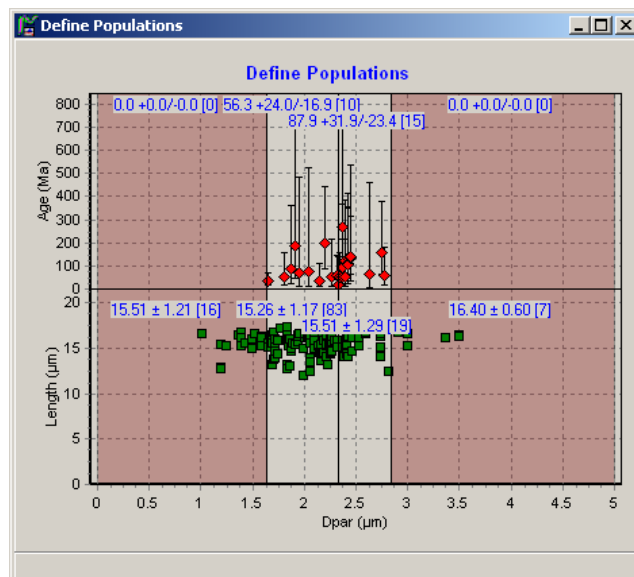
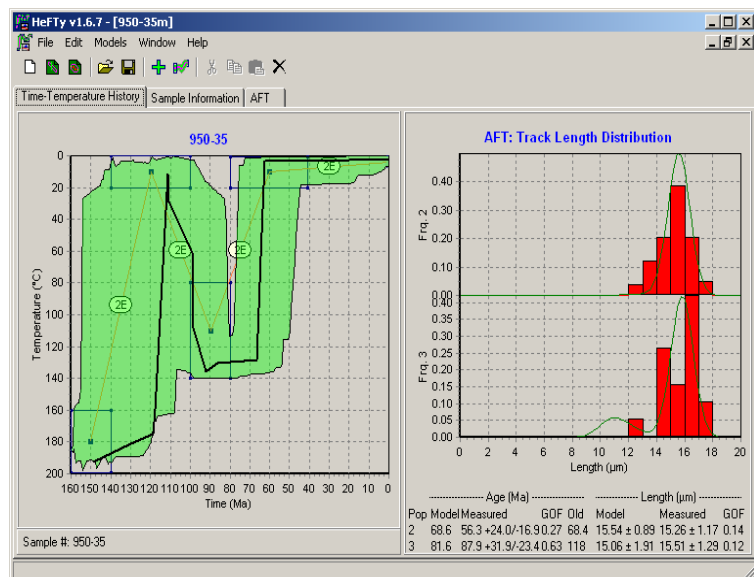


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-34
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.53: $\geq 18.6 \pm 6.5$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Miocene
EasyRo (% reflectance)	Not Applicable



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

950-35
Dpar (μm)
U. Jurassic – L. Cretaceous (~140-80 Ma)
0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)

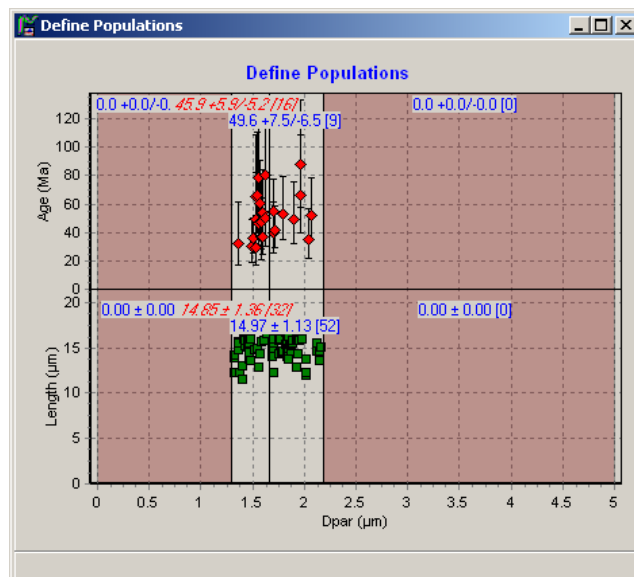
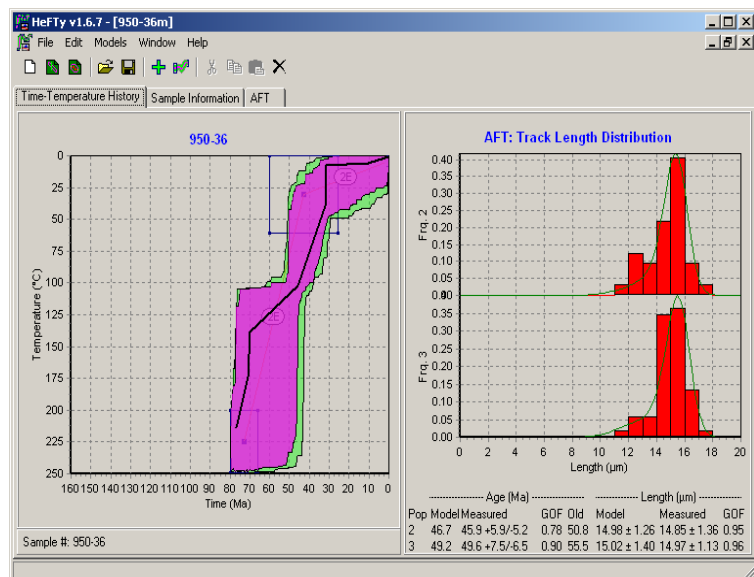
Dpar (μm)=1.98: ≥68.4±20.5 Ma

Thermal History Following Primary Cooling

Dpar (μm)=2.57: ≥118±31.4 Ma

EasyRo (% reflectance)

Remained at low temperatures since rapid cooling in the Lt. Cretaceous to Paleocene
>0.68±0.01% (post deposition)

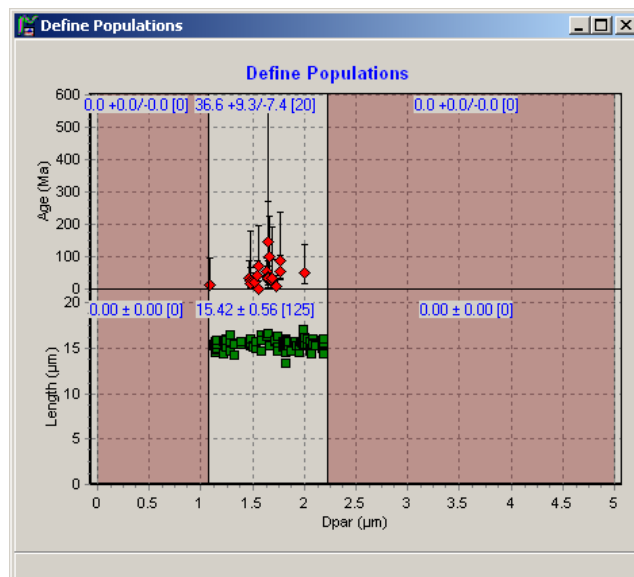
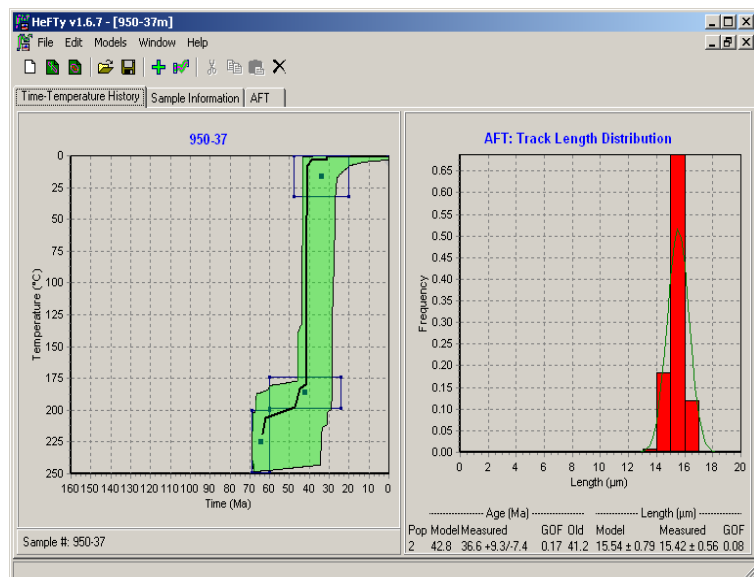


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-36
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma $\pm 2\sigma$)	Dpar (μm)=1.48: $\geq 50.8 \pm 5.8$ Ma
Thermal History Following Primary Cooling	Dpar (μm)=1.92: $\geq 55.5 \pm 7.3$ Ma
EasyRo (% reflectance)	Remained at low temperatures since rapid cooling in the Eocene
	Not Applicable

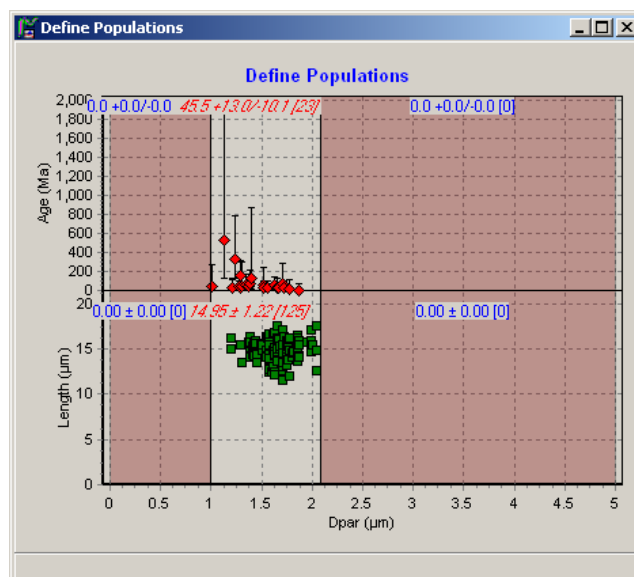
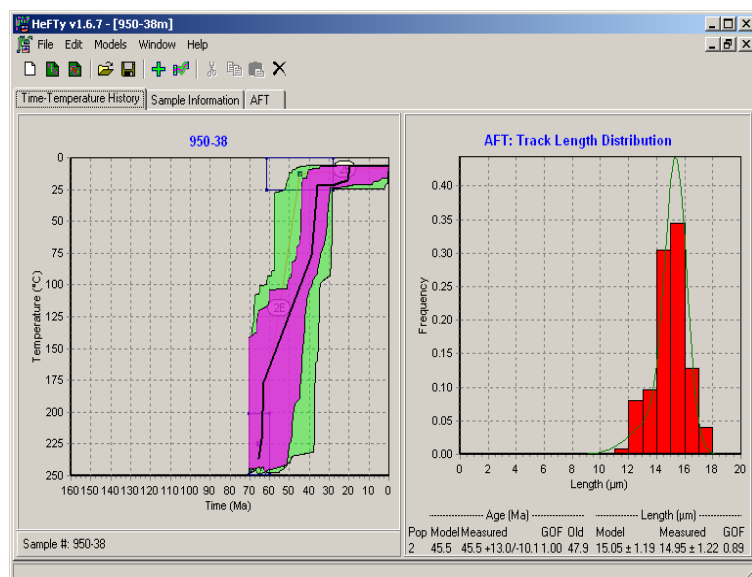


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-37
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.64: ≥41.2±8.3 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

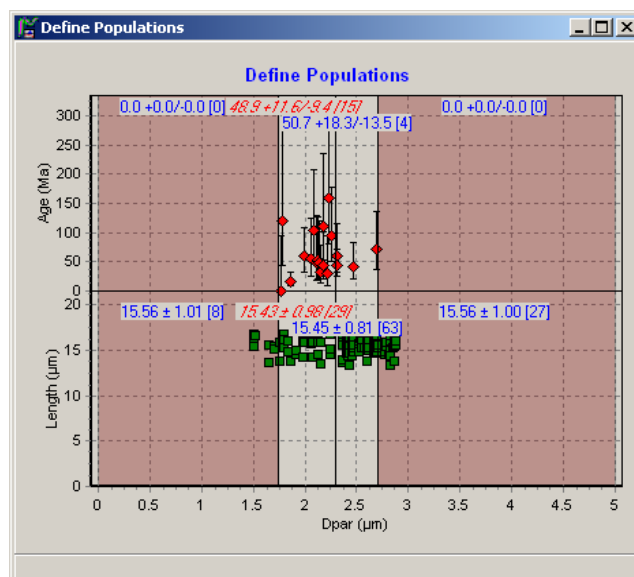
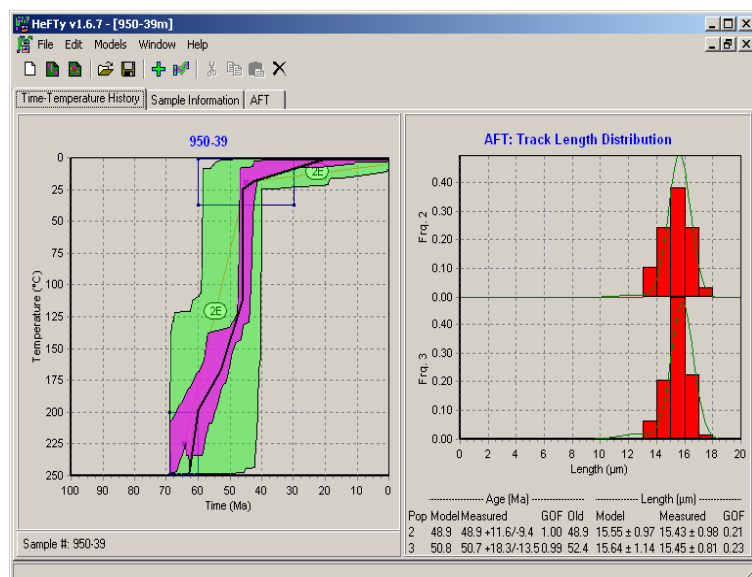


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-38
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.53: ≥47.9±10.6 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

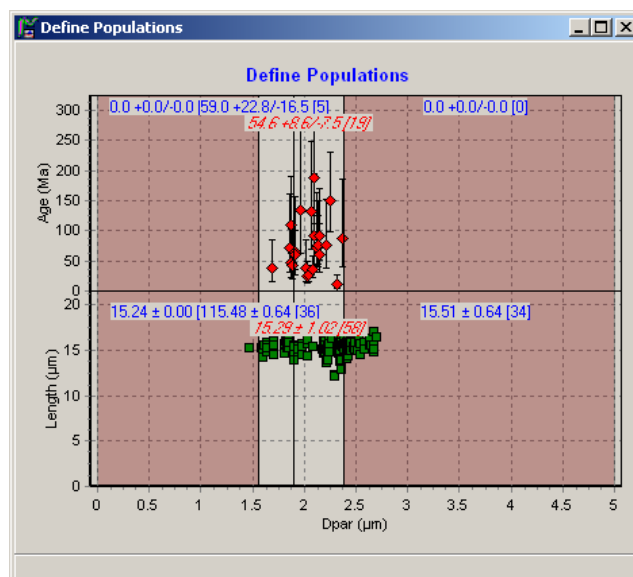
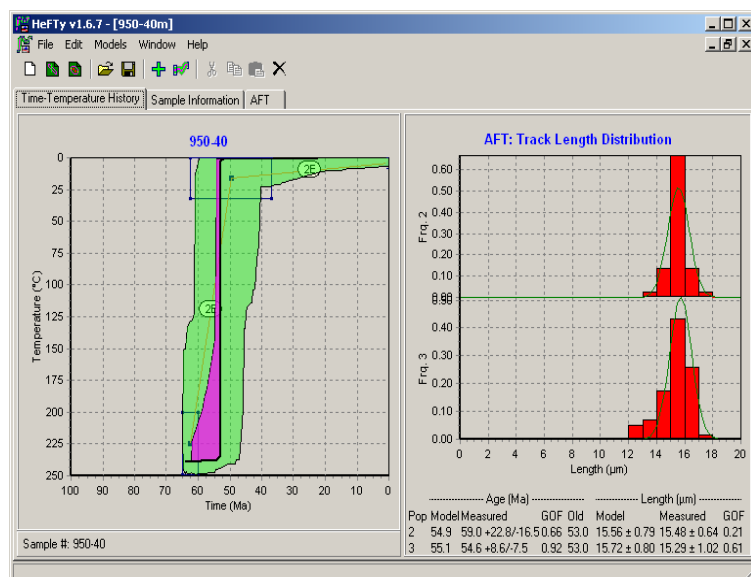


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-39
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma $\pm 2\sigma$)	Dpar (μm)=2.00: $\geq 48.9 \pm 9.4$ Ma
Thermal History Following Primary Cooling	Dpar (μm)=2.51: $\geq 52.4 \pm 14.0$ Ma Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

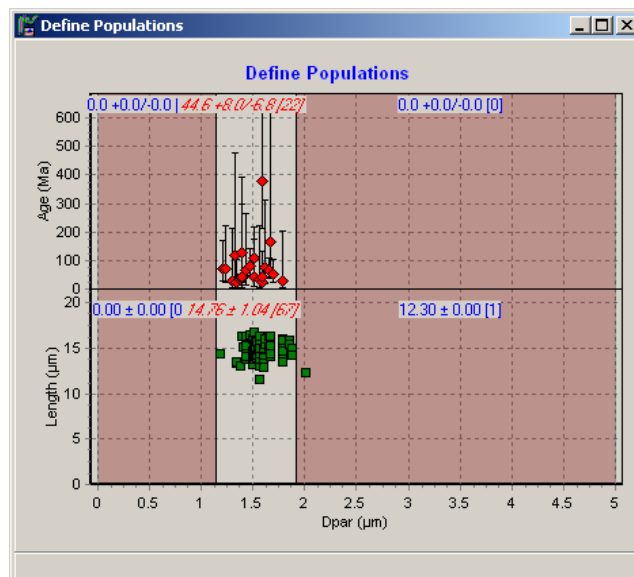
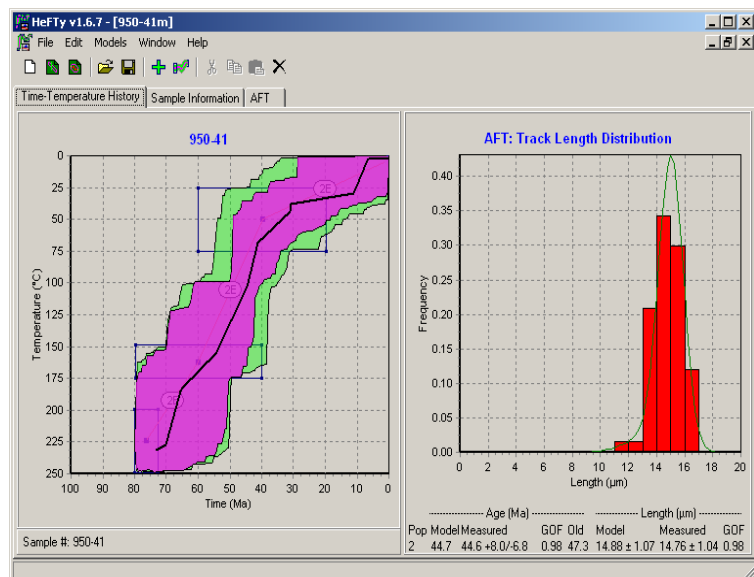


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-40
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.74: ≥53.0±14.8 Ma
Thermal History Following Primary Cooling	Dpar (μm)=2.14: ≥53.0±7.3 Ma
	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

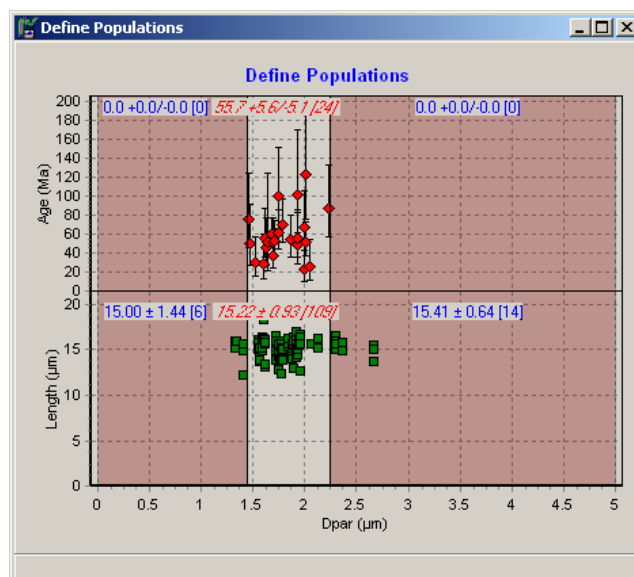
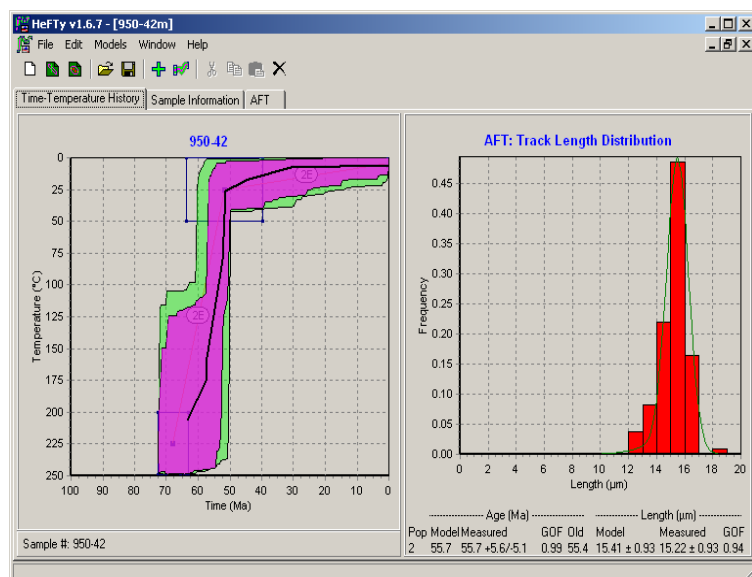


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-41
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.53: $\geq 47.3 \pm 7.2$ Ma
Thermal History Following Primary Cooling	Protracted cooling since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

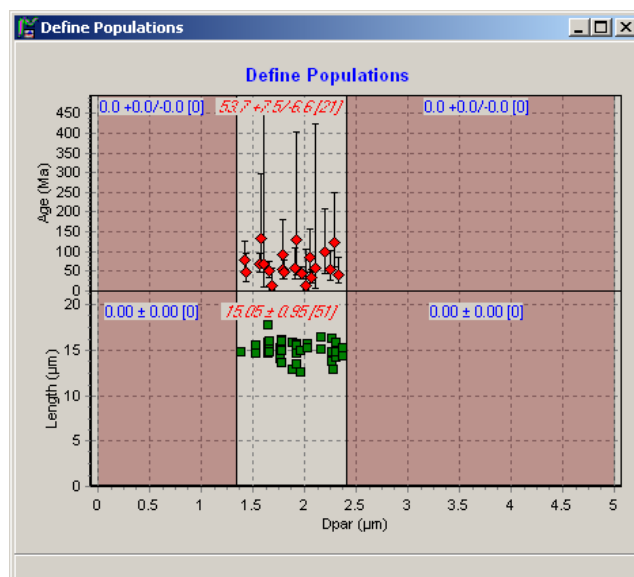
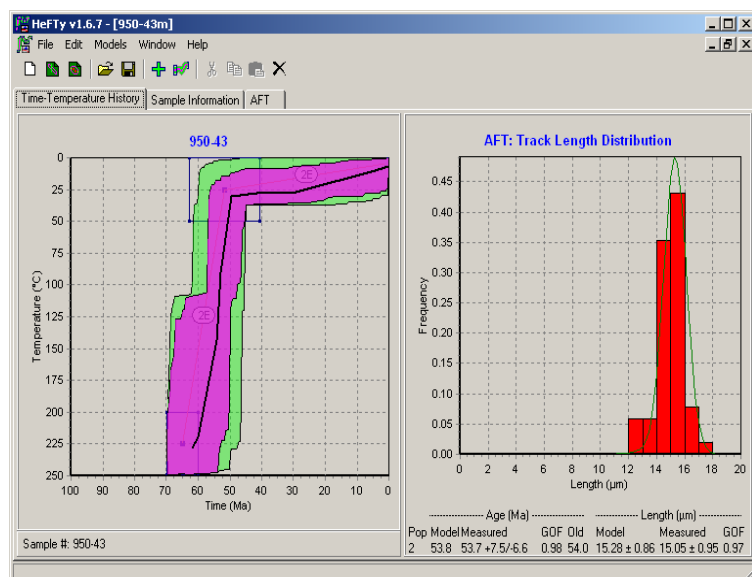


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-42
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.84: ≥55.4±5.1 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

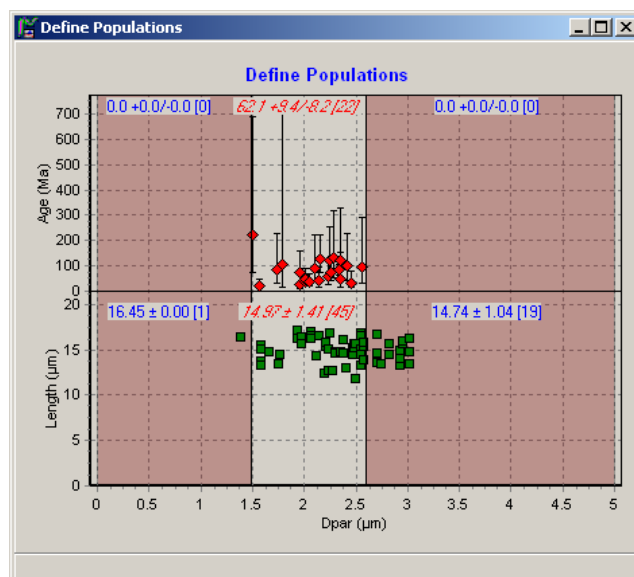
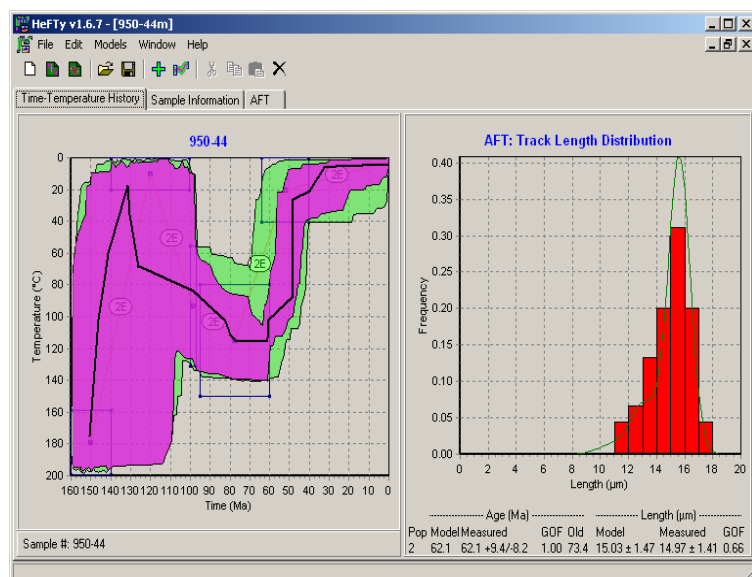


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-43
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.87: $\geq 54.0 \pm 6.6$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

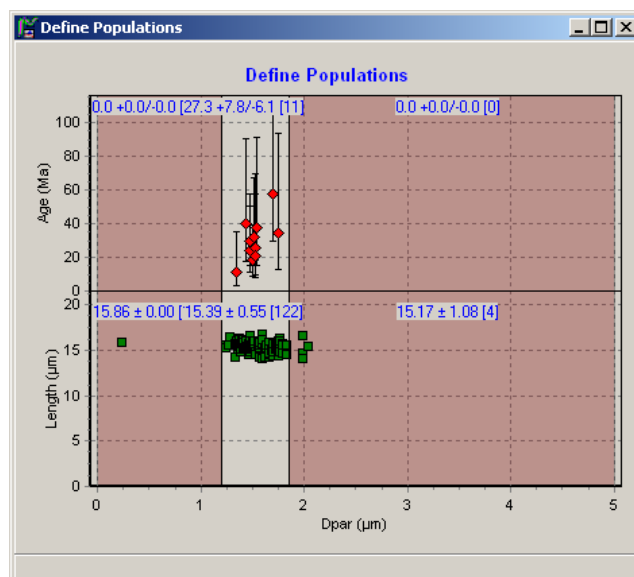
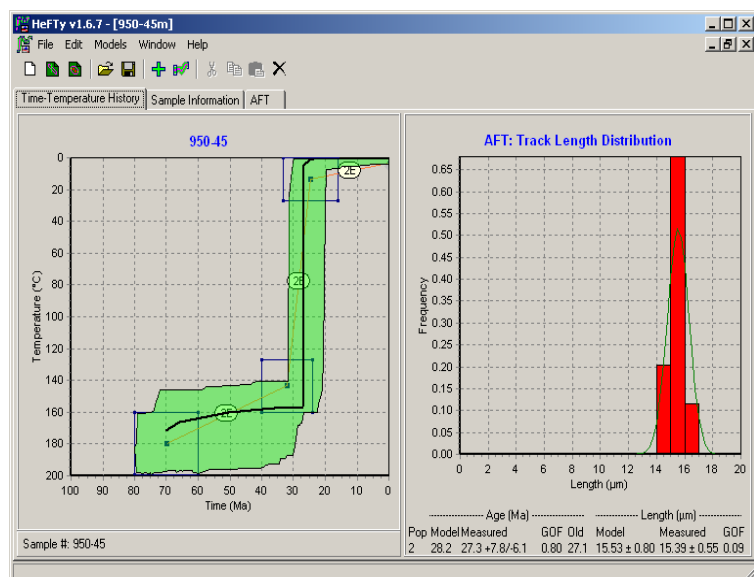


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-44
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	U. Jurassic – L. Cretaceous (~140-80 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=2.04: $\geq 73.4 \pm 9.7$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Late Cretaceous and Eocene
EasyRo (% reflectance)	$> 0.70 \pm 0.01\%$ (post deposition)

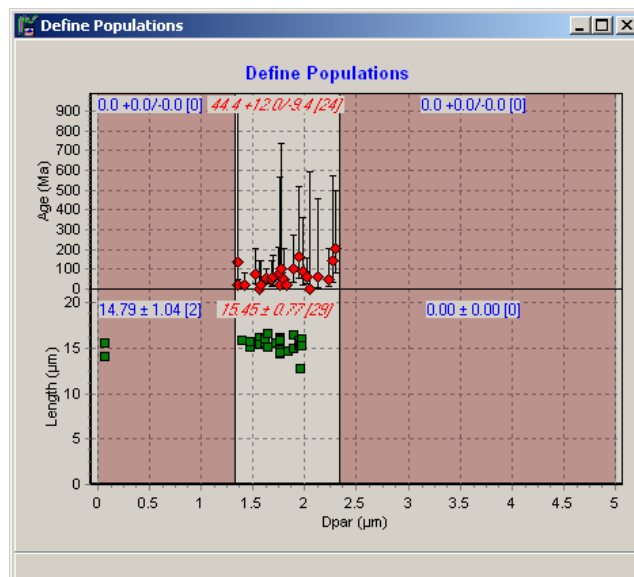
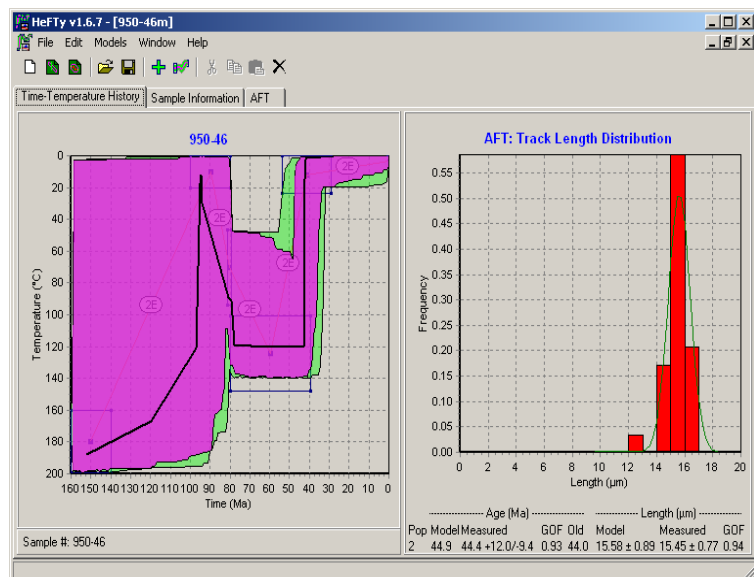


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-45
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous-Tertiary (~85-45 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.53: ≥27.1±6.1 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

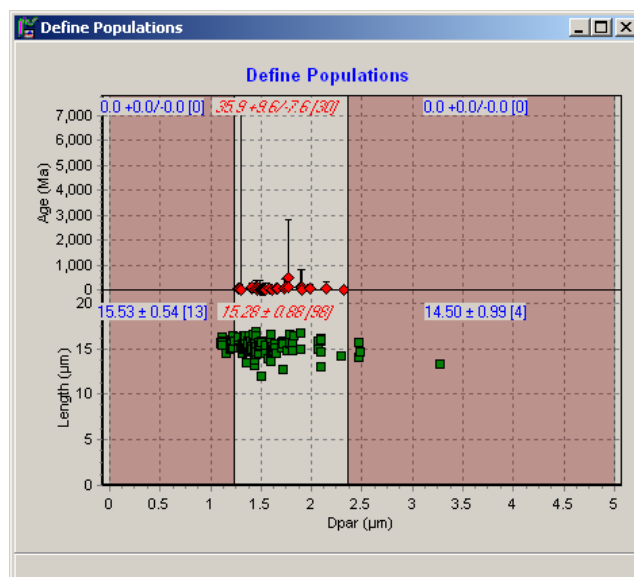
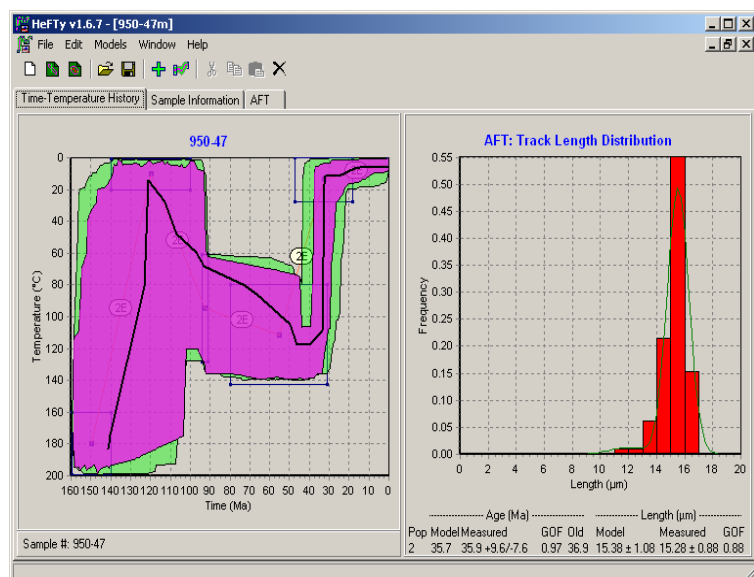
950-46
 Dpar (μm)
 Upper Cretaceous (~95-75 Ma)
 0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)
Thermal History Following Primary Cooling

EasyRo (% reflectance)

Dpar (μm)=1.83: ≥44.0±9.3 Ma
 Remained at low temperatures since rapid cooling in the Eocene
 >0.69±0.01% (post deposition)



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

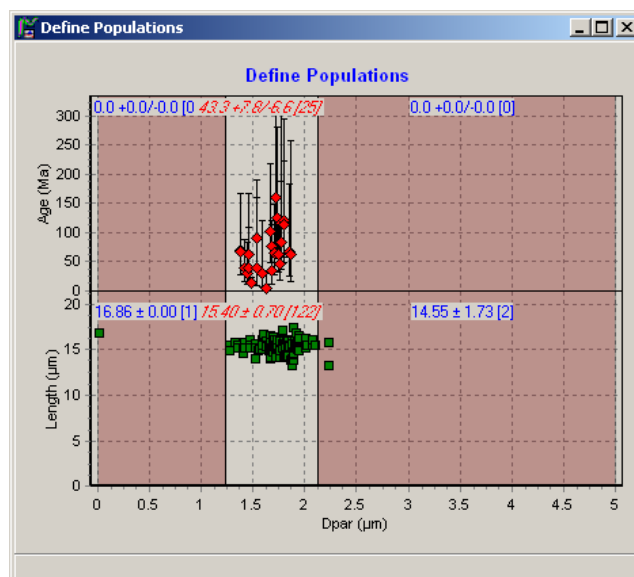
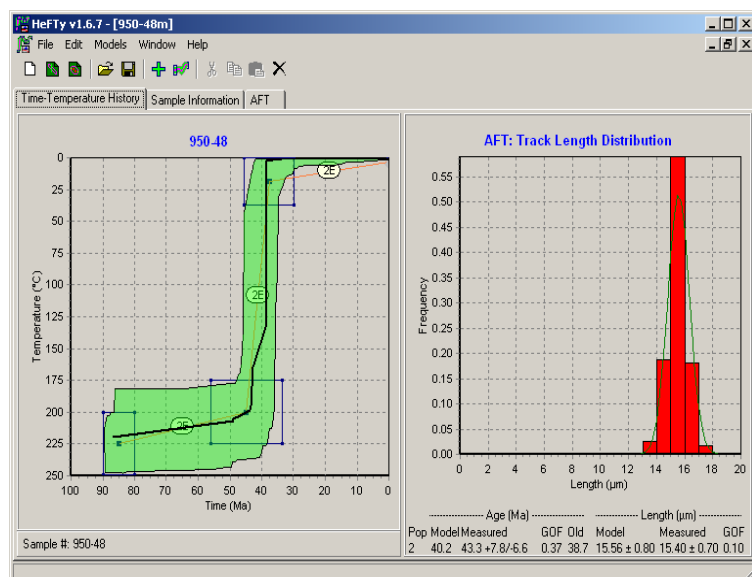
950-47
 Dpar (μm)
 U.Jurassic – L. Cretaceous (~140-80 Ma)
 0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)
Thermal History Following Primary Cooling

EasyRo (% reflectance)

Dpar (μm)=1.78: $\geq 36.9 \pm 7.8$ Ma
 Remained at low temperatures since rapid cooling in the Oligocene
 $> 0.72 \pm 0.01\%$ (post deposition)

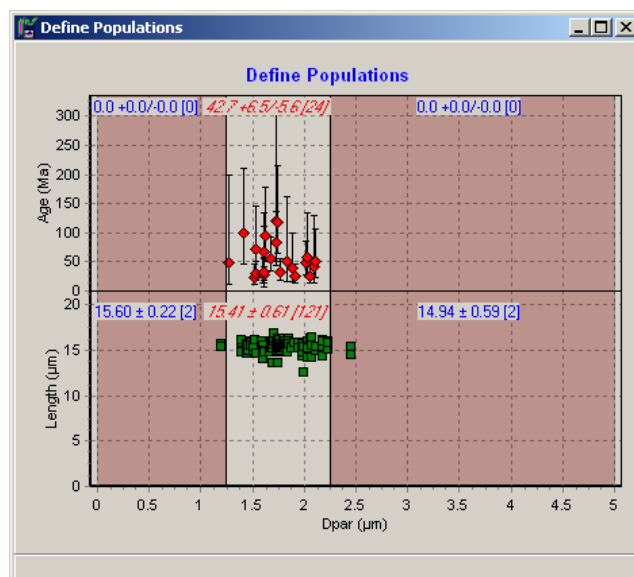
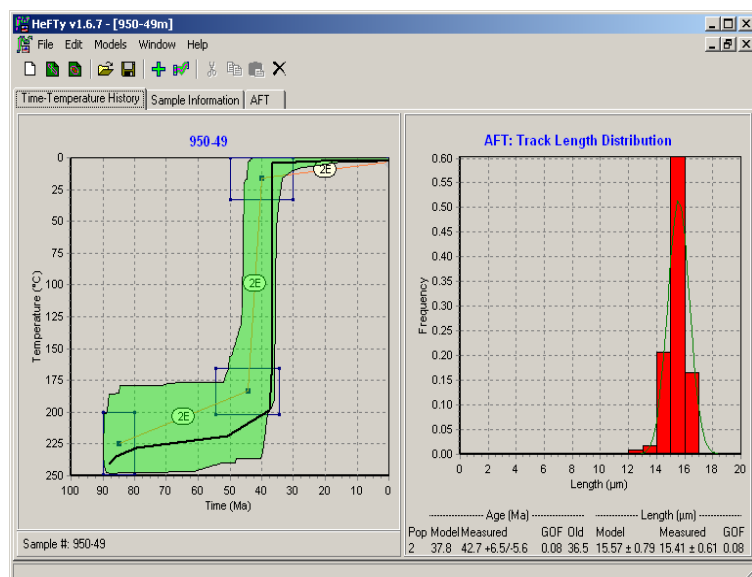


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-48
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous (~90 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.68: ≥38.7±5.9 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

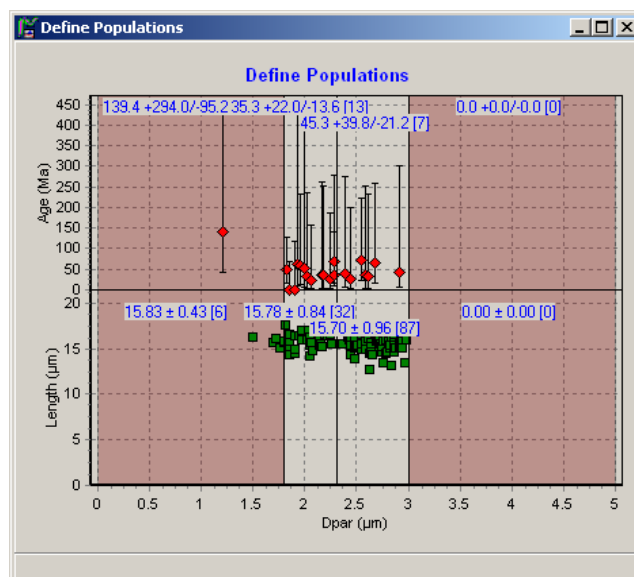
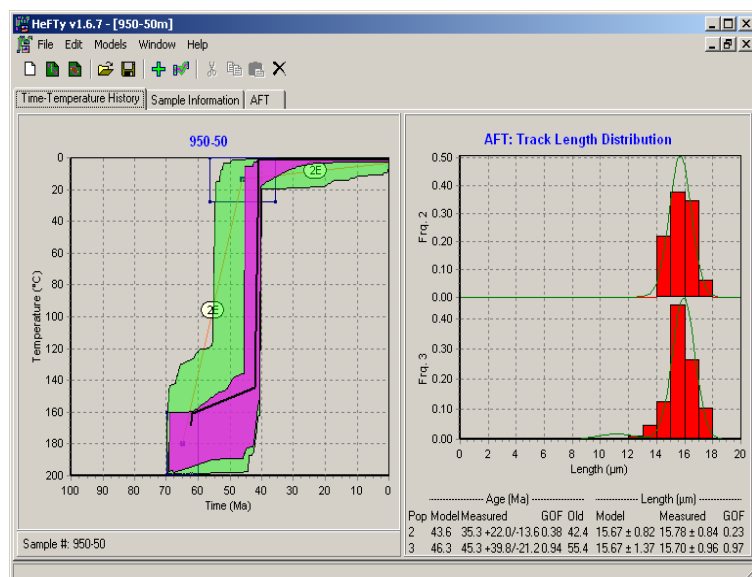


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-49
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous (~90 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.75: ≥36.5±4.8 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable

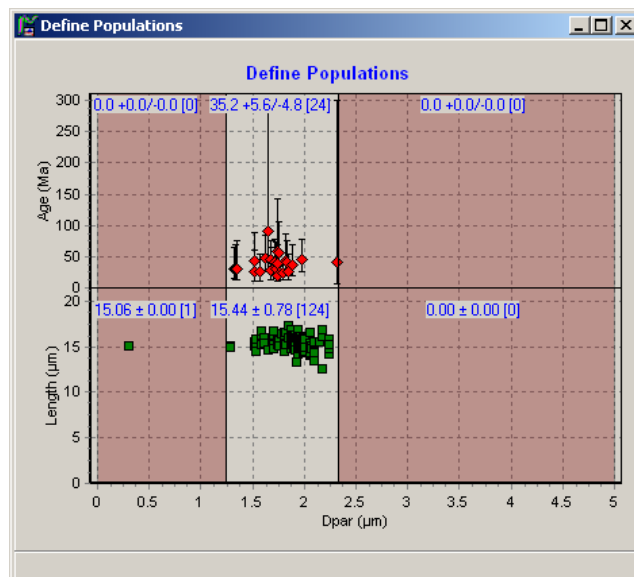
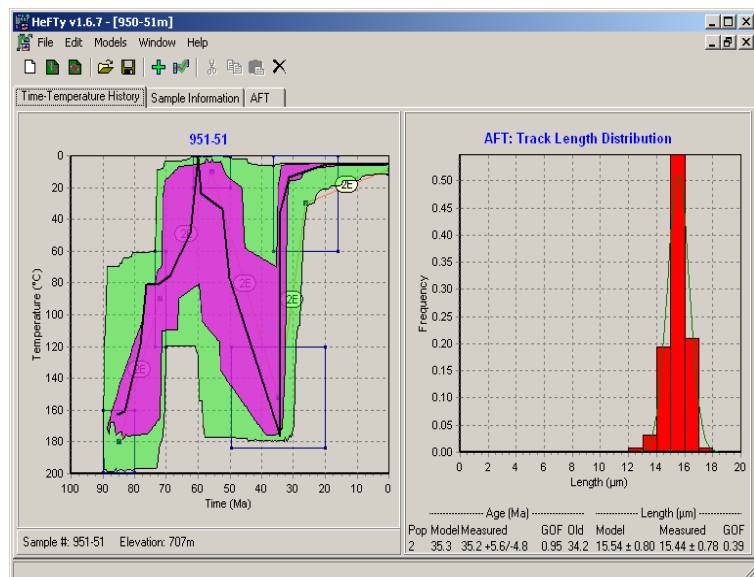


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-50
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary (~65-20 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=2.04: ≥42.4±16.3 Ma
Thermal History Following Primary Cooling	Dpar (μm)=2.67: ≥55.4±25.9 Ma
	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable

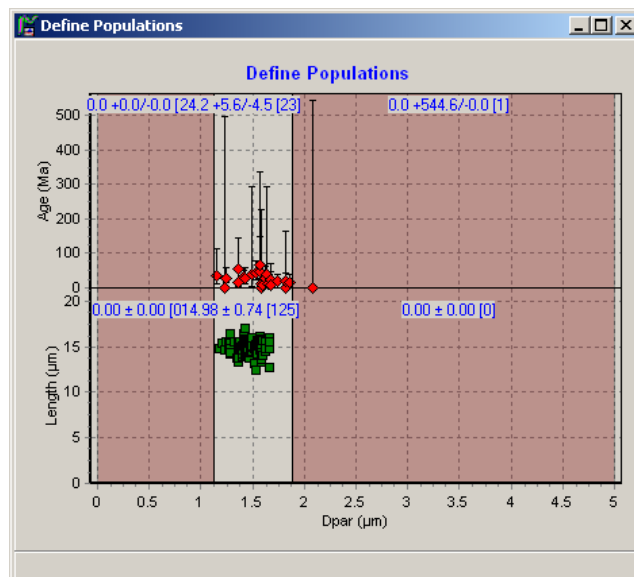
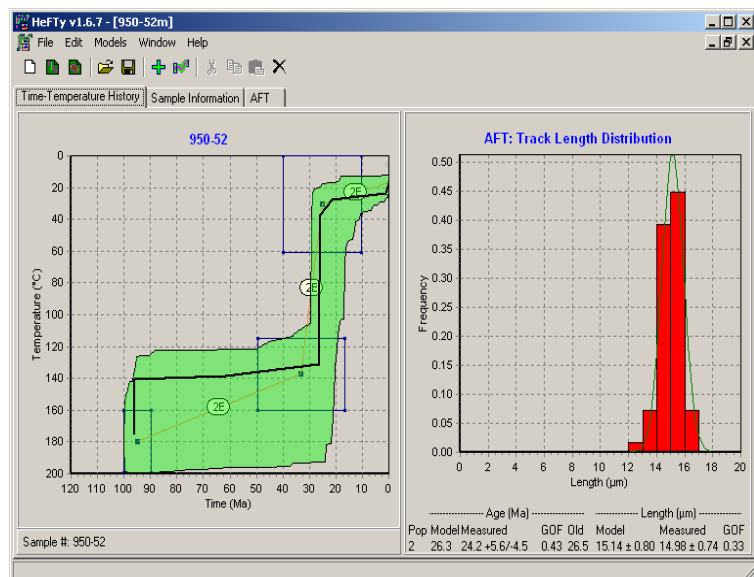


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-51
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary
Assumed Present-day Temperature (°C)	5°-10°

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.80: ≥34.2±4.7 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	>0.68±0.01% (post deposition)

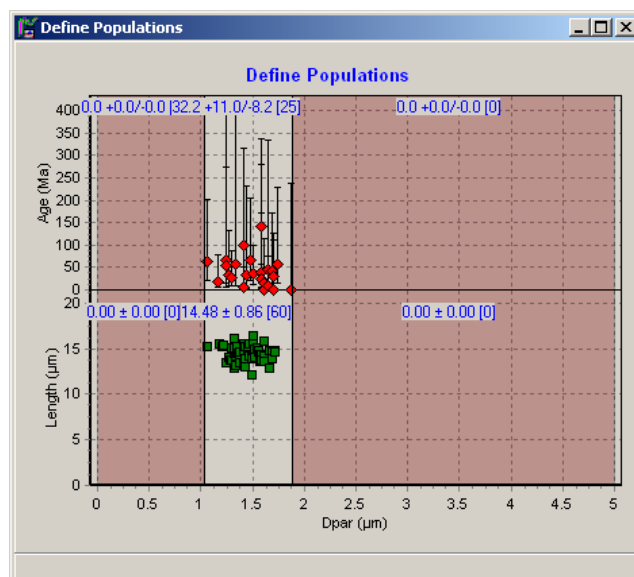
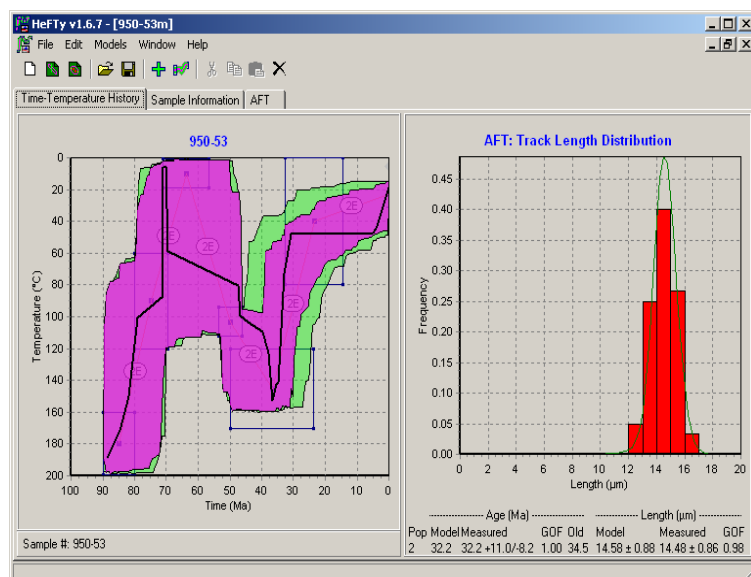


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-52
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous
Assumed Present-day Temperature (°C)	15°-20°

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.50: ≥26.5±4.9 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable

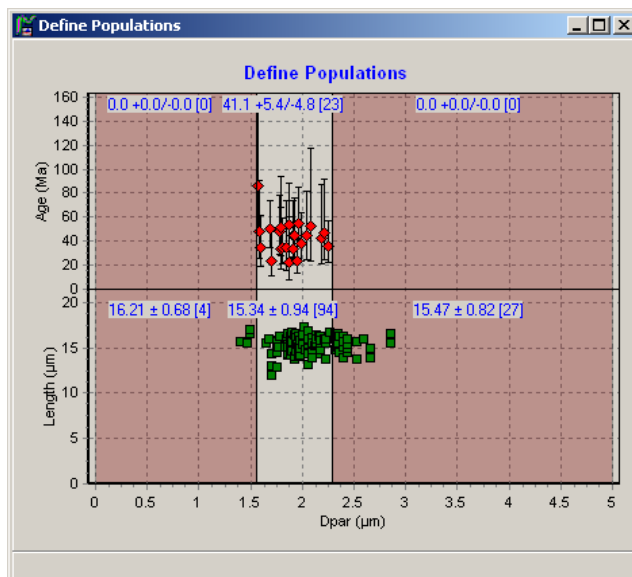
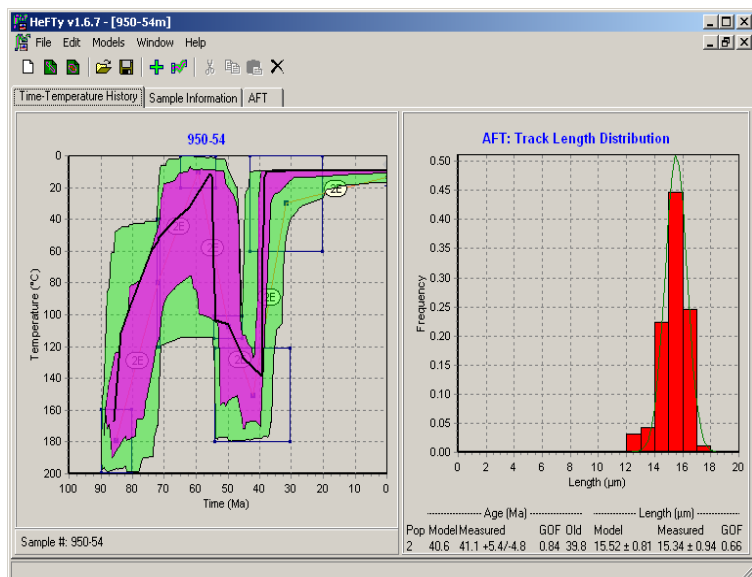


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-53
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous
Assumed Present-day Temperature (°C)	25°-30°

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.47: ≥34.5±8.8 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	>0.71±0.01% (post deposition)

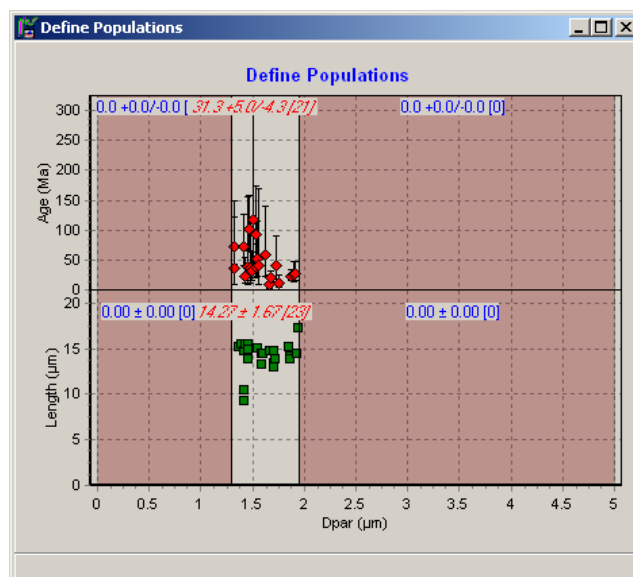
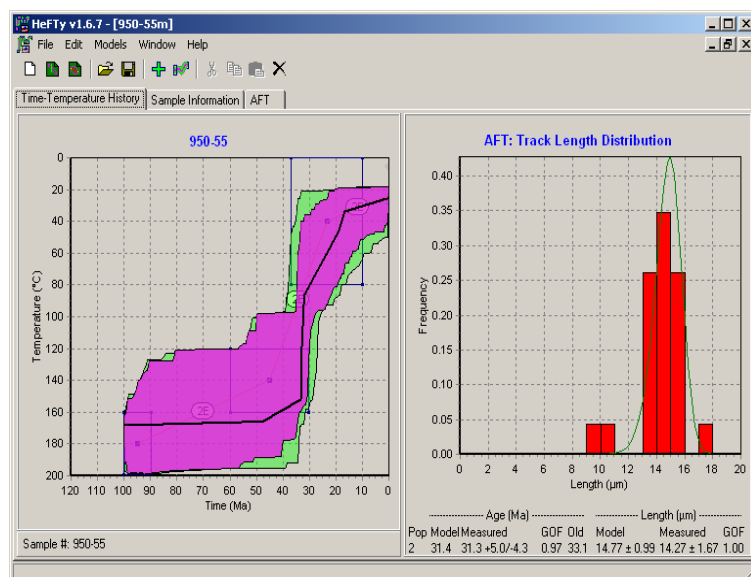


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-54
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary
Assumed Present-day Temperature (°C)	15°-20°

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.92: ≥39.8±4.6 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	>0.72±0.01% (post deposition)

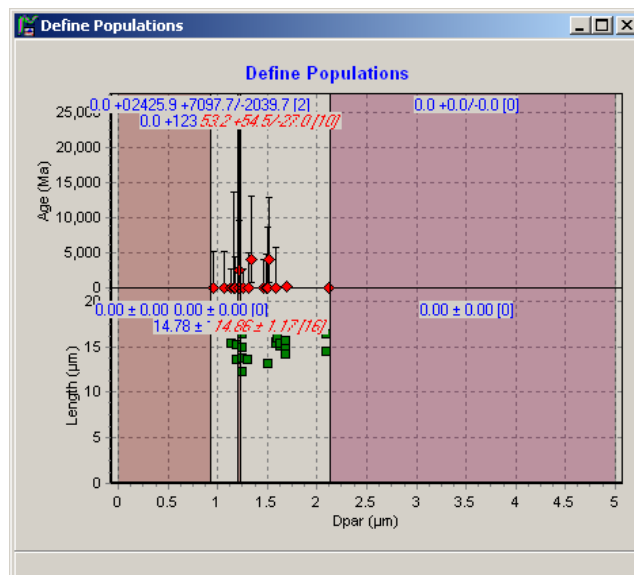
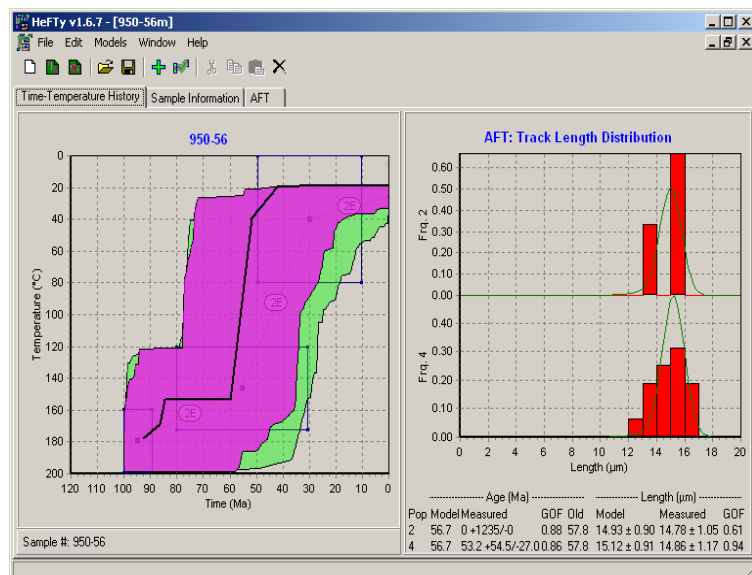


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-55
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous
Assumed Present-day Temperature (°C)	20°-25°

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.63: ≥33.1±4.5 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable

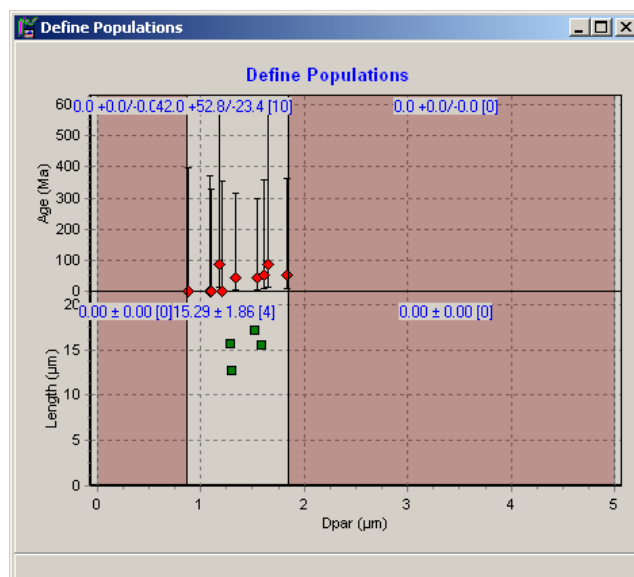
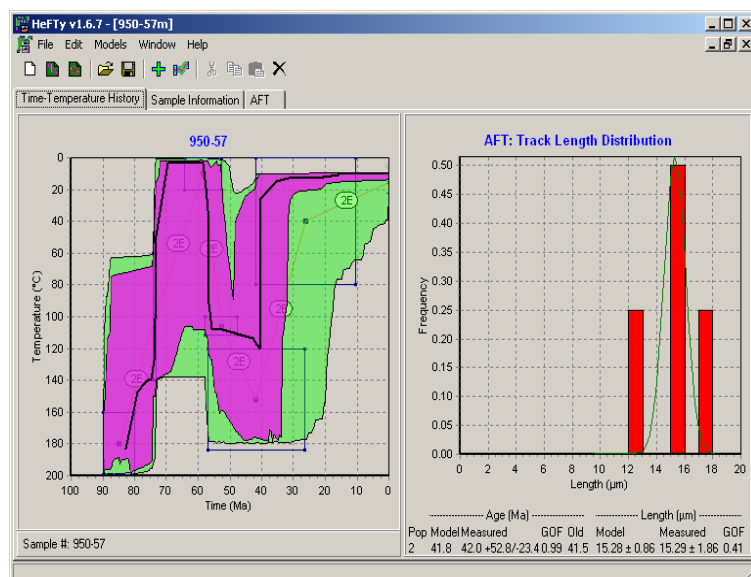


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-56
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretaceous
Assumed Present-day Temperature (°C)	25°-30°

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.07: ≥57.8±13.0 Ma
Thermal History Following Primary Cooling	Dpar (μm)=1.68: ≥57.8±29.3 Ma
	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

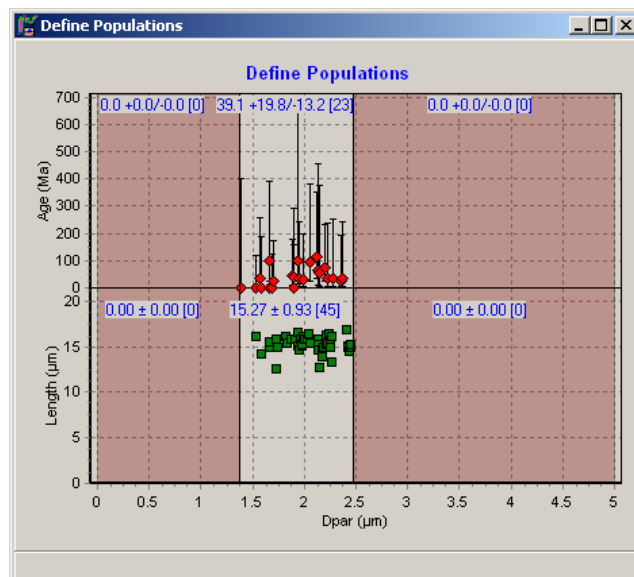
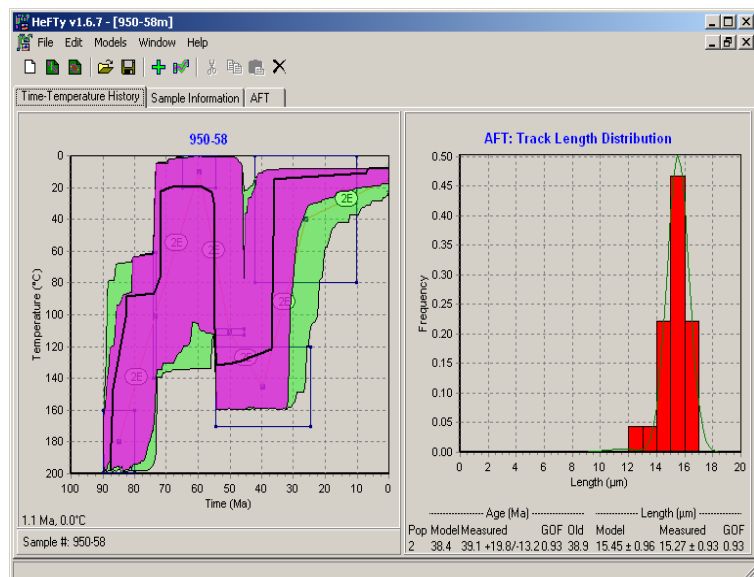


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-57
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary
Assumed Present-day Temperature (°C)	15°-20°C

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.36: ≥41.5±23.1 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	>0.67±0.01% (post deposition)

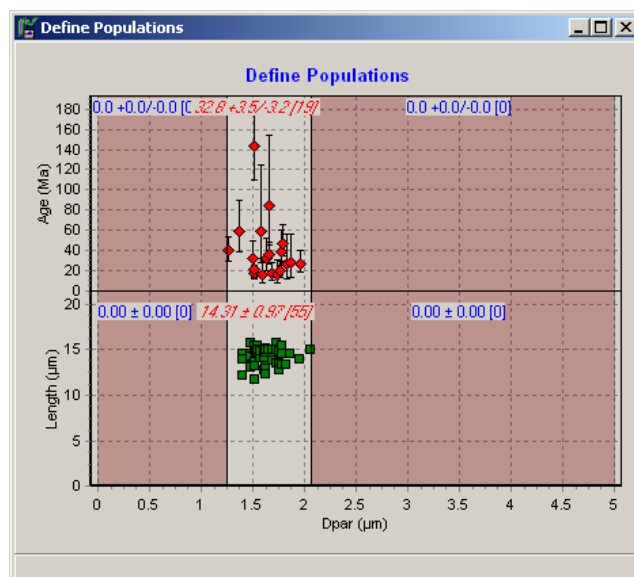
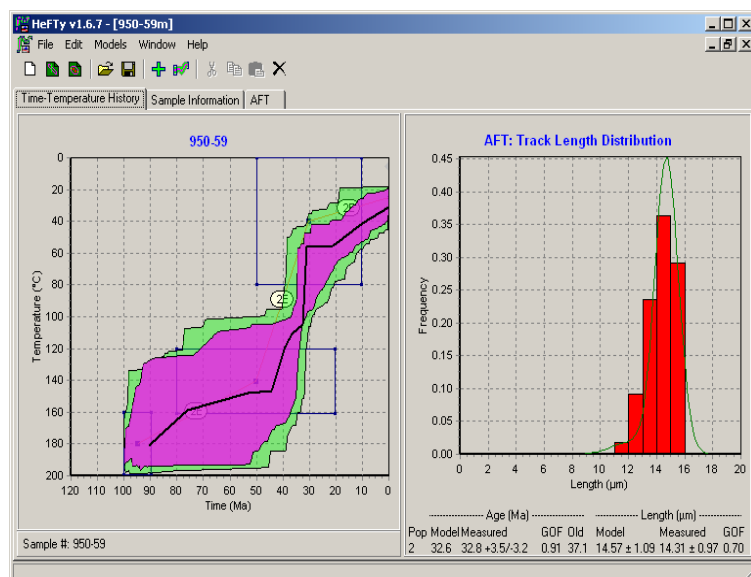


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-58
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary
Assumed Present-day Temperature (°C)	15°-20°C

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.92: ≥38.9±13.1 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	>0.67±0.01% (post deposition)

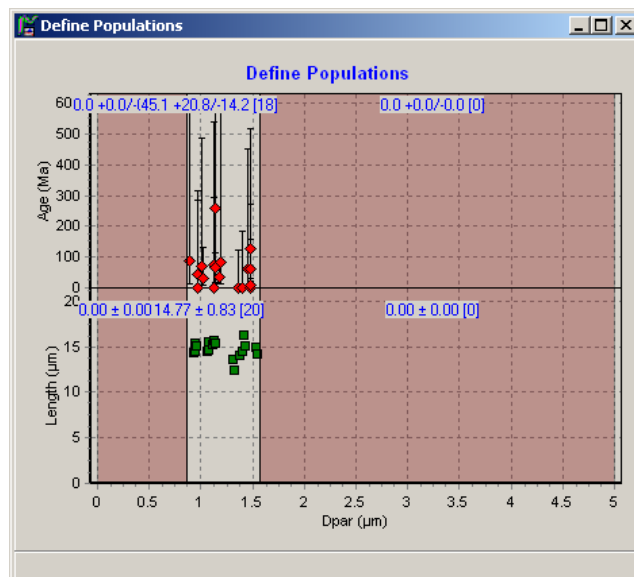
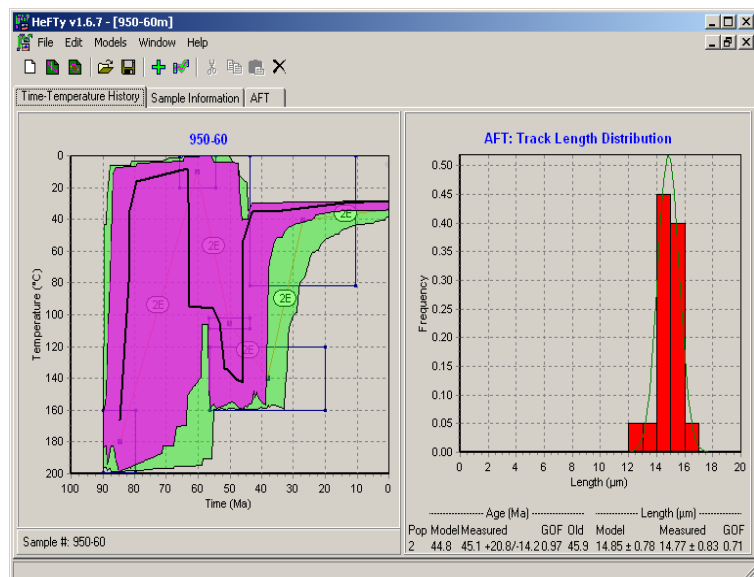


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-59
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary
Assumed Present-day Temperature (°C)	25°-30°C

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.66: ≥37.1±3.6 Ma
Thermal History Following Primary Cooling	Protracted cooling since rapid cooling in the Eocene
EasyRo (% reflectance)	Not Applicable

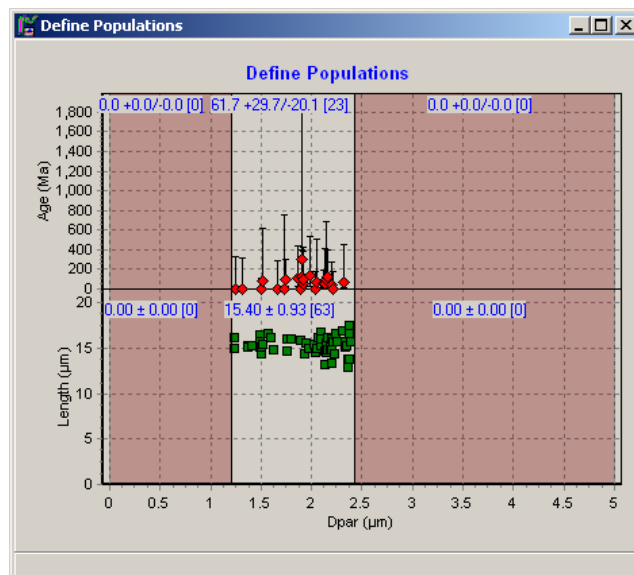
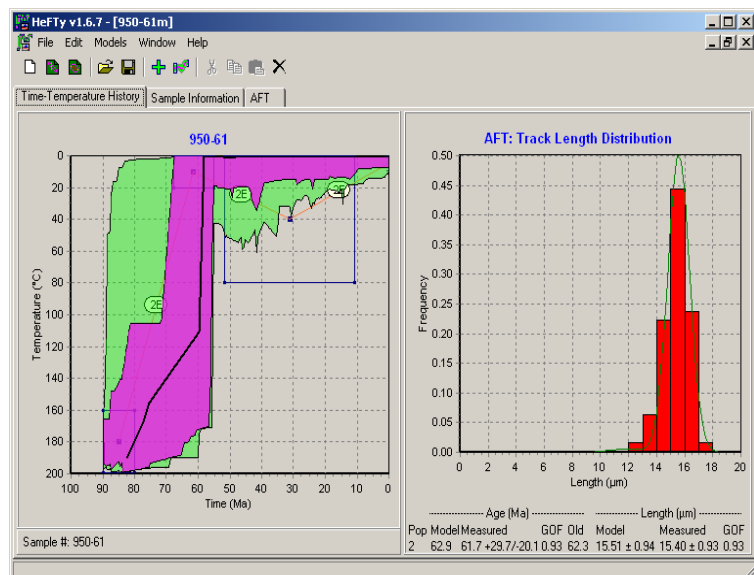


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-60
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary
Assumed Present-day Temperature (°C)	30°-35°C

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.22: ≥45.9±14.1 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Eocene
EasyRo (% reflectance)	>0.65±0.01% (post deposition)

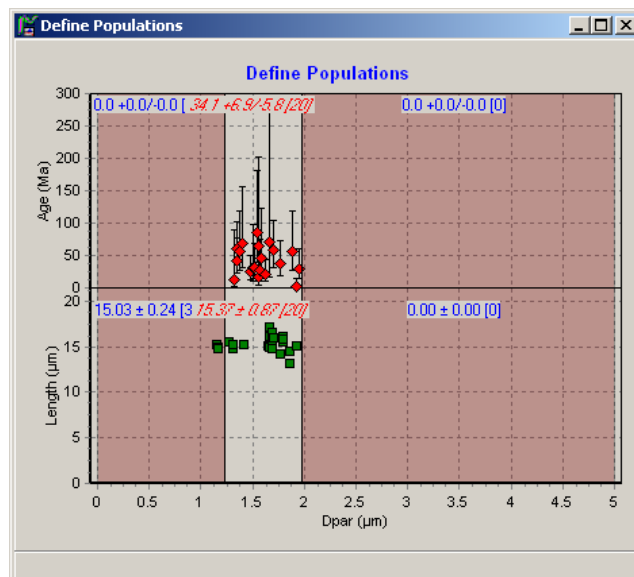
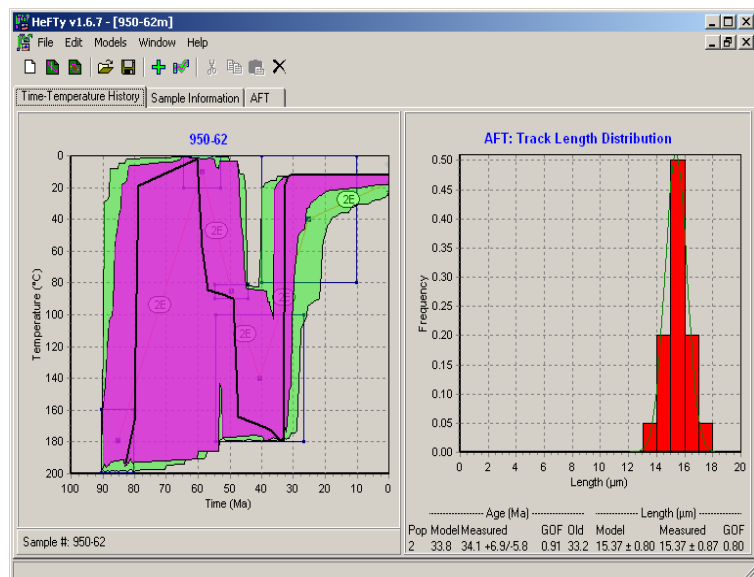


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-61
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary
Assumed Present-day Temperature (°C)	5°-10°C

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.81: ≥62.3±20.3 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Paleocene
EasyRo (% reflectance)	Not Applicable

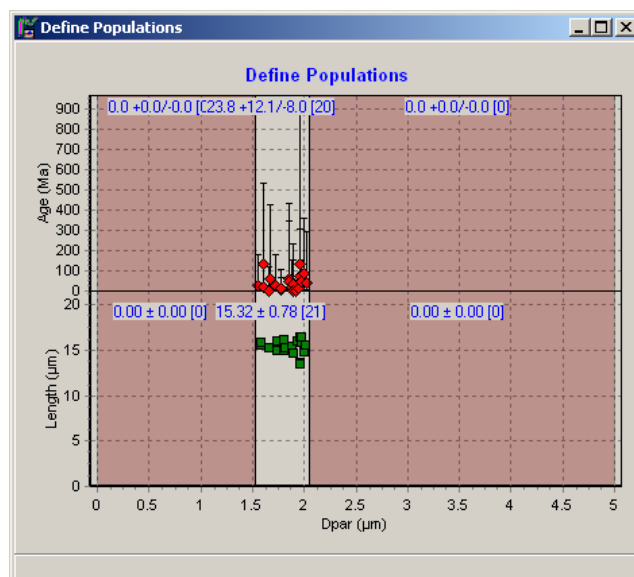
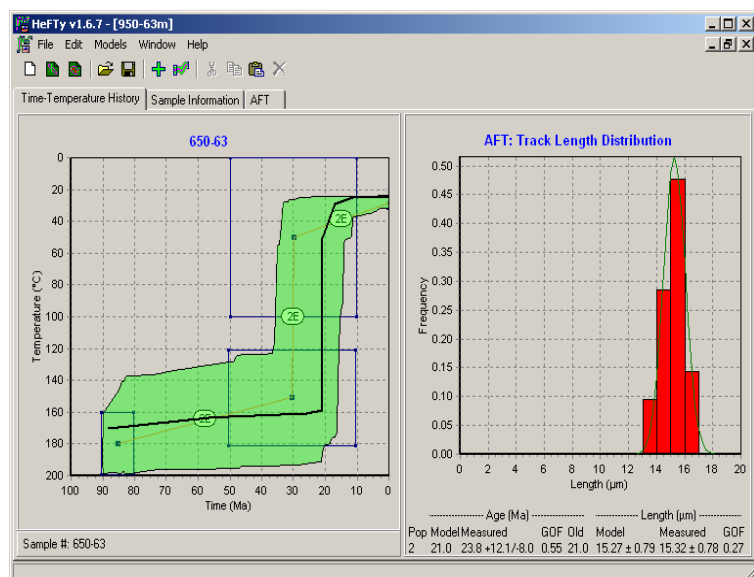


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-62
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Tertiary
Assumed Present-day Temperature (°C)	15°-20°C

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.61: ≥33.2±5.6 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	>0.71±0.01% (post deposition)

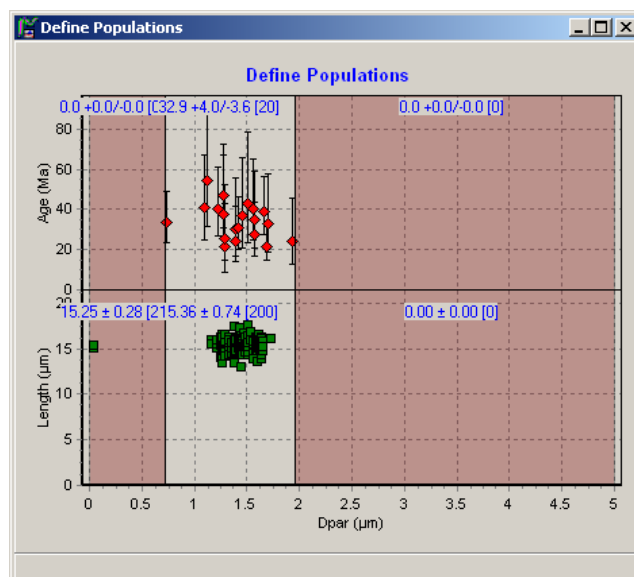
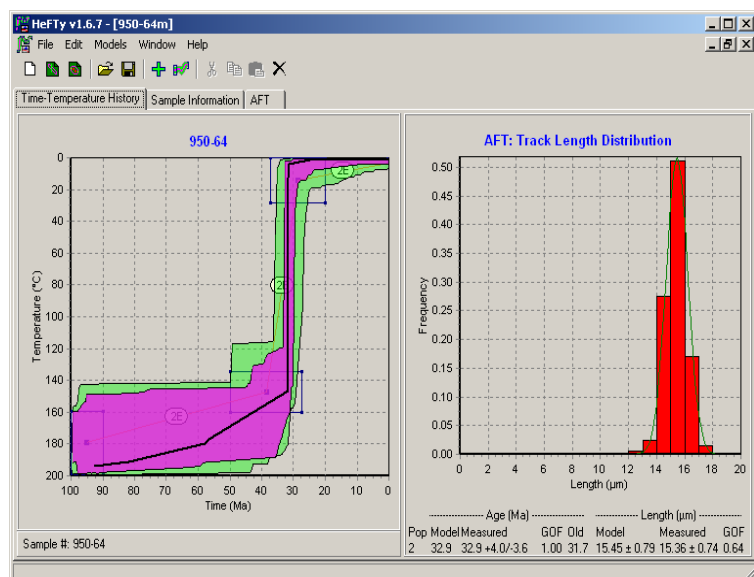


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-63
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	Cretraceous
Assumed Present-day Temperature (°C)	25°-30°C

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma $\pm 2\sigma$)	Dpar (μm)=1.78: $\geq 21.0 \pm 7.1$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable

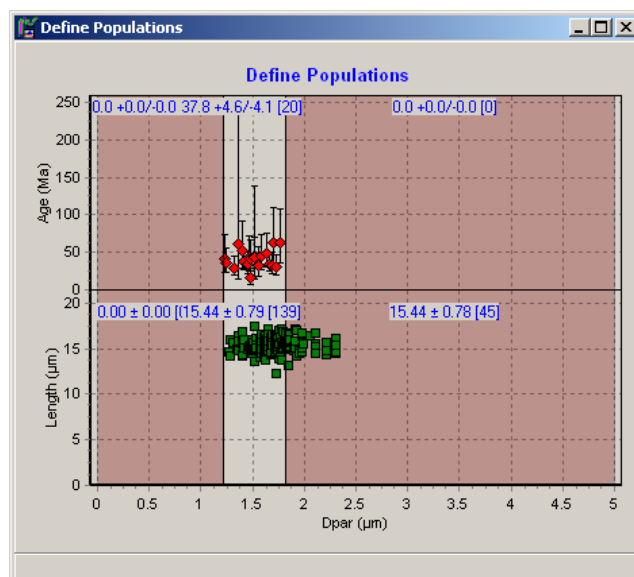
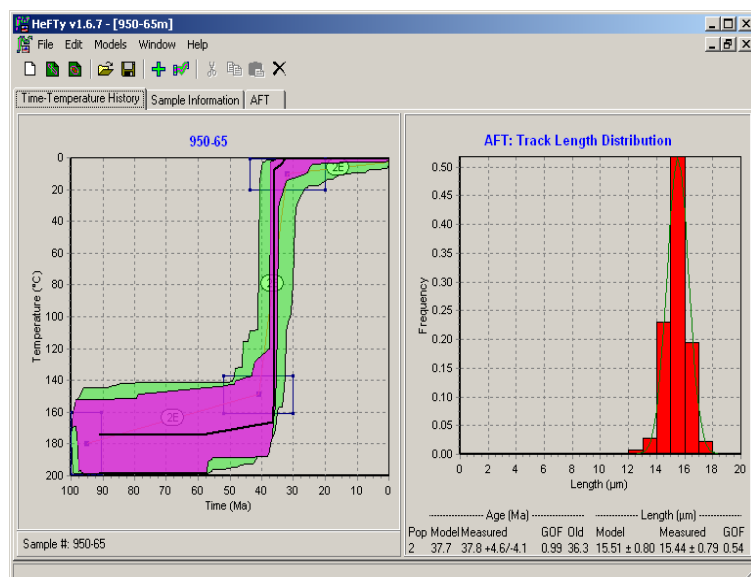


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-64
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	U. Jurassic – L. Cretaceous (~140-80 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.34: ≥31.7±3.5 Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable

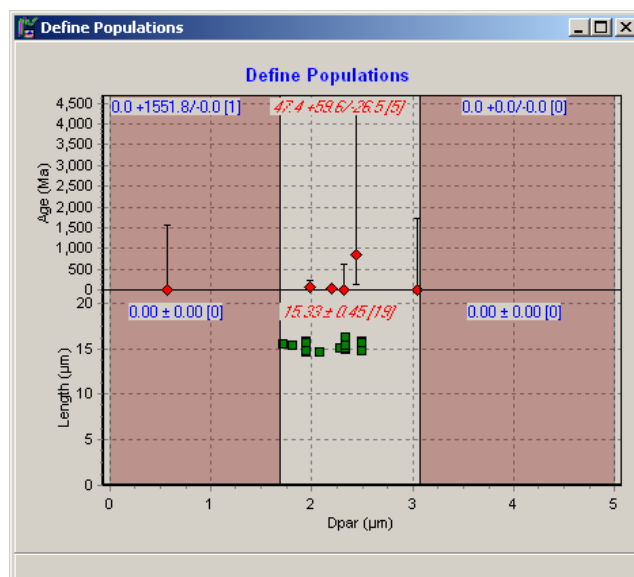
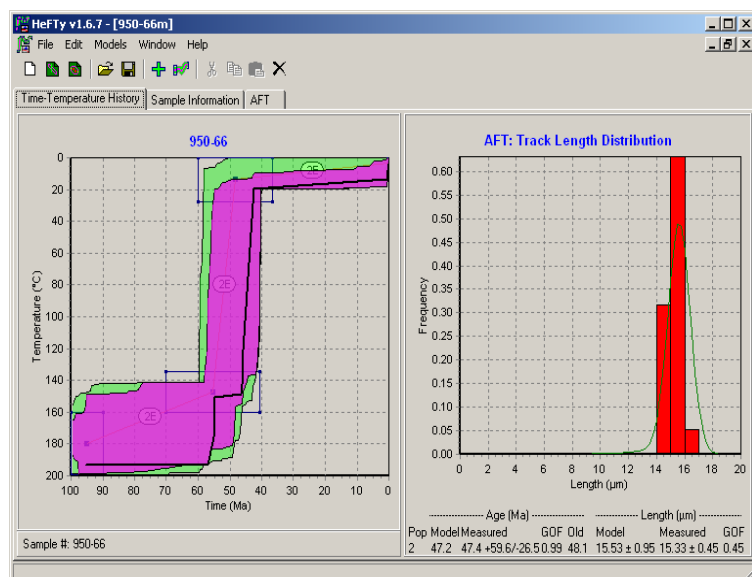


KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-65
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	U. Jurassic – L. Cretaceous (~140-80 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.52: $\geq 36.3 \pm 3.9$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Oligocene
EasyRo (% reflectance)	Not Applicable



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number
Kinetic Parameter Modeled
Proposed Stratigraphic/intrusion Age (Ma)
Assumed Present-day Temperature (°C)

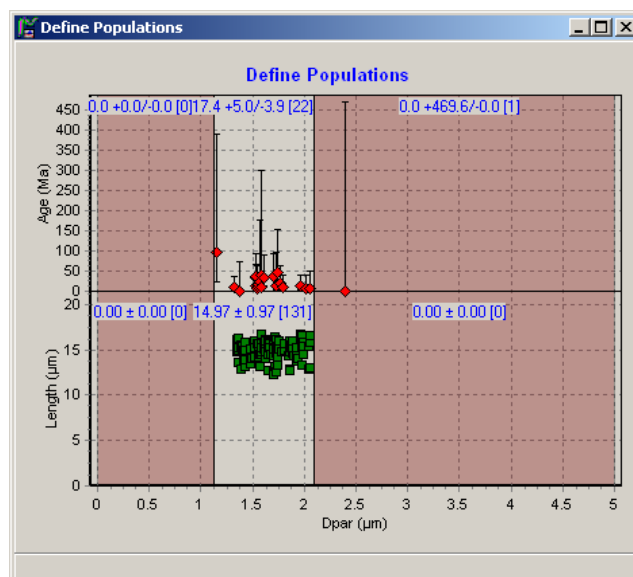
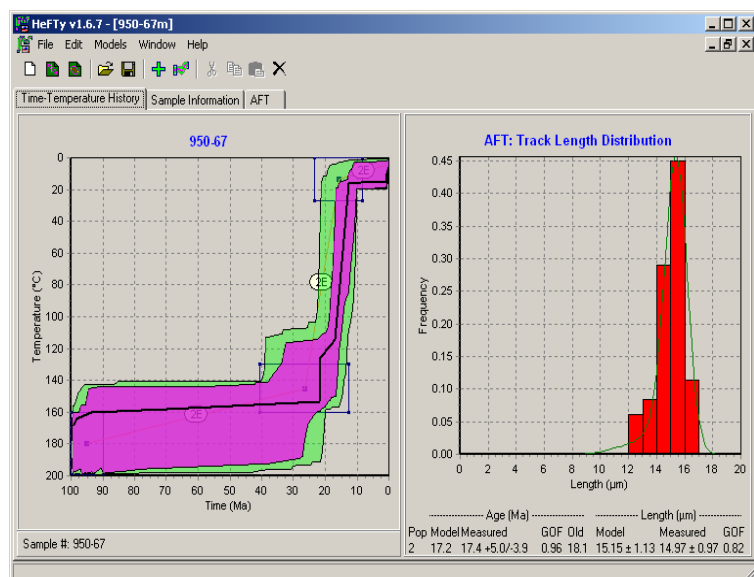
950-66
 Dpar (μm)
 U. Jurassic – L. Cretaceous (~140-80 Ma)
 0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)
Thermal History Following Primary Cooling

EasyRo (% reflectance)

Dpar (μm)=2.38: $\geq 48.1 \pm 26.9$ Ma
 Remained at low temperatures since rapid cooling in the Eocene
 Not Applicable



KNOWN PARAMETERS AND ASSUMPTIONS

Sample Number	950-67
Kinetic Parameter Modeled	Dpar (μm)
Proposed Stratigraphic/intrusion Age (Ma)	U. Jurassic – L. Cretaceous (~140-80 Ma)
Assumed Present-day Temperature (°C)	0°-5°C Assumed

IMPLICATIONS OF THE FISSION TRACK DATA

Timing of Initiation of Uplift/Cooling (Ma ±2σ)	Dpar (μm)=1.61: $\geq 18.1 \pm 4.1$ Ma
Thermal History Following Primary Cooling	Remained at low temperatures since rapid cooling in the Miocene
EasyRo (% reflectance)	Not Applicable

2. Apatite Fission-Track Age Data

Results - Report 950

950-01

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	2.38E-05	1.05E-02	3.02E-04	4.83E-02	8.67E-02	1.05E-01	5.09E-02	27.25	27.26	1	1.18	0.37	4.48	10.16	506.54	17.61
2	7	1.36E-05	5.10E-02	1.56E-03	8.07E-02	1.24E-01	1.07E-01	9.06E-02	68.36	25.96	4	1.43	0.23	21.80	85.38	315.79	17.08
3	1	7.28E-06	8.60E-03	2.36E-04	4.68E-02	8.19E-02	9.82E-02	4.72E-02	107.87	107.93	1	1.46	0.43	3.67	6.82	304.48	15.53
4	1	1.70E-05	2.86E-03	8.90E-05	3.73E-02	2.54E-01	1.88E-01	3.31E-02	138.41	138.50	1	0.99	0.18	1.22	1.95	201.40	16.68
5	1	2.33E-05	5.99E-03	1.77E-04	4.40E-02	7.51E-02	1.28E-01	4.99E-02	48.61	48.64	1	1.39	0.19	2.56	3.97	334.46	15.73
6	4	1.16E-05	2.72E-02	8.74E-04	6.76E-02	7.44E-02	5.68E-02	4.68E-02	85.42	42.83	2	1.66	0.38	11.61	48.20	390.35	18.25
7	1	1.75E-05	6.22E-03	1.51E-04	8.71E-02	4.11E-01	0.00E+00	6.26E-02	62.33	62.36	1	1.38	0.53	2.66	0.00	353.54	10.44
8	4	4.37E-05	1.30E-02	3.56E-04	1.27E-01	1.98E-01	1.53E-01	1.54E-01	47.60	23.85	3	1.31	0.15	5.57	18.64	354.82	10.64
9	3	2.43E-05	8.72E-03	2.34E-04	2.24E-01	1.19E+00	0.00E+00	5.79E-02	95.83	55.42	1	1.58	0.49	3.72	0.00	281.72	9.10
10	2	3.40E-05	4.98E-03	1.27E-04	3.61E-02	6.40E-01	5.61E-02	2.00E-02	80.03	56.65	2	1.54	0.20	2.13	8.60	339.95	10.49
11	1	2.72E-05	4.76E-03	1.17E-04	2.79E-02	2.72E-03	1.73E-02	8.90E-03	52.45	52.48	1	1.40	0.51	2.03	3.83	314.27	11.02
12	2	2.62E-05	2.12E-02	4.96E-04	3.36E-02	1.93E-02	2.06E-02	2.95E-02	24.50	17.34	1	1.19	0.16	9.04	21.18	113.57	9.81
13	0	9.71E-06	6.41E-03	1.51E-04	3.30E-02	7.78E-04	3.37E-01	1.36E-01	0.00	160.14	1	1.32	0.49	2.74	0.04	7.62	8.94
14	2	1.16E-05	1.37E-02	3.57E-04	3.18E-02	1.34E-02	1.98E-02	9.64E-03	84.51	59.82	1	1.88	0.45	5.87	23.69	330.51	11.40
15	3	1.46E-05	1.51E-02	3.89E-04	8.19E-02	1.47E-01	8.03E-02	7.69E-02	92.12	53.27	1	1.30	0.37	6.46	41.95	171.62	10.39
16	1	9.71E-06	2.33E-02	6.53E-04	9.06E-02	2.01E-01	1.09E-01	9.50E-02	30.00	30.02	1	1.20	-0.03	9.96	24.46	80.89	16.03
17	23	1.75E-05	1.95E-01	5.74E-03	5.96E-02	4.20E-02	3.67E-02	3.39E-02	45.81	9.69	3	1.20	0.30	83.28	121.94	118.60	15.97
18	3	2.43E-05	1.08E-03	5.47E-05	3.80E-02	8.12E-01	5.98E-02	3.76E-02	734.09	425.69	1	1.54	0.44	0.46	13.37	247.15	16.08
20	1	2.38E-05	5.02E-03	1.28E-04	4.08E-02	1.62E-02	7.38E-02	1.01E-02	56.75	56.77	1	1.59	0.05	2.15	4.85	299.28	10.98
21	1	3.40E-05	7.04E-03	2.01E-04	8.68E-02	2.25E-01	8.41E-02	6.78E-02	28.41	28.42	1	1.70	0.39	3.01	6.34	432.60	14.24
22	4	1.16E-05	2.49E-02	7.22E-04	3.65E-02	3.80E-02	4.51E-02	3.72E-02	93.34	46.79	2	2.56	0.77	10.62	15.43	107.17	14.37
23	7	4.85E-05	2.68E-02	7.75E-04	4.15E-02	4.48E-02	3.76E-02	2.47E-02	36.56	13.88	1	1.37	0.31	11.44	24.95	157.16	14.54
24	6	1.21E-05	4.09E-02	1.25E-03	3.11E-02	8.15E-03	1.09E-02	1.01E-02	81.82	33.53	2	1.67	0.28	17.47	130.74	329.36	17.73
25	4	1.75E-05	6.03E-03	1.65E-04	2.72E-02	6.99E-02	1.26E-01	2.50E-02	253.37	126.97	2	1.43	0.31	2.58	5.23	296.47	13.68

Mean Dpar = 1.47
 Mean Dper = 0.33
 Modified Zeta = 13.615+/- 0.267
 Mean 29Si b:s = 0.061
 Mean 43Ca b:s = 0.061
 Mean 238U b:s = 0.199
 Number of grains= 24
 Chi-squared = 40.9
 Chi-squared prob= 0.0123
Pooled Age (Ma) = 56.8+/- 6.4

950-02

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	13	4.85E-05	6.43E-02	1.77E-03	1.37E-02	1.20E-02	9.13E-03	3.28E-03	30.98	8.65	2	1.71	0.42	25.07	21.73	819.10	17.08
3	5	7.77E-06	4.23E-02	1.26E-03	3.03E-02	2.80E-01	4.29E-02	2.54E-02	112.45	50.45	2	1.27	0.52	16.50	13.21	690.13	17.92
4	3	9.71E-06	1.08E-01	3.75E-03	2.59E-02	3.03E-02	6.42E-02	1.94E-02	21.29	12.32	2	1.52	0.38	42.12	18.20	765.88	21.20
5	0	1.36E-05	7.57E-03	2.14E-04	3.11E-02	6.91E-02	1.17E-01	4.67E-02	0.00	106.83	1	1.51	0.02	2.95	6.06	400.83	17.30
6	1	1.75E-05	6.79E-03	2.21E-04	1.56E-02	1.86E-02	7.40E-02	2.03E-02	62.54	62.59	1	1.66	0.37	2.65	4.28	419.49	16.71
8	5	1.75E-05	8.68E-02	2.34E-03	2.49E-02	9.67E-02	2.46E-02	1.84E-02	24.53	11.00	2	1.37	0.14	33.84	86.01	430.59	17.68
9	0	1.75E-05	1.24E-02	3.25E-04	1.77E-02	2.72E-02	4.70E-02	1.41E-02	0.00	51.14	1	1.19	0.85	4.84	12.35	251.55	15.37
10	1	2.33E-05	8.49E-03	2.27E-04	4.70E-02	5.23E-02	2.24E-02	1.03E-02	37.58	37.60	1	2.05	0.39	3.31	33.43	309.97	17.21
11	1	1.75E-05	2.14E-02	7.23E-04	3.63E-02	5.80E-02	4.81E-02	4.78E-02	19.93	19.94	1	1.55	0.20	8.34	22.85	78.71	17.21
12	1	1.75E-05	5.58E-03	1.31E-04	2.82E-02	1.03E-02	1.20E-01	3.54E-03	76.02	76.06	1	1.17	0.19	2.18	4.15	316.24	11.29
13	50	1.55E-05	2.89E-01	8.05E-03	1.90E-02	6.40E-02	1.23E-02	7.80E-02	82.55	12.01	2	1.93	0.46	112.62	200.64	12.32	18.16
14	1	1.16E-05	3.27E-02	8.48E-04	1.90E-02	9.15E-03	9.99E-03	8.42E-03	19.57	19.58	1	1.60	0.33	12.73	64.97	229.45	16.97
15	0	2.18E-05	7.19E-04	2.51E-05	7.24E-02	4.70E+00	0.00E+00	5.60E-03	0.00	642.93	1	1.26	0.18	0.28	0.00	789.25	15.23
16	2	2.43E-05	2.00E-02	5.53E-04	1.91E-02	7.49E-03	1.26E-02	1.45E-02	30.68	21.72	2	1.80	0.31	7.79	32.20	153.60	16.17
17	2	4.37E-06	3.74E-02	9.71E-04	2.21E-01	5.67E-01	6.22E-01	3.88E-01	90.57	64.11	2	1.81	0.34	14.59	117.53	279.54	4.76
18	3	9.71E-06	4.87E-02	1.40E-03	1.79E-01	5.13E-01	1.79E-01	2.20E-01	47.13	27.26	2	1.81	0.44	18.99	21.04	809.45	16.95
19	0	1.46E-05	9.72E-03	2.58E-04	9.10E-02	1.27E+00	1.10E-01	4.22E-02	0.00	78.01	1	1.85	0.39	3.79	22.72	378.52	15.08
20	0	1.75E-05	5.57E-03	1.57E-04	2.10E-02	1.34E-02	5.27E-02	5.33E-03	0.00	112.92	1	1.67	0.39	2.17	4.64	586.32	15.00
21	4	1.36E-05	5.22E-02	1.27E-03	5.68E-02	2.56E-01	1.77E-02	4.36E-03	41.85	20.97	2	1.83	0.43	20.37	20.84	825.60	14.09
22	1	1.46E-05	1.01E-02	2.52E-04	2.29E-02	2.43E-02	4.33E-02	1.64E-02	50.27	50.30	1	1.58	0.33	3.95	8.52	246.98	12.81
23	5	1.94E-05	5.07E-02	1.40E-03	3.99E-02	1.81E-01	2.69E-02	1.66E-02	37.76	16.94	2	1.55	0.02	19.76	17.75	754.65	16.52
24	1	1.75E-05	1.73E-02	5.08E-04	2.27E-02	2.67E-02	3.04E-02	1.70E-02	24.61	24.63	1	1.81	0.44	6.75	18.29	328.20	19.97
25	2	2.91E-05	6.43E-03	2.18E-04	8.15E-02	1.32E-01	1.15E-01	7.25E-02	79.13	56.04	1	1.88	0.40	2.51	4.53	351.80	19.60
26	3	1.16E-05	4.59E-02	1.33E-03	1.39E-02	1.95E-01	9.69E-03	5.65E-03	41.65	24.09	1	1.58	0.53	17.91	22.52	137.15	19.97
27	0	1.94E-05	3.08E-03	9.37E-05	6.29E-02	5.41E-01	6.27E-02	6.26E-02	0.00	181.66	1	1.15	0.38	1.20	6.42	297.58	18.75
28	4	2.91E-05	1.00E-02	3.68E-04	1.39E-01	2.35E+00	3.82E-02	2.36E-01	101.26	50.80	2	1.48	0.34	3.91	67.24	358.35	18.79
29	0	1.21E-05	3.34E-03	1.21E-04	4.83E-02	6.11E-01	1.30E-01	6.15E-02	0.00	264.99	1	2.18	0.66	1.30	16.07	161.42	22.76
30	6	1.36E-05	4.18E-02	1.14E-03	2.60E-02	2.48E-02	3.48E-02	1.51E-02	78.30	32.07	2	1.44	0.30	16.29	40.43	146.99	14.86

Mean Dpar = 1.61
 Mean Dper = 0.36
 Modified Zeta = 14.907+/- 0.291
 Mean 29Si b:s = 0.051
 Mean 43Ca b:s = 0.051
 Mean 238U b:s = 0.434
 Number of grains= 28
 Chi-squared = 31.8
 Chi-squared prob= 0.2393
Pooled Age (Ma) = 49.2+/- 4.7

950-03

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	24	3.88E-05	6.10E-02	2.48E-03	8.77E-02	2.90E-01	7.30E-02	6.53E-02	67.05	14.02	3	1.48	0.42	26.66	57.94	152.40	19.18
2	6	1.94E-05	4.05E-02	1.48E-03	6.59E-02	1.44E-01	1.30E-01	7.45E-02	50.58	20.76	2	1.54	0.51	17.70	53.77	135.04	19.51
3	5	1.46E-05	5.44E-02	2.08E-03	7.04E-02	9.98E-02	9.09E-02	7.44E-02	41.82	18.79	2	1.81	0.31	23.79	61.47	163.86	19.12
4	7	1.16E-05	6.10E-02	2.06E-03	8.61E-02	1.17E-01	9.26E-02	1.09E-01	65.17	24.77	3	1.52	0.51	26.67	65.20	144.34	13.86
5	1	7.77E-06	6.47E-02	2.35E-03	7.86E-02	1.23E-01	1.30E-01	6.98E-02	13.22	13.23	1	2.01	0.85	28.29	51.54	177.44	17.68
6	10	1.55E-05	1.53E-01	5.41E-03	6.66E-02	1.37E-01	7.19E-02	8.07E-02	27.99	8.93	3	1.54	0.22	66.73	123.30	95.65	17.63
7	7	1.94E-05	3.84E-02	1.40E-03	5.02E-02	8.69E-02	6.54E-02	4.50E-02	62.20	23.65	2	1.35	0.43	16.77	36.32	130.97	17.94
8	10	2.91E-05	4.52E-02	1.87E-03	8.51E-02	3.06E-01	1.01E-01	8.24E-02	50.37	16.10	3	1.35	0.31	19.74	48.37	204.75	19.05
9	3	1.46E-05	5.07E-02	1.76E-03	9.08E-02	3.34E-01	1.01E-01	7.48E-02	26.99	15.62	2	1.47	0.22	22.15	75.07	180.79	16.08
10	5	1.31E-05	4.93E-02	1.89E-03	9.09E-02	3.04E-01	3.68E-01	8.81E-02	51.23	23.02	2	1.38	0.21	21.57	47.95	168.08	16.60
11	5	2.04E-05	4.68E-02	1.70E-03	5.46E-02	1.38E-01	6.53E-02	3.92E-02	34.78	15.62	2	1.55	0.34	20.45	55.63	209.67	18.08
12	6	1.21E-05	4.65E-02	1.59E-03	5.02E-02	9.06E-02	5.76E-02	4.97E-02	70.40	28.88	2	1.34	0.44	20.31	49.83	156.52	16.73
13	3	1.36E-05	3.36E-02	1.35E-03	5.64E-02	7.48E-01	7.73E-02	4.92E-02	43.58	25.24	2	1.78	0.46	14.68	66.59	169.92	17.58
14	3	1.46E-05	6.03E-02	2.16E-03	1.08E-01	8.03E-01	1.44E-01	1.11E-01	22.67	13.12	2	1.54	0.42	26.38	91.85	177.36	16.38

15	4	1.75E-05	4.75E-02	1.81E-03	6.47E-02	1.17E-01	2.91E-02	5.37E-02	31.99	16.05	2	1.47	0.53	20.76	66.05	96.03	15.97
16	8	1.31E-05	4.64E-02	1.62E-03	4.98E-02	6.63E-02	6.52E-02	4.65E-02	86.85	30.90	2	1.55	0.30	20.30	53.70	163.39	16.10
17	6	2.43E-05	3.42E-02	1.11E-03	8.60E-02	6.12E-01	6.64E-02	6.34E-02	47.92	19.65	2	1.83	0.55	14.95	61.26	189.39	15.35
18	4	1.75E-05	4.37E-02	1.48E-03	3.38E-02	1.19E-01	3.38E-02	2.52E-02	34.76	17.43	2	1.69	0.82	19.10	39.38	176.60	17.21
19	3	7.77E-06	4.39E-04	3.81E-05	3.52E-02	7.91E-01	6.46E-02	7.35E-02	4163.47	2432.17	1	1.58	0.34	0.19	7.44	42.97	12.34
20	7	3.88E-05	4.57E-02	1.45E-03	3.08E-02	3.61E-02	1.36E-02	1.10E-02	26.19	9.95	2	1.65	0.50	19.98	53.37	242.05	11.64
23	7	2.91E-05	5.13E-02	1.49E-03	1.36E-01	2.65E-01	2.49E-01	1.56E-01	31.08	11.80	2	1.77	0.28	22.44	53.12	192.18	12.32
25	8	1.55E-05	5.14E-02	1.90E-03	3.13E-02	5.21E-02	3.46E-02	2.75E-02	66.24	23.58	2	1.43	0.31	22.49	58.14	140.04	16.18

Mean Dpar = 1.57
 Mean Dper = 0.42
 Modified Zeta = 13.299+/- 0.267
 Mean 29Si b:s = 0.069
 Mean 43Ca b:s = 0.069
 Mean 238U b:s = 0.263
 Number of grains= 22
 Chi-squared = 91.1
 Chi-squared prob= 0.0000

Pooled Age (Ma) = 45.0+/- 3.9

950-04

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	5	3.11E-05	2.03E-02	5.95E-04	3.48E-02	8.20E-02	1.73E-01	4.91E-02	54.46	24.43	4	2.37	0.77	8.56	1.98	149.70	18.28
2	4	3.49E-05	1.19E-02	3.15E-04	5.87E-02	2.12E-01	7.43E-02	5.14E-02	66.02	33.08	2	2.06	0.94	5.02	14.07	249.89	16.97
3	5	3.11E-05	1.45E-02	3.70E-04	4.95E-02	5.34E-02	7.62E-02	4.59E-02	75.78	33.98	3	2.10	0.82	6.14	15.66	236.25	18.48
4	4	4.85E-05	6.52E-03	1.84E-04	4.85E-02	1.69E-01	1.67E-01	3.97E-02	86.43	43.32	4	1.65	0.47	2.75	1.70	337.82	16.90
5	7	3.88E-05	2.02E-02	5.38E-04	8.74E-02	1.30E-01	9.90E-02	8.23E-02	61.27	23.24	4	1.91	0.51	8.52	23.54	219.27	15.55
6	4	3.11E-05	1.43E-02	3.76E-04	1.31E-01	2.08E-01	1.47E-01	1.45E-01	61.91	31.02	3	1.86	0.68	6.02	15.51	274.39	16.46
7	3	3.11E-05	1.18E-02	3.20E-04	7.85E-02	1.26E-01	1.42E-01	9.68E-02	56.25	32.53	3	1.79	1.07	4.97	12.40	266.01	17.13
8	2	4.85E-05	8.14E-03	2.21E-04	6.67E-02	8.66E-02	1.56E-01	7.91E-02	34.77	24.62	2	1.66	0.83	3.44	5.31	153.20	17.00
9	4	3.11E-05	1.94E-02	4.83E-04	2.57E-02	1.15E-02	1.38E-02	4.36E-03	45.45	22.77	3	2.06	1.14	8.21	25.46	286.90	12.14
10	4	3.40E-05	1.27E-02	3.20E-04	2.30E-02	7.96E-03	6.83E-03	5.03E-03	63.40	31.76	2	2.71	0.65	5.37	15.98	264.39	11.53
11	9	4.85E-05	2.01E-02	4.93E-04	2.30E-02	5.14E-02	8.86E-03	5.81E-03	63.25	21.18	3	2.29	0.69	8.48	21.62	268.77	11.87
12	4	3.11E-05	1.24E-02	3.18E-04	2.03E-02	1.95E-02	3.01E-02	6.09E-03	71.28	35.71	4	1.70	0.44	5.22	12.67	271.11	13.41
13	0	2.91E-05	2.96E-05	1.15E-06	9.56E-02	2.12E-01	2.76E+00	2.00E+00	0.00	5003.67	1	1.25	0.33	0.01	0.17	0.52	11.42
14	6	3.11E-05	1.38E-02	3.01E-04	6.66E-02	7.42E-02	1.07E-01	7.53E-02	95.78	39.20	3	2.55	0.65	5.82	15.24	170.75	11.58
15	2	2.91E-05	8.23E-03	1.82E-04	6.29E-02	3.52E-02	5.06E-02	4.63E-02	57.19	40.48	3	2.19	0.49	3.48	11.23	228.09	10.52
16	8	4.85E-05	1.24E-02	2.57E-04	1.20E-01	1.44E-01	1.19E-01	1.12E-01	91.15	32.33	3	2.56	0.60	5.22	14.74	262.61	10.51
17	3	1.75E-05	1.15E-02	2.55E-04	5.89E-02	7.75E-02	9.17E-02	4.47E-02	101.87	58.89	1	1.64	0.92	4.86	11.02	241.01	11.58
18	4	2.91E-05	9.27E-03	2.02E-04	1.26E-01	2.70E-01	1.33E-01	9.77E-02	101.26	50.72	3	2.59	0.49	3.91	10.80	212.11	11.15
19	3	1.75E-05	1.14E-02	2.95E-04	6.19E-02	4.49E-02	4.42E-02	1.53E-02	102.91	59.51	1	2.37	0.78	4.81	7.74	203.64	12.81
20	4	3.88E-05	1.28E-02	3.59E-04	2.39E-02	3.24E-02	2.73E-02	1.91E-02	55.37	27.75	2	1.99	0.65	5.39	15.67	251.20	16.57
21	3	3.88E-05	1.89E-02	5.28E-04	2.08E-02	2.48E-02	3.15E-02	1.12E-02	28.15	16.28	2	1.75	0.58	7.96	19.90	285.14	15.56
22	6	4.85E-05	7.65E-03	2.01E-04	9.32E-02	6.52E-01	1.07E-01	8.54E-02	110.32	45.18	4	2.32	0.87	3.23	13.15	236.35	14.72
23	5	4.85E-05	1.05E-02	2.83E-04	7.05E-02	2.55E-01	8.82E-02	7.44E-02	67.20	30.14	3	2.22	0.68	4.43	12.15	256.61	15.87
24	5	3.11E-05	1.49E-02	3.98E-04	1.12E-01	1.22E-01	1.40E-01	1.15E-01	74.02	33.19	2	2.07	0.67	6.29	14.64	229.94	15.66
25	8	4.85E-05	2.26E-02	5.69E-04	6.67E-02	1.06E-01	1.08E-01	6.88E-02	50.05	17.77	2	0.91	2.61	9.54	20.26	277.61	15.31

Mean Dpar = 2.02
 Mean Dper = 0.77
 Modified Zeta = 13.774+/- 0.268
 Mean 29Si b:s = 0.065
 Mean 43Ca b:s = 0.065
 Mean 238U b:s = 0.128
 Number of grains= 25
 Chi-squared = 10.5
 Chi-squared prob= 0.9921

Pooled Age (Ma) = 65.0+/- 6.3

950-05

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	9	2.43E-05	2.54E-02	9.70E-04	1.78E-01	8.08E-01	4.13E-01	2.05E-01	97.27	32.69	2	1.77	0.44	11.00	39.42	224.45	19.68
2	7	4.85E-05	2.13E-02	7.72E-04	2.69E-01	3.26E-01	2.39E-01	3.03E-01	45.31	17.23	2	1.64	0.65	9.22	29.41	132.81	16.41
3	4	4.85E-05	1.44E-02	5.30E-04	3.15E-01	7.03E-01	4.58E-01	3.31E-01	38.12	19.13	1	1.79	0.62	6.27	19.48	148.18	15.03
4	2	4.85E-05	2.60E-02	8.81E-04	2.38E-01	3.58E-01	3.88E-01	3.51E-01	10.61	7.51	1	1.32	0.70	11.29	24.54	105.09	15.34
5	6	4.85E-05	2.61E-02	9.40E-04	2.04E-01	3.53E-01	2.17E-01	2.22E-01	31.63	12.98	2	1.95	0.89	11.34	31.55	159.15	17.37
6	3	4.85E-05	2.19E-02	8.12E-04	1.80E-01	2.84E-01	2.99E-01	2.07E-01	18.92	10.95	2	1.96	0.57	9.49	30.96	172.02	18.78
7	5	2.62E-05	1.92E-02	7.22E-04	2.47E-01	7.95E-01	5.21E-01	3.65E-01	66.12	29.70	3	1.93	0.87	8.35	34.78	244.55	15.36
8	8	4.85E-05	2.71E-02	8.87E-04	1.80E-01	2.17E-01	8.26E-02	1.58E-01	40.63	14.45	2	1.78	0.47	11.76	37.80	284.40	16.47
9	12	3.88E-05	1.49E-02	5.72E-04	6.58E-02	4.58E-01	1.24E-01	9.97E-02	137.73	40.20	3	1.89	0.41	6.46	21.24	60.34	19.92
10	8	3.40E-05	2.60E-02	9.25E-04	9.59E-02	1.33E-01	9.17E-02	9.29E-02	60.37	21.48	1	1.84	0.71	11.29	47.42	204.07	15.05
11	3	1.94E-05	3.00E-02	9.70E-04	8.84E-02	1.07E-01	6.54E-02	7.47E-02	34.38	19.89	2	1.88	0.95	13.04	53.68	147.72	16.46
12	2	2.72E-05	1.88E-02	6.38E-04	8.85E-02	1.70E-01	1.44E-01	1.00E-01	26.21	18.56	2	2.07	0.68	8.15	21.00	122.65	16.27
13	10	4.85E-05	2.47E-02	8.64E-04	4.16E-02	1.54E-01	5.36E-02	4.08E-02	55.62	17.73	3	1.87	0.63	10.73	34.52	137.45	17.47
14	11	3.40E-05	1.73E-02	5.75E-04	1.26E-01	1.03E+00	1.37E-01	1.51E-01	124.06	37.71	4	1.99	0.30	7.52	30.32	135.20	15.13
15	4	1.94E-05	1.41E-02	5.78E-04	9.26E-02	1.25E-01	1.28E-01	2.67E-01	96.87	48.64	1	1.37	0.57	6.14	0.60	4.60	11.21
16	2	2.33E-05	3.35E-02	1.08E-03	5.88E-02	1.85E-01	4.76E-01	7.23E-02	17.16	12.15	1	1.60	0.73	14.53	36.50	243.22	16.11
17	8	2.33E-05	1.18E-02	3.62E-04	8.95E-02	5.88E-01	1.40E+01	8.02E-02	192.13	68.29	3	2.01	0.96	5.12	0.30	172.40	15.17
18	13	4.37E-05	4.31E-02	1.37E-03	7.27E-02	9.53E-02	8.82E-02	7.87E-02	46.15	12.91	4	2.02	0.55	18.69	66.46	236.60	16.48
19	6	3.11E-05	2.44E-02	8.01E-04	7.33E-02	2.21E-01	8.33E-01	9.47E-02	52.90	21.69	3	2.14	0.48	10.57	1.10	176.35	15.11
20	4	1.55E-05	1.58E-02	5.10E-04	5.13E-01	2.44E+00	1.87E+00	1.42E+00	108.50	54.41	2	1.76	0.54	6.84	31.33	77.63	12.17
21	3	3.40E-05	3.04E-02	8.94E-04	3.13E-02	2.60E-02	2.07E-02	1.77E-02	19.41	11.23	2	1.27	0.35	13.21	51.82	242.28	12.62
22	4	3.88E-05	1.56E-02	4.30E-04	1.24E-01	6.70E-02	7.27E-02	5.70E-02	44.23	22.16	3	1.89	0.30	6.75	20.63	187.63	11.37
24	6	3.88E-05	2.28E-02	7.44E-04	3.52E-02	7.97E-02	5.28E-02	3.22E-02	45.23	18.55	2	1.70	0.56	9.90	37.66	230.47	17.72
25	7	3.88E-05	1.94E-02	6.65E-04	6.02E-02	1.11E-01	1.15E-01	7.53E-02	61.84	23.50	4	1.78	0.52	8.44	28.34	222.74	16.18

Mean Dpar = 1.80
 Mean Dper = 0.60
 Modified Zeta = 13.405+/- 0.267
 Mean 29Si b:s = 0.145
 Mean 43Ca b:s = 0.145
 Mean 238U b:s = 0.409
 Number of grains= 24
 Chi-squared = 61.2
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 50.1+/- 4.3

950-06

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	11	3.88E-05	2.44E-02	6.98E-04	5.58E-02	3.34E-01	5.28E-02	2.70E-02	85.05	25.81	4	2.12	0.81	9.62	27.75	429.90	15.63
3	6	2.91E-05	3.85E-02	1.17E-03	2.55E-02	6.46E-02	2.12E-02	1.34E-02	39.42	16.16	3	2.36	1.15	15.15	31.56	501.13	17.12
4	7	1.31E-05	7.22E-02	2.36E-03	3.16E-02	8.12E-02	3.42E-02	2.36E-02	54.35	20.65	3	2.64	0.63	28.45	87.13	726.23	18.67
5	11	4.85E-05	4.94E-02	1.55E-03	2.06E-02	2.78E-02	2.80E-02	1.57E-02	33.78	10.26	3	2.01	0.54	19.45	34.65	468.53	19.90
6	34	3.88E-05	1.01E-01	3.52E-03	5.25E-02	1.05E-01	7.31E-02	5.61E-02	63.43	11.17	3	2.29	0.84	39.93	97.59	742.58	20.19
7	7	1.94E-05	2.92E-02	9.48E-04	3.95E-02	2.48E-01	3.58E-02	3.32E-02	90.36	34.32	2	1.45	0.78	11.52	28.78	312.37	18.75
8	3	1.46E-05	5.25E-02	1.50E-03	8.79E-02	2.17E-02	3.06E-02	2.90E-02	28.90	16.71	3	2.01	0.48	20.68	44.43	580.58	16.73
9	6	1.46E-05	3.96E-02	1.20E-03	3.33E-02	3.85E-02	3.40E-02	3.54E-02	76.26	31.25	3	2.01	0.41	15.62	28.21	507.93	17.43
11	7	1.46E-05	6.71E-02	1.78E-03	2.89E-02	1.80E-01	2.06E-02	8.43E-03	52.70	19.99	2	2.14	0.50	26.41	38.45	539.24	13.47
12	4	2.72E-05	4.62E-02	1.18E-03	5.60E-02	1.92E-02	2.67E-02	9.30E-03	23.49	11.77	2	1.88	0.63	18.18	37.80	554.45	12.60
13	7	2.33E-05	7.04E-02	2.32E-03	2.43E-02	7.60E-03	1.09E-02	7.49E-03	31.42	11.94	2	2.23	0.47	27.73	48.43	490.25	15.38
14	2	1.46E-05	3.09E-02	7.90E-04	8.73E-02	1.13E-01	2.25E-01	7.40E-02	32.72	23.16	1	2.12	0.53	12.17	17.90	473.60	12.93
15	2	1.46E-05	2.39E-02	7.55E-04	7.09E-02	1.22E-02	1.70E-02	1.62E-02	42.33	29.97	2	1.86	0.49	9.40	30.69	175.98	14.05
16	3	1.16E-05	4.28E-02	1.16E-03	2.71E-02	1.01E-02	1.53E-02	6.52E-03	44.27	25.60	4	2.03	0.47	16.85	41.14	487.41	12.61
17	6	2.91E-05	4.52E-02	1.32E-03	3.22E-02	7.99E-02	2.69E-02	8.29E-03	33.57	13.76	3	1.87	0.58	17.79	37.58	547.80	14.49
18	10	2.33E-05	3.27E-02	9.50E-04	5.30E-02	5.27E-02	6.74E-02	4.86E-02	96.29	30.64	4	2.12	0.84	12.86	23.62	455.40	14.82
19	6	2.43E-05	4.84E-02	1.47E-03	2.85E-02	4.03E-02	2.96E-02	1.75E-02	37.58	15.40	3	2.52	0.73	19.07	42.27	555.05	18.65
21	7	1.75E-05	9.91E-02	2.69E-03	4.63E-02	3.50E-01	3.28E-02	2.33E-02	29.77	11.29	3	2.10	0.68	39.04	45.00	551.85	13.71
22	9	2.91E-05	4.99E-02	1.52E-03	5.28E-02	4.28E-02	2.83E-02	2.57E-02	45.57	15.28	3	2.34	0.85	19.64	40.44	562.25	14.43
23	5	2.43E-05	1.77E-01	5.62E-03	4.12E-01	1.29E-01	2.83E-01	3.20E-02	8.57	3.85	3	2.37	0.55	69.84	171.06	1155.80	4.35
25	9	2.91E-05	3.78E-02	1.05E-03	9.26E-02	1.41E-01	1.44E-01	1.01E-01	60.05	20.12	3	2.19	0.87	14.89	26.10	477.19	16.42

Mean Dpar = 2.13
 Mean Dper = 0.66
 Modified Zeta = 14.762+/- 0.291
 Mean 29Si b:s = 0.065
 Mean 43Ca b:s = 0.065
 Mean 238U b:s = 0.100
 Number of grains= 21
 Chi-squared = 42.9
 Chi-squared prob= 0.0021
Pooled Age (Ma) = 42.2+/- 3.4

950-07

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	1.46E-05	5.36E-02	1.97E-03	3.41E-02	4.84E-02	4.69E-02	3.21E-02	9.40	9.41	1	1.73	0.62	21.23	49.82	176.09	21.08
3	1	9.71E-06	1.18E-02	4.27E-04	6.69E-02	1.33E-01	8.09E-02	4.16E-02	63.61	63.66	1	2.37	0.72	4.69	13.20	214.05	18.26
4	2	2.33E-05	6.73E-03	2.37E-04	5.14E-02	1.06E-01	8.80E-02	6.03E-02	92.86	65.77	2	1.85	0.48	2.67	3.94	139.59	16.19
5	1	1.75E-05	9.83E-04	4.41E-05	1.36E-01	6.21E-01	2.43E-01	7.07E-02	413.41	413.91	1	2.85	0.91	0.39	12.74	135.97	8.21
6	0	1.21E-05	4.33E-03	1.47E-04	3.45E-02	1.80E-02	1.72E-01	3.29E-02	0.00	202.74	1	1.68	0.73	1.72	1.97	335.67	16.62
7	2	1.75E-05	7.80E-03	2.56E-04	3.06E-02	4.57E-02	4.64E-02	2.83E-02	106.77	75.61	2	2.17	0.55	3.09	11.20	127.24	15.82
8	2	2.43E-05	6.53E-03	2.05E-04	4.52E-02	3.74E-02	5.03E-02	1.51E-02	91.89	65.06	2	2.71	1.21	2.59	9.83	140.46	14.21
9	0	2.72E-05	5.79E-03	2.20E-04	8.64E-02	1.41E-01	1.02E-01	1.15E-01	0.00	69.18	1	1.92	0.12	2.29	10.11	171.18	18.47
10	8	1.46E-05	1.67E-01	6.54E-03	1.04E-01	1.23E-01	9.72E-02	9.63E-02	24.08	8.58	1	1.61	0.20	66.21	29.02	93.98	18.01
11	3	1.46E-05	1.55E-02	6.74E-04	8.26E-02	4.43E-01	7.62E-02	1.17E-01	96.84	56.10	2	2.04	0.47	6.14	22.15	57.74	17.03
12	1	1.21E-05	1.08E-02	4.69E-04	1.28E-01	3.10E-01	2.29E-01	9.47E-02	55.94	56.01	2	2.87	0.94	4.26	15.49	262.32	19.34
14	5	2.33E-05	2.11E-01	6.21E-03	5.72E-02	7.66E-03	6.97E-02	2.12E-02	7.45	3.34	2	1.72	0.62	83.71	32.69	296.73	7.75
16	1	1.21E-05	1.32E-02	3.88E-04	3.78E-02	1.61E-01	1.23E-01	4.85E-02	45.57	45.60	3	2.93	1.05	5.24	16.89	178.13	14.37
17	2	1.21E-05	3.87E-02	1.22E-03	3.84E-02	4.92E-02	4.64E-02	5.04E-02	31.17	22.07	3	1.65	0.63	15.34	17.26	118.20	14.54
19	3	2.62E-05	4.19E-02	1.18E-03	1.30E-01	2.15E-01	3.46E-01	1.67E-01	20.01	11.58	2	1.74	0.52	16.60	9.36	144.71	15.90
20	25	1.36E-05	3.82E-01	1.15E-02	5.37E-02	7.93E-02	7.67E-02	7.01E-02	35.20	7.15	4	2.18	0.64	151.53	141.90	127.16	17.99
22	2	2.04E-05	9.33E-03	3.20E-04	1.09E-01	1.84E-01	1.31E-01	1.45E-01	76.65	54.29	2	3.03	1.17	3.70	11.44	137.83	17.49
23	1	1.75E-05	8.25E-03	2.79E-04	4.90E-02	7.12E-02	7.89E-02	5.07E-02	50.70	50.74	1	2.61	0.75	3.27	8.52	99.19	19.65
24	5	1.46E-05	7.35E-02	2.41E-03	1.13E-01	9.52E-02	1.04E-01	1.39E-01	34.19	15.35	3	1.83	0.54	29.12	24.68	204.40	15.25
25	9	2.43E-05	1.33E-01	4.39E-03	3.26E-02	1.56E-02	1.67E-02	2.52E-02	20.43	6.86	3	2.05	0.67	52.69	83.10	112.46	14.93

Mean Dpar = 2.18
 Mean Dper = 0.68
 Modified Zeta = 14.670+/- 0.292
 Mean 29Si b:s = 0.071
 Mean 43Ca b:s = 0.071
 Mean 238U b:s = 0.145
 Number of grains= 20
 Chi-squared = 40.3
 Chi-squared prob= 0.0030
Pooled Age (Ma) = 26.0+/- 3.1

950-08

No data

950-09

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	9	4.37E-05	6.28E-03	2.49E-04	5.55E-02	4.03E-01	5.00E-02	5.23E-02	234.12	78.73	2	2.13	0.82	2.51	9.87	109.80	17.01
2	1	1.75E-05	8.29E-03	2.75E-04	4.08E-02	4.63E-01	6.46E-02	4.03E-02	49.99	50.02	1	1.98	0.28	3.32	13.29	112.02	14.90
3	1	1.46E-05	1.15E-02	4.24E-04	2.63E-02	6.24E-02	3.55E-02	2.96E-02	43.33	43.36	1	2.01	0.54	4.59	12.08	128.43	16.56
5	3	2.91E-05	1.19E-02	4.00E-04	2.32E-02	2.27E-02	2.48E-02	1.58E-02	62.70	36.28	2	2.27	0.90	4.75	11.85	163.10	15.39
6	0	2.43E-05	1.16E-02	3.89E-04	3.75E-02	3.41E-02	5.28E-02	5.55E-02	0.00	38.37	1	2.12	1.22	4.66	11.67	96.23	14.04

7	2	2.91E-05	1.35E-02	4.50E-04	2.86E-02	3.73E-02	3.79E-02	4.17E-02	36.84	26.09	2	1.90	0.99	5.40	13.64	118.33	14.43
8	2	1.55E-05	2.25E-02	7.35E-04	6.23E-02	9.91E-02	3.82E-02	3.71E-02	41.46	29.36	2	2.40	0.78	9.00	22.36	80.51	15.04
9	3	1.94E-05	2.02E-02	6.48E-04	6.85E-02	1.45E-01	4.76E-02	3.38E-02	55.49	32.11	3	2.32	0.62	8.06	18.62	102.33	14.33
10	5	4.37E-05	2.30E-02	7.20E-04	4.69E-02	5.35E-02	4.01E-02	3.03E-02	36.12	16.21	2	2.02	0.61	9.19	19.04	150.40	13.58
11	3	1.94E-05	1.51E-02	5.24E-04	6.03E-02	4.29E-02	4.01E-02	3.16E-02	73.98	42.82	3	2.05	0.84	6.04	15.74	145.57	14.96
12	6	1.75E-05	1.93E-02	6.82E-04	3.93E-02	1.43E-02	1.27E-02	1.27E-02	128.14	52.57	2	1.96	0.69	7.71	18.16	121.58	14.88
13	2	3.40E-05	6.84E-03	2.52E-04	6.73E-02	2.55E-01	6.68E-02	6.18E-02	62.25	44.09	2	2.28	0.29	2.74	8.82	116.30	15.47
14	2	2.43E-05	1.44E-02	4.93E-04	3.18E-02	3.44E-02	3.02E-02	1.70E-02	41.53	29.41	1	2.16	0.42	5.75	15.54	152.90	13.70
15	2	2.43E-05	2.60E-02	9.15E-04	2.56E-02	4.67E-02	1.07E-02	1.91E-02	23.05	16.32	2	2.38	0.58	10.38	32.05	179.77	14.02
16	5	4.85E-05	1.53E-02	4.89E-04	3.45E-02	2.72E-02	3.15E-02	2.04E-02	48.63	21.82	2	2.23	0.80	6.14	16.88	150.79	12.97
17	6	3.40E-05	1.29E-02	4.57E-04	4.53E-02	1.12E-01	3.95E-01	5.47E-02	98.51	40.42	4	1.71	0.49	5.17	490.73	130.86	15.23
18	1	2.91E-05	1.22E-02	4.00E-04	9.75E-02	3.86E-01	2.80E+00	5.36E-02	20.42	20.43	1	1.80	0.58	4.88	4.41	145.65	12.63
19	1	1.16E-05	1.32E-02	4.13E-04	4.48E-02	5.75E-02	6.45E-02	1.61E-02	47.26	47.29	1	2.12	1.10	5.26	12.21	147.63	13.73
20	1	1.94E-05	1.66E-02	4.95E-04	2.99E-02	1.48E-02	2.93E-02	2.00E-02	22.49	22.50	1	1.88	0.78	6.65	15.56	112.42	12.72
21	7	4.37E-05	1.17E-02	4.31E-04	2.73E-02	4.11E-02	4.99E-02	2.02E-02	98.93	37.62	2	1.94	0.47	4.67	9.48	143.99	14.53
22	1	2.18E-05	1.47E-02	4.92E-04	8.78E-02	6.08E-02	6.47E-02	4.16E-02	22.65	22.67	1	1.93	0.33	5.87	14.79	132.77	15.46
23	10	3.88E-05	1.34E-02	4.98E-04	2.39E-02	1.07E-02	3.40E-02	5.07E-03	137.85	43.98	3	2.04	0.65	5.37	8.28	166.41	16.36
24	5	3.40E-05	1.48E-02	5.25E-04	5.64E-02	1.40E-01	5.73E-02	4.59E-02	72.08	32.37	1	1.64	0.39	5.90	13.54	130.34	17.44
25	2	2.38E-05	1.32E-02	4.69E-04	2.43E-02	5.83E-02	3.84E-02	1.02E-02	46.20	32.72	2	1.77	0.31	5.27	12.70	153.96	16.77

Mean Dpar = 2.04
 Mean Dper = 0.64
 Modified Zeta = 14.543+/- 0.292
 Mean 29Si b:s = 0.045
 Mean 43Ca b:s = 0.045
 Mean 238U b:s = 0.109
 Number of grains= 24
 Chi-squared = 37.4
 Chi-squared prob= 0.0293
Pooled Age (Ma) = 61.7+/- 7.0

950-10

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	7	1.75E-05	4.68E-02	1.70E-03	2.11E-02	4.88E-03	6.73E-03	3.85E-03	56.44	21.46	2	1.96	0.72	20.54	47.51	445.93	13.83
2	5	2.91E-05	2.97E-02	1.14E-03	2.60E-02	4.49E-01	1.57E-02	6.49E-03	38.14	17.14	3	1.81	0.26	13.05	46.00	454.97	14.74
5	5	9.71E-06	3.69E-02	1.08E-03	7.08E-02	4.31E-01	7.76E-02	6.97E-02	91.77	41.17	2	1.64	0.23	16.20	65.31	566.12	9.50
6	4	1.21E-05	3.47E-02	1.31E-03	4.01E-02	3.62E-01	6.29E-02	4.69E-02	62.56	31.40	1	1.79	0.28	15.24	45.10	434.88	16.97
11	5	3.40E-05	5.72E-02	2.14E-03	2.84E-02	3.82E-02	3.16E-02	2.33E-02	17.00	7.64	2	1.56	0.38	25.12	48.09	460.43	16.72
13	1	1.75E-05	2.95E-02	1.09E-03	6.71E-02	1.75E-01	1.08E-01	9.51E-02	12.83	12.84	1	1.91	0.34	12.96	25.97	347.51	16.15
14	4	1.16E-05	5.73E-02	1.88E-03	3.77E-02	8.29E-02	6.07E-02	3.32E-02	39.55	19.83	2	1.33	0.28	25.16	48.69	473.50	13.56
15	2	1.46E-05	4.07E-02	1.61E-03	2.22E-02	3.32E-02	3.03E-02	1.94E-02	22.33	15.82	2	1.73	0.20	17.85	47.51	432.16	17.48
16	6	1.16E-05	7.08E-02	2.35E-03	3.58E-02	5.79E-02	4.71E-02	3.71E-02	48.01	19.69	2	1.86	0.61	31.07	82.63	519.00	14.55
17	6	1.46E-05	3.92E-02	1.33E-03	3.13E-02	4.39E-01	1.21E-02	1.43E-02	69.23	28.39	2	1.36	0.55	17.21	58.20	469.53	12.25
18	2	9.71E-06	6.23E-02	2.33E-03	4.51E-02	5.71E-02	4.44E-02	2.84E-02	21.88	15.50	2	1.73	0.27	27.32	53.81	488.85	16.08
20	5	2.72E-05	5.82E-02	2.21E-03	2.71E-02	4.80E-02	3.48E-02	1.92E-02	20.88	9.38	3	1.69	0.39	25.57	46.61	467.79	16.73
21	4	2.91E-05	5.52E-02	2.15E-03	2.25E-02	2.97E-02	1.51E-02	1.54E-02	16.45	8.26	2	1.72	0.75	24.24	57.43	490.76	15.80
23	12	2.04E-05	5.59E-02	2.14E-03	2.56E-02	1.57E-02	2.46E-02	1.52E-02	69.37	20.25	3	1.50	0.29	24.54	55.67	450.54	16.11
25	2	1.46E-05	3.29E-02	1.10E-03	2.31E-02	1.51E-02	1.62E-02	8.27E-03	27.59	19.54	1	1.68	0.54	14.44	32.33	369.47	14.15

Mean Dpar = 1.68
 Mean Dper = 0.41
 Modified Zeta = 13.246+/- 0.266
 Mean 29Si b:s = 0.035
 Mean 43Ca b:s = 0.035
 Mean 238U b:s = 0.149
 Number of grains= 15
 Chi-squared = 24.4
 Chi-squared prob= 0.0406
Pooled Age (Ma) = 35.6+/- 4.3

950-11

No data

950-12

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	2	1.46E-05	3.39E-02	9.93E-04	7.01E-02	6.26E-02	7.60E-02	3.28E-02	29.89	21.16	3	1.43	0.26	13.33	11.04	309.56	15.75
2	5	3.88E-05	6.11E-02	1.85E-03	4.56E-02	6.69E-02	4.58E-02	2.55E-02	15.58	6.99	2	1.73	0.29	24.00	45.03	548.34	15.00
3	9	1.55E-05	1.16E-01	3.10E-03	4.37E-02	7.34E-02	6.26E-02	3.84E-02	37.01	12.40	2	1.55	0.40	45.38	86.74	777.04	14.72
4	4	1.70E-05	7.14E-02	1.93E-03	2.59E-02	1.49E-02	8.59E-03	1.10E-02	24.38	12.22	3	1.78	0.26	28.03	71.04	597.32	13.31
6	5	1.46E-05	8.29E-02	2.13E-03	7.48E-02	5.22E-01	6.73E-02	6.71E-02	30.61	13.72	2	1.80	0.58	32.54	89.01	767.94	12.24
7	2	2.43E-05	3.99E-02	1.16E-03	3.42E-02	2.89E-01	7.10E-02	5.61E-02	15.29	10.82	2	1.93	0.19	15.65	36.45	368.28	16.02
8	5	1.75E-05	5.18E-02	1.54E-03	6.97E-02	7.05E-01	2.63E-02	1.71E-02	40.79	18.30	4	1.87	0.21	20.33	31.31	682.72	16.12
9	5	2.43E-05	4.71E-02	1.44E-03	3.10E-02	1.05E-01	2.70E-02	1.49E-02	32.29	14.49	4	1.95	0.33	18.50	22.69	533.71	17.44
10	2	1.75E-05	6.78E-02	2.05E-03	3.29E-02	3.08E-02	2.99E-02	2.24E-02	12.49	8.84	3	1.73	0.42	26.62	39.34	599.58	16.89
11	3	1.21E-05	9.33E-02	2.47E-03	2.03E-02	5.99E-02	1.93E-02	9.21E-03	19.60	11.33	2	1.49	0.19	36.62	100.30	740.54	16.85
12	2	1.21E-05	6.88E-02	1.96E-03	2.62E-02	7.66E-02	2.45E-02	1.11E-02	17.70	12.53	2	1.91	0.28	27.03	43.95	483.25	18.12
13	1	1.21E-05	6.35E-02	1.85E-03	2.47E-02	1.65E-02	2.34E-02	1.87E-02	9.61	9.61	2	1.84	0.55	24.92	43.23	497.18	18.69
14	8	2.91E-05	9.85E-02	2.82E-03	3.87E-02	1.09E-01	3.45E-02	2.86E-02	20.61	7.32	2	1.70	0.65	38.68	84.49	742.36	17.72
15	2	1.16E-05	9.04E-02	2.87E-03	1.96E-02	1.20E-02	1.25E-02	1.70E-02	14.05	9.95	1	1.54	0.91	35.49	51.14	643.76	18.19
16	3	1.46E-05	1.67E-02	5.19E-04	2.53E-02	5.65E-01	2.51E-02	1.71E-02	90.89	52.58	3	1.55	0.34	6.54	22.18	460.56	17.58
17	12	2.43E-05	1.20E-01	3.53E-03	2.77E-02	4.70E-02	1.87E-02	1.15E-02	30.41	8.85	4	1.75	0.51	47.15	114.54	799.86	16.42
18	5	1.46E-05	6.40E-02	1.88E-03	2.16E-02	1.36E-02	1.88E-02	3.96E-03	39.58	17.75	1	1.68	0.19	25.14	36.47	588.85	16.21
19	7	1.94E-05	1.22E-01	3.47E-03	2.57E-02	3.04E-02	1.73E-02	1.09E-02	21.78	8.27	2	2.07	0.49	48.05	121.51	810.81	16.82
20	3	1.02E-05	1.02E-01	2.66E-03	4.47E-02	5.51E-02	4.68E-02	2.43E-02	21.26	12.29	2	1.67	0.49	40.18	29.50	675.40	15.28
21	3	1.16E-05	6.21E-02	1.59E-03	5.33E-02	4.66E-02	8.89E-03	5.41E-03	30.64	17.72	3	1.61	0.29	24.38	40.77	541.30	13.16
22	6	1.75E-05	5.39E-02	1.52E-03	2.58E-02	2.97E-01	1.58E-02	3.78E-03	46.96	19.24	3	1.61	0.27	21.18	39.03	537.07	13.87
23	5	1.31E-05	4.45E-02	1.17E-03	2.87E-02	3.25E-02	3.74E-02	1.16E-02	63.13	28.31	3	1.57	0.25	17.48	37.97	431.99	12.97
24	7	1.36E-05	3.99E-02	1.14E-03	2.46E-02	3.95E-01	5.19E-03	3.37E-02	94.93	36.03	2	1.51	0.49	15.66	53.55	402.51	13.46
25	6	1.46E-05	1.40E-01	4.15E-03	2.38E-02	5.20E-02	1.07E-02	4.27E-03	21.71	8.90	2	1.40	0.40	55.09	73.55	659.55	15.76

Mean Dpar = 1.69
 Mean Dper = 0.38
 Modified Zeta = 14.808+/- 0.291
 Mean 29Si b:s = 0.036
 Mean 43Ca b:s = 0.036
 Mean 238U b:s = 0.153
 Number of grains= 24
 Chi-squared = 31.0
 Chi-squared prob= 0.1239
Pooled Age (Ma) = 27.3+/- 2.6

950-13

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	1	1.94E-05	1.50E-02	3.74E-04	6.41E-02	4.92E-01	1.30E-01	6.78E-02	23.70	23.71	2	1.35	0.10	6.31	8.22	486.62	14.48
3	1	1.21E-05	3.39E-02	8.74E-04	2.79E-02	1.48E-01	3.62E-02	2.33E-02	16.82	16.83	1	1.21	0.44	14.23	19.34	417.37	14.43
4	2	4.85E-05	2.72E-02	6.28E-04	3.11E-01	6.39E-01	3.56E-01	2.72E-01	10.50	7.43	2	1.23	0.07	11.40	15.55	245.29	14.21
5	5	3.11E-05	6.25E-02	1.59E-03	1.18E-01	5.05E-01	8.78E-02	8.89E-02	17.80	7.98	2	1.33	0.13	26.25	65.20	678.99	16.69
6	4	2.38E-05	2.01E-03	8.53E-05	1.16E-01	5.19E+00	1.10E-01	4.15E-02	553.94	278.17	2	1.27	0.54	0.85	8.12	591.09	14.76
7	10	2.04E-05	1.67E-01	4.20E-03	1.07E-01	2.71E-01	4.35E-02	4.22E-02	20.29	6.45	2	1.36	0.49	70.17	181.73	1028.50	14.63
9	8	1.46E-05	1.08E-01	2.91E-03	4.33E-02	5.09E-02	4.13E-02	5.17E-02	35.02	12.44	2	1.17	0.28	45.48	110.50	807.14	15.45
11	1	9.71E-06	7.86E-02	2.00E-03	5.20E-02	6.34E-02	9.33E-02	2.71E-02	9.06	9.07	1	1.10	0.16	33.02	77.26	790.12	17.81
12	1	1.46E-05	3.97E-02	1.02E-03	3.70E-02	9.04E-02	1.48E-01	6.39E-02	11.97	11.97	1	1.11	0.30	16.67	28.92	688.34	17.65
14	9	2.18E-05	1.26E-01	3.15E-03	4.20E-02	4.35E-02	4.83E-02	3.83E-02	22.64	7.58	2	1.23	0.33	52.83	9.73	261.48	15.90
15	2	1.21E-05	2.56E-02	6.68E-04	3.16E-02	9.53E-01	5.91E-02	1.50E-02	44.39	31.42	1	1.10	0.12	10.76	4.70	429.35	15.89
16	4	4.85E-05	2.51E-02	6.59E-04	6.51E-02	1.10E-01	2.37E-01	6.91E-02	22.65	11.35	2	1.54	0.19	10.56	5.68	239.58	15.59
17	1	1.16E-05	2.11E-02	5.89E-04	6.89E-02	7.04E-01	4.94E-02	4.85E-02	28.14	28.16	1	1.44	0.19	8.85	30.95	582.37	16.50
18	3	2.33E-05	4.38E-02	9.89E-04	9.57E-02	1.96E-01	1.09E-01	1.07E-01	20.33	11.75	1	1.23	0.28	18.38	24.32	382.75	14.41
20	4	1.46E-05	3.95E-02	9.61E-04	3.06E-02	3.49E-01	3.38E-02	2.01E-02	47.96	24.02	2	1.08	0.14	16.59	39.00	627.41	14.88

21	3	1.31E-05	3.06E-02	7.06E-04	1.24E-01	4.57E-01	2.25E-01	4.81E-02	51.55	29.80	2	1.13	0.14	12.86	22.22	681.12	12.18
22	3	2.33E-05	7.65E-02	1.69E-03	1.59E-01	3.01E-01	3.25E-02	4.75E-02	11.64	6.73	2	1.25	0.28	32.12	93.26	909.31	10.64
23	6	1.75E-05	9.60E-02	2.30E-03	1.37E-01	2.27E-01	1.12E-01	6.83E-02	24.71	10.12	2	1.10	0.08	40.32	19.38	314.62	14.16
24	2	1.94E-05	4.86E-02	1.23E-03	4.22E-02	1.38E-01	2.35E-02	1.61E-02	14.67	10.38	3	1.71	0.35	20.40	47.81	484.05	15.39

Mean Dpar = 1.26
 Mean Dper = 0.24
 Modified Zeta = 13.845+/- 0.268
 Mean 29Si b:s = 0.088
 Mean 43Ca b:s = 0.088
 Mean 238U b:s = 0.575
 Number of grains= 19
 Chi-squared = 53.0
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 22.8+/- 2.8

950-14

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	2	1.21E-05	4.31E-02	1.96E-03	1.60E-01	1.92E-01	1.90E-01	1.27E-01	24.03	17.04	1	1.24	0.32	19.96	29.26	398.67	13.27
3	1	2.33E-05	3.94E-02	1.65E-03	9.89E-02	1.43E-01	6.18E-02	9.44E-02	6.86	6.87	1	1.40	0.20	18.23	20.47	327.54	13.15
4	2	9.71E-06	5.86E-02	2.44E-03	1.35E-01	1.30E-01	1.53E-01	1.12E-01	22.10	15.66	2	1.51	0.19	27.13	24.69	463.35	11.52
5	5	3.11E-05	7.86E-03	3.20E-04	2.20E-01	3.44E-01	3.35E-01	2.08E-01	127.68	57.40	3	2.44	0.36	3.64	8.60	206.08	13.17
7	33	6.79E-06	5.18E-01	1.77E-02	1.84E-01	1.87E-01	1.21E-01	1.52E-01	58.85	10.51	4	2.03	0.37	239.52	114.98	541.17	6.72
8	6	1.36E-05	6.60E-02	2.62E-03	2.04E-01	2.49E-01	1.44E-01	2.43E-01	42.03	17.26	4	1.11	0.21	30.53	27.11	307.91	10.67
9	3	2.62E-05	8.44E-02	3.64E-03	1.33E-01	1.85E-01	2.32E-01	1.55E-01	8.54	4.95	2	1.41	0.26	39.06	1.77	570.69	13.52
10	2	7.77E-06	3.98E-02	1.45E-03	9.28E-02	2.99E-01	1.21E-01	6.51E-02	40.61	28.76	3	1.93	0.55	18.44	40.76	534.48	10.15
11	1	1.46E-05	2.27E-02	8.42E-04	1.15E-01	2.04E-01	2.61E-01	1.16E-01	19.01	19.03	1	1.23	0.54	10.52	15.68	326.35	9.87
12	1	1.94E-05	4.51E-02	1.83E-03	1.07E-01	1.89E-01	1.58E-01	1.17E-01	7.19	7.20	2	1.46	0.18	20.87	25.93	286.46	12.45
13	1	5.82E-06	3.05E-02	1.21E-03	9.32E-02	2.13E-01	9.59E-02	9.70E-02	35.39	35.42	2	1.30	0.09	14.11	15.89	294.82	13.03
14	26	1.70E-05	3.24E-01	1.20E-02	9.08E-02	1.06E-01	5.73E-02	5.13E-02	29.71	5.96	4	1.50	0.27	149.85	834.95	576.90	11.60
15	1	7.77E-06	3.10E-02	1.37E-03	3.65E-02	8.73E-02	7.42E-02	3.35E-02	26.14	26.17	1	1.24	0.24	14.34	17.53	311.32	13.23
16	6	1.21E-05	5.88E-02	2.30E-03	4.52E-02	2.27E-01	1.35E+00	2.40E-02	52.81	21.68	3	1.07	0.18	27.19	19.34	353.61	12.04
17	1	5.82E-06	3.41E-02	1.34E-03	8.13E-02	2.70E-01	8.96E-02	7.03E-02	31.69	31.72	1	1.48	0.31	15.76	19.16	314.48	12.52
18	1	4.37E-06	3.30E-02	1.35E-03	6.21E-02	4.36E-02	0.00E+00	3.29E-02	43.54	43.59	1	1.42	0.09	15.28	0.00	359.33	11.62
20	1	1.21E-05	4.32E-02	1.74E-03	4.30E-02	3.35E-02	4.56E-02	3.37E-02	12.02	12.03	2	1.59	0.19	19.98	15.14	286.37	12.20
23	20	7.77E-06	2.39E-01	1.03E-02	3.82E-02	7.24E-02	4.48E-02	4.22E-02	67.64	15.46	2	1.29	0.38	110.44	116.86	1011.20	11.81

Mean Dpar = 1.48
 Mean Dper = 0.27
 Modified Zeta = 12.601+/- 0.256
 Mean 29Si b:s = 0.108
 Mean 43Ca b:s = 0.108
 Mean 238U b:s = 0.176
 Number of grains= 18
 Chi-squared = 39.7
 Chi-squared prob= 0.0014
Pooled Age (Ma) = 36.0+/- 3.5

950-15

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	6	4.37E-05	3.64E-02	1.21E-03	6.48E-02	1.05E-01	6.51E-02	6.24E-02	25.33	10.39	4	1.61	0.28	15.74	25.66	311.18	17.82
2	3	1.94E-05	2.83E-02	1.02E-03	1.37E-01	1.69E-01	9.15E-02	8.20E-02	36.63	21.20	3	1.70	0.28	12.23	20.13	437.56	16.60
3	7	4.85E-05	2.58E-02	8.73E-04	4.31E-02	8.59E-02	6.69E-02	4.06E-02	37.47	14.24	2	1.53	0.33	11.16	19.00	354.68	17.64
4	5	2.33E-05	3.89E-02	1.22E-03	3.61E-02	5.90E-02	4.61E-02	2.71E-02	37.03	16.61	3	1.56	0.27	16.81	34.14	506.94	16.87
5	8	3.88E-05	4.13E-02	1.40E-03	4.13E-02	4.97E-02	5.06E-02	3.79E-02	33.49	11.91	3	1.44	0.32	17.84	31.21	494.58	16.83
6	4	2.43E-05	2.15E-02	6.78E-04	7.44E-02	1.18E-01	3.39E-02	4.53E-02	51.34	25.74	2	1.54	0.44	9.30	14.80	398.22	15.29
7	2	2.91E-05	3.05E-02	9.61E-04	4.47E-02	7.83E-02	5.17E-02	2.63E-02	15.14	10.72	1	1.40	0.34	13.18	18.72	411.64	14.82

8	13	3.88E-05	2.97E-02	9.27E-04	4.63E-02	1.97E-01	1.92E-02	5.89E-02	75.49	21.12	3	1.48	0.36	12.82	24.52	412.29	15.74
9	3	2.91E-05	2.59E-02	8.17E-04	2.35E-02	7.74E-02	4.36E-02	8.28E-03	26.67	15.43	2	1.67	0.33	11.21	21.98	373.30	15.86
11	8	2.43E-05	2.26E-02	7.15E-04	5.83E-02	3.91E-01	2.59E-02	2.77E-02	97.62	34.71	2	1.37	0.40	9.75	29.66	454.63	14.85
12	7	4.85E-05	3.25E-02	1.05E-03	2.47E-02	2.99E-02	2.12E-02	1.76E-02	29.76	11.30	2	1.96	0.25	14.06	19.76	368.06	16.07
13	4	3.11E-05	3.63E-02	1.21E-03	2.09E-02	8.73E-03	2.68E-02	7.44E-03	23.82	11.95	2	1.96	0.30	15.69	21.23	384.10	16.76
14	9	3.88E-05	2.36E-02	6.84E-04	2.95E-02	2.12E-01	3.45E-02	1.63E-02	65.63	22.00	2	2.01	0.65	10.22	17.88	351.98	14.65
15	4	1.46E-05	3.39E-02	1.10E-03	2.72E-02	5.06E-02	3.32E-02	2.13E-02	54.32	27.24	3	1.18	0.20	14.65	22.55	425.40	15.06
16	3	1.94E-05	2.74E-02	8.68E-04	3.50E-02	8.03E-02	5.06E-02	1.89E-02	37.81	21.88	2	1.42	0.49	11.85	21.01	379.31	15.71
17	4	2.91E-05	1.91E-02	6.33E-04	4.90E-02	8.59E-02	9.15E-02	4.38E-02	48.27	24.21	1	1.76	0.49	8.24	14.16	276.48	16.81
18	4	1.46E-05	2.62E-02	8.81E-04	2.36E-02	3.39E-02	2.53E-02	9.95E-03	70.06	35.14	2	1.37	0.33	11.34	15.37	312.04	15.25
19	5	3.40E-05	2.17E-02	7.00E-04	2.84E-02	2.92E-01	3.14E-02	1.59E-02	45.49	20.42	2	1.72	0.50	9.37	17.14	371.10	14.95
20	2	2.43E-05	2.30E-02	6.73E-04	3.09E-02	3.10E-02	4.67E-02	1.53E-02	24.10	17.06	1	1.48	0.43	9.93	14.63	339.48	12.47
21	2	1.75E-05	3.12E-02	9.84E-04	3.01E-02	4.19E-02	2.87E-02	1.45E-02	24.60	17.42	1	1.43	0.20	13.51	21.90	350.75	14.11
22	8	3.11E-05	3.13E-02	9.50E-04	4.09E-02	1.07E-01	3.89E-02	3.51E-02	55.20	19.62	4	1.79	0.20	13.51	21.69	411.27	12.85
23	4	1.75E-05	3.39E-02	9.30E-04	3.49E-02	2.50E-02	2.32E-02	1.17E-02	45.27	22.68	2	1.53	0.30	14.66	24.33	459.22	10.97
24	6	4.85E-05	3.56E-02	1.01E-03	2.76E-02	1.64E-02	1.99E-02	9.78E-03	23.29	9.54	4	1.75	0.44	15.41	27.47	462.29	13.01
25	9	4.85E-05	4.35E-02	1.26E-03	7.32E-02	3.00E-02	3.74E-02	2.14E-02	28.63	9.60	2	1.54	0.35	18.79	24.35	454.00	13.11

Mean Dpar = 1.59
 Mean Dper = 0.35
 Modified Zeta = 13.457+/- 0.267
 Mean 29Si b:s = 0.044
 Mean 43Ca b:s = 0.044
 Mean 238U b:s = 0.099
 Number of grains= 24
 Chi-squared = 27.0
 Chi-squared prob= 0.2580
Pooled Age (Ma) = 38.6+/- 3.5

950-16

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	8	2.91E-05	1.16E-01	4.31E-03	1.49E-01	2.87E-01	1.41E-01	1.68E-01	17.23	6.13	3	1.76	0.69	46.30	96.44	392.97	21.71
2	2	1.94E-05	2.45E-02	1.02E-03	2.51E-01	1.62E+00	8.03E-01	3.60E-01	30.68	21.74	2	1.45	0.59	9.74	32.41	398.44	15.04
3	8	1.36E-05	1.63E-01	6.28E-03	1.30E-01	3.61E-01	5.20E-01	1.69E-01	26.32	9.37	2	1.67	0.56	64.89	104.60	496.06	20.27
4	3	1.21E-05	1.05E-01	3.69E-03	1.40E-01	2.01E-01	1.45E-01	9.69E-02	17.13	9.91	2	2.14	0.33	41.91	62.23	364.65	20.11
5	3	1.75E-05	1.46E-01	4.75E-03	3.31E-01	5.04E-01	3.55E-01	2.87E-01	8.58	4.96	2	1.94	0.58	58.17	50.54	519.20	14.35
6	6	2.62E-05	3.77E-02	1.42E-03	3.31E-01	5.48E-01	4.25E-01	3.14E-01	44.26	18.17	4	2.21	0.35	14.98	23.78	351.72	16.39
7	7	1.94E-05	9.28E-02	3.63E-03	1.64E-01	2.98E-01	3.02E-01	2.01E-01	28.31	10.77	2	1.76	0.21	36.94	69.73	521.76	23.37
8	9	1.46E-05	1.43E-01	4.87E-03	2.36E-01	2.94E-01	2.14E-01	2.27E-01	31.43	10.55	2	1.87	0.24	57.03	126.69	492.89	18.48
11	1	1.55E-05	5.64E-02	2.20E-03	5.23E-02	1.23E-01	5.63E-02	4.22E-02	8.34	8.35	1	1.87	0.29	22.43	22.68	365.88	19.40
12	8	3.40E-05	1.14E-01	3.62E-03	7.83E-02	3.06E-01	1.39E-01	9.49E-02	15.06	5.35	3	1.64	0.33	45.42	101.91	409.52	17.44
15	2	1.21E-05	2.50E-02	8.80E-04	7.14E-02	1.34E-01	1.46E-01	7.44E-02	47.93	33.95	2	1.74	0.33	9.96	7.10	288.60	17.91
16	1	7.28E-06	3.91E-02	1.32E-03	1.29E-01	3.47E-01	1.59E-01	7.78E-02	25.61	25.63	1	1.67	0.54	15.56	27.71	469.05	16.19
17	1	2.43E-05	2.85E-02	9.62E-04	5.83E-02	3.55E-01	9.30E-02	5.97E-02	10.54	10.55	1	1.93	0.49	11.35	23.72	349.22	17.86
19	5	1.46E-05	3.34E-02	1.16E-03	6.07E-02	2.33E-01	8.33E-02	7.14E-02	74.62	33.51	3	1.54	0.34	13.30	29.23	495.88	17.79
20	0	7.28E-06	4.17E-02	1.27E-03	1.28E-01	5.52E-01	1.67E-01	1.19E-01	0.00	35.94	1	1.46	0.57	16.57	27.26	523.42	16.31
21	5	1.46E-05	7.83E-02	2.50E-03	7.26E-02	9.81E-02	7.84E-02	6.09E-02	31.97	14.35	3	1.83	0.56	31.14	65.71	433.82	15.21
23	10	1.94E-05	8.83E-02	2.46E-03	3.98E-02	3.69E-01	3.30E-02	2.42E-02	42.47	13.51	2	1.80	0.54	35.14	98.07	447.99	12.27
24	3	2.91E-05	4.76E-02	1.39E-03	9.52E-02	6.80E-02	8.87E-02	7.77E-02	15.80	9.14	2	1.69	0.52	18.93	19.80	294.48	11.63
25	6	1.75E-05	1.80E-01	5.42E-03	6.64E-02	1.04E-01	5.42E-02	5.04E-02	13.96	5.72	2	1.48	0.26	71.42	94.19	541.04	13.80

Mean Dpar = 1.76
 Mean Dper = 0.44
 Modified Zeta = 14.612+/- 0.292
 Mean 29Si b:s = 0.136
 Mean 43Ca b:s = 0.136
 Mean 238U b:s = 0.358
 Number of grains= 19
 Chi-squared = 26.0
 Chi-squared prob= 0.0988
Pooled Age (Ma) = 22.1+/- 2.4

950-17

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	6	2.43E-05	4.38E-02	1.21E-03	3.94E-02	4.28E-02	3.74E-02	2.82E-02	38.10	15.61	2	1.39	0.30	18.82	13.75	1012.60	11.78
2	3	1.21E-05	2.75E-01	7.25E-03	6.76E-02	8.31E-02	4.08E-02	3.34E-02	6.07	3.51	1	1.78	0.65	118.34	118.77	2218.50	11.92
3	3	1.16E-05	1.45E-01	4.82E-03	2.89E-02	2.52E-02	4.33E-02	5.45E-02	12.03	6.96	1	1.46	0.40	62.21	77.99	1311.30	16.60
4	2	9.71E-06	4.31E-02	1.20E-03	9.46E-02	1.55E-01	1.00E-01	4.30E-02	32.28	22.85	2	1.76	0.42	18.52	12.82	1020.50	15.23
5	3	1.94E-05	2.70E-02	8.64E-04	5.08E-02	1.93E-01	1.32E-01	7.55E-02	38.66	22.37	2	1.58	0.28	11.59	8.60	826.08	16.17
7	3	2.91E-05	3.00E-03	1.15E-04	2.81E-02	1.68E-01	1.76E-01	2.18E-02	228.43	132.25	2	1.68	0.43	1.29	3.95	392.10	16.81
8	1	3.11E-05	5.59E-05	2.08E-06	3.25E-02	4.90E-01	1.99E+00	3.51E-01	3046.95	3049.65	1	1.24	0.10	0.02	0.00	2.57	12.85
9	5	1.75E-05	1.80E-01	5.13E-03	4.81E-02	5.45E-02	8.53E-02	6.12E-02	10.76	4.83	2	1.30	0.27	77.29	72.36	1321.60	13.17
10	1	9.71E-06	1.74E-02	4.88E-04	4.24E-02	9.23E-03	1.88E-02	4.76E-03	39.98	40.01	1	1.52	0.58	7.47	12.52	1109.20	10.83
11	7	5.82E-06	2.32E-01	6.39E-03	3.11E-02	3.29E-03	8.54E-03	2.17E-03	34.98	13.27	4	1.88	0.27	99.66	43.63	2047.00	10.99
15	9	1.46E-05	2.00E-01	6.30E-03	9.20E-02	2.24E-01	9.00E-02	3.70E-02	20.84	6.99	3	1.80	0.32	86.12	37.18	2048.80	17.02
16	1	1.21E-05	1.48E-02	5.00E-04	4.49E-02	2.55E-01	5.52E-02	3.55E-02	37.49	37.52	1	1.76	0.65	6.37	8.61	570.50	16.89
17	7	9.71E-06	4.99E-01	1.52E-02	1.02E-01	1.46E-01	6.59E-02	4.01E-02	9.78	3.71	1	1.52	0.39	214.28	258.17	2245.10	15.75
19	11	1.70E-05	1.20E-02	3.87E-04	7.08E-02	4.47E-02	1.44E-02	5.20E-02	355.71	108.09	2	1.61	0.46	5.15	7.95	817.90	17.08
20	5	1.94E-05	6.30E-02	1.95E-03	7.95E-02	1.12E-01	5.50E-02	5.10E-02	27.61	12.39	2	1.21	0.23	27.07	17.23	1310.80	14.07
21	2	9.71E-06	2.68E-02	8.05E-04	1.19E-01	2.78E-01	3.54E-02	2.36E-02	51.80	36.68	1	1.46	0.20	11.52	16.50	1063.60	12.93
22	1	7.28E-06	9.72E-03	2.83E-04	2.82E-01	1.93E+00	2.55E-01	2.20E-01	94.92	94.98	2	1.90	0.57	4.18	16.53	1073.40	14.84
23	1	7.77E-06	3.42E-02	1.21E-03	8.38E-02	1.58E-01	1.33E-01	1.02E-01	25.46	25.49	1	1.14	0.23	14.68	10.99	820.93	17.49
24	0	7.77E-06	1.92E-01	7.00E-03	1.79E-01	1.10E+00	3.21E-01	1.81E-01	0.00	6.81	1	1.28	0.21	82.43	78.49	1921.00	15.07
25	2	1.21E-05	1.32E-02	3.68E-04	2.27E-01	2.24E-01	2.49E-01	2.00E-01	83.69	59.25	2	1.36	0.66	5.69	8.34	458.23	13.44

Mean Dpar = 1.53
 Mean Dper = 0.38
 Modified Zeta = 13.536+/- 0.267
 Mean 29Si b:s = 0.087
 Mean 43Ca b:s = 0.087
 Mean 238U b:s = 0.285
 Number of grains= 20
 Chi-squared = 159.0
 Chi-squared prob= 0.0000

Pooled Age (Ma) = 21.1+/- 2.5

950-18

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	12	5.82E-06	2.24E-01	8.97E-03	2.38E-01	5.02E-01	3.68E-01	2.67E-01	56.30	16.45	2	1.22	0.46	105.98	157.28	2129.20	11.38
2	5	5.82E-06	2.06E-03	2.18E-04	4.46E-01	2.19E+00	5.87E-01	3.61E-01	2149.10	988.55	4	1.54	0.40	0.98	54.81	1869.40	4.98
4	3	7.77E-06	2.05E-02	7.41E-04	2.15E-01	3.18E-01	2.55E-01	2.37E-01	114.75	66.42	2	0.96	0.12	9.71	17.80	396.51	9.69
6	2	9.71E-06	2.02E-01	8.30E-03	1.47E-01	1.70E-01	1.44E-01	1.27E-01	6.24	4.42	2	1.58	0.49	95.92	45.79	428.58	10.78
7	1	4.85E-06	2.68E-02	1.19E-03	2.14E-01	2.77E-01	2.71E-01	1.36E-01	47.00	47.05	2	1.81	0.34	12.71	38.96	856.14	11.72
9	9	3.88E-05	2.93E-02	1.22E-03	4.65E-02	1.05E-01	5.38E-02	3.81E-02	48.34	16.27	3	1.72	0.60	13.90	24.48	477.78	11.21
12	0	3.88E-06	1.18E-02	4.77E-04	7.49E-02	6.20E-01	9.60E-02	7.20E-02	0.00	194.03	1	1.33	0.26	5.62	22.97	482.08	11.19
13	1	2.91E-06	4.45E-03	2.42E-04	5.15E-01	3.43E+00	2.97E+00	4.77E-01	457.17	457.94	1	1.23	0.29	2.11	17.82	630.28	4.26
16	8	1.46E-05	4.03E-02	1.62E-03	9.38E-02	2.31E-01	1.38E-01	9.23E-02	83.12	29.63	4	1.82	0.53	19.10	44.61	543.84	11.49
17	3	9.71E-06	4.72E-02	3.05E-03	2.91E-01	7.05E-01	2.05E-01	3.65E-01	40.07	23.29	3	1.78	0.38	22.36	68.21	59.20	4.12
19	2	5.82E-06	2.24E-02	8.70E-04	1.12E-01	3.05E-01	1.09E-01	1.06E-01	93.46	66.21	1	2.00	0.20	10.61	31.89	621.16	11.19
21	1	7.77E-06	2.53E-02	1.01E-03	6.64E-02	6.36E-02	6.02E-02	4.64E-02	31.13	31.16	1	1.33	0.12	12.00	24.89	564.07	11.12
24	6	1.46E-05	1.19E-02	4.60E-04	7.40E-02	1.05E-01	9.68E-01	1.54E-01	209.75	86.12	4	1.29	0.36	5.62	0.01	32.70	9.90
26	1	4.37E-06	2.32E-02	9.23E-04	8.58E-02	1.16E-01	8.68E-02	6.74E-02	60.32	60.38	1	2.07	0.48	10.99	29.75	598.39	11.09
27	5	9.71E-06	2.96E-02	1.21E-03	4.30E-02	1.15E-01	3.60E-02	1.68E-02	105.81	47.57	3	1.22	0.28	14.04	28.60	454.17	10.85
28	3	9.71E-06	7.61E-02	3.06E-03	7.26E-02	4.01E-01	5.14E-02	5.37E-02	24.85	14.39	2	1.80	0.38	36.10	98.37	277.81	10.99

Mean Dpar = 1.54
 Mean Dper = 0.35
 Modified Zeta = 12.268+/- 0.251
 Mean 29Si b:s = 0.171
 Mean 43Ca b:s = 0.171

Mean 238U b:s = 0.603
 Number of grains= 16
 Chi-squared = 107.7
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 51.0+/- 6.6

950-19

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	2	2.04E-05	1.76E-02	5.72E-04	1.21E-01	5.16E-02	2.45E-02	3.88E-02	40.58	28.73	2	1.94	0.41	7.01	9.88	340.88	15.00
3	0	1.46E-05	6.22E-03	1.97E-04	7.17E-02	9.62E-02	6.39E-02	3.23E-02	0.00	118.69	1	1.39	0.28	2.48	4.11	220.90	14.63
4	3	2.04E-05	5.29E-03	1.77E-04	9.78E-02	1.91E-01	1.16E-01	4.18E-02	199.78	115.61	2	1.84	0.31	2.11	4.00	212.51	14.79
5	2	2.91E-05	4.40E-03	1.47E-04	3.68E-02	4.94E-01	8.50E-02	3.23E-02	112.99	80.02	2	1.83	0.40	1.75	4.74	234.52	13.75
6	0	1.55E-05	6.24E-03	2.09E-04	2.59E-02	4.57E-02	6.73E-02	3.02E-02	0.00	111.05	1	1.65	0.33	2.49	4.40	219.77	14.29
7	1	1.75E-05	4.24E-03	1.32E-04	3.31E-02	5.95E-01	5.23E-02	2.93E-02	97.83	97.89	1	1.87	0.51	1.69	5.19	218.71	14.85
8	1	9.71E-06	6.59E-03	2.15E-04	2.51E-02	1.06E-01	6.51E-02	1.90E-02	113.09	113.17	1	1.40	0.58	2.63	4.86	223.85	15.14
9	1	1.94E-05	7.14E-03	2.40E-04	2.54E-02	1.48E-02	1.74E-02	1.33E-02	52.40	52.44	1	2.11	0.40	2.85	5.94	287.32	15.00
10	1	1.94E-05	6.35E-03	2.09E-04	2.06E-02	0.00E+00	4.26E-02	6.86E-03	58.88	58.92	1	1.58	0.61	2.53	4.31	212.55	15.94
11	1	1.02E-05	6.10E-03	1.97E-04	5.43E-02	9.67E-02	5.57E-02	3.51E-02	116.19	116.28	1	1.51	0.49	2.43	5.22	307.16	12.33
12	1	9.71E-06	4.50E-03	1.60E-04	3.68E-02	1.04E-01	1.20E-01	3.30E-02	164.96	165.10	1	1.38	0.51	1.79	3.45	195.34	14.39
13	0	2.91E-05	7.68E-03	2.73E-04	7.45E-02	2.40E-01	6.80E-02	5.04E-02	0.00	48.54	1	2.00	0.45	3.06	6.61	296.99	15.28
14	1	1.55E-05	5.53E-03	2.00E-04	2.86E-02	1.10E-01	5.75E-02	1.09E-02	84.44	84.51	1	1.78	0.62	2.20	4.81	219.52	17.60
15	1	2.43E-05	2.72E-03	1.03E-04	6.85E-02	9.96E-01	1.39E-01	4.45E-02	109.78	109.88	1	1.68	0.40	1.08	1.46	171.10	17.72
16	0	1.46E-05	7.34E-03	2.37E-04	1.47E-01	5.56E-02	1.46E-01	2.54E-02	0.00	100.80	1	1.90	0.63	2.92	5.83	314.96	6.55
17	1	1.94E-05	4.88E-03	1.71E-04	2.57E-02	2.80E-01	3.29E-02	2.05E-02	76.55	76.61	1	1.55	0.23	1.94	4.20	213.34	18.00
18	1	1.31E-05	5.26E-03	1.62E-04	1.33E-01	1.28E-01	4.49E-02	3.11E-02	104.87	104.94	1	1.86	0.48	2.10	6.43	284.41	12.44
19	1	1.46E-05	5.20E-03	2.27E-04	2.74E-02	1.77E-01	4.99E-02	2.77E-02	95.70	95.81	1	1.33	0.09	2.07	4.19	219.96	20.66
20	0	1.46E-05	6.65E-03	2.18E-04	5.28E-02	6.74E-02	4.83E-02	8.48E-03	0.00	111.11	1	1.74	0.35	2.65	4.69	216.58	17.34
21	2	1.46E-05	5.68E-04	4.39E-05	9.82E-02	1.09E+00	1.04E+01	2.15E-01	1560.09	1110.16	2	1.87	0.42	0.23	0.00	165.17	6.54
23	1	9.71E-06	4.07E-03	1.40E-04	2.94E-02	1.67E-01	6.15E-02	2.04E-02	182.18	182.33	1	1.48	0.34	1.62	3.43	187.04	17.99
24	1	1.94E-05	6.11E-03	2.26E-04	4.33E-02	1.70E-01	3.73E-02	1.29E-02	61.17	61.22	1	2.20	0.19	2.44	5.31	241.13	16.13
25	1	1.94E-05	8.19E-03	2.57E-04	3.31E-02	1.07E-01	8.89E-02	2.49E-02	45.73	45.76	1	2.07	0.42	3.26	5.22	235.91	13.52

Mean Dpar = 1.74
 Mean Dper = 0.41
 Modified Zeta = 14.589+/- 0.292
 Mean 29Si b:s = 0.057
 Mean 43Ca b:s = 0.057
 Mean 238U b:s = 0.234
 Number of grains= 23
 Chi-squared = 28.6
 Chi-squared prob= 0.1577
Pooled Age (Ma) = 68.6+/- 14.4

950-20

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	11	2.91E-05	5.28E-02	1.45E-03	1.71E-01	8.19E-01	3.60E-01	3.58E-01	52.97	16.07	3	1.63	0.20	20.64	25.79	74.79	18.75
2	4	3.49E-05	3.49E-02	9.47E-04	3.22E-01	4.06E-01	3.90E-01	5.49E-01	24.38	12.22	2	1.73	0.30	13.62	18.17	84.23	15.59
3	20	4.85E-05	1.14E-01	2.93E-03	3.96E-01	2.69E-01	2.70E-01	2.75E-01	26.83	6.06	3	1.77	0.74	44.54	38.54	36.05	14.18
4	6	2.91E-05	9.92E-02	2.56E-03	2.80E-01	4.43E-01	2.74E-01	2.83E-01	15.44	6.32	2	1.97	0.72	38.74	45.83	35.33	16.01
5	12	2.43E-05	1.25E-01	3.30E-03	4.03E-01	6.34E-01	4.68E-01	4.98E-01	29.32	8.52	3	1.61	0.19	48.90	38.49	29.53	13.78
6	9	3.40E-05	2.63E-02	7.05E-04	2.21E-01	5.00E-01	2.81E-01	3.05E-01	74.41	24.93	3	1.83	0.22	10.29	22.25	13.73	16.75
7	19	3.49E-05	6.95E-02	2.18E-03	2.54E-01	5.75E-01	4.09E-01	3.43E-01	57.95	13.46	4	1.77	0.51	27.15	40.77	24.53	14.78
8	9	4.85E-05	1.54E-02	4.40E-04	3.35E-01	7.06E-01	3.49E-01	3.60E-01	89.08	29.85	4	1.65	0.18	6.01	11.37	50.43	14.46
9	7	3.40E-05	3.57E-02	9.70E-04	2.59E-01	3.63E-01	1.87E-01	1.38E-01	42.80	16.24	2	1.73	0.51	13.95	21.87	107.55	16.25
10	7	4.37E-05	5.17E-02	1.53E-03	1.09E-01	2.73E-01	1.36E-01	9.33E-02	23.04	8.75	2	1.88	0.40	20.18	36.08	53.45	19.28
11	10	2.91E-05	1.24E-01	3.25E-03	2.74E-01	7.84E-01	3.36E-01	2.97E-01	20.59	6.55	2	1.87	0.61	48.40	72.07	44.41	15.98
12	2	2.91E-05	2.66E-02	8.45E-04	8.62E-02	2.20E-01	8.83E-02	1.05E-01	19.17	13.58	3	1.66	0.27	10.40	14.09	49.05	20.31
13	4	2.91E-05	2.84E-02	9.33E-04	3.35E-01	2.67E-01	3.15E-01	1.82E-01	35.93	18.02	2	1.55	0.30	11.08	16.21	52.79	14.42

14	3	3.40E-05	4.23E-02	1.43E-03	2.27E-01	4.81E-01	3.23E-01	4.29E-01	15.51	8.98	1	1.63	0.21	16.53	29.46	87.09	16.52
15	2	3.40E-05	3.44E-02	8.99E-04	3.22E-01	3.13E-01	2.91E-01	3.51E-01	12.71	9.00	1	1.32	0.30	13.45	21.28	40.71	13.67
16	11	2.91E-05	4.21E-02	1.13E-03	2.39E-01	1.03E+00	5.84E-01	2.98E-01	66.46	20.16	3	1.72	0.46	16.43	33.61	111.72	13.94
17	11	3.40E-05	7.62E-02	2.00E-03	9.33E-02	1.47E-01	1.60E-01	2.24E-01	31.53	9.56	2	1.96	0.45	29.77	31.21	26.65	18.52
18	9	4.85E-05	5.34E-02	1.34E-03	6.88E-02	1.25E-01	9.60E-02	5.83E-02	25.80	8.64	2	1.70	0.69	20.85	57.70	121.64	16.79
19	13	4.37E-05	3.41E-02	8.78E-04	6.75E-02	1.54E-01	1.16E-01	8.48E-02	64.65	18.05	4	1.78	0.29	13.31	21.44	93.31	16.02
20	5	3.88E-05	5.45E-02	1.33E-03	2.55E-02	4.03E-02	3.46E-02	2.02E-02	17.55	7.87	2	1.50	0.26	21.30	24.40	162.59	13.51
21	3	4.85E-05	1.88E-02	4.71E-04	2.67E-02	2.64E-02	3.61E-02	3.42E-02	24.36	14.09	1	1.88	0.38	7.36	17.09	54.19	13.98
22	10	4.85E-05	3.20E-02	7.30E-04	3.16E-02	1.99E-02	2.77E-02	2.87E-02	47.68	15.15	3	1.87	0.28	12.51	21.08	58.29	11.89
23	5	3.11E-05	4.08E-02	1.02E-03	3.47E-02	6.08E-02	4.86E-02	3.52E-02	29.27	13.12	2	1.61	0.27	15.95	21.95	46.25	13.03
24	4	1.94E-05	8.89E-02	2.42E-03	2.74E-02	6.12E-02	3.33E-02	3.58E-02	17.22	8.63	2	1.84	0.50	34.73	38.06	87.44	14.83
25	1	3.40E-05	2.30E-02	5.60E-04	5.72E-02	1.10E-01	5.82E-02	7.30E-02	9.52	9.53	1	1.34	0.56	8.98	8.87	19.39	11.59

Mean Dpar = 1.71
 Mean Dper = 0.39
 Modified Zeta = 14.882+/- 0.291
 Mean 29Si b:s = 0.187
 Mean 43Ca b:s = 0.187
 Mean 238U b:s = 0.353
 Number of grains= 25
 Chi-squared = 56.2
 Chi-squared prob= 0.0002
Pooled Age (Ma) = 31.9+/- 2.4

950-21

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	10	7.77E-06	2.71E-01	4.84E-03	7.34E-02	1.17E-01	4.66E-02	3.41E-02	33.79	10.72	3	1.40	0.25	110.86	299.38	455.06	8.91
2	8	1.94E-05	7.85E-02	1.36E-03	1.08E-01	1.81E-01	3.35E-01	1.41E-01	37.37	13.25	4	1.38	0.17	32.07	24.64	167.44	8.10
3	28	1.94E-05	2.36E-01	4.58E-03	2.55E-02	4.07E-02	3.50E-02	3.38E-02	43.50	8.31	4	1.23	0.28	96.37	129.17	374.41	10.14
4	50	4.37E-05	2.62E-01	4.98E-03	2.59E-02	1.42E-01	1.65E-02	1.82E-02	31.15	4.49	4	1.59	0.27	106.90	344.88	424.63	9.59
5	9	2.33E-05	3.96E-02	7.91E-04	5.23E-02	6.83E-02	1.39E-01	4.72E-02	69.31	23.19	4	1.41	0.16	16.17	8.44	136.09	10.20
6	19	3.40E-05	6.67E-02	1.14E-03	6.48E-02	4.03E-01	6.74E-02	5.73E-02	59.62	13.77	3	1.38	0.43	27.23	26.51	208.60	8.48
9	22	3.49E-05	7.48E-02	1.44E-03	4.56E-02	7.32E-02	6.36E-02	5.66E-02	59.84	12.87	4	1.54	0.24	30.54	19.43	152.13	10.03
10	12	2.38E-05	1.04E-01	1.98E-03	3.10E-02	3.96E-02	2.15E-02	3.11E-02	34.46	9.99	3	1.39	0.22	42.59	62.24	288.64	9.41
11	5	4.85E-05	4.09E-02	7.53E-04	4.25E-02	1.83E-01	4.65E-02	1.86E-02	17.97	8.05	2	1.67	0.26	16.70	18.94	249.16	9.03
12	12	3.40E-05	7.30E-02	1.39E-03	3.60E-02	1.32E-01	2.89E-02	2.50E-02	34.48	10.00	3	1.54	0.19	29.80	24.40	202.77	9.36
13	23	4.85E-05	1.13E-01	2.12E-03	2.93E-02	1.39E-02	1.68E-02	1.01E-02	29.93	6.29	3	1.50	0.41	46.07	42.09	338.94	8.46
14	7	1.94E-05	6.75E-02	1.26E-03	6.60E-02	8.80E-02	9.88E-02	6.79E-02	38.03	14.41	4	1.67	0.32	27.57	25.77	215.53	9.34
15	29	2.91E-05	1.15E-01	2.37E-03	2.28E-02	2.69E-02	1.29E-02	1.28E-02	61.59	11.57	4	1.60	0.59	46.94	50.59	208.72	9.42
16	25	4.85E-05	1.09E-01	2.17E-03	2.33E-02	1.93E-02	2.32E-02	1.93E-02	33.79	6.83	4	1.67	0.21	44.34	26.52	164.33	9.36
17	52	1.21E-05	7.08E-01	1.46E-02	8.24E-02	2.57E-01	1.60E-01	1.15E-01	43.08	6.10	4	1.50	0.39	289.18	535.70	664.70	9.31
18	20	2.91E-05	1.50E-01	2.82E-03	4.02E-02	5.63E-02	2.85E-02	2.46E-02	32.72	7.37	4	1.51	0.10	61.06	77.01	441.69	9.39
19	26	4.85E-05	1.02E-01	1.87E-03	3.75E-02	1.20E-01	1.97E-02	2.00E-02	37.31	7.39	4	1.41	0.22	41.75	41.49	178.70	8.10
20	24	2.04E-05	1.65E-01	2.97E-03	3.54E-02	4.98E-02	2.89E-02	2.51E-02	50.83	10.47	2	1.43	0.34	67.29	72.82	187.37	8.64
21	73	3.40E-05	2.87E-01	5.03E-03	4.94E-02	1.13E-01	5.30E-02	3.73E-02	53.27	6.39	4	1.36	0.19	117.17	281.07	334.83	8.07
22	13	3.11E-05	7.28E-02	1.27E-03	8.83E-02	1.95E-01	7.92E-02	6.43E-02	40.92	11.40	4	1.38	0.24	29.74	37.31	153.05	9.37
23	5	4.37E-05	2.19E-02	3.90E-04	6.30E-02	1.94E-01	8.94E-02	5.98E-02	37.17	16.65	3	1.66	0.23	8.96	7.74	115.48	9.39
24	17	1.94E-05	8.45E-02	1.60E-03	6.12E-02	1.87E-01	1.14E-01	1.13E-01	73.58	17.96	3	1.66	0.23	34.51	32.39	139.49	9.76
25	17	3.88E-05	2.15E-01	4.04E-03	5.06E-02	1.93E-01	1.75E-02	2.20E-02	14.52	3.54	4	1.58	0.26	87.83	242.00	355.73	9.55

Mean Dpar = 1.50
 Mean Dper = 0.27
 Modified Zeta = 14.283+/- 0.284
 Mean 29Si b:s = 0.050
 Mean 43Ca b:s = 0.050
 Mean 238U b:s = 0.126
 Number of grains= 23
 Chi-squared = 58.1
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 39.2+/- 1.9

950-22

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	10	4.85E-05	3.17E-02	1.08E-03	6.54E-02	1.40E-01	1.06E-01	8.19E-02	47.73	15.21	2	1.97	0.37	12.50	23.21	45.93	22.60
2	2	2.33E-05	3.06E-02	1.10E-03	3.75E-02	1.25E-01	1.02E-01	5.69E-02	20.67	14.64	2	1.67	0.21	12.06	29.09	35.82	22.74
3	3	2.33E-05	3.08E-02	9.15E-04	8.94E-02	1.16E-01	1.26E-01	1.04E-01	30.77	17.80	2	1.43	0.32	12.14	26.09	49.34	18.40
5	3	1.75E-05	5.85E-02	1.97E-03	4.01E-02	7.06E-02	6.76E-02	6.27E-02	21.59	12.49	3	1.68	0.58	23.08	33.83	34.86	19.37
6	5	3.88E-05	3.74E-02	1.05E-03	1.22E-01	2.19E-01	1.51E-01	1.58E-01	25.33	11.36	1	1.92	0.52	14.75	28.15	47.36	15.45
7	12	4.37E-05	6.16E-02	2.00E-03	5.55E-02	1.46E-01	8.50E-02	7.35E-02	32.80	9.55	3	1.68	0.42	24.29	35.50	55.33	17.93
9	11	3.88E-05	4.12E-02	1.34E-03	1.78E-02	1.78E-02	1.59E-02	4.41E-02	50.52	15.35	3	1.51	0.22	16.24	26.38	28.30	18.20
10	4	2.43E-05	1.80E-02	4.91E-04	5.79E-02	2.76E-01	6.86E-02	1.15E-01	67.18	33.66	2	1.94	0.37	7.10	19.78	20.17	12.84
11	5	1.94E-05	3.40E-02	9.39E-04	3.12E-02	2.22E-02	2.49E-02	5.06E-02	55.51	24.90	2	1.71	0.37	13.43	35.65	42.80	13.44
12	3	2.43E-05	2.35E-02	6.30E-04	2.97E-02	2.04E-02	1.58E-02	4.41E-02	38.68	22.37	2	1.96	0.27	9.26	25.37	23.12	11.07
13	3	3.88E-05	2.54E-02	6.50E-04	3.76E-02	2.51E-02	3.35E-02	4.48E-02	22.35	12.93	2	0.33	1.91	10.03	22.84	30.40	10.93
14	6	2.33E-05	4.17E-02	1.10E-03	1.50E-01	1.88E-02	3.80E-02	4.42E-02	45.30	18.56	3	1.74	0.51	16.47	22.56	39.60	10.60
15	6	4.85E-05	3.63E-02	1.14E-03	3.22E-02	5.07E-02	3.58E-02	5.89E-02	25.08	10.28	4	1.58	0.27	14.30	24.34	39.19	13.94
16	7	4.37E-05	2.97E-02	8.39E-04	2.97E-02	3.15E-02	2.68E-02	3.61E-02	39.59	15.02	3	1.63	0.52	11.73	25.01	48.89	12.56
17	4	2.72E-05	2.18E-02	5.60E-04	4.10E-02	3.27E-02	3.39E-02	6.66E-02	49.56	24.83	2	1.81	0.39	8.60	21.70	28.39	12.07
18	1	2.43E-05	2.41E-02	7.42E-04	5.42E-02	2.90E-01	2.81E-02	5.57E-02	12.59	12.60	1	1.77	0.84	9.51	28.53	35.55	14.37
19	3	2.43E-05	2.58E-02	7.38E-04	2.92E-02	1.13E-01	5.58E-02	4.65E-02	35.20	20.36	2	1.44	0.37	10.18	24.14	45.07	16.55
20	5	3.40E-05	2.22E-02	7.41E-04	2.61E-02	2.69E-02	3.16E-02	4.05E-02	48.71	21.87	3	1.68	0.29	8.75	21.29	43.20	17.72
21	2	3.88E-05	2.07E-02	6.86E-04	2.37E-02	4.20E-02	4.49E-02	3.98E-02	18.31	12.96	3	1.72	0.68	8.17	17.56	47.61	19.04
23	4	2.43E-05	1.98E-02	6.18E-04	6.19E-02	4.66E-01	5.56E-02	5.58E-02	61.13	30.65	2	1.57	0.50	7.80	26.70	41.92	16.92
24	9	3.88E-05	2.94E-02	8.99E-04	2.19E-02	1.29E-02	1.37E-02	1.75E-02	57.87	19.40	3	1.52	0.35	11.59	27.39	54.09	16.26
25	2	3.88E-05	2.68E-02	8.46E-04	2.47E-02	4.35E-02	1.71E-02	5.97E-02	14.14	10.01	3	1.51	0.39	10.58	29.09	33.82	16.84

Mean Dpar = 1.63
 Mean Dper = 0.49
 Modified Zeta = 14.739+/- 0.291
 Mean 29Si b:s = 0.049
 Mean 43Ca b:s = 0.049
 Mean 238U b:s = 0.105
 Number of grains= 22
 Chi-squared = 16.4
 Chi-squared prob= 0.7472
Pooled Age (Ma) = 36.0+/- 3.5

950-23

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	2	3.40E-05	9.33E-03	2.17E-04	8.89E-02	1.74E-01	9.64E-02	5.84E-02	43.68	30.91	2	2.00	0.46	3.90	7.90	192.42	13.67
2	0	3.88E-05	8.44E-03	2.06E-04	8.41E-02	3.73E-01	2.19E-02	9.76E-02	0.00	31.65	1	1.44	0.35	3.53	6.45	170.21	14.79
3	3	3.40E-05	9.02E-03	2.21E-04	8.83E-02	1.44E-01	4.94E-02	7.96E-02	67.64	39.11	2	1.87	0.73	3.77	7.82	167.94	14.85
4	2	2.91E-05	8.83E-03	2.00E-04	1.14E-01	2.73E-01	9.03E-02	8.82E-02	53.80	38.08	2	1.57	0.67	3.69	7.45	190.62	13.75
5	1	3.88E-05	1.00E-02	2.29E-04	9.09E-02	1.06E-01	1.02E-01	6.21E-02	17.82	17.83	1	1.81	0.63	4.19	7.10	182.25	13.84
6	3	4.85E-05	7.25E-03	2.08E-04	3.89E-02	3.28E-01	6.62E-02	4.79E-02	59.00	34.12	2	1.83	1.03	3.03	6.62	151.77	17.93
7	1	3.40E-05	9.49E-03	2.26E-04	4.79E-02	5.18E-02	7.40E-02	3.69E-02	21.51	21.52	1	1.54	0.26	3.97	5.81	165.17	16.61
8	1	2.91E-05	6.64E-03	1.66E-04	6.64E-02	7.76E-01	7.63E-02	5.08E-02	35.82	35.84	1	2.16	0.73	2.78	7.25	198.10	17.05
9	2	1.75E-05	1.23E-02	2.87E-04	5.95E-02	4.04E-01	6.12E-02	3.18E-02	64.33	45.53	2	1.51	0.30	5.15	11.29	330.81	17.34
10	3	3.88E-05	8.30E-03	2.00E-04	4.96E-02	2.15E-01	5.49E-02	4.35E-02	64.37	37.22	2	1.70	0.37	3.47	7.96	162.00	16.12
11	1	2.91E-05	9.34E-03	2.19E-04	2.64E-02	1.53E-01	5.28E-02	5.06E-02	25.51	25.52	1	1.97	0.40	3.91	7.02	173.41	15.16
12	1	4.85E-05	4.49E-03	1.21E-04	7.09E-02	5.11E-01	6.60E-02	6.01E-02	31.79	31.81	1	2.19	0.72	1.88	6.50	173.13	16.07
13	0	2.91E-05	1.37E-02	3.27E-04	2.68E-02	7.13E-02	5.61E-02	4.02E-02	0.00	25.99	1	1.31	0.51	5.74	8.89	202.83	14.26
14	2	4.85E-05	3.18E-03	7.66E-05	3.07E-02	8.73E-01	4.10E-02	2.82E-02	89.50	63.35	2	1.86	0.30	1.33	7.40	172.11	12.42
15	0	2.91E-05	7.83E-03	1.77E-04	4.32E-02	2.00E-01	9.25E-02	3.99E-02	0.00	45.39	1	1.54	0.24	3.27	6.34	156.14	13.21
16	2	2.91E-05	5.64E-03	1.28E-04	6.03E-02	6.66E-01	9.25E-02	7.22E-02	84.07	59.50	2	1.40	0.49	2.36	8.19	178.48	12.63
17	4	4.37E-05	8.43E-03	1.85E-04	5.83E-02	1.27E-01	1.14E-01	5.22E-02	37.64	26.64	2	1.40	0.19	3.53	6.04	165.14	13.51
18	3	3.88E-05	8.27E-03	1.82E-04	9.48E-02	9.53E-02	1.14E-01	7.97E-02	64.61	37.35	2	2.06	0.60	3.46	6.74	161.63	11.63
19	1	4.85E-05	8.17E-03	1.80E-04	6.72E-02	4.01E-01	7.88E-02	5.86E-02	17.50	17.51	1	1.91	0.52	3.42	8.34	208.28	13.16
20	2	4.85E-05	9.48E-03	2.06E-04	4.06E-02	6.89E-02	7.55E-02	3.84E-02	30.12	21.32	2	2.11	0.73	3.97	6.92	173.76	13.02

21	2	3.88E-05	7.95E-03	1.83E-04	7.16E-02	6.24E-02	8.35E-02	5.86E-02	44.84	31.74	2	1.80	0.29	3.33	6.35	160.91	12.79
22	0	2.43E-05	8.36E-03	1.79E-04	5.85E-02	2.06E-01	1.47E-01	6.93E-02	0.00	50.97	1	1.54	0.45	3.50	5.31	139.20	13.77
23	2	4.85E-05	7.66E-03	1.70E-04	5.89E-02	3.79E-01	7.96E-02	4.86E-02	37.27	26.38	2	1.72	0.57	3.20	7.01	161.72	13.34
24	1	3.88E-05	1.23E-02	2.91E-04	5.42E-02	6.53E-02	6.82E-02	5.48E-02	14.58	14.59	2	2.13	0.80	5.13	6.36	175.28	14.62
25	2	4.85E-05	8.06E-03	1.92E-04	1.24E-01	2.98E-01	1.15E-01	6.80E-02	35.43	25.08	2	2.04	0.58	3.37	6.65	150.49	14.91

Mean Dpar = 1.78
 Mean Dper = 0.52
 Modified Zeta = 13.898+/- 0.268
 Mean 29Si b:s = 0.065
 Mean 43Ca b:s = 0.065
 Mean 238U b:s = 0.281
 Number of grains= 25
 Chi-squared = 11.2
 Chi-squared prob= 0.9875

Pooled Age (Ma) = 34.9+/- 5.6

950-24

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	2	9.71E-06	1.51E-02	5.19E-04	1.64E-01	3.44E-01	9.64E-02	7.88E-02	98.15	69.51	2	1.33	0.40	6.06	16.33	367.54	15.27
3	0	7.28E-06	1.38E-02	4.56E-04	8.48E-02	2.50E-01	3.79E-02	2.58E-02	0.00	106.69	1	1.32	0.18	5.52	11.86	365.95	15.51
4	0	5.82E-06	1.95E-02	6.39E-04	5.76E-02	3.36E-01	1.53E-01	4.66E-02	0.00	94.19	1	1.43	0.26	7.83	46.39	557.23	11.42
5	1	8.74E-06	2.26E-02	8.71E-04	4.84E-02	6.13E-02	1.30E-01	5.69E-02	36.55	36.58	1	1.94	0.14	9.08	18.08	449.44	15.97
6	0	7.28E-06	1.31E-02	3.93E-04	2.28E-01	6.15E-01	1.87E+00	1.55E-01	0.00	112.22	2	1.49	0.47	5.24	3.45	489.01	9.52
7	0	1.94E-05	9.99E-03	3.64E-04	5.86E-02	9.84E-01	1.27E+00	4.82E-02	0.00	55.56	2	1.08	0.22	4.01	254.68	396.19	16.61
8	0	1.94E-05	1.37E-02	5.18E-04	3.85E-02	1.26E-01	6.25E-02	2.58E-02	0.00	40.48	1	1.40	0.40	5.51	9.92	231.60	18.44
9	1	2.43E-05	3.82E-02	1.46E-03	1.12E-01	3.75E-01	1.44E-01	1.07E-01	7.81	7.82	1	1.33	0.09	15.32	34.69	571.00	16.60
11	1	1.02E-05	1.03E-02	3.92E-04	6.42E-02	5.24E-01	1.20E-01	5.23E-02	68.39	68.46	1	1.33	0.39	4.15	8.99	309.28	19.44
12	0	1.31E-05	1.29E-02	5.15E-04	6.71E-02	4.64E-01	3.64E-02	5.01E-02	0.00	63.47	1	1.26	0.29	5.19	16.35	438.90	18.05
13	0	9.71E-06	1.91E-02	7.99E-04	6.20E-02	1.79E-01	1.08E-01	9.54E-02	0.00	58.11	1	2.04	0.52	7.66	12.76	348.46	18.92
15	4	3.11E-05	2.98E-02	1.10E-03	7.03E-02	3.30E-01	8.21E-02	7.87E-02	31.24	15.68	2	1.68	0.59	11.95	37.11	502.62	17.79
16	0	2.43E-05	1.51E-02	6.39E-04	4.88E-02	1.16E-01	2.36E-01	3.59E-02	0.00	29.61	1	1.99	0.34	6.04	8.63	310.44	21.00
18	0	1.46E-05	3.92E-03	1.87E-04	3.87E-02	1.89E+00	5.67E-02	2.56E-02	0.00	184.91	1	1.26	0.34	1.57	9.08	289.24	20.30
19	0	1.46E-05	6.89E-04	7.31E-05	2.73E-01	3.24E-02	2.25E-01	5.22E-02	0.00	934.18	1	1.70	0.11	0.28	35.90	52.80	7.34
22	0	7.77E-06	3.45E-02	1.23E-03	3.04E-02	1.76E-02	1.53E-02	1.89E-02	0.00	40.34	1	1.67	0.66	13.83	32.31	566.73	16.92
23	1	7.28E-06	8.17E-03	2.85E-04	5.72E-02	9.61E-02	1.24E-01	4.80E-02	120.80	120.89	1	1.23	0.05	3.27	7.08	238.33	15.84
25	1	7.28E-06	2.97E-02	1.10E-03	5.47E-02	1.07E-01	4.46E-02	4.21E-02	33.39	33.42	1	1.65	0.56	11.93	19.51	360.78	16.08

Mean Dpar = 1.51
 Mean Dper = 0.33
 Modified Zeta = 14.497+/- 0.293
 Mean 29Si b:s = 0.087
 Mean 43Ca b:s = 0.087
 Mean 238U b:s = 0.380
 Number of grains= 18
 Chi-squared = 13.9
 Chi-squared prob= 0.6715

Pooled Age (Ma) = 18.1+/- 5.5

950-25

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	3	1.21E-05	3.30E-02	1.16E-03	5.59E-02	1.02E-01	3.22E-02	3.49E-02	49.99	28.93	2	1.88	0.73	14.33	28.57	308.42	16.35
2	1	7.28E-06	5.11E-02	2.13E-03	1.18E-01	3.00E-01	1.12E-01	1.20E-01	17.96	17.98	1	1.67	0.42	22.21	53.07	400.51	17.14
3	1	5.82E-06	2.82E-02	1.04E-03	1.18E-01	3.47E-01	1.15E-01	1.24E-01	40.59	40.62	1	1.73	0.81	12.26	33.54	326.78	18.57
4	1	5.82E-06	1.87E-02	6.39E-04	9.76E-02	1.34E+00	1.07E-01	9.10E-02	61.03	61.08	1	2.00	0.71	8.14	44.11	524.82	15.59
5	1	7.28E-06	4.60E-02	1.55E-03	2.52E-01	5.89E-01	3.52E-01	2.89E-01	19.96	19.97	1	1.91	0.49	19.98	65.35	220.12	9.96
6	1	7.77E-06	3.98E-02	1.32E-03	1.05E-01	1.18E-01	9.13E-02	6.32E-02	21.60	21.62	1	2.44	0.48	17.30	47.95	354.75	17.68

7	0	5.82E-06	7.44E-03	2.93E-04	1.20E-01	4.36E-01	1.19E-01	1.37E-01	0.00	223.65	1	1.85	0.33	3.23	10.20	241.76	19.23
8	3	7.77E-06	2.96E-02	1.02E-03	1.20E-01	1.49E-01	1.17E-01	1.11E-01	86.69	50.17	3	2.10	0.45	12.87	22.98	199.29	16.68
9	4	1.21E-05	5.17E-02	1.60E-03	1.31E-01	1.51E-01	7.77E-02	9.03E-02	42.48	21.30	2	2.33	0.78	22.49	39.41	598.87	15.50
11	1	4.37E-06	3.34E-02	1.16E-03	9.45E-02	3.92E-01	4.30E-02	5.31E-02	45.69	45.72	1	2.41	0.66	14.52	49.28	444.77	16.19
12	1	8.74E-06	3.90E-02	1.38E-03	9.42E-02	3.86E-01	6.04E-02	6.11E-02	19.61	19.63	1	1.88	0.73	16.95	50.12	367.36	17.69
13	2	8.74E-06	2.21E-02	8.55E-04	1.38E-01	2.36E+00	1.76E-01	9.90E-02	68.77	48.72	2	1.75	0.26	9.63	40.35	348.86	12.01
14	2	1.21E-05	3.26E-02	1.10E-03	5.40E-02	2.05E-01	4.35E-02	5.64E-02	33.71	23.87	1	1.79	0.70	14.18	46.33	367.15	14.99
15	1	7.77E-06	2.15E-02	7.95E-04	1.17E-01	2.40E-01	5.70E-02	5.06E-02	39.88	39.92	1	1.78	0.29	9.36	24.84	386.30	16.08
16	1	7.77E-06	2.74E-02	1.02E-03	8.68E-02	8.32E-02	3.26E-02	3.64E-02	31.39	31.42	1	2.21	0.39	11.90	31.17	381.99	18.67
17	1	5.82E-06	6.48E-02	2.12E-03	1.07E-01	9.11E-02	5.82E-02	5.26E-02	17.71	17.72	1	2.28	0.45	28.16	61.25	445.70	16.13
18	1	7.77E-06	1.10E-02	4.74E-04	6.34E-02	3.83E-01	6.53E-02	4.64E-02	78.13	78.22	1	2.30	0.91	4.76	12.69	259.03	17.76
20	0	5.82E-06	3.09E-02	1.12E-03	9.08E-02	5.79E-01	5.82E-02	4.13E-02	0.00	55.25	1	1.79	0.65	13.44	56.36	468.39	15.72
21	1	1.21E-05	3.19E-03	1.18E-04	9.24E-02	4.26E-01	5.05E-02	5.18E-02	170.80	170.95	1	1.58	0.68	1.38	2.65	194.92	15.67
22	0	7.77E-06	4.05E-03	1.58E-04	1.12E-01	1.10E+00	9.20E-02	9.58E-02	0.00	303.94	1	2.21	0.77	1.76	6.72	145.81	16.69
23	2	1.46E-05	1.69E-02	5.89E-04	1.01E-01	7.06E-01	1.66E-01	1.23E-01	54.00	38.25	1	1.53	0.28	7.37	20.68	407.06	16.37
24	1	7.77E-06	2.41E-02	9.44E-04	1.07E-01	2.04E-01	7.32E-02	5.08E-02	35.72	35.75	1	1.68	0.28	10.46	41.59	398.56	21.36
25	1	7.77E-06	3.76E-02	1.24E-03	1.07E-01	6.59E-01	5.22E-02	4.56E-02	22.88	22.90	1	1.59	0.43	16.34	73.64	329.96	14.68

Mean Dpar = 1.94
 Mean Dper = 0.55
 Modified Zeta = 13.378+/- 0.267
 Mean 29Si b:s = 0.108
 Mean 43Ca b:s = 0.108
 Mean 238U b:s = 0.493
 Number of grains= 23
 Chi-squared = 9.4
 Chi-squared prob= 0.9909
Pooled Age (Ma) = 36.5+/- 6.7

950-26

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	9.71E-06	5.84E-04	4.03E-05	2.60E-01	6.10E-01	4.26E-02	4.28E-01	1112.50	1115.37	1	1.62	0.45	0.25	0.28	9.78	5.85
5	0	7.77E-06	9.12E-03	1.76E-04	2.03E-01	3.18E-01	1.56E+00	1.41E+00	0.00	142.50	1	1.59	0.32	3.88	0.03	0.06	8.73
7	0	7.28E-06	3.53E-03	7.50E-05	7.16E-02	1.82E-01	1.09E+00	3.06E-01	0.00	378.33	1	1.14	0.47	1.50	0.05	3.79	10.27
8	4	1.46E-05	2.19E-02	4.97E-04	1.59E-01	5.87E-01	4.00E-01	1.03E-01	85.74	42.95	1	1.25	0.02	9.32	63.79	771.94	5.33
9	4	9.71E-06	2.44E-01	4.90E-03	4.77E-01	1.06E-01	1.08E-01	2.86E-01	11.62	5.82	3	1.38	0.24	103.68	151.75	921.16	7.18
10	2	7.77E-06	5.61E-02	1.06E-03	2.49E-01	4.76E-01	1.73E-01	2.64E-01	31.53	22.31	1	1.90	0.32	23.85	72.32	514.76	8.70

Mean Dpar = 1.48
 Mean Dper = 0.30
 Modified Zeta = 13.760+/- 0.275
 Mean 29Si b:s = 0.237
 Mean 43Ca b:s = 0.237
 Mean 238U b:s = 0.380
 Number of grains= 6
 Chi-squared = 24.4
 Chi-squared prob= 0.0002
Pooled Age (Ma) = 23.4+/- 7.1

950-27

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	7.77E-06	1.93E-02	6.26E-04	6.95E-02	1.25E-01	8.01E-02	6.04E-02	44.99	45.02	1	1.30	0.38	8.30	24.25	395.59	17.61
2	1	9.71E-06	2.94E-02	9.07E-04	8.18E-02	1.98E-01	8.48E-02	7.28E-02	23.62	23.63	1	1.92	0.62	12.66	25.07	169.12	14.14
4	3	1.55E-05	3.28E-02	1.02E-03	4.07E-02	2.14E-02	1.93E-02	1.63E-02	39.67	22.95	2	2.23	0.60	14.12	32.73	252.08	14.41
5	2	9.71E-06	1.32E-02	4.45E-04	5.75E-02	7.02E-02	1.69E-01	3.45E-02	104.81	74.23	1	1.57	0.45	5.67	15.57	191.38	17.17
6	2	1.94E-05	2.37E-02	8.40E-04	3.07E-02	1.18E-01	2.92E-02	2.52E-02	29.27	20.73	2	2.40	0.83	10.21	33.00	433.64	18.35
7	1	1.16E-05	1.57E-02	5.07E-04	2.66E-02	5.69E-01	1.35E-02	2.73E-02	36.88	36.91	2	1.86	0.26	6.75	28.67	276.67	15.34

8	2	1.75E-05	1.72E-02	5.60E-04	3.09E-02	4.84E-02	3.29E-02	1.57E-02	44.81	31.73	2	2.00	0.64	7.40	15.01	251.00	16.26
9	2	7.77E-06	3.44E-02	1.01E-03	7.60E-02	2.16E-01	6.67E-01	1.07E-01	50.37	35.66	2	1.60	0.77	14.81	7.80	219.54	15.92
11	0	1.31E-05	1.62E-02	4.94E-04	1.07E-01	4.73E-01	1.22E-01	1.05E-01	0.00	47.32	1	1.80	0.59	6.98	40.24	517.78	15.20
12	2	8.74E-06	2.34E-02	7.74E-04	7.61E-02	1.11E-01	1.31E-01	7.21E-02	65.74	46.55	1	1.50	0.29	10.08	29.71	345.32	17.06
13	1	1.21E-05	1.90E-02	6.52E-04	5.94E-02	5.26E-02	7.19E-01	4.97E-02	29.18	29.20	1	1.61	0.49	8.20	9.29	169.31	16.21
14	5	2.33E-05	3.48E-02	1.03E-03	3.03E-02	9.80E-02	2.17E-02	1.53E-02	41.55	18.64	3	1.64	0.25	14.98	48.97	171.56	14.45
15	2	9.71E-06	2.01E-02	6.42E-04	7.78E-02	2.85E-01	5.57E-02	2.83E-02	68.76	48.69	1	1.30	0.30	8.67	21.88	313.65	14.25
16	1	1.55E-05	1.97E-02	6.41E-04	6.29E-02	1.07E-01	8.62E-02	7.15E-02	22.08	22.10	1	1.79	0.48	8.46	22.52	383.70	15.96
17	0	7.77E-06	1.85E-02	5.41E-04	1.10E-01	3.84E-02	4.01E-02	3.20E-02	0.00	69.87	1	1.70	0.63	7.95	15.89	152.12	13.13
18	2	8.74E-06	8.61E-02	2.40E-03	5.46E-02	1.96E-01	1.39E-01	6.30E-02	17.94	12.70	2	1.83	0.78	37.06	32.81	161.69	14.06
19	2	3.11E-05	8.85E-03	2.81E-04	4.67E-02	2.83E-01	9.43E-02	5.55E-02	48.94	34.66	2	1.72	0.73	3.81	11.25	251.59	14.97
20	2	1.75E-05	1.71E-02	5.15E-04	4.12E-02	4.77E-02	3.89E-02	3.97E-02	45.04	31.89	1	1.71	0.80	7.37	18.63	395.68	14.71
21	0	8.74E-06	2.01E-02	6.07E-04	8.15E-02	2.72E-01	5.34E-02	4.47E-02	0.00	57.14	1	1.45	0.29	8.66	24.22	316.91	15.20
22	2	1.21E-05	1.61E-02	4.97E-04	6.46E-02	1.78E-01	5.72E-02	3.99E-02	68.75	48.68	1	1.41	0.42	6.94	19.40	384.38	15.45
23	5	1.75E-05	2.60E-02	8.13E-04	4.52E-02	6.87E-02	5.68E-02	4.74E-02	74.03	33.22	2	1.67	0.52	11.18	20.43	186.28	15.31
24	4	1.94E-05	3.57E-02	1.14E-03	6.42E-02	1.82E-01	5.62E-02	5.50E-02	38.86	19.48	1	2.08	0.57	15.38	73.57	178.02	18.07
25	1	1.21E-05	9.04E-03	2.63E-04	7.62E-02	1.70E-01	8.79E-02	4.53E-02	61.29	61.32	1	1.45	0.84	3.89	9.90	179.65	14.03

Mean Dpar = 1.72
 Mean Dper = 0.54
 Modified Zeta = 13.510+/- 0.267
 Mean 29Si b:s = 0.061
 Mean 43Ca b:s = 0.061
 Mean 238U b:s = 0.171
 Number of grains= 23
 Chi-squared = 8.3
 Chi-squared prob= 0.9962
Pooled Age (Ma) = 39.5+/- 6.1

950-28

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	4.85E-05	5.72E-03	1.72E-04	1.11E-01	2.89E-01	8.81E-02	7.03E-02	26.69	26.71	1	1.34	0.23	2.24	5.72	271.71	17.20
2	2	4.85E-05	1.45E-03	5.12E-05	7.98E-02	1.79E+00	1.41E-01	7.69E-02	207.60	147.03	2	1.81	0.51	0.57	3.66	273.15	19.55
3	0	3.88E-05	1.11E-02	3.39E-04	1.09E-01	1.63E-01	1.22E-01	1.21E-01	0.00	25.72	1	2.01	0.61	4.35	8.63	308.96	15.81
5	1	4.85E-05	8.59E-03	2.32E-04	4.25E-02	1.67E-01	1.04E-01	4.18E-02	17.79	17.80	2	1.60	0.47	3.36	7.41	312.88	16.64
6	0	2.91E-05	6.34E-03	1.82E-04	5.96E-02	6.77E-02	9.78E-02	5.38E-02	0.00	59.82	1	1.12	0.11	2.48	4.23	329.53	15.94
7	0	4.37E-05	1.02E-02	2.92E-04	2.43E-02	8.44E-02	5.31E-02	3.23E-02	0.00	24.94	1	1.65	0.15	3.99	8.21	279.32	16.51
8	3	4.85E-05	3.12E-03	8.86E-05	7.55E-02	7.63E-01	1.12E-01	6.74E-02	145.41	84.10	2	1.67	0.33	1.22	3.57	279.53	16.96
9	2	2.04E-05	1.31E-02	3.44E-04	8.46E-02	3.68E-01	7.86E-02	5.78E-02	55.41	39.22	2	2.18	0.61	5.12	11.92	516.39	16.35
10	0	3.88E-05	4.59E-03	1.24E-04	7.08E-02	6.03E-02	5.04E-02	2.43E-02	0.00	61.87	1	1.34	0.12	1.80	3.73	248.68	13.83
11	1	4.85E-05	6.81E-03	1.67E-04	8.79E-02	1.84E-01	1.12E-01	6.02E-02	22.43	22.44	1	1.79	0.40	2.67	5.73	225.37	14.59
12	1	2.38E-05	6.97E-03	2.22E-04	3.48E-02	2.07E-02	5.35E-02	1.65E-02	44.66	44.69	1	1.66	0.28	2.73	4.84	248.48	16.87
13	1	3.40E-05	8.68E-03	2.34E-04	1.34E-01	1.66E-01	5.59E-02	6.62E-02	25.15	25.17	1	2.20	1.03	3.39	5.76	253.27	15.71
14	0	3.88E-05	4.95E-03	1.42E-04	2.42E-02	5.17E-02	7.27E-02	3.52E-02	0.00	57.51	1	1.19	0.53	1.94	3.06	249.13	16.51
15	2	4.85E-05	3.27E-03	8.85E-05	1.07E-01	6.52E-01	4.69E-02	1.09E-01	93.01	65.84	1	1.58	0.42	1.28	4.90	211.85	15.93
16	1	2.38E-05	1.02E-02	2.78E-04	6.25E-02	2.70E-01	5.04E-02	8.81E-02	30.66	30.68	2	1.48	0.34	3.98	8.67	359.84	17.15
17	2	4.85E-05	6.87E-03	2.08E-04	5.20E-02	2.06E-01	7.15E-02	5.14E-02	44.43	31.46	1	1.19	0.23	2.69	5.65	216.39	17.90
18	2	3.40E-05	3.83E-03	1.11E-04	5.13E-02	2.97E-01	9.45E-02	5.82E-02	113.31	80.22	2	1.80	0.68	1.50	3.98	197.56	18.71
19	0	4.85E-05	5.38E-03	1.53E-04	6.86E-02	1.23E-01	1.52E-01	5.92E-02	0.00	42.42	1	2.13	0.65	2.10	3.84	199.79	17.60
20	1	4.85E-05	3.58E-03	1.02E-04	5.87E-02	7.40E-01	8.91E-02	3.44E-02	42.67	42.70	1	2.08	0.62	1.40	5.14	241.37	16.82
21	2	3.88E-05	6.49E-03	1.84E-04	4.11E-02	1.02E-01	9.13E-02	4.51E-02	58.70	41.56	1	1.67	0.31	2.54	4.29	243.20	18.01
22	1	3.11E-05	4.22E-04	2.92E-05	1.27E-01	1.71E+01	9.29E-02	1.10E-01	542.77	544.17	1	1.48	0.23	0.17	16.37	455.56	14.00
23	2	3.93E-05	7.38E-03	1.88E-04	2.80E-02	4.13E-02	7.31E-02	3.75E-02	51.01	36.11	2	1.74	0.45	2.89	5.52	259.30	14.13
24	0	4.85E-05	3.97E-03	1.06E-04	1.19E-01	8.55E-01	1.56E-01	6.31E-02	0.00	57.36	1	1.55	0.23	1.55	4.37	280.79	13.27
25	3	4.37E-05	4.65E-03	1.20E-04	4.65E-02	4.08E-02	9.18E-02	2.05E-02	108.84	62.94	2	1.97	0.54	1.82	3.89	240.95	13.13

Mean Dpar = 1.68
 Mean Dper = 0.42
 Modified Zeta = 14.859+/- 0.291
 Mean 29Si b:s = 0.071
 Mean 43Ca b:s = 0.071
 Mean 238U b:s = 1.023

Number of grains= 24
Chi-squared = 29.4
Chi-squared prob= 0.1689
Pooled Age (Ma) = 36.7+/- 7.0

950-29

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	3	1.94E-05	1.32E-02	5.72E-04	1.27E-01	1.76E-01	1.60E-01	1.34E-01	76.76	44.47	2	1.57	0.42	5.82	17.01	917.51	17.36
2	2	3.40E-05	9.12E-03	3.31E-04	3.45E-02	6.47E-02	5.70E-02	1.90E-02	42.44	30.06	2	1.96	0.44	4.02	10.25	735.30	14.20
3	1	2.43E-05	1.40E-02	4.67E-04	2.47E-01	2.17E-01	2.56E-01	1.42E-01	19.40	19.41	1	1.38	0.62	6.16	19.14	994.62	10.99
4	1	1.94E-05	1.30E-02	4.98E-04	6.79E-02	1.38E-01	1.55E-01	6.76E-02	26.10	26.12	1	2.11	0.10	5.73	13.55	752.80	15.08
5	1	1.94E-05	1.13E-02	3.82E-04	2.43E-02	1.94E-02	2.60E-02	8.01E-03	30.03	30.06	1	1.64	0.37	4.97	15.80	846.86	12.58
6	1	3.40E-05	1.21E-02	4.22E-04	2.20E-02	1.97E-02	2.97E-02	4.97E-03	16.08	16.10	1	2.18	0.73	5.31	15.85	874.98	13.76
7	1	1.94E-05	9.84E-03	3.47E-04	3.28E-02	5.65E-02	5.34E-02	2.46E-02	34.44	34.47	1	1.51	0.20	4.34	13.38	775.03	14.50
8	1	3.11E-05	1.40E-02	5.01E-04	2.62E-02	5.03E-02	3.46E-02	8.98E-03	15.16	15.17	2	1.83	0.65	6.17	23.07	843.01	13.65
9	0	1.16E-05	8.83E-03	3.64E-04	2.98E-02	1.70E-02	3.77E-02	1.47E-01	0.00	94.85	0	-0.22	-0.09	3.89	11.06	648.44	16.84
10	1	9.71E-06	9.25E-03	3.81E-04	1.10E-01	6.99E-01	2.28E-01	1.43E-01	73.04	73.12	1	1.73	0.53	4.08	14.91	724.89	17.58
11	1	2.91E-05	1.65E-02	6.22E-04	6.66E-02	1.06E-01	8.44E-02	6.45E-02	13.74	13.75	1	1.80	0.40	7.25	18.67	861.14	18.24
12	1	1.16E-05	9.06E-03	3.30E-04	8.99E-02	4.86E-01	1.00E-01	6.97E-02	62.22	62.28	1	1.85	0.26	3.99	13.26	801.03	15.36
13	1	7.28E-06	1.20E-02	4.17E-04	1.18E-01	5.83E-01	1.53E-01	1.13E-01	74.81	74.87	1	1.81	0.85	5.31	22.89	938.67	15.55
14	2	3.40E-05	1.03E-02	3.84E-04	1.22E-01	1.43E-01	1.27E-01	1.31E-01	37.56	26.61	1	1.37	0.47	4.54	15.51	844.45	15.21
15	0	9.71E-06	8.46E-03	3.17E-04	1.76E-01	7.68E-01	2.18E-01	1.59E-01	0.00	118.30	1	1.61	0.44	3.73	25.15	984.52	16.05
16	2	2.04E-05	8.77E-03	2.84E-04	1.16E-01	1.14E-01	1.04E-01	9.42E-02	73.35	51.94	1	1.88	0.61	3.87	10.45	673.89	11.65
17	1	1.94E-05	1.22E-02	4.53E-04	2.40E-01	1.39E+00	3.51E-01	2.08E-01	27.85	27.88	1	1.31	0.44	5.36	28.72	1037.00	9.94
18	2	2.38E-05	7.88E-03	2.52E-04	5.03E-02	8.97E-02	6.05E-02	2.16E-02	70.00	49.57	2	1.74	0.29	3.47	11.24	703.29	12.27
19	3	1.94E-05	1.75E-02	5.56E-04	3.30E-02	4.35E-02	5.83E-02	2.47E-02	57.91	33.51	2	1.77	0.23	7.72	23.87	964.48	12.46
20	2	2.91E-05	9.75E-03	3.15E-04	3.20E-02	3.21E-02	2.69E-02	8.98E-03	46.28	32.77	2	1.57	0.37	4.30	11.02	699.36	11.39
21	2	1.94E-05	9.09E-03	3.32E-04	6.01E-02	1.38E-01	9.94E-02	5.86E-02	74.33	52.65	1	1.72	0.53	4.00	9.61	663.19	12.65
22	1	2.43E-05	8.38E-03	3.24E-04	1.58E-01	2.69E-01	2.48E-01	1.51E-01	32.34	32.37	2	1.54	0.44	3.69	14.88	743.30	5.33
23	2	2.43E-05	9.00E-03	3.44E-04	6.73E-02	1.17E-01	8.41E-02	6.33E-02	60.12	42.59	1	2.11	0.49	3.97	8.06	690.81	17.05
24	1	1.94E-05	1.37E-02	5.27E-04	5.23E-02	1.85E-01	8.03E-02	3.88E-02	24.68	24.70	1	1.73	0.15	6.05	15.48	732.78	17.13
25	2	1.75E-05	1.53E-02	5.98E-04	9.17E-02	6.99E-02	5.99E-02	4.36E-02	49.26	34.90	2	1.67	0.58	6.73	20.59	873.46	15.21

Mean Dpar = 1.65
 Mean Dper = 0.42
 Modified Zeta = 13.194+/- 0.266
 Mean 29Si b:s = 0.088
 Mean 43Ca b:s = 0.088
 Mean 238U b:s = 0.240
 Number of grains= 25
 Chi-squared = 10.0
 Chi-squared prob= 0.9947
Pooled Age (Ma) = 37.9+/- 6.5

950-30

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	0	2.43E-05	1.88E-02	6.56E-04	2.50E-01	6.51E-01	4.23E-01	3.53E-01	0.00	24.04	1	1.57	0.72	7.45	13.94	426.85	17.87
3	1	4.85E-05	3.80E-03	1.53E-04	3.08E-01	2.22E+00	1.14E+00	2.95E-01	39.67	39.71	1	1.07	0.14	1.51	8.85	534.19	16.55
5	1	1.75E-05	3.84E-02	1.19E-03	1.45E-01	2.69E-01	1.54E-01	2.56E-01	10.94	10.95	1	1.76	0.51	15.19	36.27	533.17	18.67
8	2	1.46E-05	1.40E-02	4.89E-04	1.27E-01	5.80E-01	9.29E-01	4.97E-01	71.61	50.72	2	1.51	0.08	5.55	6.02	312.60	20.15
9	1	1.94E-05	3.19E-02	1.06E-03	1.08E-01	2.84E-01	1.28E-01	1.15E-01	11.85	11.85	1	1.63	1.04	12.63	27.89	583.91	17.93
10	2	1.94E-05	2.28E-02	9.78E-04	3.67E-02	2.88E-01	4.52E-02	2.27E-02	33.11	23.47	2	1.70	0.13	9.02	30.15	771.28	13.19
12	2	2.43E-05	4.31E-02	1.17E-03	4.44E-02	3.90E-02	3.11E-02	2.02E-02	14.04	9.94	2	1.61	0.26	17.05	34.74	664.88	12.98
13	2	1.46E-05	5.04E-01	1.51E-02	4.12E-02	1.19E-02	2.89E-02	7.86E-03	2.00	1.42	1	1.67	0.38	199.45	270.15	1370.70	11.88
14	3	4.37E-05	2.60E-02	7.91E-04	4.33E-02	9.60E-02	2.20E-02	1.70E-02	19.35	11.20	3	1.66	0.38	10.30	15.03	483.00	13.09
17	4	1.94E-05	4.34E-02	1.12E-03	6.19E-02	6.38E-02	3.25E-02	1.96E-02	34.80	17.44	2	1.73	0.45	17.17	40.25	640.01	12.21
18	3	1.94E-05	1.05E-01	3.32E-03	2.79E-02	3.51E-02	3.01E-02	1.92E-02	10.85	6.28	2	1.48	0.40	41.36	117.08	993.49	16.78
19	2	1.46E-05	3.96E-02	1.27E-03	5.17E-02	6.80E-02	1.89E-02	3.94E-02	25.43	18.00	1	0.21	1.73	15.67	36.38	574.52	14.23
20	7	3.88E-05	4.36E-02	1.48E-03	3.27E-02	4.73E-02	3.46E-02	2.90E-02	30.27	11.50	2	1.70	0.54	17.27	36.74	670.78	18.63
21	8	3.88E-05	3.58E-02	1.19E-03	1.52E-01	2.78E-01	1.23E-01	1.06E-01	42.11	14.98	4	1.43	0.22	14.18	22.52	589.81	17.89
22	1	3.11E-05	3.28E-02	1.20E-03	1.03E-01	4.07E-01	1.73E-01	1.05E-01	7.21	7.21	1	1.76	0.35	12.97	24.81	619.84	18.57
23	3	1.75E-05	3.79E-02	1.09E-03	3.90E-01	6.61E-01	4.59E-01	4.26E-01	33.16	19.18	3	1.57	0.24	15.01	44.46	688.20	13.36

24	3	1.75E-05	4.50E-02	1.71E-03	6.30E-02	1.63E-01	5.70E-02	3.60E-02	28.00	16.21	2	1.40	0.21	17.79	46.60	689.40	17.35
25	1	1.55E-05	2.35E-02	8.12E-04	4.59E-02	6.27E-02	5.41E+00	8.56E-02	20.12	20.13	2	1.77	0.25	9.29	10.66	370.41	17.62

Mean Dpar = 1.51
 Mean Dper = 0.44
 Modified Zeta = 14.693+/- 0.292
 Mean 29Si b:s = 0.113
 Mean 43Ca b:s = 0.113
 Mean 238U b:s = 0.346
 Number of grains= 18
 Chi-squared = 32.9
 Chi-squared prob= 0.0116

Pooled Age (Ma) = 15.7+/- 2.3

950-31

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	0	3.40E-05	4.22E-03	1.73E-04	1.34E-01	2.45E-01	3.55E+00	1.29E-01	0.00	74.75	1	1.88	0.58	1.70	109.59	111.98	20.67
2	3	2.91E-05	4.03E-02	1.49E-03	2.73E-01	3.57E-01	3.78E-01	2.38E-01	18.45	10.68	1	1.30	0.39	16.21	17.30	519.66	18.77
3	1	3.40E-05	4.41E-03	2.23E-04	1.16E-01	5.82E-01	1.95E-01	1.09E-01	48.06	48.13	1	1.88	0.70	1.77	3.82	85.67	21.28
4	1	3.11E-05	3.75E-03	1.46E-04	1.44E-01	2.44E-01	9.29E-02	1.23E-01	61.63	61.69	1	1.37	0.21	1.51	0.75	161.24	18.74
5	3	1.75E-05	8.28E-02	3.28E-03	8.35E-02	1.38E-01	9.09E-02	8.59E-02	14.95	8.66	2	1.17	0.20	33.34	103.27	237.36	18.51
6	0	3.88E-05	3.70E-03	1.42E-04	4.73E-02	1.66E-01	4.57E-01	4.27E-02	0.00	74.62	1	1.78	0.71	1.49	0.03	116.57	20.38
7	0	1.55E-05	1.03E-02	4.50E-04	8.68E-02	1.49E-01	1.27E-01	8.88E-02	0.00	66.94	1	1.44	0.59	4.15	4.85	348.14	19.97
8	1	3.11E-05	5.50E-02	2.21E-03	6.04E-02	1.59E-01	1.10E-01	7.08E-02	4.22	4.23	1	1.74	0.34	22.14	54.74	247.03	19.12
9	0	1.21E-05	4.76E-03	1.97E-04	9.63E-02	6.99E-01	0.00E+00	1.10E-01	0.00	182.19	1	1.63	0.35	1.92	0.00	121.50	19.23
10	0	3.88E-05	2.52E-03	9.67E-05	7.31E-02	1.28E-01	2.46E-01	1.03E-01	0.00	108.84	1	1.79	0.65	1.01	1.29	148.86	17.94
11	0	1.94E-05	3.18E-03	1.24E-04	1.55E-01	9.69E-01	1.24E-01	1.94E-01	0.00	170.95	1	1.68	0.40	1.28	0.62	196.22	16.88
12	0	2.91E-05	1.01E-02	4.01E-04	7.91E-02	1.25E-01	2.70E-01	9.18E-02	0.00	36.64	1	1.52	0.31	4.06	0.54	178.32	17.09
13	0	1.94E-05	6.80E-03	2.18E-04	3.25E-02	3.97E-02	1.37E-01	1.56E-02	0.00	81.07	1	1.39	-0.03	2.74	2.17	200.33	12.89
14	0	2.18E-05	3.41E-03	1.19E-04	6.92E-02	4.84E-02	5.97E-01	2.99E-02	0.00	142.19	1	1.74	0.33	1.37	0.12	165.78	12.94
15	1	1.94E-05	1.05E-02	3.46E-04	5.10E-02	5.38E-02	1.08E-01	3.37E-02	35.28	35.30	1	1.45	0.29	4.23	1.89	249.17	11.87
16	0	3.11E-05	5.34E-03	1.81E-04	5.24E-02	4.56E-02	1.91E-01	2.46E-02	0.00	64.67	1	1.00	0.28	2.15	0.63	190.39	13.84
17	1	1.55E-05	3.54E-03	1.28E-04	4.26E-02	3.76E-01	4.56E-01	4.59E-02	129.97	130.09	1	2.13	0.42	1.43	0.75	194.89	15.21
18	0	2.43E-05	5.69E-03	2.17E-04	1.02E-01	3.13E-01	2.46E-01	6.83E-02	0.00	77.55	1	1.73	0.70	2.29	0.07	110.52	17.80
19	0	2.91E-05	1.90E-02	7.11E-04	2.59E-02	1.36E-02	3.10E-02	1.96E-02	0.00	19.57	1	1.40	0.31	7.63	16.54	96.53	17.54
20	0	1.94E-05	2.93E-03	1.19E-04	3.73E-02	5.33E-02	9.32E-01	4.40E-02	0.00	185.22	1	1.21	0.43	1.18	0.10	148.68	18.58
21	0	2.18E-05	6.71E-03	2.56E-04	6.13E-02	1.39E-01	1.58E-01	7.15E-02	0.00	73.03	1	1.25	0.59	2.70	0.81	157.59	17.66
22	2	2.91E-05	2.07E-02	8.28E-04	4.51E-02	5.38E-02	1.13E-01	5.82E-02	23.96	16.98	2	1.36	0.46	8.32	3.89	208.43	20.10
23	1	2.43E-05	3.35E-03	1.31E-04	2.33E-02	1.89E-02	9.16E-02	1.94E-02	88.30	88.39	1	1.30	0.29	1.35	1.61	172.23	16.72
24	1	1.75E-05	9.46E-04	7.81E-05	8.63E-02	3.00E+00	2.73E-01	1.19E-01	422.91	424.43	1	1.11	0.07	0.38	2.07	219.02	19.32
25	0	1.94E-05	6.48E-03	2.63E-04	4.55E-02	8.09E-02	1.98E-01	3.69E-02	0.00	84.99	1	1.71	0.48	2.61	1.57	370.58	19.99

Mean Dpar = 1.52
 Mean Dper = 0.40
 Modified Zeta = 14.442+/- 0.293
 Mean 29Si b:s = 0.081
 Mean 43Ca b:s = 0.081
 Mean 238U b:s = 0.328
 Number of grains= 25
 Chi-squared = 27.5
 Chi-squared prob= 0.2798

Pooled Age (Ma) = 13.7+/- 3.6

950-32

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	5	3.88E-05	1.13E-02	4.40E-04	9.81E-02	1.20E-01	1.31E-01	1.18E-01	81.93	36.81	3	1.61	0.37	4.54	10.78	89.08	20.42
2	10	3.40E-05	5.67E-02	2.16E-03	1.35E-01	2.47E-01	1.67E-01	1.29E-01	37.45	11.95	3	1.55	0.31	22.78	30.70	77.61	19.80
3	1	1.70E-05	3.33E-02	1.37E-03	1.19E-01	3.92E-01	1.57E-01	1.07E-01	12.77	12.79	1	2.01	0.84	13.38	28.57	102.88	19.39
4	8	1.70E-05	4.43E-02	1.75E-03	1.33E-01	6.76E-01	9.42E-02	1.47E-01	76.50	27.26	1	1.98	0.77	17.79	28.97	69.90	20.48
5	10	3.88E-05	3.69E-02	1.38E-03	7.93E-02	1.85E-01	1.04E-01	1.17E-01	50.36	16.07	4	1.93	0.60	14.81	24.47	92.68	18.95
6	5	3.11E-05	5.55E-02	2.19E-03	6.09E-02	2.90E-01	6.24E-02	6.78E-02	20.96	9.42	2	1.50	0.18	22.29	38.61	49.88	20.68
7	6	3.11E-05	2.25E-02	7.96E-04	1.45E-01	2.95E-01	1.44E-01	2.00E-01	61.85	25.38	2	1.77	0.51	9.03	22.45	121.51	18.20
8	1	1.94E-05	2.53E-02	1.10E-03	1.22E-01	2.16E-01	1.86E-01	1.30E-01	14.74	14.75	1	1.73	0.29	10.15	25.69	213.05	19.81
9	17	3.88E-05	3.74E-02	1.46E-03	1.91E-01	9.09E-01	2.80E-01	2.82E-01	84.25	20.77	4	1.49	0.32	15.01	50.69	64.04	17.24
10	10	1.46E-05	1.15E-01	4.43E-03	9.87E-02	1.44E-01	1.08E-01	1.08E-01	42.95	13.71	3	1.74	0.34	46.33	65.05	97.45	20.06
12	2	1.94E-05	2.54E-02	9.19E-04	3.77E-01	6.32E-01	2.00E-01	4.06E-01	29.23	20.70	2	1.78	0.70	10.22	12.89	93.88	15.36
13	5	3.40E-05	1.58E-02	6.49E-04	4.47E-01	6.52E-01	3.79E-01	3.01E-01	67.07	30.15	2	1.63	0.26	6.35	25.47	112.70	14.48
14	9	3.40E-05	5.66E-02	2.23E-03	3.04E-01	6.74E-01	3.18E-01	3.15E-01	33.77	11.36	2	1.96	0.20	22.74	47.18	138.99	16.80
16	3	4.85E-05	2.57E-02	9.29E-04	1.05E-01	2.47E-01	1.11E-01	8.00E-02	17.36	10.05	2	1.56	0.38	10.33	25.04	105.45	18.62
17	1	1.21E-05	3.09E-02	1.21E-03	1.07E-01	2.00E-01	1.81E-01	1.10E-01	19.24	19.26	1	1.86	0.12	12.43	23.84	68.21	19.34
18	6	1.75E-05	9.60E-02	3.51E-03	1.02E-01	1.22E-01	1.11E-01	1.17E-01	25.82	10.60	2	1.22	0.19	38.58	58.96	78.24	18.31
19	4	2.43E-05	1.99E-02	7.11E-04	6.55E-02	1.30E-01	1.07E-01	7.26E-02	59.60	29.90	2	1.90	0.30	8.00	22.83	109.48	16.56
20	3	2.91E-05	1.39E-02	5.16E-04	1.13E-01	2.42E-01	1.38E-01	1.01E-01	53.49	30.96	2	1.77	0.42	5.58	13.72	95.56	17.79
21	2	3.88E-05	1.21E-02	4.18E-04	9.02E-02	1.90E-01	1.22E-01	9.22E-02	30.78	21.80	1	1.58	0.42	4.85	12.16	106.44	18.08
22	6	2.43E-05	3.37E-03	2.26E-04	5.88E-02	2.69E+01	8.69E-02	6.09E-02	510.52	211.46	1	2.33	0.49	1.35	36.56	136.04	19.19
23	6	2.38E-05	1.87E-02	6.91E-04	8.61E-02	9.35E-01	5.14E-02	9.30E-02	96.99	39.81	2	1.84	0.42	7.50	24.43	109.98	17.77
25	11	2.91E-05	5.85E-03	1.84E-04	5.48E-01	1.18E+00	8.78E-01	6.25E-01	451.46	137.16	3	1.81	0.51	2.35	7.57	102.08	12.38

Mean Dpar = 1.75
 Mean Dper = 0.41
 Modified Zeta = 14.474+/- 0.293
 Mean 29Si b:s = 0.163
 Mean 43Ca b:s = 0.163
 Mean 238U b:s = 1.618
 Number of grains= 22
 Chi-squared = 117.2
 Chi-squared prob= 0.0000

Pooled Age (Ma) = 48.5+/- 4.4

950-33

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	2	1.16E-05	4.52E-03	2.02E-04	1.16E-01	1.53E-01	1.47E-01	9.41E-02	256.89	182.08	1	1.68	0.40	1.90	8.22	101.26	5.95
3	1	1.21E-05	4.60E-03	1.18E-04	3.12E-02	3.39E-01	6.81E-02	2.75E-02	122.43	122.49	1	2.26	0.61	1.94	6.99	105.28	16.48
4	1	1.46E-05	9.35E-03	2.61E-04	1.47E-01	1.70E-01	1.08E-01	9.91E-02	50.46	50.49	1	1.60	0.16	3.94	3.82	68.81	15.89
5	1	2.91E-05	4.94E-03	1.27E-04	4.76E-02	2.08E-01	1.02E-01	6.42E-02	47.79	47.81	2	2.06	0.63	2.08	3.20	284.83	13.22
6	0	1.46E-05	7.99E-03	2.14E-04	9.23E-02	3.26E-01	1.04E-01	7.15E-02	0.00	87.69	1	1.96	0.76	3.37	10.83	175.47	17.30
7	19	3.88E-05	7.23E-02	1.92E-03	6.21E-02	1.01E-01	4.42E-02	4.91E-02	46.52	10.78	4	1.58	0.35	30.47	64.75	350.10	17.83
8	1	2.38E-05	2.90E-03	8.95E-05	1.31E-01	8.06E-01	1.20E-01	1.09E-01	99.28	99.35	1	1.99	0.80	1.22	4.82	165.51	18.06
9	1	2.33E-05	4.13E-03	1.03E-04	4.53E-02	1.53E-01	8.09E-02	3.72E-02	71.37	71.40	1	1.32	0.40	1.74	2.75	269.72	15.04
10	1	9.71E-06	3.44E-03	8.98E-05	3.93E-02	3.19E-01	6.01E-02	5.22E-02	203.10	203.21	1	1.79	0.61	1.45	5.78	83.77	16.25
11	2	1.46E-05	1.70E-02	4.50E-04	5.05E-02	9.35E-02	7.22E-02	4.84E-02	55.47	39.26	1	1.93	0.67	7.17	24.05	214.32	18.32
12	4	1.75E-05	6.69E-03	1.71E-04	6.17E-02	1.45E-01	1.06E-01	9.38E-02	231.69	116.08	2	1.61	0.19	2.82	6.13	116.40	18.64
13	0	7.28E-06	1.37E-02	3.81E-04	9.59E-02	1.68E-01	1.49E-01	1.21E-01	0.00	102.24	1	1.84	0.34	5.77	8.74	154.03	17.87
14	1	1.46E-05	7.53E-03	1.93E-04	5.52E-02	7.24E-02	3.60E-02	3.25E-02	62.57	62.61	1	1.79	0.62	3.18	8.64	155.16	16.52
15	9	2.43E-05	6.78E-02	1.74E-03	2.28E-01	8.76E-01	2.96E-01	2.69E-01	37.60	12.59	3	2.33	0.65	28.59	50.26	260.44	14.60
16	0	1.16E-05	3.37E-04	1.41E-05	4.26E-01	4.23E+00	3.41E-01	4.17E-01	0.00	1926.80	1	2.11	0.94	0.14	3.96	289.21	12.64
17	3	1.94E-05	5.43E-03	1.59E-04	1.28E-01	2.18E-01	1.69E-01	1.26E-01	193.27	111.79	2	1.85	1.02	2.29	6.92	122.45	18.89
18	2	1.46E-05	5.42E-03	1.55E-04	9.91E-02	2.80E-01	1.20E-01	1.13E-01	172.59	122.19	1	2.77	0.49	2.28	7.53	121.79	17.22

Mean Dpar = 1.91
 Mean Dper = 0.57

Modified Zeta = 13.796+/- 0.268
 Mean 29Si b:s = 0.109
 Mean 43Ca b:s = 0.109
 Mean 238U b:s = 0.510
 Number of grains= 17
 Chi-squared = 25.1
 Chi-squared prob= 0.0680
Pooled Age (Ma) = 55.7+/- 8.2

950-34

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
3	0	1.94E-05	1.91E-02	7.31E-04	8.74E-02	2.95E-01	2.05E-01	7.05E-02	0.00	28.97	1	1.44	0.39	7.72	24.83	678.09	20.44
4	0	1.70E-05	2.80E-02	1.09E-03	2.26E-01	3.71E-01	1.32E-01	9.21E-02	0.00	22.66	1	1.47	0.49	11.29	41.18	832.10	17.92
5	1	1.75E-05	2.91E-02	1.19E-03	1.11E-01	7.58E-01	7.07E-02	1.18E-01	14.13	14.14	1	1.72	0.56	11.76	45.38	595.18	18.84
6	0	1.02E-05	2.39E-02	9.77E-04	6.73E-02	1.10E-01	3.29E-01	5.80E-02	0.00	43.95	1	1.44	0.19	9.67	19.39	634.45	19.60
9	6	1.16E-05	2.15E-02	5.89E-04	1.60E-01	4.32E-01	7.80E+00	1.26E-01	170.55	69.87	3	1.42	0.39	8.66	7.22	963.61	9.17
10	0	7.28E-06	1.88E-02	7.36E-04	5.00E-02	8.39E-02	9.70E-02	6.24E-02	0.00	78.00	1	1.51	0.30	7.58	15.39	717.50	18.59
11	0	2.43E-05	1.55E-02	6.48E-04	1.24E-01	2.39E-01	1.15E-01	1.07E-01	0.00	28.50	1	1.94	0.43	6.28	15.12	570.34	19.69
13	2	2.04E-05	1.83E-02	7.84E-04	1.01E-01	1.66E-01	1.31E-01	1.01E-01	38.53	27.31	2	1.54	0.14	7.38	13.84	592.07	19.78
16	2	1.16E-05	3.12E-02	1.18E-03	8.04E-02	2.75E-01	1.32E-01	6.31E-02	39.52	27.99	2	1.33	0.21	12.59	25.28	680.48	17.69
17	0	1.21E-05	1.69E-02	7.48E-04	9.91E-02	4.68E-01	1.14E-01	9.20E-02	0.00	52.25	1	1.24	0.02	6.82	18.09	638.78	19.14
18	0	2.43E-05	2.45E-02	9.85E-04	8.74E-02	2.33E-01	1.18E-01	1.16E-01	0.00	18.13	1	1.23	0.04	9.88	26.18	591.38	18.79
20	1	1.94E-05	1.88E-02	7.30E-04	1.22E-01	2.57E-01	7.23E-02	7.92E-02	19.70	19.71	1	1.38	0.30	7.59	22.55	683.22	16.98
21	1	3.88E-05	1.71E-02	6.68E-04	8.34E-02	2.22E-01	8.65E-02	6.64E-02	10.82	10.83	1	1.68	0.26	6.91	11.79	378.63	18.18
22	3	1.21E-05	1.97E-02	7.07E-04	3.20E-02	1.38E-01	1.26E-02	1.35E-02	89.74	51.95	2	1.53	0.38	7.95	16.69	630.73	14.23
23	1	1.46E-05	4.66E-02	1.54E-03	3.68E-02	1.50E-01	8.10E-02	2.50E-02	10.61	10.61	3	1.14	0.38	18.80	36.27	700.54	12.00
24	5	2.91E-05	2.31E-02	7.74E-04	5.57E-02	6.00E-02	5.65E-02	5.26E-02	53.29	23.92	2	1.38	0.35	9.32	19.16	567.98	11.97
25	0	1.75E-05	2.77E-02	1.07E-03	7.10E-02	2.48E-01	9.80E-02	7.69E-02	0.00	22.25	1	1.64	0.39	11.18	18.59	560.07	17.68

Mean Dpar = 1.47
 Mean Dper = 0.31
 Modified Zeta = 14.396+/- 0.293
 Mean 29Si b:s = 0.094
 Mean 43Ca b:s = 0.094
 Mean 238U b:s = 0.265
 Number of grains= 17
 Chi-squared = 36.7
 Chi-squared prob= 0.0023
Pooled Age (Ma) = 22.6+/- 4.8

950-35

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	3	4.85E-05	7.90E-03	2.65E-04	1.72E-02	1.56E-02	1.45E-02	9.86E-03	56.98	32.97	3	2.77	0.87	3.14	13.62	138.17	18.05
2	4	2.43E-05	9.11E-03	3.23E-04	2.08E-02	5.26E-02	8.23E-02	1.59E-02	131.12	65.78	3	2.43	0.67	3.62	30.62	138.64	19.71
3	2	2.91E-05	9.37E-03	4.10E-04	3.71E-02	1.78E-02	1.81E-02	8.64E-03	53.40	37.84	2	2.27	0.83	3.72	16.19	154.37	18.35
4	6	2.33E-05	9.32E-03	3.24E-04	1.86E-02	2.13E-02	1.91E-02	1.40E-02	199.20	81.72	3	2.19	0.90	3.70	16.18	182.81	18.77
5	3	1.94E-05	9.95E-03	4.79E-04	1.58E-02	7.29E-03	1.18E-02	1.03E-02	112.65	65.30	2	2.42	1.06	3.95	14.32	130.54	20.95
6	1	1.75E-05	6.14E-03	2.34E-04	2.00E-02	1.41E-01	5.34E-01	2.37E-02	67.83	67.89	1	1.96	0.34	2.44	6.20	91.52	20.70
7	3	1.94E-05	4.14E-03	1.67E-04	3.52E-02	8.86E-01	2.60E-02	3.89E-02	267.42	154.86	2	2.37	0.82	1.65	12.51	99.26	20.06
8	1	2.38E-05	4.78E-03	1.78E-04	1.95E-02	7.90E-02	5.06E-02	3.17E-02	64.09	64.15	1	2.63	0.78	1.90	5.31	59.58	21.76
9	1	4.85E-05	7.74E-03	2.54E-04	6.55E-02	8.83E-02	5.63E-02	4.38E-02	19.45	19.46	2	2.33	0.26	3.07	11.87	148.81	19.63
10	3	4.85E-05	8.98E-03	3.16E-04	2.03E-02	1.95E-02	2.44E-02	1.01E-02	50.19	29.05	2	1.81	0.91	3.57	12.23	194.01	20.38
11	2	1.75E-05	4.44E-03	1.69E-04	3.79E-02	2.55E-01	1.51E-02	2.27E-02	185.78	131.61	1	1.91	0.66	1.77	9.19	103.12	21.46
12	5	4.85E-05	1.28E-02	5.18E-04	4.70E-02	4.06E-01	4.48E-02	4.36E-02	58.58	26.33	3	2.32	0.91	5.09	10.55	86.60	20.31
13	7	1.75E-05	8.75E-02	2.99E-03	2.78E-02	1.00E-02	4.65E-02	1.07E-02	33.42	12.70	3	1.65	0.54	34.76	6.13	324.67	18.02
14	2	3.88E-05	7.16E-03	2.26E-04	2.20E-02	1.26E-02	3.12E-02	1.33E-02	52.44	37.13	2	2.37	0.65	2.84	11.01	126.18	14.21
15	2	1.46E-05	7.41E-03	2.50E-04	2.66E-02	3.38E-02	3.82E-02	2.25E-02	134.26	95.08	1	2.45	0.91	2.94	12.83	84.45	16.03
16	3	4.85E-05	8.96E-03	2.98E-04	2.75E-02	2.44E-02	0.00E+00	1.78E-02	50.31	29.11	2	2.34	0.52	3.56	0.00	117.27	16.44

17	1	2.91E-05	3.39E-03	1.32E-04	3.30E-02	1.17E+00	3.96E-02	4.20E-02	73.69	73.76	1	2.04	0.62	1.35	11.65	93.67	17.04
18	2	2.38E-05	6.87E-03	2.16E-04	2.46E-02	5.32E-03	1.78E-02	1.56E-02	88.98	63.01	2	1.87	0.94	2.73	10.62	80.37	14.00
19	3	4.85E-05	1.27E-02	4.17E-04	1.81E-02	1.06E-02	1.55E-02	1.07E-02	35.58	20.59	2	2.15	1.10	5.04	16.95	153.96	19.14
20	2	2.91E-05	5.48E-03	2.25E-04	1.17E-01	2.98E-01	7.01E-02	1.07E-01	91.06	64.53	2	2.37	0.59	2.18	10.66	95.18	18.49
21	5	2.91E-05	7.84E-03	2.75E-04	2.03E-02	7.61E-02	5.88E-02	3.45E-02	158.20	71.04	3	2.75	0.63	3.12	10.48	113.51	21.79
22	2	3.93E-05	6.92E-03	2.45E-04	9.69E-02	3.23E-01	1.10E-01	7.97E-02	53.57	37.94	2	2.39	0.78	2.75	11.18	137.90	21.55
23	6	3.88E-05	7.92E-03	2.67E-04	2.60E-02	3.40E-02	4.34E-02	2.60E-02	141.14	57.89	2	2.45	0.53	3.15	13.65	150.31	18.71
24	2	2.38E-05	5.90E-03	2.11E-04	2.74E-02	2.94E-01	5.02E-02	4.21E-02	103.53	73.33	1	2.43	1.47	2.34	11.66	134.95	19.57
25	3	2.33E-05	7.56E-03	2.44E-04	1.03E-01	1.44E-01	1.10E-01	7.12E-02	123.51	71.46	2	2.40	0.98	3.00	10.70	84.57	19.08

Mean Dpar = 2.28
 Mean Dper = 0.77
 Modified Zeta = 14.635+/- 0.292
 Mean 29Si b:s = 0.037
 Mean 43Ca b:s = 0.037
 Mean 238U b:s = 0.177
 Number of grains= 25
 Chi-squared = 33.0
 Chi-squared prob= 0.1036
Pooled Age (Ma) = 70.8+/- 8.4

950-36

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	34	4.37E-05	9.68E-02	2.19E-03	1.52E-01	4.45E-01	1.44E-01	1.24E-01	55.01	9.57	4	1.70	0.42	40.97	156.98	441.78	11.84
2	36	3.88E-05	1.53E-01	3.81E-03	1.46E-01	1.54E-01	1.33E-01	1.50E-01	41.62	7.06	3	1.71	0.52	64.57	194.80	455.11	12.34
3	18	2.91E-05	1.21E-01	2.74E-03	1.48E-01	2.37E-01	1.61E-01	1.54E-01	35.08	8.34	3	2.04	0.60	51.09	167.34	454.87	12.04
4	22	3.88E-05	7.92E-02	1.93E-03	7.26E-02	8.31E-02	9.46E-02	7.62E-02	48.96	10.55	3	1.89	0.45	33.52	72.91	338.95	12.35
5	16	2.33E-05	7.15E-02	1.64E-03	1.56E-01	4.56E-01	1.67E-01	1.69E-01	65.73	16.55	3	1.96	0.38	30.23	61.43	271.54	11.73
6	16	2.43E-05	5.62E-02	1.33E-03	1.63E-01	7.06E-01	2.28E-01	1.41E-01	80.13	20.18	4	1.63	0.29	23.78	66.26	297.13	12.00
7	21	4.85E-05	7.50E-02	1.78E-03	1.44E-01	2.59E-01	1.57E-01	1.41E-01	39.55	8.72	2	1.70	0.36	31.71	66.36	306.00	11.78
8	16	3.11E-05	7.54E-02	1.68E-03	5.89E-02	6.96E-02	5.74E-02	5.99E-02	46.81	11.78	3	1.59	0.43	31.88	71.98	384.91	11.35
9	25	4.85E-05	6.65E-02	1.65E-03	1.46E-01	6.86E-01	1.73E-01	1.63E-01	53.02	10.74	4	1.79	0.34	28.13	79.44	324.04	14.27
10	13	4.85E-05	4.96E-02	1.24E-03	1.58E-01	3.56E-01	1.67E-01	1.45E-01	36.99	10.33	3	1.59	0.30	20.99	47.11	353.80	14.44
11	25	2.91E-05	1.59E-01	3.98E-03	1.28E-01	1.62E-01	1.31E-01	1.03E-01	37.00	7.49	2	1.60	0.42	67.28	197.44	439.09	13.96
12	23	3.88E-05	4.61E-02	1.18E-03	1.80E-01	5.57E-01	1.12E-01	1.08E-01	87.70	18.50	4	1.97	0.44	19.51	65.00	364.66	13.63
13	36	4.85E-05	1.42E-01	3.36E-03	9.48E-02	1.77E-01	1.10E-01	1.00E-01	35.87	6.08	4	1.50	0.55	59.96	210.37	471.73	13.56
14	25	4.85E-05	6.76E-02	1.59E-03	1.51E-01	2.15E-01	1.67E-01	1.71E-01	52.16	10.55	3	2.07	0.32	28.60	62.52	312.98	13.09
15	17	3.88E-05	9.95E-02	2.54E-03	5.44E-02	2.02E-01	6.42E-02	5.15E-02	30.19	7.39	3	1.49	0.23	42.08	120.51	427.03	14.32
16	10	3.11E-05	6.79E-02	1.72E-03	6.73E-02	2.12E-01	7.24E-02	4.03E-02	32.52	10.34	2	1.37	0.35	28.71	76.32	321.55	12.35
17	16	2.43E-05	6.87E-02	1.58E-03	9.69E-02	5.16E-01	1.07E-01	7.61E-02	65.66	16.53	3	1.53	0.49	29.05	66.38	282.75	12.01
18	13	3.88E-05	7.72E-02	1.78E-03	2.87E-02	5.68E-03	1.07E-02	1.06E-02	29.73	8.30	2	1.54	0.52	32.67	68.66	324.29	10.48
19	28	3.11E-05	1.34E-01	3.26E-03	3.08E-02	1.28E-02	2.68E-03	3.64E-03	46.23	8.85	3	1.55	0.28	56.49	177.63	451.26	11.23
20	26	3.88E-05	5.81E-02	1.51E-03	7.61E-02	9.73E-02	4.98E-02	4.49E-02	78.72	15.65	3	1.56	0.22	24.58	46.08	339.19	12.41
21	15	1.94E-05	1.08E-01	2.61E-03	1.46E-01	2.68E-01	1.03E-01	1.02E-01	48.85	12.70	3	1.53	0.44	45.82	80.51	309.65	12.24
22	15	3.88E-05	3.99E-02	8.91E-04	1.58E-01	9.40E-01	1.61E-01	1.40E-01	66.18	17.20	2	1.54	0.38	16.89	65.57	285.76	11.66
23	17	2.91E-05	8.01E-02	1.95E-03	1.40E-01	5.20E-01	1.55E-01	1.45E-01	49.92	12.21	1	1.63	0.19	33.87	70.11	302.32	12.90
24	20	3.88E-05	6.54E-02	1.82E-03	1.40E-01	2.13E-01	1.42E-01	1.69E-01	53.88	12.19	4	1.60	0.61	27.68	60.93	308.48	14.95
25	25	3.11E-05	9.05E-02	2.36E-03	1.45E-01	2.83E-01	1.52E-01	1.35E-01	60.84	12.33	4	1.58	0.28	38.28	78.64	329.26	15.78

Mean Dpar = 1.67
 Mean Dper = 0.39
 Modified Zeta = 13.747+/- 0.267
 Mean 29Si b:s = 0.119
 Mean 43Ca b:s = 0.119
 Mean 238U b:s = 0.313
 Number of grains= 25
 Chi-squared = 43.8
 Chi-squared prob= 0.0081
Pooled Age (Ma) = 47.4+/- 2.3

950-37

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	6	1.16E-05	3.79E-02	1.25E-03	1.12E-01	2.22E-01	2.74E-01	1.39E-01	99.68	40.88	3	1.66	0.26	14.91	30.43	498.65	22.36
2	4	1.55E-05	3.73E-02	1.18E-03	1.20E-01	2.13E-01	1.19E-01	1.08E-01	50.84	25.49	2	2.00	0.27	14.67	39.08	545.81	19.36
3	2	1.46E-05	1.04E-01	2.70E-03	1.63E-01	4.91E-02	8.60E-01	5.12E-02	9.75	6.90	2	1.73	0.30	40.92	75.80	761.39	6.79
4	12	1.46E-05	1.12E-01	3.03E-03	2.33E-01	2.46E-01	1.85E-01	2.33E-01	54.36	15.80	3	1.64	0.52	43.88	126.41	969.03	17.15
5	4	7.28E-06	4.58E-02	1.38E-03	1.35E-01	2.70E-01	2.19E-01	2.45E-01	88.14	44.19	2	1.76	0.33	18.00	42.95	388.92	19.22
6	4	1.16E-05	8.03E-02	2.32E-03	9.20E-02	4.29E-01	1.15E-01	1.15E-01	31.52	15.80	3	1.65	0.51	31.60	94.54	723.84	18.87
7	0	5.82E-06	5.50E-02	1.77E-03	5.70E-02	7.66E-02	6.98E-02	6.80E-02	0.00	34.45	1	1.55	0.48	21.61	46.27	654.42	19.73
8	5	9.71E-06	1.09E-01	3.18E-03	1.07E-01	2.11E-01	1.19E-01	1.10E-01	34.96	15.69	1	1.46	0.45	42.71	140.00	1040.10	18.35
9	4	1.16E-05	7.62E-02	2.26E-03	7.28E-02	2.04E-01	1.32E-01	8.33E-02	33.22	16.65	3	1.69	0.58	29.97	88.27	826.31	18.51
10	5	1.94E-05	6.59E-02	1.85E-03	8.51E-02	4.96E-01	1.27E-01	7.22E-02	28.82	12.93	2	1.64	0.34	25.92	155.29	929.97	15.44
11	1	9.71E-06	3.14E-02	9.38E-04	1.06E-01	1.68E-01	2.86E-01	1.08E-01	24.21	24.23	2	1.48	0.23	12.35	21.31	425.34	18.44
13	2	1.21E-05	8.24E-03	2.73E-04	9.82E-02	2.22E+00	1.99E-01	8.27E-02	146.20	103.53	2	1.64	0.30	3.24	22.50	452.38	17.29
15	5	2.04E-05	8.90E-02	2.86E-03	2.60E-02	3.39E-02	6.55E-02	2.15E-02	20.35	9.13	2	1.51	0.33	34.98	96.70	880.27	18.89
17	10	1.75E-05	7.52E-02	2.33E-03	5.28E-02	4.08E-01	4.62E-02	5.15E-02	56.03	17.84	4	1.77	0.42	29.56	137.41	1019.10	18.39
18	4	9.71E-06	4.23E-02	1.34E-03	3.93E-02	5.04E-02	4.62E-02	3.27E-02	71.70	35.95	4	1.56	0.39	16.62	36.93	503.91	19.42
19	1	9.71E-06	2.92E-02	9.56E-04	3.58E-02	6.74E-01	2.67E-02	4.45E-02	26.03	26.05	1	1.68	0.56	11.48	17.37	446.28	19.41
20	7	1.55E-05	8.02E-02	2.60E-03	3.40E-02	5.90E-02	4.60E-02	3.29E-02	41.42	15.73	1	1.54	0.18	31.53	84.51	797.74	19.02
21	1	1.21E-05	4.64E-02	1.20E-03	2.92E-02	2.41E-02	5.27E-02	1.63E-02	13.11	13.12	2	1.09	0.28	18.25	40.64	513.34	12.38
22	1	9.71E-06	2.05E-02	5.29E-04	3.81E-02	5.30E-02	6.72E-02	3.15E-02	37.13	37.15	1	1.65	0.38	8.04	15.42	354.17	13.16
25	2	2.91E-05	3.08E-02	7.84E-04	5.33E-02	7.32E-02	7.13E-02	6.60E-02	16.47	11.66	1	1.48	0.21	12.11	26.53	446.02	12.71

Mean Dpar = 1.61
 Mean Dper = 0.37
 Modified Zeta = 14.785+/- 0.291
 Mean 29Si b:s = 0.084
 Mean 43Ca b:s = 0.084
 Mean 238U b:s = 0.309
 Number of grains= 20
 Chi-squared = 27.3
 Chi-squared prob= 0.0975
Pooled Age (Ma) = 36.6+/- 4.2

950-38

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	2	2.91E-05	1.44E-02	4.88E-04	3.58E-02	8.12E-01	6.09E-02	3.12E-02	34.97	24.76	1	1.30	0.33	5.69	16.02	363.79	16.15
3	2	1.02E-05	2.44E-02	7.33E-04	8.26E-02	1.93E-01	8.21E-02	9.77E-02	58.91	41.71	1	1.52	0.15	9.64	14.52	371.46	14.07
4	2	1.16E-05	1.80E-02	4.59E-04	5.52E-02	1.58E-01	9.33E-02	8.93E-02	69.80	49.41	1	0.01	1.75	7.11	12.60	303.35	12.47
5	1	9.71E-06	5.10E-02	1.58E-03	4.49E-02	6.56E-02	4.32E-01	3.97E-02	14.84	14.85	1	1.78	0.35	20.16	38.14	776.17	14.09
6	4	1.94E-05	2.92E-02	8.72E-04	5.62E-02	7.60E-02	6.92E-02	7.22E-02	51.74	25.93	2	1.63	0.31	11.53	18.81	339.69	14.82
7	8	1.46E-05	2.55E-02	7.94E-04	7.05E-02	1.16E-01	5.85E-02	5.04E-02	156.41	55.60	2	1.30	0.05	10.09	19.72	511.83	15.36
8	2	1.75E-05	2.67E-02	7.54E-04	7.50E-02	6.03E-02	6.14E-02	8.60E-02	31.47	22.28	1	1.21	0.11	10.55	20.87	475.09	13.10
9	8	1.36E-05	9.27E-02	2.50E-03	6.68E-02	1.59E-01	1.05E-01	5.99E-02	46.56	16.53	2	1.37	0.28	36.63	92.00	1156.80	14.09
10	0	1.36E-05	2.44E-02	1.27E-03	2.77E-02	4.23E-03	2.37E-02	1.84E-03	0.00	33.14	1	1.87	0.29	9.63	25.42	437.15	10.95
11	4	2.43E-05	3.13E-02	9.48E-04	4.61E-02	1.58E-01	7.82E-02	3.87E-02	38.60	19.35	2	1.28	0.16	12.38	20.30	415.03	16.30
12	1	9.71E-06	1.81E-02	6.52E-04	4.26E-02	1.39E-01	3.43E-02	2.21E-02	41.74	41.77	1	1.31	0.14	7.15	15.83	279.00	18.79
13	2	2.04E-05	2.77E-02	8.36E-04	3.85E-02	2.96E-01	3.28E-02	1.91E-02	25.99	18.40	1	1.55	0.11	10.95	26.73	569.17	16.96
14	5	1.46E-05	7.57E-03	5.43E-04	2.49E-01	1.58E+00	3.45E-01	2.16E-01	325.40	147.52	3	1.24	0.41	2.99	72.51	1183.30	7.09
15	5	2.18E-05	5.45E-02	1.64E-03	9.24E-02	4.35E-01	2.49E-02	1.77E-02	30.85	13.84	2	1.67	0.13	21.52	65.60	836.51	16.57
16	2	1.94E-05	2.97E-02	9.93E-04	7.09E-02	6.04E-01	8.20E-02	7.62E-02	25.49	18.05	2	1.72	0.26	11.73	25.12	529.44	21.12
17	2	1.46E-05	1.82E-03	1.15E-04	1.52E-01	3.46E+00	1.92E-01	1.12E-01	533.16	378.65	1	1.13	0.19	0.72	16.81	358.42	20.12
18	3	9.71E-06	3.41E-02	1.28E-03	5.26E-02	1.17E-01	2.45E-02	3.05E-02	66.40	38.44	2	1.38	0.31	13.46	30.40	593.68	19.18
19	1	1.36E-05	4.34E-03	1.46E-04	1.97E-01	2.86E+00	5.25E-02	1.77E-01	123.54	123.63	1	1.40	0.15	1.72	14.81	401.93	16.40
20	2	2.43E-05	2.11E-02	7.27E-04	9.86E-02	4.17E-01	1.10E-01	9.61E-02	28.67	20.31	1	1.21	0.21	8.34	25.85	536.83	17.43
21	2	1.94E-05	2.45E-02	7.25E-04	3.52E-01	6.93E-01	3.79E-01	3.20E-01	30.93	21.90	1	1.65	0.10	9.66	26.31	486.73	14.96
22	3	1.46E-05	2.83E-02	9.56E-04	1.90E-01	1.48E-01	2.84E-01	1.46E-01	53.31	30.85	2	1.35	0.12	11.19	17.40	519.10	17.17
24	1	9.71E-06	2.00E-02	6.10E-04	1.28E-01	6.36E-01	2.65E-01	1.86E-01	37.83	37.86	1	1.01	0.25	7.89	19.82	456.95	17.97
25	3	2.18E-05	3.34E-02	1.06E-03	1.47E-01	2.59E-01	5.42E+00	1.14E-01	30.19	17.47	2	1.52	0.19	13.19	7.13	533.76	17.63

Mean Dpar = 1.37
 Mean Dper = 0.28
 Modified Zeta = 14.716+/- 0.292
 Mean 29Si b:s = 0.103
 Mean 43Ca b:s = 0.103
 Mean 238U b:s = 0.585
 Number of grains= 23
 Chi-squared = 51.2
 Chi-squared prob= 0.0004
Pooled Age (Ma) = 45.5+/- 5.7

950-39

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	10	1.75E-05	6.80E-02	2.64E-03	2.56E-01	2.09E-01	1.85E-01	2.60E-01	61.01	19.48	3	2.31	0.52	27.14	63.09	377.46	20.18
3	7	1.36E-05	3.36E-02	1.46E-03	3.13E-01	5.93E-01	3.17E-01	3.66E-01	110.77	42.20	3	2.18	0.67	13.40	30.51	343.68	17.35
5	0	1.21E-05	1.91E-02	7.16E-04	2.50E-01	1.35E+00	5.39E-01	2.65E-01	0.00	46.84	1	1.77	0.39	7.62	16.11	323.14	17.42
6	11	1.55E-05	8.72E-02	2.97E-03	2.03E-01	4.96E-01	2.66E-01	2.40E-01	58.92	17.92	4	1.99	0.59	34.79	98.48	443.62	17.48
7	4	1.46E-05	1.65E-02	6.03E-04	2.21E-01	9.87E-01	4.21E-01	2.35E-01	120.18	60.30	3	1.77	0.68	6.58	18.66	209.84	17.78
9	10	2.04E-05	4.95E-02	1.91E-03	3.07E-01	4.84E-01	3.04E-01	2.38E-01	71.79	22.92	4	2.69	0.90	19.75	29.06	303.08	19.36
10	9	1.94E-05	2.11E-02	1.28E-03	2.46E-01	4.65E-01	4.43E-01	2.80E-01	157.95	53.60	4	2.23	0.68	8.43	14.98	232.33	17.61
11	10	2.38E-05	3.20E-02	1.24E-03	1.94E-01	6.88E-01	2.67E-01	1.96E-01	94.92	30.30	3	2.25	0.80	12.78	33.11	312.90	20.36
13	6	1.75E-05	5.61E-02	1.96E-03	1.57E-01	1.87E-01	1.12E-01	1.26E-01	44.44	18.23	3	2.18	0.76	22.39	42.02	332.10	22.12
14	8	1.70E-05	3.31E-02	1.24E-03	2.30E-01	6.60E-01	2.12E-01	2.47E-01	102.86	36.63	3	2.08	0.71	13.20	27.11	298.90	18.08
15	6	1.16E-05	6.73E-02	2.29E-03	2.28E-01	7.03E-01	2.99E-01	2.45E-01	55.52	22.77	3	2.06	0.77	26.86	70.28	455.31	14.38
16	9	1.94E-05	2.05E-01	5.84E-03	2.37E-01	6.53E-01	1.76E-01	1.79E-01	16.46	5.52	3	1.86	0.41	81.76	213.14	993.45	7.85
17	5	1.46E-05	7.75E-02	3.04E-03	1.09E-01	1.81E-01	1.07E-01	1.27E-01	32.20	14.47	3	2.15	0.37	30.92	55.20	389.14	22.26
20	4	1.94E-05	3.12E-02	1.00E-03	9.44E-02	1.45E-01	8.93E-02	7.87E-02	47.99	24.06	3	2.10	0.40	12.43	23.27	277.65	16.76
21	5	1.94E-05	3.57E-02	1.35E-03	1.22E-01	3.27E-01	1.60E-01	1.34E-01	52.34	23.52	4	2.13	0.72	14.25	34.23	354.36	17.46
22	8	1.75E-05	8.07E-02	2.52E-03	1.47E-01	2.54E-01	2.10E-01	1.53E-01	41.20	14.65	3	2.47	0.87	32.20	62.69	479.62	17.14
23	5	2.43E-05	3.05E-02	9.86E-04	6.84E-02	9.43E-02	1.04E-01	6.12E-02	49.04	22.01	2	2.13	0.39	12.17	19.19	253.51	17.20
24	3	1.75E-05	4.19E-02	1.47E-03	6.54E-02	9.52E-02	1.11E-01	8.02E-02	29.80	17.25	1	2.21	0.57	16.71	27.64	313.12	19.66
25	15	2.43E-05	1.05E-01	3.70E-03	6.64E-02	6.53E-02	7.64E-02	4.30E-02	42.74	11.17	2	2.31	0.92	41.90	84.51	507.28	17.88

Mean Dpar = 2.15
 Mean Dper = 0.64
 Modified Zeta = 14.566+/- 0.292
 Mean 29Si b:s = 0.185
 Mean 43Ca b:s = 0.185
 Mean 238U b:s = 0.455
 Number of grains= 19
 Chi-squared = 43.6
 Chi-squared prob= 0.0007
Pooled Age (Ma) = 49.5+/- 4.4

950-40

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	10	1.46E-05	3.45E-02	1.07E-03	3.62E-02	4.11E-01	3.11E-02	2.60E-02	132.24	42.10	4	2.07	0.81	14.95	32.02	326.50	13.31
2	16	4.85E-05	8.50E-02	2.51E-03	4.86E-02	4.09E-02	2.77E-02	1.84E-02	26.00	6.57	4	2.04	0.92	36.80	66.67	425.46	14.23
3	15	2.91E-05	1.81E-02	5.81E-04	3.95E-02	1.53E+00	8.24E-02	3.58E-02	188.07	49.08	4	2.10	0.74	7.85	25.05	297.97	13.12
4	7	1.75E-05	3.05E-02	9.45E-04	2.45E-02	1.01E-02	1.38E-02	9.83E-03	87.64	33.28	3	2.36	0.53	13.20	19.93	284.04	14.33
5	7	1.21E-05	2.84E-02	9.19E-04	2.28E-02	3.58E-02	6.32E-02	2.17E-02	135.19	51.35	3	1.96	0.68	12.28	21.58	260.93	15.53
6	6	3.11E-05	2.97E-02	1.01E-03	2.29E-02	2.64E-02	2.14E-02	1.06E-02	43.56	17.87	3	1.89	0.42	12.85	19.54	284.82	17.52
7	6	2.91E-05	3.64E-02	1.26E-03	4.91E-02	1.01E-01	4.10E-02	3.87E-02	37.90	15.55	3	1.69	1.01	15.76	28.12	295.85	15.60
8	6	1.75E-05	3.16E-02	1.06E-03	7.16E-02	1.99E-01	7.01E-02	7.39E-02	72.64	29.79	2	2.11	0.39	13.67	20.95	254.14	18.23
9	18	3.88E-05	8.55E-02	3.71E-03	3.22E-02	4.95E-02	4.55E-02	2.88E-02	36.29	8.73	3	2.08	0.54	37.04	68.17	518.10	18.13
10	5	2.43E-05	2.13E-02	8.30E-04	2.77E-02	1.25E-02	2.08E-02	1.04E-02	64.66	29.06	2	1.91	0.85	9.22	10.32	286.19	18.08
11	7	2.43E-05	2.08E-02	7.13E-04	3.05E-02	7.61E-02	4.89E-02	2.69E-02	92.30	35.08	2	2.09	0.91	9.02	12.14	213.20	18.81
12	5	1.46E-05	2.04E-01	7.37E-03	5.69E-02	2.70E-02	1.75E-02	2.86E-02	11.31	5.08	2	2.31	0.72	88.20	237.62	775.47	13.55

14	9	3.40E-05	6.93E-02	2.59E-03	2.97E-02	1.44E-02	1.91E-02	9.83E-03	25.63	8.61	4	2.03	0.70	30.00	57.10	379.79	17.20
15	16	1.94E-05	9.07E-02	2.94E-03	6.75E-02	7.16E-02	4.87E-02	3.28E-02	60.74	15.36	2	1.91	0.50	39.28	74.61	571.31	16.54
16	8	2.43E-05	2.92E-02	9.32E-04	4.93E-02	7.56E-02	6.73E-02	4.27E-02	75.33	26.78	3	2.21	0.83	12.65	18.23	261.47	16.33
17	6	1.46E-05	7.33E-02	2.17E-03	5.64E-02	2.24E-01	8.03E-02	4.58E-02	37.66	15.43	2	2.02	0.58	31.73	107.60	582.44	10.67
18	11	1.75E-05	4.53E-02	1.64E-03	3.71E-02	7.20E-01	1.15E+00	1.28E-02	92.67	28.20	2	2.14	0.83	19.62	19.96	645.00	12.78
19	22	4.85E-05	2.00E-02	6.24E-04	6.12E-02	2.51E-01	3.77E-02	2.27E-02	150.71	32.61	4	2.25	0.65	8.64	15.44	278.96	13.21
20	10	9.71E-06	1.15E-01	3.60E-03	4.57E-02	1.09E-01	2.55E-02	2.06E-02	59.66	19.00	4	2.14	0.54	49.98	103.03	512.08	13.23
21	6	2.43E-05	2.29E-02	7.01E-04	3.12E-02	4.09E-02	2.58E-02	9.92E-03	72.08	29.54	1	1.86	0.62	9.92	14.61	381.29	12.32
22	13	1.94E-05	4.07E-02	1.26E-03	4.30E-02	3.45E-02	2.28E-02	2.30E-02	109.48	30.63	2	1.87	1.15	17.64	30.38	278.73	14.97
23	7	1.46E-05	6.70E-02	2.29E-03	3.55E-02	5.59E-02	7.85E-02	4.36E-02	48.00	18.24	3	1.87	0.70	29.02	63.95	435.64	16.45
24	9	1.46E-05	5.34E-02	1.91E-03	3.64E-02	4.94E-02	4.29E-02	2.65E-02	77.33	25.97	3	2.14	0.67	23.11	49.10	538.15	17.37
25	16	1.55E-05	9.05E-02	2.79E-03	2.27E-02	5.98E-02	4.06E-02	2.99E-02	75.98	19.20	3	2.14	1.12	39.20	82.41	430.14	17.77

Mean Dpar = 2.05
 Mean Dper = 0.73
 Modified Zeta = 13.431+/- 0.267
 Mean 29Si b:s = 0.041
 Mean 43Ca b:s = 0.041
 Mean 238U b:s = 0.176
 Number of grains= 24
 Chi-squared = 106.9
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 55.3+/- 3.8

950-41

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	8.74E-06	1.91E-02	5.23E-04	6.40E-02	1.30E-01	1.01E-01	8.11E-02	40.81	40.83	1	1.39	0.07	8.13	44.45	276.97	15.50
2	25	7.77E-06	6.14E-01	1.71E-02	3.07E-02	2.69E-02	2.01E-02	1.46E-02	35.69	7.24	3	1.39	0.36	261.59	1592.60	234.36	15.65
3	14	4.37E-06	2.65E-01	7.69E-03	5.38E-02	7.40E-02	5.12E-02	5.19E-02	81.89	22.07	2	1.47	0.22	113.10	1305.30	446.50	17.14
4	3	7.28E-06	2.22E-02	6.97E-04	5.28E-02	1.87E-01	8.48E-02	5.53E-02	125.36	72.52	2	1.40	0.19	9.47	40.43	296.01	17.68
5	2	9.71E-06	1.81E-02	5.62E-04	5.45E-02	7.89E-02	5.17E-02	4.06E-02	77.23	54.69	2	1.62	0.42	7.71	29.61	253.93	17.73
6	34	8.74E-06	1.55E-03	1.19E-04	6.45E-02	1.69E+00	1.29E+00	7.26E-02	8360.27	1580.09	3	1.35	0.18	0.66	95.77	222.96	20.83
7	2	1.31E-05	4.04E-02	1.17E-03	3.78E-02	3.89E-02	3.87E-02	3.11E-02	25.73	18.22	2	1.34	0.36	17.22	107.02	268.02	17.20
8	1	9.71E-06	2.39E-02	6.93E-04	7.04E-02	1.56E-01	5.63E-02	4.43E-02	29.30	29.32	1	1.30	0.12	10.20	43.27	345.01	18.77
9	29	1.75E-05	3.54E-03	1.55E-04	1.00E-01	4.58E+00	1.79E-01	9.50E-02	2599.08	498.58	3	1.53	0.18	1.51	54.37	246.91	18.47
10	1	8.74E-06	2.83E-02	8.27E-04	8.98E-02	1.83E-01	9.11E-02	9.49E-02	27.52	27.54	1	1.79	0.21	12.07	56.54	300.83	17.70
11	12	5.82E-06	3.61E-02	1.08E-03	5.45E-02	5.92E-02	2.99E-02	7.38E-02	378.05	109.97	3	1.59	0.89	15.39	57.04	213.25	19.40
12	2	8.74E-06	9.26E-03	2.81E-04	5.82E-02	8.58E-02	8.15E-02	5.38E-02	166.44	117.84	1	1.67	0.25	3.95	15.45	249.15	20.77
13	2	7.77E-06	4.09E-02	1.28E-03	3.19E-02	1.41E-01	3.94E-02	2.87E-02	42.82	30.32	2	1.51	0.06	17.43	83.38	267.32	18.12
14	3	8.74E-06	3.29E-02	1.01E-03	4.42E-02	2.95E-01	2.50E-02	3.16E-02	70.73	40.92	2	1.24	0.05	14.04	39.94	117.81	18.92
16	8	2.72E-05	1.83E-02	5.31E-04	4.88E-02	8.38E-02	7.61E-02	4.89E-02	108.83	38.66	3	1.51	0.23	7.80	34.31	282.62	17.46
17	2	1.94E-05	5.86E-03	1.81E-04	4.50E-02	3.52E-01	1.07E-01	5.92E-02	118.76	84.09	1	1.33	0.38	2.50	7.55	183.15	16.92
18	2	7.77E-06	2.70E-02	7.55E-04	5.47E-02	7.90E-02	6.85E-02	4.12E-02	64.85	45.91	1	1.43	0.29	11.49	49.29	321.52	15.70
19	27	7.77E-06	6.69E-01	1.68E-02	5.27E-02	5.59E-02	5.74E-02	4.60E-02	35.36	6.90	2	1.38	0.37	285.19	1518.90	245.13	13.56
20	18	9.71E-06	5.83E-01	1.81E-02	7.25E-02	2.12E-01	5.57E-02	2.52E-02	21.66	5.17	2	1.58	0.35	248.53	1497.60	302.13	14.54
21	1	7.77E-06	2.85E-02	7.50E-04	2.55E-01	6.05E-01	2.79E-01	2.32E-01	30.74	30.75	1	1.57	0.40	12.16	57.39	316.27	13.30
22	8	4.85E-05	2.21E-02	5.90E-04	6.05E-02	1.77E-01	5.98E-02	4.10E-02	50.73	18.02	2	1.70	0.19	9.41	33.14	235.03	13.47
23	14	4.85E-05	3.05E-02	8.09E-04	6.55E-02	2.49E-01	4.10E-02	6.07E-02	64.19	17.29	1	1.65	0.29	13.00	45.03	233.18	14.27
24	3	1.94E-05	2.53E-02	7.12E-04	8.98E-02	1.68E-01	1.01E-01	1.11E-01	41.54	24.02	2	1.58	0.18	10.78	33.96	205.66	13.63
25	5	2.91E-05	1.69E-02	4.93E-04	5.08E-02	1.97E-01	6.21E-02	7.23E-02	68.93	30.92	2	1.21	0.35	7.21	20.35	188.85	16.46

Mean Dpar = 1.48
 Mean Dper = 0.27
 Modified Zeta = 13.642+/- 0.267
 Mean 29Si b:s = 0.067
 Mean 43Ca b:s = 0.067
 Mean 238U b:s = 0.413
 Number of grains= 24
 Chi-squared = 1404.3
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 62.4+/- 4.4

950-42

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	21	1.94E-05	1.34E-01	2.95E-03	3.38E-01	4.33E-01	3.77E-01	3.84E-01	55.68	12.26	4	1.62	0.62	56.22	101.97	456.51	14.53
2	35	3.88E-05	1.19E-01	2.87E-03	2.65E-01	3.92E-01	3.15E-01	2.59E-01	52.14	8.96	4	1.71	0.38	50.04	124.33	505.06	18.70
3	15	1.46E-05	1.54E-01	3.86E-03	6.23E-02	1.25E-01	1.20E-01	8.17E-02	46.08	11.99	3	1.63	0.88	64.75	137.88	486.89	17.35
4	36	3.88E-05	1.05E-01	2.68E-03	4.92E-02	6.89E-02	4.17E-02	6.22E-02	61.02	10.36	4	1.75	0.32	43.96	69.31	439.56	16.72
5	7	1.21E-05	1.43E-01	3.40E-03	5.87E-02	1.62E-01	6.89E-02	8.27E-02	28.01	10.62	4	1.60	0.63	59.74	113.85	551.99	16.16
6	15	1.75E-05	1.21E-01	2.93E-03	6.28E-02	2.15E-01	7.16E-02	7.07E-02	48.97	12.73	2	1.93	0.32	50.77	114.89	429.12	16.40
7	5	1.75E-05	3.88E-02	8.12E-04	2.67E-01	6.62E-01	2.76E-01	3.30E-01	50.99	22.85	3	1.64	0.63	16.25	37.49	400.44	13.00
8	15	2.91E-05	3.49E-02	8.79E-04	5.12E-02	1.69E-01	6.09E-02	5.79E-02	101.51	26.41	4	1.93	0.34	14.63	29.77	379.86	16.59
9	23	1.46E-05	1.24E-01	3.36E-03	3.70E-02	4.82E-02	4.07E-02	2.70E-02	87.52	18.48	2	2.23	0.89	52.11	97.91	565.36	16.97
10	19	1.94E-05	1.01E-01	2.59E-03	3.82E-02	7.34E-02	4.23E-02	3.76E-02	66.71	15.45	4	1.99	0.52	42.43	79.71	394.10	15.64
11	11	1.16E-05	1.30E-01	3.08E-03	4.06E-02	8.55E-02	3.35E-02	1.85E-02	50.03	15.16	4	1.47	0.34	54.65	98.14	379.87	15.53
12	17	1.75E-05	5.47E-02	1.19E-03	6.93E-02	6.31E-02	4.39E-02	2.45E-02	122.10	29.83	2	2.01	0.63	22.94	31.73	294.28	11.62
13	26	2.91E-05	1.15E-01	2.30E-03	4.18E-02	2.88E-02	3.25E-02	2.12E-02	53.69	10.64	4	1.86	0.44	48.13	90.20	451.52	10.05
15	24	1.75E-05	1.85E-01	3.73E-03	3.57E-02	3.16E-02	2.73E-02	2.44E-02	51.31	10.57	2	1.70	0.19	77.50	113.11	532.20	10.59
16	65	2.43E-05	3.10E-01	6.90E-03	4.31E-02	6.39E-02	2.19E-02	4.03E-02	59.72	7.61	4	1.68	0.60	129.76	216.53	623.48	11.80
17	20	1.94E-05	1.91E-01	4.09E-03	3.77E-02	3.01E-02	3.52E-02	1.92E-02	37.24	8.40	3	1.69	0.33	80.17	123.70	532.58	11.36
18	21	1.75E-05	1.51E-01	3.05E-03	3.74E-02	4.21E-02	4.00E-02	3.99E-02	55.06	12.11	4	1.93	0.51	63.18	115.31	616.46	10.88
19	34	2.43E-05	1.88E-01	3.89E-03	4.14E-02	3.93E-02	2.91E-02	2.21E-02	51.57	8.96	4	2.01	0.32	78.64	159.84	533.84	11.09
20	23	3.88E-05	4.10E-02	8.81E-04	5.59E-02	1.65E-01	5.96E-02	3.75E-02	99.52	20.95	2	1.75	0.35	17.17	27.66	351.25	10.85
21	7	1.46E-05	1.31E-01	2.96E-03	6.18E-02	7.41E-02	6.41E-02	4.45E-02	25.45	9.65	4	2.05	0.59	54.80	108.37	505.23	11.38
22	41	3.88E-05	1.03E-01	2.15E-03	4.99E-02	1.70E-01	4.67E-02	3.21E-02	70.46	11.19	4	1.78	0.48	43.32	87.28	410.75	11.33
23	16	2.91E-05	5.07E-02	1.02E-03	3.42E-02	1.80E-01	2.71E-02	1.86E-02	74.74	18.80	2	1.45	0.28	21.25	35.71	367.17	10.38
24	10	1.94E-05	1.19E-01	2.53E-03	3.57E-02	5.96E-02	9.20E-02	2.34E-02	29.87	9.49	2	1.52	0.59	50.00	83.74	396.99	11.03
25	6	2.43E-05	7.71E-02	1.81E-03	3.20E-02	3.66E-02	4.53E-02	2.28E-02	22.20	9.09	1	1.99	0.53	32.31	29.53	265.92	12.25

Mean Dpar = 1.79
 Mean Dper = 0.49
 Modified Zeta = 13.872+/- 0.268
 Mean 29Si b:s = 0.077
 Mean 43Ca b:s = 0.077
 Mean 238U b:s = 0.142
 Number of grains= 24
 Chi-squared = 54.6
 Chi-squared prob= 0.0002
Pooled Age (Ma) = 55.7+/- 2.7

950-43

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	18	1.70E-05	9.29E-02	2.62E-03	1.52E-02	1.70E-02	1.26E-02	1.34E-02	79.17	18.86	4	1.42	0.45	38.84	98.94	821.02	13.50
2	16	9.71E-06	2.16E-01	6.49E-03	2.03E-02	1.61E-02	1.39E-02	1.77E-02	53.12	13.42	3	1.79	0.51	90.23	114.57	467.94	14.10
3	9	1.16E-05	5.79E-02	1.65E-03	3.70E-02	5.92E-02	3.64E-02	3.38E-02	92.54	31.01	3	1.79	0.37	24.20	35.06	319.25	11.11
4	27	1.21E-05	3.10E-01	8.59E-03	1.80E-02	3.39E-02	3.21E-02	2.14E-02	49.88	9.75	4	1.66	0.32	129.73	68.14	552.64	14.13
8	19	1.75E-05	1.54E-01	4.79E-03	1.65E-02	2.61E-02	2.51E-02	1.80E-02	49.26	11.45	4	1.80	0.26	64.20	110.16	453.70	14.14
9	38	3.49E-05	1.73E-01	4.40E-03	3.79E-02	1.51E-01	1.31E-01	6.84E-02	43.85	7.25	4	1.98	0.22	72.15	40.17	413.17	11.67
10	7	7.28E-06	6.83E-02	1.96E-03	2.11E-02	4.93E-02	2.94E-02	1.66E-02	97.61	37.05	4	2.20	0.41	28.54	48.91	340.17	13.22
11	1	9.71E-06	1.21E-02	3.69E-04	1.35E-02	6.68E-01	4.81E-02	1.53E-02	59.06	59.10	2	2.11	0.44	5.07	15.03	301.83	15.04
12	9	5.82E-06	2.19E-01	6.14E-03	3.02E-02	2.54E-02	5.21E-02	2.02E-02	49.07	16.44	2	1.43	0.61	91.59	81.86	412.40	12.79
13	1	9.71E-06	4.98E-02	1.56E-03	4.37E-02	2.12E-01	5.04E-02	3.58E-02	14.42	14.43	1	2.01	0.63	20.83	30.61	292.61	15.44
14	3	1.16E-05	1.37E-02	3.61E-04	1.34E-01	3.18E-01	1.47E-01	1.03E-01	129.95	75.15	2	1.93	0.64	5.73	10.72	122.90	12.57
15	6	9.71E-06	3.21E-02	8.52E-04	1.32E-02	4.51E-02	3.44E-02	1.76E-02	132.97	54.46	2	1.59	0.33	13.43	26.82	554.91	11.35
16	20	2.91E-05	1.38E-01	3.49E-03	1.60E-02	1.77E-02	1.52E-02	1.08E-02	34.59	7.81	3	2.06	0.87	57.81	120.42	611.83	10.35
17	8	8.74E-06	5.11E-02	1.62E-03	6.53E-02	2.92E-01	6.74E-02	4.95E-02	123.86	44.04	3	2.28	0.53	21.38	48.93	382.40	15.00
18	10	9.71E-06	1.32E-01	3.24E-03	1.03E-02	2.79E-02	1.20E-02	7.57E-03	54.38	17.28	4	2.26	0.55	55.07	113.79	678.88	10.35
19	2	7.28E-06	1.33E-01	3.57E-03	1.28E-02	1.04E-01	1.83E-02	2.58E-02	14.42	10.21	2	1.69	0.42	55.55	54.45	328.26	11.68
20	1	4.37E-06	2.38E-02	7.93E-04	5.74E-02	5.48E-02	3.98E-02	3.29E-02	66.74	66.79	1	1.60	0.33	9.96	50.77	258.96	17.42
21	34	2.91E-05	1.19E-01	3.60E-03	1.89E-02	1.49E-02	1.06E-02	1.22E-02	68.31	11.97	4	1.57	0.28	49.64	67.31	367.22	14.07

23	10	9.71E-06	1.24E-01	3.53E-03	2.86E-02	1.13E-01	3.41E-02	1.97E-02	57.74	18.37	4	1.91	0.70	51.85	112.05	539.22	13.74
24	7	1.02E-05	1.19E-01	3.20E-03	9.77E-03	1.26E-02	1.24E-02	3.65E-03	40.31	15.30	4	2.34	0.56	49.58	100.09	536.32	12.20
25	11	1.02E-05	8.71E-02	2.43E-03	2.49E-02	9.21E-02	5.43E-02	3.75E-02	86.00	26.10	4	2.05	0.58	36.39	96.56	667.15	14.80

Mean Dpar = 1.88
 Mean Dper = 0.48
 Modified Zeta = 13.970+/- 0.275
 Mean 29Si b:s = 0.031
 Mean 43Ca b:s = 0.031
 Mean 238U b:s = 0.112
 Number of grains= 21
 Chi-squared = 36.8
 Chi-squared prob= 0.0123

Pooled Age (Ma) = 53.7+/- 3.5

950-44

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	9.71E-06	6.76E-03	1.95E-04	2.45E-01	5.04E-01	4.73E+00	2.55E-01	106.29	106.35	2	1.80	0.52	2.81	0.84	156.75	11.79
2	9	3.11E-05	4.47E-02	1.19E-03	8.08E-02	8.03E-02	8.00E-02	7.63E-02	45.46	15.23	3	2.01	0.56	18.56	6.69	66.33	12.34
3	5	2.43E-05	4.39E-02	1.23E-03	1.20E-01	2.98E-01	1.52E-01	1.20E-01	32.93	14.77	4	2.46	0.69	18.24	39.84	137.28	12.89
4	4	4.85E-05	6.84E-03	1.84E-04	2.15E-01	1.55E+00	2.95E-01	2.20E-01	84.16	42.17	2	1.73	0.20	2.84	12.81	131.37	11.05
6	18	3.88E-05	4.48E-02	9.94E-04	2.96E-01	3.99E-01	3.30E-01	3.20E-01	72.31	17.18	4	2.26	0.72	18.62	6.52	62.13	8.96
8	13	1.75E-05	4.02E-02	1.28E-03	1.13E-01	2.04E-01	2.40E-01	1.56E-01	128.96	36.09	4	2.16	0.66	16.69	3.45	48.35	14.41
9	3	2.04E-05	4.51E-03	1.28E-04	6.79E-02	1.42E-01	7.78E-02	7.20E-02	225.27	130.29	2	1.51	0.35	1.88	49.63	213.87	14.06
10	7	1.21E-05	5.37E-02	1.52E-03	7.57E-02	1.40E-01	8.51E-02	6.15E-02	75.11	28.51	4	1.96	0.62	22.31	6.64	71.62	13.00
11	4	2.72E-05	4.00E-02	1.07E-03	2.93E-02	9.27E-02	1.06E-01	5.11E-02	25.85	12.95	3	1.96	0.78	16.60	4.09	66.92	12.85
12	3	9.71E-06	2.32E-02	6.49E-04	4.65E-02	9.79E-02	8.39E-02	6.65E-02	93.08	53.84	2	2.56	0.51	9.63	12.95	132.72	13.21
13	3	4.85E-05	8.83E-03	2.12E-04	2.70E-02	1.21E-01	3.67E-02	3.46E-02	49.05	28.36	2	2.36	0.70	3.67	2.41	67.21	10.07
14	7	1.75E-05	5.03E-02	1.22E-03	2.46E-02	1.91E-01	8.11E-02	2.59E-02	55.79	21.16	4	2.23	0.61	20.89	12.27	71.05	9.19
15	4	2.43E-05	9.35E-03	2.31E-04	3.03E-02	5.21E-01	4.28E-02	4.48E-02	122.73	61.49	2	2.35	0.70	3.89	8.17	481.09	10.75
16	6	2.43E-05	4.14E-02	1.07E-03	4.68E-02	2.33E-01	7.87E-02	5.70E-02	41.87	17.15	3	2.14	0.83	17.20	5.27	59.61	12.20
17	5	1.75E-05	1.52E-02	4.28E-04	4.87E-02	2.84E-01	1.09E-01	7.52E-02	130.80	58.67	2	2.29	0.85	6.33	9.22	90.70	12.11
18	12	4.85E-05	4.51E-02	1.18E-03	4.12E-02	5.19E-02	4.91E-02	2.65E-02	38.42	11.16	3	2.05	0.54	18.75	4.84	66.79	12.05
19	6	4.85E-05	4.27E-02	1.15E-03	1.03E-01	2.74E-01	1.19E-01	9.60E-02	20.34	8.33	3	1.57	0.37	17.73	6.68	67.91	12.84
21	7	3.88E-05	1.03E-02	2.96E-04	4.60E-02	1.61E-01	5.82E-02	4.92E-02	121.37	46.07	3	2.25	0.61	4.30	3.76	45.52	12.38
22	6	1.75E-05	2.37E-02	6.38E-04	3.15E-02	7.93E-02	6.32E-02	5.37E-02	101.05	41.39	2	2.42	0.65	9.85	30.91	138.21	12.98
23	5	1.46E-05	2.60E-02	7.14E-04	3.31E-02	5.93E-02	1.02E-01	3.57E-02	92.38	41.43	2	2.10	0.79	10.78	22.20	71.59	12.06
24	78	1.94E-05	3.39E-01	8.01E-03	1.93E-02	2.69E-02	2.91E-02	1.78E-02	82.81	9.72	4	2.34	0.87	140.84	162.92	1022.40	9.48
25	12	4.85E-05	4.88E-02	1.23E-03	1.15E-02	9.61E-03	1.10E-02	8.66E-03	35.54	10.32	4	2.01	0.75	20.27	6.14	66.05	9.91

Mean Dpar = 2.11
 Mean Dper = 0.63
 Modified Zeta = 14.063+/- 0.277
 Mean 29Si b:s = 0.080
 Mean 43Ca b:s = 0.080
 Mean 238U b:s = 0.251
 Number of grains= 22
 Chi-squared = 51.3
 Chi-squared prob= 0.0002

Pooled Age (Ma) = 62.1+/- 4.4

950-45

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	6	2.91E-05	3.78E-02	1.15E-03	5.90E-02	1.12E-01	2.62E-01	5.18E-02	39.86	16.34	4	1.44	0.18	14.98	25.85	400.73	15.46
2	9	3.88E-05	5.78E-02	1.77E-03	8.75E-02	7.45E-02	3.75E-02	2.46E-02	29.32	9.83	4	1.48	0.28	22.93	44.92	527.46	13.42
3	7	3.11E-05	5.20E-02	1.45E-03	2.62E-02	7.14E-03	1.43E-02	1.10E-02	31.66	12.01	2	1.51	0.18	20.64	48.04	425.47	12.93
4	7	4.85E-05	5.80E-02	1.73E-03	3.62E-02	3.48E-02	3.01E-02	2.70E-02	18.20	6.91	3	1.50	0.18	23.00	49.89	499.48	13.02
5	9	1.94E-05	5.88E-02	1.87E-03	3.14E-02	7.70E-02	4.05E-02	2.57E-02	57.46	19.27	3	1.69	0.30	23.35	42.12	449.82	19.40

7	3	3.40E-05	5.82E-02	1.99E-03	5.22E-02	1.22E-01	5.23E-02	4.49E-02	11.11	6.43	2	1.34	0.11	23.08	50.65	471.50	17.71
8	5	1.75E-05	5.62E-02	1.84E-03	2.96E-02	7.92E-02	3.19E-02	2.21E-02	37.20	16.70	2	1.54	0.33	22.30	54.86	431.45	18.18
9	4	2.91E-05	4.74E-02	1.47E-03	3.77E-02	7.28E-02	3.85E-02	3.48E-02	21.17	10.62	4	1.53	0.18	18.83	43.64	427.24	17.45
10	4	2.91E-05	3.91E-02	1.46E-03	5.99E-02	3.22E-01	5.78E-02	5.87E-02	25.71	12.90	2	1.53	0.05	15.50	37.97	435.12	20.44
11	4	2.43E-05	3.49E-02	1.32E-03	4.82E-02	3.64E-01	5.12E-02	4.24E-02	34.48	17.30	2	1.75	0.30	13.86	33.85	427.38	19.36
12	7	2.91E-05	7.45E-02	2.46E-03	7.12E-02	1.75E-01	4.50E-02	4.55E-02	23.60	8.97	2	1.47	0.37	29.56	74.48	454.20	16.30

Mean Dpar = 1.53
 Mean Dper = 0.22
 Modified Zeta = 14.652+/- 0.292
 Mean 29Si b:s = 0.049
 Mean 43Ca b:s = 0.049
 Mean 238U b:s = 0.131
 Number of grains= 11
 Chi-squared = 10.7
 Chi-squared prob= 0.3801
Pooled Age (Ma) = 27.3+/- 3.4

950-46

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	7.77E-06	8.67E-03	2.47E-04	7.73E-02	5.58E-01	1.25E-01	9.56E-02	104.99	105.05	1	1.77	0.43	3.56	10.97	73.67	12.27
2	5	1.16E-05	1.46E-02	3.92E-04	1.01E-01	2.09E-01	1.30E-01	1.18E-01	206.74	92.71	3	2.30	0.65	5.98	26.44	205.19	12.30
3	1	7.77E-06	1.43E-02	4.11E-04	7.10E-02	2.16E-01	1.42E-01	9.17E-02	63.95	63.99	1	2.13	0.60	5.86	11.41	65.56	13.11
4	4	7.77E-06	5.84E-02	1.60E-03	8.82E-02	2.49E-01	2.04E-01	2.36E-01	62.53	31.34	2	1.69	0.70	23.98	38.10	114.31	13.38
5	2	1.55E-05	1.80E-02	4.36E-04	1.54E-01	2.35E-01	4.91E-01	1.79E-01	50.67	35.86	3	1.79	0.38	7.40	16.44	22.85	10.24
7	4	3.11E-05	1.19E-02	3.25E-04	3.00E-01	4.53E-01	4.55E-01	3.04E-01	76.79	38.48	3	1.53	0.54	4.88	8.14	60.34	12.64
8	4	3.40E-05	1.06E-02	3.05E-04	6.42E-02	1.29E-01	9.44E-02	5.92E-02	78.33	39.26	2	1.75	0.56	4.37	7.70	49.63	12.91
9	1	1.21E-05	4.22E-03	1.05E-04	5.03E-01	1.84E+00	6.28E-01	5.57E-01	137.50	137.57	2	1.36	0.57	1.73	6.54	53.30	8.59
10	0	9.71E-06	1.55E-02	3.87E-04	3.44E-02	1.95E-01	6.89E-02	5.34E-02	0.00	70.15	1	1.56	0.35	6.37	12.11	76.19	10.88
11	3	1.16E-05	1.09E-02	2.71E-04	2.10E-02	6.26E-02	3.85E-02	2.90E-02	166.51	96.28	2	1.95	0.44	4.47	20.47	164.43	9.33
12	5	1.70E-05	1.12E-01	3.12E-03	4.82E-02	9.19E-02	7.77E-02	7.12E-02	18.76	8.41	3	1.83	0.53	45.82	48.19	10.08	14.35
13	2	4.85E-05	1.42E-02	4.26E-04	6.03E-02	2.68E-01	9.08E-02	7.07E-02	20.67	14.64	1	1.42	0.40	5.82	13.71	94.18	14.58
14	2	1.36E-05	7.26E-03	1.89E-04	3.81E-02	9.80E-02	1.80E-01	5.37E-02	142.87	101.13	2	2.27	0.44	2.98	6.52	255.56	11.93
15	1	1.94E-05	1.86E-02	4.94E-04	4.15E-02	2.80E-01	1.34E-01	3.74E-02	19.66	19.67	1	1.57	0.49	7.65	25.14	70.69	11.12
16	10	4.37E-05	3.05E-02	8.32E-04	9.19E-03	1.64E-02	1.51E-02	6.53E-03	53.25	16.93	4	1.63	0.26	12.52	28.84	48.96	10.79
17	4	3.40E-05	8.22E-03	2.19E-04	6.55E-02	3.43E-01	1.18E-01	6.62E-02	101.27	50.74	2	1.90	0.50	3.37	7.84	61.69	10.18
18	1	7.77E-06	1.14E-02	2.94E-04	1.81E-02	1.83E-01	4.71E-02	1.12E-02	79.86	79.90	2	1.76	0.71	4.69	8.70	61.84	11.35
19	8	1.75E-05	1.42E-01	3.78E-03	2.25E-02	1.16E-01	2.63E-02	2.92E-02	22.93	8.14	4	1.36	0.21	58.31	68.27	18.12	11.47
20	0	4.37E-06	7.91E-03	2.03E-04	4.89E-02	2.32E-01	5.06E-02	6.87E-02	0.00	295.34	1	2.05	0.46	3.25	5.26	258.82	10.84
21	2	9.71E-06	1.62E-02	4.59E-04	5.43E-02	1.46E-01	7.36E-02	5.71E-02	90.02	63.73	1	1.98	0.25	6.65	11.99	67.91	12.28
22	2	4.85E-05	1.37E-02	3.78E-04	5.31E-02	1.61E-01	6.88E-02	5.72E-02	21.44	15.18	2	1.76	0.68	5.61	10.53	67.20	12.54
23	2	2.91E-05	9.58E-03	2.49E-04	1.63E-02	9.70E-02	5.71E-03	9.98E-03	50.86	36.00	2	2.23	0.56	3.93	6.43	41.57	9.19
24	5	4.85E-05	1.14E-02	2.99E-04	1.09E-01	3.88E-01	1.55E-01	1.36E-01	63.91	28.66	4	2.03	0.57	4.69	21.03	177.37	11.55
25	3	3.40E-05	1.37E-02	3.45E-04	3.22E-02	4.74E-02	3.31E-02	2.80E-02	45.85	26.51	2	1.69	0.67	5.61	9.42	62.55	10.98

Mean Dpar = 1.80
 Mean Dper = 0.50
 Modified Zeta = 14.249+/- 0.282
 Mean 29Si b:s = 0.085
 Mean 43Ca b:s = 0.085
 Mean 238U b:s = 0.276
 Number of grains= 24
 Chi-squared = 40.5
 Chi-squared prob= 0.0135
Pooled Age (Ma) = 44.4+/- 5.3

950-47

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
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1	4	3.40E-05	2.33E-02	7.06E-04	1.64E-01	4.03E-01	2.02E-01	1.64E-01	37.45	18.77	4	1.65	0.50	9.11	15.73	125.89	21.71
2	3	1.46E-05	3.20E-02	9.20E-04	1.78E-01	1.94E-01	2.81E-01	1.54E-01	47.59	27.52	2	1.41	0.31	12.54	1.24	15.36	19.99
3	12	1.21E-05	1.50E-01	5.04E-03	1.72E-01	1.98E-01	2.02E-01	2.57E-01	48.65	14.17	3	1.73	0.36	58.87	1.47	20.82	18.89
4	5	1.94E-05	1.77E-02	4.86E-04	3.04E-01	1.75E-01	1.84E-01	2.84E-01	107.29	48.12	2	1.41	0.42	6.92	2.64	33.29	17.16
5	1	1.21E-05	1.82E-02	5.67E-04	2.49E-01	3.65E-01	2.70E-01	1.68E-01	33.46	33.48	1	1.47	0.29	7.14	7.25	178.27	15.51
6	0	9.71E-06	9.17E-03	2.90E-04	2.13E-01	4.47E-01	3.05E-01	2.41E-01	0.00	122.63	1	1.54	0.29	3.59	3.85	78.44	17.23
7	3	2.91E-05	2.05E-02	6.93E-04	8.26E-02	3.72E-01	1.20E-01	9.86E-02	37.23	21.54	2	1.58	0.26	8.02	4.56	90.08	21.64
8	1	9.71E-06	6.31E-03	1.75E-04	2.00E-01	6.56E-01	2.11E-02	1.13E-01	119.88	119.95	1	1.91	0.29	2.47	0.39	57.77	16.67
9	8	1.16E-05	1.79E-01	4.63E-03	4.53E-01	5.31E-01	8.23E-01	5.30E-01	28.37	10.07	3	1.66	0.25	70.22	7.26	84.91	13.16
10	0	1.70E-05	3.46E-03	9.32E-05	1.53E-01	6.01E-01	1.83E+01	4.11E-01	0.00	183.83	1	1.48	0.45	1.36	0.13	95.43	19.74
11	5	1.46E-05	2.56E-02	7.12E-04	1.35E-01	3.49E-01	1.52E-02	1.43E-01	98.58	44.21	2	1.74	0.26	10.05	2.80	33.26	18.41
12	1	8.74E-06	1.77E-03	1.05E-04	3.78E-02	9.12E-02	2.63E-01	2.72E-01	463.64	464.55	1	1.77	0.21	0.69	13.27	12.25	18.26
13	0	9.71E-06	2.20E-02	6.48E-04	2.71E-01	2.96E-01	3.48E-01	2.75E-01	0.00	51.67	1	1.53	0.09	8.62	4.34	24.13	17.49
14	3	1.21E-05	2.04E-02	6.14E-04	8.29E-02	2.05E-01	1.77E-01	1.02E-01	89.24	51.62	2	1.47	0.51	8.00	5.27	81.36	20.55
15	0	9.71E-06	1.27E-01	3.74E-03	1.18E-01	1.42E-01	8.75E-02	6.87E-02	0.00	9.00	1	1.60	0.21	49.82	25.31	46.18	17.31
16	1	1.21E-05	1.38E-02	3.45E-04	1.07E-01	8.52E-01	1.13E-01	7.93E-02	44.29	44.32	1	2.14	0.63	5.39	11.06	116.82	14.62
17	1	1.46E-05	2.69E-02	7.54E-04	1.07E-01	2.66E-01	1.27E-01	1.30E-01	18.90	18.91	1	1.46	0.53	10.55	3.81	29.01	16.50
18	1	1.21E-05	9.99E-03	2.64E-04	2.76E-02	3.00E-02	6.84E-02	8.94E-03	60.91	60.94	1	1.73	0.42	3.91	6.50	151.08	12.96
19	3	1.16E-05	2.45E-02	6.07E-04	2.28E-02	7.65E-04	3.91E-02	5.54E-02	77.60	44.87	2	1.28	0.07	9.59	4.11	33.46	12.66
20	1	1.16E-05	1.28E-02	3.61E-04	2.30E-02	2.62E-02	9.33E-02	1.81E-02	49.43	49.46	1	1.45	0.33	5.03	2.81	98.36	13.46
21	4	1.75E-05	1.99E-02	5.24E-04	2.94E-02	2.60E-02	4.03E-02	1.38E-02	84.56	42.37	3	1.77	0.31	7.82	8.81	135.41	12.32
22	0	1.46E-05	1.57E-02	4.65E-04	3.43E-02	3.01E-02	5.02E-02	2.10E-02	0.00	48.20	2	1.51	0.31	6.17	5.72	82.36	16.42
23	1	1.16E-05	3.67E-02	1.04E-03	4.78E-02	8.82E-02	9.03E-02	7.90E-02	17.32	17.33	1	1.52	0.71	14.39	11.67	87.71	18.22
24	1	1.21E-05	3.00E-02	9.56E-04	5.92E-02	2.92E-02	5.62E-02	3.04E-02	20.32	20.34	1	1.91	0.09	11.77	11.58	106.14	19.02
25	1	1.21E-05	5.22E-03	1.51E-04	1.46E-01	2.44E-01	2.31E-01	1.55E-01	115.98	116.05	1	1.90	0.21	2.05	3.57	103.60	18.77
26	0	1.21E-05	1.28E-04	6.98E-06	1.26E-01	5.06E+01	4.42E-01	1.79E-01	0.00	3765.26	1	1.30	0.23	0.05	0.09	26.55	20.32
27	1	2.04E-05	1.23E-02	3.71E-04	6.94E-02	6.46E-02	1.55E-01	5.60E-02	29.62	29.64	1	1.99	0.59	4.80	0.86	66.98	18.76
28	1	1.21E-05	5.71E-02	1.59E-03	4.63E-02	4.98E-02	8.32E-02	5.88E-02	10.69	10.69	1	1.54	0.52	22.40	2.25	38.85	17.72
29	9	1.21E-05	2.10E-01	5.93E-03	7.17E-02	2.65E-02	1.48E-02	1.42E-02	26.13	8.76	4	2.32	0.39	82.33	97.88	242.27	15.67
30	2	1.70E-05	2.25E-02	6.13E-04	2.49E-02	3.94E-03	2.59E-02	1.10E-02	38.65	27.36	4	1.27	0.44	8.83	14.75	122.05	12.64

Mean Dpar = 1.63
 Mean Dper = 0.35
 Modified Zeta = 14.833+/- 0.291
 Mean 29Si b:s = 0.125
 Mean 43Ca b:s = 0.125
 Mean 238U b:s = 1.910
 Number of grains= 30
 Chi-squared = 33.9
 Chi-squared prob= 0.2431
Pooled Age (Ma) = 35.9+/- 4.3

950-48

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	4	3.88E-05	1.72E-02	5.22E-04	2.83E-01	9.89E-01	6.20E-01	4.43E-01	40.56	20.33	2	1.46	0.24	7.36	17.97	93.92	16.28
2	6	4.85E-05	1.27E-02	4.47E-04	2.94E-01	1.29E+00	7.16E-01	6.54E-01	65.44	26.85	3	1.70	0.23	5.47	23.98	38.98	13.83
3	4	3.11E-05	1.28E-02	3.95E-04	2.14E-01	4.41E-01	2.38E-01	2.06E-01	67.77	33.98	2	1.86	0.37	5.50	18.32	257.43	16.89
4	2	4.37E-05	4.86E-03	1.50E-04	1.48E-01	5.37E-01	0.00E+00	1.86E-01	63.54	44.99	2	1.87	0.42	2.09	0.00	132.79	17.11
5	6	2.91E-05	1.10E-02	3.20E-04	1.64E-01	5.08E-01	1.94E-01	1.53E-01	125.57	51.45	4	1.73	0.47	4.73	18.39	90.71	15.89
6	4	4.37E-05	2.02E-02	6.01E-04	8.69E-02	5.63E-01	8.77E-02	8.94E-02	30.66	15.37	3	1.45	0.26	8.67	24.45	182.40	15.93
7	6	4.85E-05	9.92E-03	2.99E-04	1.19E-01	4.13E-01	7.83E-02	1.10E-01	83.99	34.42	2	1.77	0.51	4.25	16.75	220.99	16.93
8	6	4.85E-05	2.15E-02	6.76E-04	6.15E-02	6.12E-02	6.59E-02	5.89E-02	38.90	15.95	2	1.41	0.23	9.21	25.40	203.29	16.24
9	4	2.91E-05	1.50E-02	4.67E-04	3.96E-02	9.13E-02	6.42E-02	4.58E-02	61.76	30.96	3	1.45	0.31	6.44	19.36	102.50	16.15
10	3	3.88E-05	1.46E-02	4.24E-04	1.13E-01	7.58E-02	1.21E-01	1.25E-01	35.82	20.72	2	1.68	0.18	6.26	13.27	86.32	15.23
11	5	3.11E-05	8.89E-03	2.87E-04	4.74E-02	9.72E-02	6.55E-02	4.33E-02	121.61	54.58	3	1.79	0.45	3.81	11.04	218.75	15.76
12	5	3.88E-05	1.27E-02	3.73E-04	5.81E-02	1.40E-01	7.08E-02	4.30E-02	68.62	30.78	2	1.37	0.49	5.43	16.59	174.85	16.05
13	21	3.88E-05	2.48E-01	7.60E-03	5.99E-02	2.20E-01	8.81E-02	1.11E-01	14.80	3.27	4	1.48	0.29	106.16	59.17	15.06	17.12
14	10	4.85E-05	2.24E-02	7.33E-04	3.94E-02	3.64E-02	4.04E-02	3.09E-02	61.97	19.74	3	1.74	0.32	9.62	26.72	274.51	17.79
15	4	3.40E-05	6.79E-03	1.89E-04	3.93E-02	5.96E-01	4.58E-02	3.11E-02	116.59	58.43	2	1.77	0.46	2.91	15.75	134.78	13.58
16	5	4.85E-05	1.53E-02	4.02E-04	3.19E-02	2.37E-02	2.80E-02	1.80E-02	45.55	20.43	3	1.76	0.40	6.55	21.13	243.22	11.40
17	7	3.11E-05	1.69E-02	4.23E-04	3.47E-02	7.12E-02	4.27E-02	2.74E-02	89.57	33.97	2	1.54	0.38	7.27	24.42	208.05	10.40
18	7	3.88E-05	1.18E-02	3.09E-04	3.56E-02	6.91E-02	4.19E-02	3.67E-02	103.04	39.09	4	1.67	0.40	5.05	13.38	137.40	11.17

19	20	2.43E-05	7.23E-02	1.92E-03	3.00E-02	5.44E-03	1.11E-02	1.97E-01	76.81	17.36	4	1.68	0.18	31.02	31.68	4.73	10.62
20	8	3.49E-05	9.53E-03	2.51E-04	3.59E-02	6.78E-02	1.12E-01	1.79E-02	160.90	57.13	2	1.71	0.47	4.09	10.74	140.19	10.30
21	5	3.88E-05	1.27E-02	3.34E-04	3.40E-02	2.08E-02	3.14E-02	1.21E-02	68.58	30.75	3	1.38	0.41	5.43	15.79	253.00	11.07
22	1	2.33E-05	5.96E-02	1.50E-03	1.00E-01	1.22E-01	1.12E-01	7.38E-02	4.88	4.88	1	1.63	0.68	25.56	51.92	55.53	12.06
23	2	3.88E-05	1.19E-02	3.04E-04	5.01E-02	8.27E-02	3.22E-02	3.81E-02	29.30	20.74	1	1.59	0.57	5.10	16.06	135.19	10.47
24	2	2.91E-05	1.19E-02	3.90E-04	2.84E-02	2.06E-02	2.50E-02	2.38E-02	39.01	27.62	2	1.53	0.31	5.11	11.77	123.46	16.04
25	9	2.91E-05	1.81E-02	5.22E-04	2.25E-02	1.09E-02	1.65E-02	1.65E-02	114.62	38.42	3	1.80	0.37	7.77	20.66	105.28	14.39

Mean Dpar = 1.63
Mean Dper = 0.38
Modified Zeta = 13.563+/- 0.267
Mean 29Si b:s = 0.087
Mean 43Ca b:s = 0.087
Mean 238U b:s = 0.262
Number of grains= 25
Chi-squared = 92.5
Chi-squared prob= 0.0000
Pooled Age (Ma) = 43.3+/- 3.6

950-49

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	13	3.88E-05	4.53E-02	1.64E-03	2.93E-02	1.20E-01	1.53E-02	1.23E-02	48.91	13.72	3	2.01	0.50	19.83	29.02	116.13	13.67
2	3	1.94E-05	2.49E-02	8.92E-04	3.30E-02	2.70E-02	2.82E-02	2.89E-02	41.05	23.76	2	2.09	0.55	10.91	20.87	45.95	14.96
3	17	2.91E-05	6.80E-02	2.29E-03	4.08E-02	3.22E-02	3.16E-02	5.86E-02	56.70	13.93	4	1.68	0.45	29.80	32.73	34.85	13.22
4	12	1.94E-05	1.57E-01	5.34E-03	2.83E-02	3.00E-02	2.29E-02	6.12E-02	26.03	7.58	3	1.91	0.84	68.89	62.19	26.58	13.27
5	11	1.75E-05	3.51E-02	1.16E-03	2.68E-02	1.31E-02	9.41E-03	3.75E-02	117.84	35.82	4	1.73	0.42	15.39	33.70	29.88	13.86
6	7	4.37E-05	3.47E-02	1.16E-03	1.09E-01	1.95E-01	3.97E-02	5.44E-02	30.62	11.63	2	1.60	0.67	15.18	30.14	134.68	13.73
7	4	1.75E-05	1.25E-02	4.48E-04	5.16E-02	2.83E-01	2.85E-02	4.85E-02	120.74	60.58	2	1.73	0.64	5.46	25.75	61.65	14.08
8	10	1.16E-05	5.98E-02	2.00E-03	3.10E-02	2.45E-02	3.11E-02	3.53E-02	94.54	30.12	4	1.62	0.63	26.21	30.22	35.97	13.61
9	8	2.33E-05	3.15E-02	1.10E-03	5.45E-02	5.96E-02	2.90E-02	5.59E-02	71.87	25.57	2	1.53	0.19	13.81	25.41	44.50	14.39
10	3	1.31E-05	2.95E-02	1.06E-03	6.38E-02	6.80E-02	9.67E-02	8.39E-02	51.31	29.70	2	1.83	0.34	12.92	26.10	164.22	15.70
11	11	2.91E-05	9.99E-02	3.60E-03	2.38E-02	5.98E-02	2.66E-02	3.57E-02	25.04	7.62	2	2.06	0.39	43.76	36.79	32.09	18.29
12	10	2.91E-05	9.44E-02	3.93E-03	2.86E-02	3.38E-02	2.38E-02	5.82E-02	24.08	7.70	3	1.52	0.36	41.37	44.40	34.36	19.54
13	13	2.04E-05	1.30E-01	4.33E-03	2.23E-01	4.85E-01	2.35E-01	2.95E-01	32.35	9.06	3	1.77	0.66	57.17	63.61	55.86	13.81
14	5	2.43E-05	3.38E-02	1.34E-03	1.65E-01	2.94E-01	1.82E-01	1.64E-01	40.28	18.10	2	1.88	0.68	14.83	22.62	107.85	16.51
15	16	4.85E-05	7.22E-02	3.08E-03	2.37E-02	2.00E-02	2.24E-02	5.63E-02	30.25	7.70	4	1.53	0.27	31.61	41.36	32.92	18.20
16	4	2.43E-05	1.85E-04	1.61E-05	2.04E-01	3.23E+01	2.73E-01	1.58E-01	4196.00	2131.05	2	1.57	0.48	0.08	26.69	190.14	15.21
17	2	2.43E-05	1.66E-02	6.25E-04	2.41E-02	1.65E-01	2.47E-02	5.66E-02	32.94	23.33	2	1.61	0.26	7.26	6.02	15.66	17.75
18	9	2.91E-05	7.34E-02	2.82E-03	6.32E-02	2.42E-01	4.41E-02	5.81E-02	27.88	9.37	3	1.61	0.56	32.16	36.25	44.15	18.86
19	7	1.46E-05	3.20E-02	1.09E-03	2.23E-01	2.89E-01	3.50E-01	1.18E-01	99.01	37.63	2	1.41	0.26	14.01	31.39	19.11	14.53
20	17	1.70E-05	7.91E-02	3.18E-03	2.17E-02	2.66E-02	2.39E-02	2.19E-02	83.40	20.57	3	1.73	0.20	34.66	31.47	81.54	17.82
21	6	3.88E-05	1.73E-02	6.22E-04	5.03E-02	2.29E-01	4.15E-02	2.65E-02	59.03	24.22	2	2.03	0.89	7.58	17.35	185.79	15.58
22	17	3.40E-05	4.84E-02	1.68E-03	4.23E-02	5.42E-02	5.39E-02	6.44E-02	68.21	16.77	3	1.61	0.14	21.21	27.91	91.24	15.35
23	13	3.88E-05	6.63E-02	2.70E-03	5.27E-02	5.99E-02	7.33E-02	8.52E-02	33.42	9.39	2	1.61	0.19	29.05	41.55	31.20	15.77
24	2	1.70E-05	1.58E-02	5.87E-04	6.77E-02	1.99E-01	8.84E-02	7.59E-02	49.12	34.79	1	1.27	0.54	6.94	16.35	62.96	16.89
25	7	3.88E-05	2.36E-02	8.80E-04	3.78E-02	4.96E-02	2.68E-02	3.72E-02	50.48	19.20	2	2.10	0.85	10.34	26.55	59.50	13.76

Mean Dpar = 1.72
 Mean Dper = 0.48
 Modified Zeta = 13.273+/- 0.266
 Mean 29Si b:s = 0.069
 Mean 43Ca b:s = 0.069
 Mean 238U b:s = 1.413
 Number of grains= 25
 Chi-squared = 150.9
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 43.5+/- 3.0

950-50

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	1.75E-05	1.01E-02	3.75E-04	4.28E-02	4.25E-02	5.51E-02	3.96E-02	37.73	37.77	1	2.39	0.72	4.40	7.52	120.13	18.89
4	0	1.94E-05	1.52E-02	5.48E-04	5.65E-02	5.54E-02	1.53E-01	6.59E-02	0.00	33.78	1	1.85	0.56	6.62	11.85	130.91	18.07
5	1	7.77E-06	1.35E-02	4.90E-04	4.33E-02	4.54E-02	3.93E-02	2.40E-02	63.44	63.49	1	1.93	0.57	5.87	10.95	155.35	17.97
6	3	1.36E-05	1.05E-02	3.54E-04	4.98E-02	1.35E-01	1.09E-01	5.57E-02	139.37	80.65	1	1.20	0.58	4.56	5.24	128.01	16.77
7	1	1.21E-05	1.52E-02	5.49E-04	7.76E-02	9.33E-02	1.06E-01	9.07E-02	36.17	36.20	1	2.17	0.76	6.61	11.28	111.79	17.38
8	1	1.94E-05	1.34E-02	5.02E-04	3.82E-02	8.06E-02	3.09E-02	3.08E-02	25.63	25.65	1	2.24	0.90	5.83	9.56	117.42	16.56
9	1	1.31E-05	1.22E-02	4.28E-04	3.54E-02	5.07E-02	8.94E-02	3.55E-02	41.51	41.54	1	2.91	0.76	5.33	8.32	112.07	15.70
10	1	2.43E-05	1.00E-02	3.45E-04	5.11E-02	8.11E-02	5.68E-02	5.70E-02	27.41	27.44	1	2.44	0.71	4.36	6.85	45.64	14.66
11	2	3.40E-05	6.82E-03	2.42E-04	4.85E-02	4.09E-01	3.17E-02	2.69E-02	57.36	40.63	2	1.95	1.03	2.97	6.26	87.37	14.82
12	2	2.91E-05	7.31E-04	3.46E-05	4.88E-02	3.27E+00	2.33E-02	5.95E-02	598.70	424.46	1	1.86	0.54	0.32	5.25	135.92	13.62
14	2	2.91E-05	1.32E-02	4.05E-04	4.30E-02	2.97E-02	5.07E-02	3.71E-02	34.61	24.50	1	2.28	0.95	5.75	8.59	101.73	13.87
15	1	2.91E-05	6.59E-03	2.34E-04	3.52E-02	2.36E-01	5.89E-02	3.12E-02	34.71	34.74	1	2.18	1.17	2.87	7.68	124.54	12.70
16	1	9.71E-06	1.27E-02	3.92E-04	3.05E-02	1.20E-02	4.52E-02	2.48E-02	53.78	53.82	1	1.99	0.62	5.55	8.16	122.92	11.74
17	1	2.04E-05	1.03E-02	3.40E-04	4.20E-02	3.87E-01	8.46E-02	6.00E-02	31.86	31.89	2	2.61	0.60	4.47	6.64	95.42	13.77
18	2	1.46E-05	1.33E-02	3.39E-04	1.22E-01	2.77E-01	2.64E-01	1.57E-01	68.71	48.64	2	2.28	0.78	5.78	13.86	167.81	8.81
19	4	2.91E-05	1.92E-02	7.04E-04	4.44E-02	6.07E-02	5.99E-02	4.39E-02	47.53	23.85	1	1.83	0.95	8.37	9.93	127.71	16.53
20	1	2.43E-05	8.45E-03	3.11E-04	2.58E-02	2.45E-01	3.74E-02	1.86E-02	32.47	32.50	1	2.03	0.81	3.68	7.12	106.42	13.91

21	1	3.88E-05	7.92E-03	2.76E-04	5.51E-02	4.46E-01	5.59E-02	5.88E-02	21.68	21.70	2	2.06	0.51	3.45	7.17	127.49	16.15
22	2	2.33E-05	8.92E-03	3.00E-04	3.01E-02	2.11E-01	7.59E-02	2.33E-02	63.97	45.30	2	2.68	0.98	3.88	6.79	114.48	15.15
23	1	1.75E-05	1.10E-02	3.88E-04	4.68E-02	5.98E-02	8.34E-02	4.30E-02	34.71	34.74	1	2.58	0.87	4.78	7.46	141.88	16.45
24	0	2.43E-05	6.93E-03	2.50E-04	3.80E-02	4.90E-02	9.32E-02	4.41E-02	0.00	58.99	1	1.91	0.09	3.02	4.72	127.43	15.73
25	3	2.91E-05	9.67E-03	3.29E-04	6.78E-02	2.95E-01	6.87E-02	5.85E-02	70.74	40.94	2	2.55	1.08	4.21	7.08	129.61	16.45

Mean Dpar = 2.18
 Mean Dper = 0.75
 Modified Zeta = 13.352+/- 0.267
 Mean 29Si b:s = 0.049
 Mean 43Ca b:s = 0.049
 Mean 238U b:s = 0.299
 Number of grains= 22
 Chi-squared = 21.3
 Chi-squared prob= 0.4420
Pooled Age (Ma) = 44.0+/- 7.8

950-51

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	3	2.91E-05	7.69E-03	2.04E-04	9.88E-02	3.23E-01	2.09E-01	9.99E-02	91.12	52.69	2	1.65	0.28	3.26	3.05	185.23	13.90
2	10	3.40E-05	4.81E-02	1.23E-03	4.04E-02	1.39E-01	4.67E-02	3.79E-02	41.81	13.29	3	1.72	0.60	20.41	42.85	407.92	13.42
3	9	3.88E-05	8.08E-02	2.09E-03	8.63E-02	8.16E-02	7.43E-02	1.01E-01	19.62	6.57	4	1.74	0.59	34.30	68.78	442.78	12.37
4	6	2.91E-05	4.56E-02	1.07E-03	4.41E-02	2.31E-02	2.16E-02	1.46E-02	30.83	12.62	2	1.33	0.54	19.39	41.22	331.29	10.77
5	9	4.85E-05	4.17E-02	1.02E-03	9.43E-02	3.60E-01	1.06E-01	1.05E-01	30.40	10.18	4	1.73	0.71	17.70	46.90	369.24	12.47
6	7	2.91E-05	4.81E-02	1.20E-03	3.46E-02	3.64E-02	3.03E-02	2.31E-02	34.14	12.95	2	1.73	0.26	20.42	39.16	337.98	12.16
7	12	3.40E-05	2.03E-03	7.04E-05	1.12E-01	4.28E+00	1.20E-01	8.10E-02	1094.89	319.06	3	1.78	0.41	0.86	62.83	453.52	11.77
8	8	2.62E-05	7.76E-02	1.73E-03	1.59E-01	1.93E-01	1.13E-01	9.98E-02	26.90	9.54	3	1.85	0.31	32.94	79.98	454.77	10.98
9	15	4.37E-05	5.13E-02	1.27E-03	6.46E-02	1.05E-01	9.35E-02	4.73E-02	45.63	11.87	3	1.67	0.23	21.81	35.01	310.51	12.29
10	7	2.91E-05	6.51E-02	1.52E-03	9.82E-02	2.09E-01	8.22E-02	8.81E-02	25.21	9.56	2	1.57	0.49	27.67	65.34	421.13	11.47
11	6	2.62E-05	5.89E-02	1.33E-03	1.11E-01	2.78E-01	1.17E-01	6.44E-02	26.55	10.87	3	1.52	0.41	25.03	59.80	421.25	10.46
12	8	3.11E-05	4.06E-02	1.02E-03	2.59E-02	1.01E-02	2.10E-02	6.44E-03	43.30	15.37	3	1.51	0.32	17.24	33.99	357.05	11.66
13	13	3.88E-05	5.14E-02	1.34E-03	8.44E-02	4.58E-02	5.96E-02	4.29E-02	44.47	12.42	4	1.98	0.35	21.82	41.63	410.18	12.42
14	11	3.40E-05	5.92E-02	1.41E-03	5.12E-02	9.22E-02	3.99E-02	3.52E-02	37.35	11.32	4	1.89	0.35	25.13	47.74	378.52	12.79
15	7	3.11E-05	4.98E-02	1.53E-03	4.12E-02	4.30E-02	4.75E-02	3.81E-02	30.92	11.74	4	1.33	0.24	21.14	44.90	389.38	15.33
16	5	2.33E-05	4.76E-02	1.24E-03	3.71E-02	7.98E-02	3.71E-02	4.29E-02	30.81	13.82	3	1.34	0.26	20.21	43.46	364.83	12.95
17	10	2.33E-05	5.20E-02	1.31E-03	3.74E-02	4.09E-02	5.81E-02	2.77E-02	56.23	17.87	4	1.76	0.23	22.10	43.23	374.98	13.68
18	1	3.40E-05	4.85E-03	1.53E-04	1.21E-01	2.83E-01	1.88E-01	1.56E-01	41.42	41.45	2	2.31	0.31	2.06	8.85	60.15	16.96
19	10	2.91E-05	5.77E-02	1.66E-03	6.82E-02	8.29E-02	6.68E-02	6.99E-02	40.65	12.93	4	1.84	0.59	24.49	42.23	303.21	15.29
20	11	3.88E-05	8.08E-02	2.46E-03	1.67E-01	1.94E-01	1.15E-01	1.08E-01	23.97	7.28	4	1.80	0.49	34.31	72.13	390.05	14.35
21	6	2.38E-05	6.05E-02	1.66E-03	7.61E-02	9.18E-02	6.48E-02	8.10E-02	28.51	11.68	4	1.68	0.24	25.67	43.23	310.46	16.24
22	9	2.91E-05	4.79E-02	1.34E-03	9.52E-02	4.48E-01	1.65E-01	8.70E-02	44.06	14.76	2	1.83	0.77	20.33	53.23	412.68	15.16
23	12	3.88E-05	4.41E-02	1.16E-03	9.73E-02	3.65E-01	8.13E-02	6.47E-02	47.81	13.89	3	1.62	0.60	18.73	45.05	358.21	14.28
24	5	2.04E-05	2.86E-02	7.42E-04	1.53E-01	3.80E-01	1.50E-01	1.01E-01	58.36	26.17	3	1.75	0.27	12.17	28.63	328.58	14.90
25	12	3.40E-05	6.25E-02	1.94E-03	5.50E-02	7.18E-02	9.21E-02	6.24E-02	38.58	11.23	4	1.74	0.60	26.55	46.31	378.42	16.81

Mean Dpar = 1.71
 Mean Dper = 0.42
 Modified Zeta = 13.694+/- 0.267
 Mean 29Si b:s = 0.082
 Mean 43Ca b:s = 0.082
 Mean 238U b:s = 0.330
 Number of grains= 25
 Chi-squared = 159.5
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 37.2+/- 2.7

950-52

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
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1	3	2.91E-05	1.89E-02	6.37E-04	2.64E-02	7.61E-03	1.84E-02	1.26E-02	35.96	20.81	2	1.15	0.64	8.30	29.54	287.54	13.04
2	0	7.28E-06	4.79E-03	1.63E-04	3.60E-02	8.95E-02	2.38E-02	2.19E-02	0.00	272.31	1	2.08	0.31	2.11	56.16	345.92	12.53
3	6	2.91E-05	4.77E-02	1.60E-03	9.38E-02	9.91E-01	6.53E-02	4.63E-02	28.51	11.69	3	1.62	0.30	20.96	33.39	288.08	13.02
5	4	2.91E-05	1.69E-02	5.73E-04	3.06E-02	3.34E-02	1.48E-02	1.70E-02	53.42	26.79	2	1.37	0.18	7.44	85.71	258.72	13.15
6	6	2.33E-05	9.27E-02	3.30E-03	5.54E-02	2.71E-01	6.29E-02	4.95E-02	18.34	7.52	3	1.83	0.18	40.77	57.68	262.36	13.10
7	1	1.46E-05	1.12E-02	3.40E-04	4.65E-02	1.69E-01	5.82E-02	2.68E-02	40.46	40.48	1	1.64	0.44	4.92	19.99	231.47	9.69
8	0	3.11E-05	3.84E-03	2.18E-04	2.83E-02	7.97E-01	2.77E-02	1.14E-02	0.00	82.14	1	1.81	0.06	1.69	45.72	259.04	13.50
9	0	1.70E-05	2.25E-03	8.11E-05	3.89E-02	1.58E-01	1.04E-01	1.27E-01	0.00	249.18	1	1.23	0.35	0.99	2.59	15.11	13.77
10	1	3.88E-05	3.62E-03	1.26E-04	2.96E-02	2.58E-02	8.90E-03	4.68E-03	46.82	46.85	1	1.57	0.24	1.59	40.44	293.01	12.67
11	2	1.21E-05	7.37E-02	2.54E-03	4.12E-02	8.61E-02	3.71E-02	2.40E-02	14.78	10.46	2	1.37	0.26	32.39	35.61	286.50	13.55
12	8	1.21E-05	1.54E-01	5.29E-03	2.50E-02	7.00E-03	8.22E-03	1.77E-02	28.27	10.06	2	1.25	0.13	67.64	62.49	84.24	13.51
13	6	1.46E-05	1.06E-01	3.94E-03	9.69E-02	2.31E-01	5.94E-02	5.83E-02	25.58	10.50	2	1.43	0.12	46.73	47.10	221.14	15.34
14	11	3.88E-05	4.42E-02	1.43E-03	9.44E-02	8.86E-01	5.92E-02	6.67E-02	42.25	12.84	3	1.53	0.34	19.43	40.35	385.01	13.66
15	0	2.33E-05	3.66E-03	1.39E-04	3.44E-02	8.12E-02	3.23E-02	2.10E-02	0.00	114.25	1	1.58	0.23	1.61	24.02	238.59	14.20
16	1	2.91E-05	5.63E-03	2.10E-04	2.50E-02	4.30E-03	5.88E-03	9.61E-03	40.22	40.25	1	1.50	0.37	2.47	37.31	298.01	13.82
17	3	2.91E-05	6.19E-02	2.31E-03	6.37E-02	1.05E-01	6.37E-02	3.93E-02	10.98	6.36	2	1.64	0.19	27.24	20.90	261.78	15.53
18	6	2.91E-05	8.24E-02	2.99E-03	5.01E-02	7.81E-02	4.10E-02	3.12E-02	16.51	6.78	2	1.86	0.36	36.23	44.39	341.86	15.91
19	3	1.46E-05	6.26E-02	2.48E-03	3.34E-02	4.29E-02	4.91E-02	1.23E-02	21.71	12.57	2	1.67	0.52	27.53	32.75	197.90	16.92
20	2	2.43E-05	4.53E-02	1.73E-03	4.60E-02	5.83E-02	9.01E-02	3.52E-02	12.00	8.50	1	1.59	0.39	19.94	21.85	184.59	16.90
21	17	2.43E-05	1.45E-01	5.32E-03	7.07E-02	1.21E-01	4.57E-02	4.75E-02	31.95	7.86	4	1.41	0.19	63.58	79.36	283.11	15.03
22	1	1.46E-05	6.87E-02	2.59E-03	1.06E-01	1.00E-01	4.67E-02	5.35E-02	6.61	6.61	1	1.67	0.19	30.20	28.11	356.19	16.13
23	9	4.85E-05	6.25E-02	2.21E-03	5.69E-02	7.01E-02	3.72E-02	2.77E-02	19.59	6.58	3	1.74	0.46	27.47	44.85	423.46	15.29
24	6	3.40E-05	1.78E-02	6.91E-04	5.31E-02	9.29E-02	4.78E-02	2.24E-02	65.14	26.74	2	1.57	0.37	7.84	8.29	121.89	16.26
25	1	1.46E-05	4.92E-02	1.99E-03	9.31E-02	1.93E-01	5.95E-02	5.26E-02	9.21	9.22	1	1.60	0.20	21.65	26.23	256.59	16.34

Mean Dpar = 1.57
 Mean Dper = 0.29
 Modified Zeta = 13.220+/- 0.266
 Mean 29Si b:s = 0.053
 Mean 43Ca b:s = 0.053
 Mean 238U b:s = 0.196
 Number of grains= 24
 Chi-squared = 22.6
 Chi-squared prob= 0.4854
Pooled Age (Ma) = 24.2+/- 2.5

950-53

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	3.40E-05	4.32E-03	1.22E-04	3.25E-02	4.67E-02	1.98E-02	1.32E-02	46.17	46.20	1	1.65	0.26	1.85	37.69	261.53	11.17
2	3	3.88E-05	8.03E-03	2.06E-04	3.25E-02	1.89E-02	1.58E-02	1.30E-02	65.07	37.63	3	1.48	0.08	3.44	45.56	246.57	11.89
3	3	3.88E-05	8.20E-03	1.94E-04	1.20E-01	1.40E-01	3.22E-02	3.68E-02	63.72	36.84	2	1.07	0.06	3.51	34.26	220.06	9.74
4	2	2.91E-05	2.46E-02	6.61E-04	2.92E-02	1.01E-02	2.19E-02	2.97E-02	18.93	13.40	1	1.17	0.35	10.54	17.49	92.12	11.35
5	4	3.88E-05	1.92E-02	4.96E-04	5.72E-02	6.97E-02	7.09E-02	5.63E-02	36.31	18.19	3	1.50	0.32	8.23	26.10	82.07	11.66
6	2	4.85E-05	8.62E-03	2.18E-04	4.35E-02	3.32E-02	4.77E-02	5.75E-02	32.39	22.93	2	1.27	0.18	3.69	23.17	39.49	11.30
7	1	4.85E-05	1.98E-02	4.69E-04	2.17E-01	2.99E-01	2.60E-01	1.97E-01	7.05	7.05	1	1.41	0.43	8.49	13.65	55.48	10.02
8	1	3.88E-05	1.68E-02	4.44E-04	7.60E-02	8.41E-02	1.10E-01	4.97E-02	10.42	10.42	1	1.65	0.51	7.18	14.27	177.73	10.91
9	2	4.85E-05	9.11E-03	2.33E-04	3.37E-02	1.91E-02	2.50E-02	2.50E-02	30.66	21.70	1	1.71	0.52	3.90	6.79	55.60	9.66
10	2	3.88E-05	5.15E-03	1.39E-04	1.12E-01	8.05E-01	1.09E-01	1.35E-01	67.65	47.89	2	1.25	0.26	2.20	5.58	44.38	13.00
11	0	4.85E-05	3.76E-03	1.03E-04	2.82E-02	5.41E-02	3.23E-02	2.02E-02	0.00	55.39	1	1.70	0.40	1.61	48.50	257.06	11.52
12	1	2.91E-05	3.99E-03	1.10E-04	2.80E-02	3.59E-02	1.94E-02	5.97E-03	58.16	58.19	1	1.33	0.09	1.71	37.50	287.16	11.82
13	1	4.37E-05	2.86E-03	8.10E-05	1.69E-01	4.69E-01	1.82E-01	1.78E-01	54.12	54.15	1	1.25	0.40	1.23	23.89	210.45	14.21
14	0	2.38E-05	3.53E-03	1.17E-04	1.51E-01	7.69E-01	1.29E-01	1.08E-01	0.00	119.19	1	1.87	0.45	1.51	37.84	105.19	13.64
15	5	4.85E-05	4.95E-03	1.39E-04	2.18E-01	6.26E-01	1.58E-01	1.47E-01	139.98	62.79	2	1.59	0.08	2.12	38.92	159.83	13.94
16	3	2.91E-05	2.53E-02	6.67E-04	1.83E-01	3.20E-01	2.35E-01	2.28E-01	27.66	16.00	1	1.30	0.30	10.81	18.25	42.15	13.77
17	2	4.85E-05	6.67E-03	2.22E-04	1.58E-01	2.86E-01	2.75E-01	1.38E-01	41.82	29.61	2	1.68	0.27	2.86	2.74	41.18	14.96
18	4	4.85E-05	3.46E-02	1.05E-03	1.59E-01	1.20E-01	1.06E-01	6.94E-02	16.17	8.10	2	1.61	0.07	14.81	35.70	96.62	14.98
19	1	2.33E-05	7.56E-03	2.18E-04	1.18E-01	2.89E-01	1.92E-01	1.31E-01	38.46	38.48	1	1.58	0.57	3.24	5.62	85.65	14.81
20	2	3.88E-05	5.16E-03	1.49E-04	1.53E-01	1.44E-01	1.62E-01	1.31E-01	67.46	47.76	1	1.24	0.30	2.21	34.70	104.10	15.67
21	1	3.88E-05	5.49E-03	1.72E-04	8.16E-02	6.43E-02	8.13E-02	6.10E-02	31.82	31.84	1	1.44	0.16	2.35	40.71	170.23	15.54
22	3	2.43E-05	8.27E-03	3.60E-04	1.05E-01	5.39E-02	5.95E-03	8.03E-03	100.74	58.36	2	1.41	0.44	3.54	85.70	308.56	4.72
23	0	3.88E-05	4.60E-03	1.29E-04	6.11E-02	6.12E-02	5.12E-02	4.02E-02	0.00	56.51	1	1.61	0.35	1.97	37.22	288.37	14.11
24	1	3.40E-05	8.51E-03	2.40E-04	1.86E-01	1.60E-01	2.68E-01	1.43E-01	23.46	23.48	1	1.58	0.29	3.64	3.69	20.18	14.29

25 2 4.85E-05 4.96E-03 1.45E-04 7.88E-02 4.04E-01 1.42E-01 9.90E-02 56.18 39.78 2 1.74 0.10 2.12 3.95 22.03 15.66

Mean Dpar = 1.48
Mean Dper = 0.29
Modified Zeta = 13.589+/- 0.267
Mean 29Si b:s = 0.105
Mean 43Ca b:s = 0.105
Mean 238U b:s = 0.215
Number of grains= 25
Chi-squared = 27.8
Chi-squared prob= 0.2706
Pooled Age (Ma) = 32.2+/- 4.7

950-54

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	15	4.85E-05	6.59E-02	2.07E-03	2.77E-01	3.07E-01	3.17E-01	2.73E-01	35.05	9.14	2	1.81	0.50	25.75	54.39	423.54	12.78
2	12	4.85E-05	5.40E-02	1.78E-03	7.23E-02	1.29E-01	1.05E-01	8.17E-02	34.23	9.97	3	1.60	0.35	21.10	50.73	464.60	12.83
3	11	4.85E-05	1.96E-02	7.92E-04	1.33E-01	3.81E-01	1.04E-01	1.13E-01	86.19	26.28	4	1.57	0.24	7.65	18.41	269.88	14.61
4	8	3.88E-05	3.59E-02	9.66E-04	3.02E-01	4.59E-01	3.52E-01	3.51E-01	42.93	15.25	2	2.18	0.58	14.01	28.70	542.14	10.00
5	7	2.38E-05	6.36E-02	1.90E-03	3.01E-01	3.36E-01	3.07E-01	2.80E-01	34.60	13.14	2	1.85	0.78	24.85	81.95	588.25	5.83
7	28	4.85E-05	8.56E-02	2.41E-03	7.81E-02	2.21E-01	9.99E-02	9.21E-02	50.33	9.67	4	1.70	0.42	33.44	17.04	604.07	11.13
8	4	4.85E-05	2.75E-02	8.20E-04	3.24E-02	4.51E-02	4.00E-02	3.14E-02	22.40	11.23	4	1.87	0.43	10.76	23.04	384.54	11.10
9	19	4.85E-05	8.07E-02	2.38E-03	6.58E-02	1.19E-01	1.27E-01	9.11E-02	36.27	8.42	4	2.26	0.56	31.53	17.43	548.77	11.56
10	8	4.85E-05	3.65E-02	1.05E-03	3.88E-02	5.51E-02	4.94E-02	3.97E-02	33.76	12.00	4	1.80	0.42	14.26	30.73	515.10	10.41
11	12	4.85E-05	7.71E-02	2.28E-03	5.34E-02	9.86E-02	7.74E-02	6.54E-02	23.99	6.98	4	1.95	0.57	30.13	82.47	868.89	10.71
12	10	2.04E-05	7.62E-02	2.25E-03	8.38E-02	1.65E-01	1.04E-01	8.84E-02	48.11	15.31	3	1.59	0.32	29.76	79.14	597.20	10.51
14	21	3.88E-05	7.35E-02	2.30E-03	6.30E-02	1.06E-01	1.03E-01	8.58E-02	54.96	12.17	4	1.96	0.50	28.70	72.39	462.66	11.23
15	7	3.88E-05	5.61E-02	1.51E-03	1.14E-01	1.74E-01	1.72E-01	1.41E-01	24.04	9.12	2	1.71	0.34	21.93	53.47	450.99	10.37
16	16	4.85E-05	6.42E-02	1.96E-03	2.46E-01	3.69E-01	3.14E-01	2.64E-01	38.37	9.69	4	2.00	0.45	25.09	66.02	521.50	12.26
17	9	2.91E-05	4.90E-02	1.39E-03	3.17E-01	6.30E-01	4.06E-01	4.71E-01	47.09	15.78	4	2.22	0.25	19.15	49.06	421.07	11.30
18	17	4.85E-05	7.71E-02	2.47E-03	1.04E-01	2.03E-01	1.72E-01	1.14E-01	33.95	8.33	4	1.91	0.50	30.14	18.31	548.23	14.22
19	17	4.85E-05	5.41E-02	1.57E-03	1.11E-01	3.78E-01	2.50E-01	1.15E-01	48.31	11.84	3	1.78	0.39	21.15	61.81	522.97	12.00
20	16	3.88E-05	5.73E-02	1.60E-03	5.79E-02	9.33E-02	8.15E-02	7.38E-02	53.65	13.54	2	1.88	0.58	22.40	51.60	449.08	11.25
21	11	3.88E-05	4.12E-02	1.24E-03	4.74E-02	9.12E-02	8.23E-02	7.40E-02	51.33	15.59	4	1.79	0.31	16.10	36.61	334.68	11.20
22	11	2.91E-05	6.30E-02	1.73E-03	7.77E-02	1.26E-01	1.32E-01	9.64E-02	44.77	13.58	3	2.05	0.60	24.63	64.67	537.05	10.78
23	6	4.37E-05	1.97E-02	5.88E-04	1.71E-02	3.03E-02	3.74E-02	3.13E-02	52.05	21.33	3	2.08	0.40	7.70	13.16	448.16	12.35
24	14	2.91E-05	8.05E-02	2.30E-03	1.66E-02	3.07E-02	2.53E-02	1.32E-02	44.59	12.02	4	1.93	0.48	31.47	79.14	532.18	9.78
25	16	4.85E-05	5.52E-02	1.47E-03	2.20E-02	1.05E-01	2.18E-02	2.15E-02	44.58	11.24	4	1.92	0.49	21.58	54.07	417.76	8.37

Mean Dpar = 1.89
Mean Dper = 0.45
Modified Zeta = 14.994+/- 0.299
Mean 29Si b:s = 0.114
Mean 43Ca b:s = 0.114
Mean 238U b:s = 0.202
Number of grains= 23
Chi-squared = 21.2
Chi-squared prob= 0.5054
Pooled Age (Ma) = 41.1+/- 2.5

950-55

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	3	2.91E-05	9.56E-02	3.56E-03	1.14E-02	3.64E-02	2.16E-02	2.56E-01	8.12	4.70	3	1.66	0.27	37.10	0.16	0.36	16.50
2	28	8.74E-06	1.14E+00	4.30E-02	5.90E-02	4.35E-02	1.65E-01	7.97E-02	21.16	4.10	3	1.67	0.39	442.71	0.51	9.51	15.50
3	5	1.36E-05	4.80E-02	1.81E-03	1.17E-02	9.61E-02	5.05E-02	2.73E-02	57.60	25.88	2	1.63	0.34	18.62	0.36	16.17	18.49
4	6	8.74E-06	1.01E-01	3.25E-03	4.06E-02	7.84E-02	1.44E-01	7.10E-02	50.94	20.89	3	1.54	0.42	39.32	0.29	15.87	12.21
5	4	7.77E-06	3.30E-02	1.71E-03	1.39E-02	1.22E-01	1.92E-02	6.06E-03	116.58	58.65	4	1.51	0.15	12.82	59.11	40.78	26.26
8	15	1.55E-05	2.62E-01	1.07E-02	2.43E-02	2.99E-02	1.27E-02	1.52E-02	27.79	7.29	2	1.91	0.47	101.55	4.30	523.42	12.61

10	28	1.16E-05	7.93E-01	2.92E-02	2.00E-02	6.49E-02	6.05E-02	3.06E-02	22.83	4.42	3	1.87	0.30	307.76	2.35	82.04	15.86
11	3	5.82E-06	1.10E-01	4.37E-03	3.82E-02	5.20E-02	3.81E-02	4.65E-02	35.19	20.38	2	1.48	0.47	42.75	4.64	295.28	18.47
12	15	1.36E-05	1.13E-01	3.87E-03	9.81E-02	4.10E-01	3.89E-02	7.94E-02	73.03	19.08	2	1.33	0.51	44.01	0.37	54.62	13.00
13	2	9.71E-06	3.71E-02	1.60E-03	3.24E-02	6.74E-03	1.66E-02	1.63E-02	41.73	29.57	2	1.56	0.29	14.41	0.78	63.65	17.95
14	10	7.77E-06	1.05E-01	5.75E-03	6.81E-02	2.12E-01	1.22E-01	5.44E-02	91.91	29.55	4	1.53	0.34	40.74	8.26	201.34	13.86
15	6	1.21E-05	9.41E-02	3.42E-03	6.69E-02	2.23E-01	3.14E-02	6.63E-02	39.52	16.22	2	1.73	0.54	36.53	2.23	52.83	16.93
16	2	9.71E-06	4.27E-02	1.44E-03	9.74E-03	1.25E-01	1.84E-02	1.01E-02	36.29	25.70	2	1.32	0.35	16.58	4.22	315.69	18.34
17	2	4.37E-06	9.08E-02	3.13E-03	1.12E-02	3.42E-02	7.50E-03	2.30E-02	37.94	26.87	2	1.45	0.51	35.23	0.28	5.42	15.12
18	6	5.82E-06	3.28E-01	8.90E-03	5.27E-02	1.45E-01	1.09E+00	6.10E-02	23.63	9.68	3	1.43	0.27	127.41	13.88	956.18	7.38
19	10	7.77E-06	3.86E-01	1.27E-02	2.30E-02	3.41E-02	3.38E-02	2.55E-02	25.13	8.01	3	1.90	0.34	149.75	37.20	296.83	13.74
20	9	7.77E-06	2.69E-01	7.24E-03	1.55E-02	1.33E-02	1.89E-01	6.35E-03	32.48	10.88	2	1.49	0.48	104.23	0.56	495.64	9.43
21	13	1.55E-05	8.72E-02	3.05E-03	3.51E-02	2.14E-01	2.05E-01	4.80E-02	72.00	20.18	3	1.41	0.23	33.85	1.42	91.54	13.33
22	20	1.16E-05	1.27E-01	4.04E-03	4.28E-02	1.97E-01	2.35E-02	1.34E-02	101.31	22.97	3	1.47	0.26	49.24	4.85	483.79	11.83
23	5	7.77E-06	4.62E-01	1.59E-02	5.13E-02	4.60E-02	3.28E-02	9.31E-03	10.50	4.71	2	1.76	0.29	179.42	18.04	261.19	13.63
25	9	9.71E-06	1.80E-01	6.57E-03	2.38E-02	4.92E-02	4.96E-02	3.66E-02	38.79	13.03	2	1.53	0.40	69.77	34.34	580.65	15.07

Mean Dpar = 1.58
 Mean Dper = 0.36
 Modified Zeta = 15.087+/- 0.302
 Mean 29Si b:s = 0.036
 Mean 43Ca b:s = 0.036
 Mean 238U b:s = 0.106
 Number of grains= 21
 Chi-squared = 88.9
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 31.3+/- 2.3

950-56

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	0	1.46E-05	1.92E-04	7.33E-06	1.41E-01	6.24E+00	9.68E-01	2.30E-01	0.00	2467.27	1	1.31	0.47	0.08	49.86	316.50	5.95
2	1	1.46E-05	8.34E-05	3.73E-06	7.31E-02	3.66E+00	1.66E+00	1.24E-01	4080.14	4084.98	1	1.34	0.31	0.04	46.11	302.09	12.50
3	0	7.28E-06	7.06E-06	4.75E-07	4.62E-02	1.06E+00	6.50E-02	6.42E-02	0.00	13384.49	1	1.21	0.43	0.00	12.64	252.29	23.92
4	0	9.71E-06	4.50E-05	3.76E-06	6.16E-02	8.93E+01	2.01E-01	6.92E-02	0.00	6843.16	1	1.15	0.28	0.02	1.05	139.75	39.10
7	1	3.11E-05	3.99E-05	1.81E-06	2.97E-02	9.55E-01	1.85E-01	3.91E-02	4014.94	4019.80	1	1.52	0.34	0.02	0.29	185.45	20.39
8	0	1.94E-05	1.31E-04	5.31E-06	1.98E-02	5.79E-01	2.99E-01	2.75E-02	0.00	2633.15	1	1.07	0.23	0.06	0.98	352.27	21.25
9	0	4.85E-05	4.46E-05	1.68E-06	4.08E-02	6.11E-01	1.60E-01	5.78E-02	0.00	2935.17	1	1.59	0.39	0.02	1.28	405.57	26.92
13	0	1.94E-05	1.87E-04	5.74E-06	1.80E-02	2.70E-01	1.04E-01	1.45E-02	0.00	2042.30	1	1.46	0.33	0.08	3.19	180.54	19.84
14	0	7.77E-06	3.80E-04	2.26E-05	3.31E-02	5.69E-02	1.38E+01	6.84E-02	0.00	2375.67	1	1.48	0.49	0.16	0.00	508.49	11.17
16	0	1.36E-05	1.95E-04	6.92E-06	2.52E-02	1.61E-01	4.20E-02	3.37E-02	0.00	2564.63	1	0.95	0.19	0.08	1.87	114.98	32.43
17	4	1.21E-05	7.40E-02	1.67E-03	4.36E-02	2.63E-02	2.92E-02	1.54E-02	30.70	15.38	3	2.12	0.86	31.14	63.17	440.94	12.43
18	2	8.74E-06	1.32E-02	5.63E-04	1.86E-02	3.03E-02	3.26E-02	2.27E-02	118.82	84.20	2	1.70	0.19	5.55	12.42	159.15	50.31
20	0	4.85E-05	1.30E-04	6.78E-06	1.89E-02	8.76E-02	1.01E-02	1.47E-02	0.00	1325.08	1	1.13	0.42	0.05	3.22	191.68	24.44
21	0	3.11E-05	1.99E-04	7.00E-06	3.06E-02	2.68E-01	0.00E+00	4.04E-02	0.00	1347.55	1	1.26	0.34	0.08	0.00	180.30	24.88
23	0	9.71E-06	3.38E-04	1.82E-05	2.99E-02	3.71E+00	3.76E-01	4.70E-02	0.00	2202.49	1	1.18	0.25	0.14	7.58	374.57	14.73
24	1	1.16E-05	1.97E-04	6.89E-06	4.10E-02	6.04E-01	1.48E-01	5.87E-02	2471.27	2473.24	1	1.21	0.42	0.08	0.44	289.37	14.15
25	0	1.94E-05	5.94E-05	2.29E-06	1.70E-01	6.82E-01	1.00E+00	1.52E-01	0.00	4294.71	1	1.51	0.20	0.02	0.65	180.12	25.46

Mean Dpar = 1.37
 Mean Dper = 0.36
 Modified Zeta = 13.819+/- 0.268
 Mean 29Si b:s = 0.049
 Mean 43Ca b:s = 0.049
 Mean 238U b:s = 6.368
 Number of grains= 17
 Chi-squared = 59.6
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 58.8+/- 19.7

950-57

Grain	Natural	Area	238U/43Ca	1 sigma	43Ca	238U	232Th	147Sm	FT Age	1 sigma	Etch	Dpar	Dper	Uranium	Thorium	Samarium	Pit Depth
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Number	Tracks	(cmxcm)	(dmnls)	(dmnls)	back:sig	back:sig	back:sig	back:sig	(Ma)	(Ma)	Figures	(microns)	(microns)	(ppm)	(ppm)	(ppm)	(microns)
2	1	5.82E-06	2.62E-02	8.87E-04	2.20E-02	1.53E-01	4.24E-02	2.92E-02	49.82	49.86	1	1.61	0.27	10.05	24.03	173.55	14.59
4	1	5.82E-06	2.59E-02	8.85E-04	2.15E-02	8.41E-02	1.37E-02	1.61E-02	50.44	50.47	1	1.83	0.62	9.92	19.14	80.15	12.18
9	0	2.91E-06	2.33E-02	8.50E-04	1.10E-01	2.07E-01	1.05E-01	9.74E-02	0.00	164.59	1	1.10	0.17	8.93	39.37	217.78	4.64
12	1	4.37E-06	2.02E-02	6.83E-04	1.06E-02	1.75E-02	2.12E-02	9.90E-03	85.74	85.81	1	1.18	0.37	7.76	20.31	511.30	13.59
14	0	2.91E-06	2.06E-02	5.61E-04	7.42E-02	1.48E-01	1.14E-01	5.43E-02	0.00	185.25	1	1.09	0.22	7.91	17.78	479.65	8.92
16	1	8.74E-06	2.11E-02	6.34E-04	4.47E-02	3.88E-02	1.76E-01	5.29E-02	41.21	41.24	1	1.54	0.23	8.10	18.68	48.96	9.81
17	1	4.37E-06	2.03E-02	6.45E-04	3.10E-02	5.83E-02	6.66E-02	4.49E-02	85.42	85.48	1	1.65	0.45	7.79	21.66	511.22	13.55
18	0	2.91E-06	2.17E-02	7.30E-04	1.34E-02	5.96E-02	8.54E-02	3.63E-02	0.00	176.34	1	1.21	0.31	8.32	17.48	128.62	14.55
19	1	7.77E-06	2.25E-02	7.70E-04	4.39E-02	2.18E-01	8.56E-02	5.75E-02	43.49	43.53	1	1.33	0.24	8.64	21.31	79.18	13.27
20	0	2.91E-06	1.92E-02	5.93E-04	1.28E-02	2.06E-01	1.61E-02	7.68E-03	0.00	198.35	1	0.88	0.20	7.37	22.52	525.09	11.34

Mean Dpar = 1.34
 Mean Dper = 0.31
 Modified Zeta = 15.264+/- 0.306
 Mean 29Si b:s = 0.038
 Mean 43Ca b:s = 0.038
 Mean 238U b:s = 0.119
 Number of grains= 10
 Chi-squared = 1.1
 Chi-squared prob= 0.9992
Pooled Age (Ma) = 42.0+/- 17.2

950-58

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	3.40E-05	6.16E-03	2.79E-04	2.54E-02	4.04E-01	5.14E-02	2.02E-02	34.33	34.37	1	2.27	0.85	2.49	6.76	171.10	19.92
3	1	4.37E-05	6.91E-03	2.50E-04	2.80E-02	3.47E-02	6.91E-02	2.98E-02	23.85	23.88	2	1.71	0.52	2.78	6.02	174.31	16.80
4	1	2.43E-05	8.85E-03	3.33E-04	3.27E-02	2.02E-02	4.78E-02	7.76E-03	33.47	33.50	1	1.96	0.84	3.57	6.60	296.31	17.59
5	1	1.21E-05	6.06E-03	2.27E-04	2.78E-02	7.33E-02	5.30E-02	2.80E-02	97.36	97.45	2	1.94	0.82	2.44	5.15	164.20	17.13
6	1	2.43E-05	8.38E-03	3.04E-04	2.16E-02	1.57E-02	2.93E-02	6.78E-03	35.34	35.37	2	1.57	0.50	3.38	9.05	252.53	16.83
7	3	2.43E-05	7.86E-03	3.35E-04	2.22E-02	2.09E-02	4.48E-02	1.34E-02	112.47	65.15	2	2.13	0.45	3.17	7.10	295.71	18.97
8	3	4.85E-05	5.94E-03	2.18E-04	2.78E-02	4.50E-02	6.49E-02	1.73E-02	74.61	43.19	2	2.20	0.50	2.39	5.10	149.79	17.04
9	1	2.91E-05	7.52E-03	2.69E-04	2.69E-02	3.57E-02	5.20E-02	1.29E-02	32.82	32.85	1	2.23	0.62	3.03	6.74	286.55	16.04
10	0	3.88E-05	4.52E-03	1.81E-04	3.03E-02	1.62E-02	4.28E-02	2.45E-02	0.00	61.04	2	1.68	0.54	1.82	3.93	114.10	15.13
11	0	1.55E-05	7.27E-03	2.62E-04	2.88E-02	2.94E-02	4.65E-02	2.01E-02	0.00	94.37	1	1.59	0.30	2.93	5.39	162.03	14.55
12	2	1.46E-05	1.02E-02	3.63E-04	1.02E-01	1.11E-01	7.92E-02	1.14E-01	96.59	68.41	2	1.67	0.62	4.10	11.99	227.18	15.28
13	1	1.55E-05	7.29E-03	2.67E-04	3.62E-02	4.15E-02	7.72E-02	3.06E-02	63.38	63.43	1	2.13	0.45	2.94	5.95	151.27	15.21
14	0	2.43E-05	7.53E-03	2.78E-04	2.83E-02	2.04E-02	5.65E-02	1.51E-02	0.00	58.62	1	1.53	0.48	3.04	6.01	296.31	14.97
15	0	1.94E-05	6.87E-03	2.52E-04	3.75E-02	4.21E-02	6.97E-02	3.14E-02	0.00	80.09	1	1.90	0.31	2.77	6.16	159.67	15.24
16	1	3.88E-05	6.95E-03	2.53E-04	2.46E-02	3.78E-02	2.60E-02	1.23E-02	26.67	26.69	1	2.36	0.43	2.80	5.72	153.12	15.55
18	2	1.94E-05	7.83E-03	3.05E-04	3.28E-02	5.04E-02	3.99E-02	2.25E-02	94.21	66.75	1	2.06	0.48	3.15	6.68	309.50	17.64
19	0	1.46E-05	3.61E-03	1.45E-04	6.86E-02	8.35E-01	1.43E-02	3.42E-02	0.00	199.37	1	1.39	0.34	1.46	6.56	209.62	17.74
20	1	2.43E-05	5.64E-03	2.04E-04	4.29E-02	1.20E-01	6.54E-02	3.16E-02	52.42	52.47	1	2.14	0.54	2.28	5.87	155.28	16.98
21	1	3.40E-05	7.74E-03	3.14E-04	2.44E-02	1.88E-02	2.18E-02	7.93E-03	27.37	27.40	1	1.99	0.49	3.12	6.68	292.41	18.17
22	2	4.37E-05	7.47E-03	3.07E-04	2.90E-02	2.37E-02	2.95E-02	1.41E-02	44.05	31.22	2	1.89	0.59	3.01	5.47	272.65	18.22
23	1	2.43E-05	8.97E-03	3.92E-04	2.10E-02	1.78E-02	1.75E-02	6.90E-03	33.03	33.06	1	2.37	0.92	3.62	6.50	167.92	18.74
24	1	2.91E-05	6.12E-03	2.58E-04	2.09E-02	1.22E-02	3.50E-02	9.92E-03	40.30	40.34	2	1.90	0.49	2.47	6.20	149.31	18.68
25	0	2.91E-05	8.38E-03	3.44E-04	2.71E-02	1.89E-02	3.40E-02	1.11E-02	0.00	43.99	1	1.66	0.62	3.38	6.49	305.10	17.28

Mean Dpar = 1.92
 Mean Dper = 0.55
 Modified Zeta = 14.419+/- 0.293
 Mean 29Si b:s = 0.033
 Mean 43Ca b:s = 0.033
 Mean 238U b:s = 0.089
 Number of grains= 23
 Chi-squared = 9.6
 Chi-squared prob= 0.9893
Pooled Age (Ma) = 39.1+/- 8.0

950-59

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	48	3.88E-05	2.38E-01	7.51E-03	7.37E-02	1.07E-01	1.71E-01	1.64E-01	40.00	5.97	3	1.26	0.20	90.08	0.02	0.13	11.30
2	8	7.77E-06	2.85E-01	1.15E-02	3.90E-02	1.25E-01	1.59E-01	3.19E-01	27.89	9.94	2	1.87	0.63	107.76	0.03	0.01	13.68
4	21	9.71E-06	5.28E-01	1.77E-02	3.62E-02	4.04E-02	1.32E+00	1.42E+00	31.56	7.00	2	1.50	0.37	199.94	0.01	0.02	13.54
5	23	7.77E-06	3.88E-01	1.28E-02	2.59E-02	7.16E-02	1.07E+00	2.92E-02	58.67	12.44	4	1.37	0.27	146.93	0.05	0.17	13.78
6	9	1.75E-05	2.57E-01	8.85E-03	6.01E-02	2.20E-01	3.96E-01	7.91E-01	15.47	5.19	4	1.73	0.39	97.27	0.01	0.09	12.18
8	28	2.43E-05	4.45E-01	1.54E-02	6.73E-02	6.96E-02	2.99E+00	1.11E+00	19.97	3.86	4	1.77	0.28	168.69	0.00	0.02	12.48
9	11	1.75E-05	5.74E-02	2.10E-03	2.27E-02	2.10E-01	4.36E-01	2.13E+00	84.19	25.63	2	1.66	0.43	21.72	0.00	0.13	13.01
12	21	2.33E-05	1.79E-01	5.68E-03	7.18E-02	1.25E-01	0.00E+00	1.10E-01	38.67	8.56	4	1.78	0.32	67.96	0.04	0.11	10.28
13	48	1.55E-05	6.66E-01	2.42E-02	1.13E-02	6.01E-03	1.76E-01	2.71E-01	35.71	5.36	4	1.66	0.31	252.34	0.04	0.21	11.42
15	28	2.91E-05	4.26E-01	1.56E-02	1.13E-02	1.74E-02	6.07E-02	1.13E-01	17.39	3.37	2	1.51	0.35	161.46	1.10	0.08	14.52
16	8	1.75E-05	2.23E-01	7.24E-03	3.16E-02	7.97E-02	2.50E-01	1.32E+00	15.84	5.63	2	1.60	0.24	84.42	0.08	0.21	11.97
18	18	9.71E-06	4.41E-01	1.57E-02	1.11E-01	1.62E-01	1.82E-01	5.45E-01	32.35	7.74	2	1.63	0.50	167.17	0.08	0.18	12.33
19	27	2.43E-05	3.19E-01	1.18E-02	7.55E-02	8.81E-02	9.69E-01	2.45E-02	26.85	5.29	3	1.96	0.55	120.89	0.03	16.70	14.14
20	18	1.94E-05	4.10E-01	1.39E-02	7.29E-02	1.47E-01	0.00E+00	2.31E+00	17.44	4.17	2	1.69	0.34	155.20	0.00	0.26	12.88
21	24	7.77E-06	1.13E+00	3.94E-02	4.58E-02	7.96E-02	7.49E+00	4.88E-01	20.99	4.37	2	1.51	0.28	429.76	0.08	0.20	13.28
22	7	9.71E-06	2.11E-01	7.28E-03	5.76E-02	7.16E-02	5.32E-02	1.56E+00	26.36	10.02	2	1.83	0.25	79.85	0.64	0.05	13.23
23	68	2.33E-05	1.55E-01	7.73E-03	1.53E-02	8.32E-02	8.71E-02	3.71E-01	143.38	19.01	3	1.51	0.28	58.87	0.04	0.08	12.29
24	40	2.72E-05	2.40E-01	7.04E-03	7.74E-02	2.08E-01	9.43E+00	8.44E-01	47.21	7.65	4	1.79	0.64	90.82	0.07	0.18	10.18
25	7	1.36E-05	6.74E-02	2.06E-03	4.76E-02	1.76E-01	6.17E-02	3.66E-02	58.75	22.31	2	1.58	0.57	25.52	43.29	481.96	9.91

Mean Dpar = 1.64
 Mean Dper = 0.38
 Modified Zeta = 15.441+/- 0.310
 Mean 29Si b:s = 0.050
 Mean 43Ca b:s = 0.050
 Mean 238U b:s = 0.110
 Number of grains= 19
 Chi-squared = 196.1
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 32.8+/- 1.7

950-60

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	0	4.37E-06	1.62E-02	4.78E-04	1.56E-01	2.19E-01	1.77E-01	1.48E-01	0.00	141.83	1	0.97	0.47	6.89	10.12	720.27	18.72
3	0	7.28E-06	2.24E-02	6.18E-04	1.02E-01	4.13E-01	5.39E-02	7.72E-02	0.00	62.38	1	1.37	0.53	9.51	27.41	1214.20	16.83
5	1	4.37E-06	2.29E-02	5.80E-04	8.01E-02	1.16E+00	9.87E-02	7.34E-02	68.20	68.24	2	1.00	0.09	9.71	49.39	841.23	13.35
6	0	7.77E-06	8.81E-03	2.26E-04	8.28E-02	1.59E-01	1.13E-01	8.77E-02	0.00	147.07	1	1.13	0.26	3.73	7.39	739.37	13.83
7	2	1.16E-05	9.04E-03	2.39E-04	9.61E-02	2.97E-01	8.32E-02	5.39E-02	128.95	91.28	1	1.47	0.28	3.83	8.18	706.96	13.46
8	1	7.77E-06	1.08E-02	2.65E-04	3.63E-02	1.09E-01	2.66E-01	3.85E-02	81.31	81.35	1	1.19	0.02	4.58	9.69	765.25	10.29
9	5	1.21E-05	8.38E-02	2.13E-03	3.98E-02	7.71E-02	3.37E-02	1.59E-02	33.63	15.08	3	1.18	0.15	35.53	112.32	2383.80	13.42
12	1	1.75E-05	4.55E-03	1.25E-04	6.55E-02	1.13E+00	7.86E-02	4.96E-02	85.73	85.78	2	0.89	0.11	1.93	11.26	722.96	13.74
14	1	1.16E-05	1.34E-02	3.47E-04	5.77E-02	1.80E-01	8.15E-02	5.04E-02	43.68	43.70	1	0.97	0.18	5.70	12.67	719.65	11.81
15	0	7.28E-06	1.03E-02	2.96E-04	4.64E-02	1.12E-01	7.98E-02	2.80E-02	0.00	134.79	1	1.48	0.43	4.35	8.48	807.34	14.05
17	1	1.75E-05	6.23E-03	1.81E-04	8.76E-02	5.88E-01	1.13E-01	7.96E-02	62.71	62.74	1	1.45	0.58	2.64	6.78	658.58	15.96
18	0	5.82E-06	1.92E-02	4.59E-04	1.61E-01	1.29E-01	8.62E-02	5.87E-02	0.00	90.94	1	1.40	0.20	8.12	12.58	762.02	12.60
19	6	1.16E-05	1.35E-02	3.61E-04	6.97E-02	1.12E+00	4.39E-02	3.41E-02	257.46	105.45	3	1.14	0.20	5.70	40.35	1318.50	12.90
20	1	2.91E-05	2.62E-02	6.22E-04	1.45E-01	1.65E-01	1.42E-01	7.58E-02	8.99	8.99	1	1.48	0.16	11.11	17.88	941.35	10.64
21	1	5.82E-06	4.59E-08	2.94E-09	7.58E-02	2.02E+00	8.96E-02	3.41E-02	53444.55	53564.77	1	1.01	0.20	0.00	9.20	736.41	14.27
22	4	1.94E-05	2.38E-02	5.93E-04	4.23E-02	2.06E-01	3.38E-02	1.74E-02	59.14	29.63	2	1.48	0.43	10.08	24.26	1049.20	13.49
23	1	5.82E-06	1.55E-02	4.27E-04	1.04E-01	3.31E-01	1.19E-01	9.35E-02	75.73	75.77	1	1.13	0.90	6.55	19.43	839.47	14.88
24	2	7.77E-06	5.44E-02	1.22E-03	1.14E-01	3.35E-01	7.54E-02	7.61E-02	32.41	22.94	1	1.03	-0.05	23.05	97.97	2150.10	11.50
25	2	1.46E-05	1.45E-02	3.76E-04	9.40E-02	3.86E-01	4.73E+00	6.26E-02	64.80	45.87	2	1.14	0.33	6.13	254.03	969.65	14.58

Mean Dpar = 1.21
 Mean Dper = 0.29
 Modified Zeta = 13.721+/- 0.267
 Mean 29Si b:s = 0.087
 Mean 43Ca b:s = 0.087
 Mean 238U b:s = 0.481
 Number of grains= 19
 Chi-squared = 198.9
 Chi-squared prob= 0.0000
Pooled Age (Ma) = 46.7+/- 8.7

950-61

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	3	2.91E-05	7.69E-03	3.03E-04	2.43E-01	3.66E-01	2.79E-01	3.22E-01	96.50	55.88	2	1.74	0.59	3.08	6.46	217.14	20.31
2	3	3.11E-05	1.16E-02	4.96E-04	9.10E-02	8.94E-01	1.27E+00	3.51E-01	60.37	34.97	2	2.11	0.60	4.63	16.03	322.32	23.33
3	1	1.46E-05	1.65E-03	7.48E-05	2.08E-01	1.30E+00	6.41E-01	2.75E-01	295.28	295.65	1	1.91	0.68	0.66	2.80	106.27	21.34
4	0	1.46E-05	4.42E-03	1.72E-04	3.60E-02	7.15E-02	8.24E-02	4.61E-02	0.00	164.96	1	1.25	0.44	1.77	4.05	160.40	21.91
5	1	1.70E-05	7.47E-03	3.00E-04	5.16E-02	1.32E-01	1.02E-01	5.98E-02	56.93	56.99	1	2.13	1.08	2.99	6.29	275.88	20.63
6	0	1.94E-05	9.91E-03	4.15E-04	6.12E-02	1.94E-01	3.35E-01	6.24E-02	0.00	56.11	1	1.50	0.42	3.97	6.48	297.76	20.31
7	1	1.75E-05	4.70E-03	1.82E-04	3.45E-02	5.68E-02	7.16E-02	3.59E-02	87.87	87.96	1	1.52	0.73	1.88	4.59	192.04	19.15
8	0	2.38E-05	5.17E-03	1.94E-04	4.30E-02	8.13E-02	1.27E-01	6.02E-02	0.00	87.40	1	2.21	0.62	2.07	5.94	185.85	18.44
9	3	2.43E-05	7.02E-03	2.52E-04	5.08E-02	1.56E-01	1.09E-01	5.60E-02	126.62	73.29	2	1.91	0.50	2.81	6.77	277.72	19.40
10	1	3.11E-05	3.70E-03	1.35E-04	4.64E-02	7.67E-02	1.20E-01	4.70E-02	62.89	62.94	1	2.32	0.98	1.48	3.33	166.82	17.09
11	0	1.75E-05	3.81E-03	1.36E-04	3.94E-02	7.06E-02	9.31E-02	3.53E-02	0.00	159.62	1	1.32	0.70	1.53	3.65	162.56	17.38
12	1	2.91E-05	4.26E-03	1.41E-04	4.79E-02	5.05E-02	9.66E-02	4.60E-02	58.31	58.35	2	1.91	0.98	1.70	4.16	190.19	16.60
15	2	1.46E-05	9.17E-03	3.39E-04	4.91E-02	7.49E-02	9.59E-02	5.25E-02	107.80	76.36	1	1.86	0.47	3.67	7.24	275.08	18.67
16	3	3.49E-05	4.92E-03	1.74E-04	3.51E-02	6.75E-02	6.70E-02	3.05E-02	125.54	72.66	2	2.16	1.22	1.97	5.12	190.22	19.84
17	0	3.88E-05	3.16E-03	1.15E-04	4.09E-02	9.79E-02	1.02E-01	4.41E-02	0.00	87.58	1	2.04	0.29	1.26	3.35	153.80	18.64
18	0	1.21E-05	5.96E-03	2.09E-04	2.55E-02	3.07E-02	5.35E-02	1.96E-02	0.00	147.18	1	1.66	0.07	2.39	4.85	191.73	17.51
19	1	1.46E-05	6.92E-03	2.50E-04	4.03E-02	1.94E-01	3.23E-02	2.01E-02	71.63	71.69	1	2.05	0.47	2.77	7.91	303.05	18.01
20	2	1.94E-05	7.75E-03	2.76E-04	2.73E-02	5.63E-02	2.09E-01	2.25E-02	95.84	67.88	1	1.92	0.49	3.10	6.28	271.27	17.29
21	0	3.88E-05	5.65E-03	1.82E-04	2.94E-02	2.56E-02	7.20E-02	1.52E-02	0.00	49.25	1	1.90	0.30	2.26	5.89	221.73	14.50
22	1	2.04E-05	3.63E-03	1.20E-04	3.06E-02	5.02E-02	7.31E-02	1.60E-02	97.25	97.32	1	2.14	0.35	1.46	3.06	158.73	14.22
23	0	1.75E-05	1.57E-03	6.24E-05	7.70E-02	1.06E+00	1.33E-01	7.52E-02	0.00	375.37	1	1.73	0.44	0.63	4.09	152.25	15.84
24	2	2.43E-05	4.41E-03	1.62E-04	4.13E-02	6.75E-02	9.65E-02	4.98E-02	134.16	95.03	2	1.98	0.65	1.77	3.86	145.66	19.13
25	1	2.43E-05	7.90E-03	2.82E-04	3.17E-02	2.82E-02	4.25E-02	2.38E-02	37.74	37.77	1	2.20	0.71	3.16	6.74	222.29	18.10

Mean Dpar = 1.89
 Mean Dper = 0.60
 Modified Zeta = 14.520+/- 0.292
 Mean 29Si b:s = 0.060
 Mean 43Ca b:s = 0.060
 Mean 238U b:s = 0.226
 Number of grains= 23
 Chi-squared = 9.0
 Chi-squared prob= 0.9931
Pooled Age (Ma) = 61.7+/- 12.2

950-62

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	7	2.91E-05	3.36E-02	9.77E-04	3.96E-01	3.63E-01	2.18E-01	2.99E-01	55.94	21.24	3	1.38	0.38	12.49	29.03	417.04	10.18
2	15	4.85E-05	3.95E-02	1.31E-03	2.25E-01	3.37E-01	3.16E-01	3.19E-01	61.21	15.98	4	1.35	0.30	14.67	36.04	416.70	11.75
3	6	2.43E-05	6.30E-02	2.08E-03	8.84E-02	2.81E-01	1.04E-01	1.13E-01	30.78	12.62	3	1.52	0.40	23.39	69.48	561.26	11.44
5	2	1.94E-05	1.13E-02	3.45E-04	1.14E-01	2.40E-01	1.94E-01	1.91E-01	71.49	50.62	2	1.67	0.25	4.18	9.73	781.59	10.05
6	9	3.40E-05	5.54E-02	1.88E-03	2.85E-02	7.80E-02	3.69E-02	3.46E-02	37.47	12.58	2	1.77	0.38	20.57	54.08	552.92	11.17
7	4	3.40E-05	3.35E-02	1.09E-03	5.37E-02	6.73E-02	6.63E-02	4.92E-02	27.57	13.83	4	1.57	0.19	12.44	26.80	391.76	10.60
8	7	3.11E-05	3.14E-02	9.84E-04	2.36E-02	2.27E-01	4.65E-02	2.33E-02	56.20	21.34	3	1.89	0.49	11.65	27.19	248.08	10.74
10	7	2.04E-05	3.14E-02	9.05E-04	1.27E-01	4.59E-01	1.40E-01	1.34E-01	85.37	32.41	2	1.55	0.24	11.66	41.29	508.43	8.12
11	2	1.21E-05	7.70E-02	2.62E-03	2.54E-02	5.97E-02	4.56E-02	2.76E-02	16.81	11.90	2	1.56	0.23	28.59	85.34	676.22	11.83
12	1	1.20E-04	3.19E-02	1.06E-03	1.41E-02	2.26E-02	2.25E-02	1.18E-02	2.05	2.05	1	1.92	0.25	11.85	23.97	361.68	11.97
14	11	2.33E-05	6.44E-02	2.12E-03	6.61E-02	7.94E-02	6.92E-02	7.67E-02	57.36	17.43	4	1.70	0.28	23.92	68.51	596.99	12.68
15	3	2.33E-05	3.27E-02	1.08E-03	2.17E-02	3.98E-02	3.56E-02	2.50E-02	30.90	17.88	3	1.50	0.13	12.13	24.22	385.01	10.80
18	8	3.11E-05	6.71E-02	1.94E-03	4.60E-02	6.24E-02	5.66E-02	3.81E-02	30.11	10.70	2	1.96	0.38	24.90	58.28	461.76	9.68
19	8	4.85E-05	5.92E-02	1.99E-03	3.51E-02	1.33E-01	3.52E-02	3.28E-02	21.83	7.77	4	1.63	0.36	21.99	52.94	489.11	10.64
20	1	2.04E-05	3.19E-02	9.58E-04	2.70E-02	5.81E-02	4.54E-02	2.75E-02	12.09	12.10	1	1.32	0.51	11.83	22.34	397.36	10.58
21	6	1.16E-05	5.83E-02	1.69E-03	4.43E-02	1.88E-01	5.55E-02	3.25E-02	69.07	28.30	2	1.40	0.24	21.65	59.11	504.80	10.04
22	4	1.75E-05	3.98E-02	1.21E-03	2.83E-02	4.88E-02	4.81E-02	3.14E-02	45.09	22.61	2	1.58	0.37	14.77	31.99	399.80	9.54
23	3	1.21E-05	3.02E-02	8.87E-04	1.65E-02	1.17E-02	5.29E-02	5.47E-03	64.07	37.06	2	1.56	0.39	11.21	23.78	359.87	8.22
24	9	4.37E-05	6.35E-02	1.96E-03	1.34E-02	6.31E-03	4.99E-03	4.20E-03	25.46	8.54	3	1.48	0.27	23.57	52.28	523.35	10.45
25	11	3.88E-05	5.28E-02	1.71E-03	1.59E-02	1.32E-03	2.58E-03	2.10E-03	42.07	12.79	3	1.34	0.23	19.59	47.87	476.96	6.80

Mean Dpar = 1.58
 Mean Dper = 0.31
 Modified Zeta = 15.724+/- 0.317
 Mean 29Si b:s = 0.071
 Mean 43Ca b:s = 0.071
 Mean 238U b:s = 0.138
 Number of grains= 20
 Chi-squared = 36.3
 Chi-squared prob= 0.0098
Pooled Age (Ma) = 34.1+/- 3.2

950-63

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	1	1.94E-05	1.64E-02	4.85E-04	4.21E-01	9.88E-01	3.42E-01	3.85E-01	24.42	24.43	2	1.23	0.53	6.15	16.73	913.34	9.81
5	1	1.94E-05	2.32E-02	6.70E-04	3.99E-01	8.54E-01	4.50E-01	3.77E-01	17.25	17.27	2	1.61	0.28	8.71	26.67	1170.30	7.93
6	1	7.77E-06	1.65E-02	4.82E-04	3.69E-01	6.66E-01	6.79E-01	4.20E-01	60.46	60.50	2	1.45	0.26	6.20	10.14	793.18	8.93
7	0	9.71E-06	2.03E-02	6.13E-04	1.64E-01	6.15E-01	2.45E-01	2.13E-01	0.00	58.50	2	1.46	0.23	7.65	25.18	1106.40	11.08
8	1	7.77E-06	2.07E-02	5.94E-04	1.83E-01	2.90E-01	3.14E-01	1.78E-01	48.04	48.07	1	1.15	0.26	7.80	14.81	898.39	10.05
9	0	1.36E-05	3.12E-02	9.18E-04	2.35E-01	4.36E-01	3.36E-01	2.30E-01	0.00	27.41	2	1.92	0.42	11.72	26.99	1175.10	7.79
10	1	1.21E-05	1.99E-02	5.82E-04	1.33E-01	4.52E-01	2.38E-01	1.49E-01	32.12	32.14	2	1.39	0.38	7.48	25.68	1089.40	5.80
11	1	1.94E-05	1.64E-02	5.21E-04	8.59E-02	1.18E-01	1.18E-01	1.04E-01	24.42	24.44	1	1.56	0.53	6.15	12.18	855.54	10.68
12	1	1.46E-05	8.94E-03	2.72E-04	1.05E-01	6.39E-01	1.27E-01	1.05E-01	59.39	59.43	1	1.47	0.35	3.36	8.36	800.38	10.98
13	1	2.43E-05	3.52E-02	9.79E-04	5.33E-02	7.96E-02	5.78E-02	6.26E-02	9.10	9.10	1	1.77	0.37	13.23	23.37	932.18	9.85

14	1	7.28E-06	7.85E-03	2.33E-04	1.31E-01	6.11E-01	4.39E-01	1.39E-01	134.50	134.59	2	1.96	0.57	2.95	8.07	791.70	7.72
15	3	1.75E-05	1.32E-01	3.72E-03	8.83E-02	2.32E-01	6.19E-02	4.62E-02	10.07	5.83	4	1.35	0.26	49.77	197.28	3276.70	8.92
17	1	3.88E-05	1.39E-02	3.88E-04	1.43E-01	3.44E-01	1.30E-01	1.28E-01	14.34	14.34	2	1.37	0.33	5.24	11.06	703.16	9.04
18	2	7.28E-06	1.58E-02	4.60E-04	1.21E-01	2.13E-01	1.46E-01	1.26E-01	133.49	94.51	1	1.60	0.39	5.95	10.64	725.28	10.99
19	1	1.75E-05	2.15E-02	6.71E-04	1.10E-01	2.46E-01	1.55E-01	1.25E-01	20.69	20.70	2	1.48	0.22	8.07	15.98	925.42	11.18
20	2	3.88E-05	4.46E-03	2.32E-04	1.02E-01	2.34E+00	2.33E-01	1.34E-01	89.05	63.16	2	1.44	0.28	1.68	62.12	1672.70	10.26
21	2	9.71E-06	2.10E-02	7.38E-04	1.68E-01	3.75E-01	1.46E-01	1.70E-01	75.62	53.56	2	1.36	0.19	7.92	37.63	757.96	11.02
22	1	1.02E-05	1.87E-02	5.52E-04	8.08E-02	1.48E-01	1.18E-01	8.56E-02	40.58	40.60	1	1.08	0.09	7.04	18.96	1031.40	10.39
24	0	9.71E-06	1.57E-02	4.73E-04	1.80E-01	5.02E-01	1.90E-01	1.63E-01	0.00	75.35	1	1.49	0.37	5.92	13.36	885.68	10.75
26	3	2.43E-05	1.98E-02	7.19E-04	8.49E-02	3.70E-01	9.93E-02	6.52E-02	48.33	27.97	2	1.48	0.18	7.45	15.93	821.18	13.98

Mean Dpar = 1.48
 Mean Dper = 0.32
 Modified Zeta = 15.536+/- 0.312
 Mean 29Si b:s = 0.168
 Mean 43Ca b:s = 0.168
 Mean 238U b:s = 0.526
 Number of grains= 20
 Chi-squared = 22.8
 Chi-squared prob= 0.2452
Pooled Age (Ma) = 23.8+/- 4.9

950-64

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	5	7.77E-06	2.03E-01	5.98E-03	5.18E-02	1.66E-01	3.04E-01	4.27E-02	21.38	9.59	2	1.28	0.30	87.42	0.22	297.95	14.36
4	25	1.21E-05	3.41E-01	1.01E-02	2.62E-02	2.90E-02	1.95E-01	1.52E-02	40.61	8.25	4	1.22	0.30	147.07	1.16	339.42	12.93
5	15	1.55E-05	2.56E-01	7.09E-03	4.26E-02	3.68E-02	0.00E+00	1.54E-02	25.38	6.61	3	1.29	0.33	110.44	0.00	336.16	12.11
6	17	9.71E-06	2.94E-01	7.94E-03	3.33E-02	9.57E-03	1.30E-01	7.27E-03	39.97	9.79	2	1.55	0.68	127.02	1.16	349.12	10.90
8	12	8.74E-06	2.51E-01	7.22E-03	2.97E-02	1.70E-02	1.92E-01	1.45E-02	36.84	10.71	4	1.46	0.18	108.14	1.04	329.09	12.42
9	22	1.21E-05	2.59E-01	7.89E-03	3.63E-02	5.37E-02	1.24E-01	2.21E-02	47.10	10.19	3	1.28	0.34	111.56	1.16	322.03	13.30
10	24	1.46E-05	3.60E-01	1.08E-02	1.28E-01	1.01E-01	1.52E-01	3.89E-02	30.83	6.39	2	1.41	0.47	155.10	0.70	376.14	12.62
11	14	7.77E-06	2.22E-01	6.90E-03	5.33E-02	6.84E-02	2.82E+00	2.74E-02	54.60	14.73	2	1.12	0.18	95.61	0.04	303.75	15.75
12	14	1.36E-05	2.84E-01	8.59E-03	8.55E-02	1.64E-01	4.03E-01	4.87E-02	24.41	6.58	3	1.39	0.12	122.51	0.18	289.55	14.89
13	31	1.75E-05	3.52E-01	1.12E-02	5.76E-02	8.79E-02	1.40E-01	3.36E-02	33.84	6.21	2	0.74	1.12	152.06	1.60	338.99	15.51
14	11	9.71E-06	1.78E-01	5.62E-03	1.04E-01	5.41E-02	5.00E-03	5.23E-02	42.87	13.03	2	1.50	0.26	76.61	0.55	255.66	13.83
15	11	9.71E-06	2.50E-01	7.95E-03	7.89E-02	1.36E-01	3.50E-01	2.96E-02	30.47	9.26	2	1.39	0.33	107.90	0.48	324.13	15.55
17	18	1.94E-05	2.29E-01	7.52E-03	5.70E-02	2.43E-01	4.15E-01	6.31E-02	27.24	6.50	4	1.57	0.40	98.79	0.21	308.37	16.89
18	15	1.16E-05	2.47E-01	7.90E-03	6.28E-02	1.29E-01	4.69E-01	9.37E-02	35.00	9.13	2	1.57	0.38	106.71	0.23	291.21	17.49
19	17	1.46E-05	1.91E-01	6.13E-03	4.67E-02	2.47E-01	3.53E+00	4.08E-02	41.01	10.07	3	1.09	0.14	82.53	0.02	295.38	16.79
20	31	1.94E-05	2.73E-01	9.56E-03	5.11E-02	7.60E-02	1.48E-01	3.48E-02	39.27	7.23	4	1.66	0.29	117.89	0.65	321.45	16.98
21	26	1.94E-05	4.17E-01	1.58E-02	7.07E-02	8.61E-02	4.12E-02	4.21E-02	21.63	4.34	3	1.69	0.39	179.76	0.84	325.94	16.16
22	12	7.77E-06	2.76E-01	8.29E-03	1.01E-01	2.28E-01	4.64E-01	1.31E-01	37.62	10.94	3	1.28	0.23	119.12	0.10	315.72	15.35
23	10	9.71E-06	2.86E-01	9.26E-03	6.11E-02	2.78E-01	3.17E-01	5.43E-02	24.20	7.71	2	1.94	0.37	123.59	0.00	276.33	16.88
25	13	7.77E-06	3.39E-01	1.02E-02	3.66E-02	7.15E-02	1.19E-01	1.45E-02	33.25	9.30	2	1.70	0.43	146.05	1.15	324.27	16.25

Mean Dpar = 1.41
 Mean Dper = 0.36
 Modified Zeta = 13.484+/- 0.267
 Mean 29Si b:s = 0.061
 Mean 43Ca b:s = 0.061
 Mean 238U b:s = 0.114
 Number of grains= 20
 Chi-squared = 20.4
 Chi-squared prob= 0.3720
Pooled Age (Ma) = 32.9+/- 1.9

950-65

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
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1	19	1.46E-05	1.86E-01	5.35E-03	9.44E-02	4.26E-01	3.23E-01	8.82E-02	47.86	11.11	4	1.63	0.43	79.00	0.83	410.17	17.11
2	12	7.28E-06	2.18E-01	6.19E-03	1.36E-01	3.45E-01	6.77E-02	9.84E-02	51.52	14.98	2	1.40	0.42	92.67	0.04	320.46	17.97
5	34	2.33E-05	2.67E-01	7.66E-03	5.59E-02	7.47E-02	4.59E+00	6.38E-02	37.20	6.51	4	1.41	0.40	113.78	0.09	290.12	15.46
6	25	2.33E-05	2.20E-01	6.19E-03	5.37E-02	1.11E-01	1.39E-01	4.84E-02	33.32	6.76	3	1.69	0.40	93.42	2.62	318.49	13.47
7	20	1.46E-05	2.61E-01	7.15E-03	5.28E-02	1.83E-01	4.40E-01	3.37E-02	35.85	8.11	4	1.25	0.26	111.12	0.32	326.21	13.24
8	21	2.43E-05	1.94E-01	5.03E-03	3.18E-02	1.95E-02	9.25E-01	2.13E-02	30.40	6.71	4	1.73	0.41	82.59	0.22	416.97	13.02
10	12	7.77E-06	3.22E-01	1.24E-02	3.48E-02	4.18E-02	8.67E-01	3.09E-02	32.70	9.54	4	1.55	0.16	137.08	0.00	341.48	17.39
11	22	1.70E-05	1.93E-01	6.09E-03	1.55E-01	2.69E-01	3.56E+00	1.31E-01	45.59	9.86	4	1.51	0.45	82.33	0.04	387.89	4.34
12	15	1.02E-05	2.33E-01	6.12E-03	7.45E-02	1.87E-01	3.16E-01	8.27E-02	42.99	11.19	4	1.47	0.17	99.23	0.57	260.45	15.81
14	5	9.71E-06	2.14E-01	5.87E-03	6.31E-02	1.62E-01	5.59E-01	8.80E-02	16.42	7.37	3	1.48	0.18	91.08	0.17	325.35	15.10
15	17	1.16E-05	2.21E-01	5.96E-03	5.80E-02	1.35E-01	1.05E-01	1.00E-01	45.03	11.02	2	1.58	0.40	93.93	8.15	349.34	15.25
16	3	2.33E-05	1.99E-02	6.05E-04	7.61E-02	1.69E-01	2.16E-01	1.61E-01	44.05	25.48	1	1.52	0.38	8.47	3.67	20.26	16.45
17	19	1.46E-05	2.66E-01	6.68E-03	5.03E-02	7.01E-02	1.03E-01	4.95E-02	33.41	7.74	3	1.46	0.31	113.30	7.68	382.33	13.12
18	17	2.43E-05	1.17E-01	3.21E-03	5.75E-02	2.06E-01	8.63E-02	8.99E-02	40.93	10.02	4	1.48	0.16	49.62	16.46	105.66	15.94
20	13	2.43E-05	8.62E-02	2.34E-03	1.24E-01	3.32E-01	9.47E-02	5.86E-02	42.32	11.82	3	1.23	0.51	36.69	15.54	353.65	14.18
21	2	9.71E-06	2.27E-02	6.05E-04	5.02E-02	9.39E-02	1.19E-01	9.18E-02	61.68	43.66	2	1.37	0.46	9.67	4.34	30.64	10.26
22	24	1.94E-05	2.84E-01	8.02E-03	7.80E-02	9.11E-02	4.81E+00	1.15E-01	29.65	6.14	3	1.32	0.29	120.98	0.09	324.02	14.60
23	32	1.94E-05	3.20E-01	8.74E-03	7.71E-02	1.58E-01	7.20E-02	6.22E-02	35.06	6.31	4	1.67	0.54	136.35	8.67	352.27	15.67
24	13	1.21E-05	1.16E-01	3.04E-03	2.96E-02	4.34E-02	1.59E-01	5.24E-02	62.61	17.49	3	1.70	0.44	49.52	1.49	31.10	15.14
25	13	7.77E-06	1.82E-01	4.32E-03	1.48E-01	1.77E-01	1.30E+00	8.72E-02	62.60	17.47	4	1.77	0.43	77.39	0.03	336.97	11.64

Mean Dpar = 1.51
 Mean Dper = 0.36
 Modified Zeta = 13.668+/- 0.267
 Mean 29Si b:s = 0.075
 Mean 43Ca b:s = 0.075
 Mean 238U b:s = 0.165
 Number of grains= 20
 Chi-squared = 18.2
 Chi-squared prob= 0.5081
Pooled Age (Ma) = 37.8+/- 2.2

950-66

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	0	7.77E-06	1.40E-03	4.70E-05	2.86E-02	8.26E-02	2.24E-01	3.83E-02	0.00	868.66	1	3.05	1.33	0.56	1.06	18.54	13.44
4	2	1.21E-05	4.70E-02	1.62E-03	3.24E-02	4.72E-02	9.62E-02	8.05E-02	25.29	17.91	2	2.19	0.67	18.91	4.60	26.83	17.88
6	3	1.46E-05	1.98E-02	7.16E-04	8.42E-01	4.23E+00	7.60E-01	6.19E-01	74.62	43.19	1	1.98	0.28	7.98	6.91	47.01	10.83
7	0	7.28E-06	1.70E-03	6.07E-05	3.41E-02	3.79E-02	1.04E-01	3.88E-02	0.00	775.88	1	0.57	0.02	0.68	1.82	26.36	16.63
8	0	1.46E-05	2.29E-03	8.69E-05	4.41E-02	4.99E-02	1.09E-01	4.19E-02	0.00	309.89	1	2.32	0.57	0.92	2.36	29.03	17.75
9	1	7.28E-06	1.12E-03	4.23E-05	2.75E-02	5.60E-02	1.02E-01	4.63E-02	829.71	830.47	1	2.44	0.51	0.45	2.16	25.97	17.40

Mean Dpar = 2.09
 Mean Dper = 0.56
 Modified Zeta = 14.458+/- 0.293
 Mean 29Si b:s = 0.168
 Mean 43Ca b:s = 0.168
 Mean 238U b:s = 0.751
 Number of grains= 6
 Chi-squared = 10.0
 Chi-squared prob= 0.0743
Pooled Age (Ma) = 46.8+/- 19.1

950-67

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	2	2.91E-05	2.95E-02	9.29E-04	2.82E-02	2.40E-03	5.90E-02	5.79E-02	15.48	10.96	2	1.54	0.26	12.89	2.98	18.20	11.29
2	4	7.77E-06	1.02E-01	3.11E-03	3.62E-02	2.77E-02	6.58E-02	2.74E-02	33.56	16.83	2	1.61	0.49	44.51	12.76	223.51	12.72
3	0	4.37E-06	9.39E-03	3.00E-04	4.64E-02	1.55E-01	1.20E-01	1.20E-01	0.00	234.81	1	2.39	0.68	4.10	10.18	39.22	12.77
4	1	2.91E-05	4.30E-02	1.35E-03	2.95E-02	5.34E-03	4.54E-02	1.01E-01	5.32	5.33	1	2.01	0.35	18.74	1.40	13.44	11.46

5	2	1.55E-05	8.65E-02	2.88E-03	8.05E-02	1.50E-01	9.82E-02	7.97E-02	9.91	7.02	2	1.80	0.69	37.75	301.08	21.71	11.86
6	1	1.36E-05	1.18E-02	3.86E-04	2.08E-01	4.39E-01	3.72E-01	2.57E-01	41.44	41.47	1	1.59	0.26	5.15	58.05	14.74	4.96
7	2	2.91E-05	5.28E-02	1.83E-03	2.87E-02	1.10E-01	7.07E-02	1.77E-02	8.66	6.13	2	1.32	0.17	23.05	8.11	290.89	14.14
8	1	2.43E-05	4.18E-02	1.40E-03	2.77E-02	2.61E-02	7.42E-02	3.18E-02	6.57	6.58	1	2.06	0.31	18.23	3.10	37.05	15.89
9	2	1.21E-05	1.16E-01	3.94E-03	5.25E-02	3.70E-02	2.64E-02	2.47E-02	9.45	6.69	1	1.55	0.38	50.70	11.82	345.68	16.26
10	3	1.46E-05	2.83E-02	9.01E-04	7.51E-02	2.19E-01	4.51E-01	2.17E-01	48.27	27.93	1	1.74	0.34	12.37	3.78	8.01	15.02
11	3	2.91E-05	3.40E-02	1.15E-03	3.56E-02	3.62E-02	4.58E-02	1.20E-01	20.17	11.67	2	1.77	0.51	14.83	8.00	9.70	15.76
12	6	2.33E-05	1.06E-01	3.61E-03	5.72E-02	6.92E-02	3.32E-02	3.81E-02	16.19	6.64	3	1.56	0.48	46.20	14.48	630.18	15.51
13	3	1.46E-05	1.09E-01	3.97E-03	4.16E-02	3.42E-02	6.93E-02	4.68E-02	12.53	7.25	2	1.97	0.48	47.78	14.12	440.29	17.00
14	1	1.70E-05	2.95E-02	1.04E-03	2.21E-02	3.09E-02	4.49E-02	1.05E-02	13.29	13.30	1	1.73	0.43	12.87	7.53	238.43	16.94
15	2	1.46E-05	1.27E-01	4.07E-03	1.12E-01	3.13E-01	2.69E-02	4.70E-02	7.23	5.12	1	1.54	0.35	55.24	8.47	675.00	14.94
16	2	1.46E-05	8.05E-02	2.53E-03	5.16E-02	8.10E-02	1.04E-02	3.05E-02	11.36	8.04	2	1.58	0.22	35.13	125.00	360.84	16.07
18	5	2.43E-05	1.00E-01	3.70E-03	7.19E-02	1.07E-01	1.17E-01	9.10E-02	13.65	6.13	3	1.54	0.24	43.85	17.01	354.20	15.12
20	4	1.36E-05	5.76E-02	1.98E-03	2.47E-02	3.62E-01	4.51E-02	1.82E-02	33.94	17.02	3	1.54	0.48	25.15	5.99	157.08	14.29
21	2	1.46E-05	9.36E-03	3.11E-04	7.87E-02	5.94E-01	4.63E-02	2.07E-02	97.05	68.73	2	1.15	0.52	4.08	3.94	152.43	14.22
22	4	1.75E-05	4.35E-02	1.35E-03	3.42E-02	2.83E-01	3.71E-01	8.45E-02	34.97	17.53	3	1.70	0.24	18.98	0.23	39.02	12.49
23	1	1.02E-05	2.70E-02	9.64E-04	3.28E-02	9.44E-01	1.33E+00	5.58E-02	24.16	24.18	1	1.57	0.05	11.79	1.61	81.28	15.33
24	12	3.88E-05	5.49E-02	1.84E-03	4.18E-02	6.40E-02	5.43E-02	4.36E-02	37.41	10.90	2	1.54	0.32	23.95	20.94	460.92	16.23
25	0	1.75E-05	1.57E-02	5.12E-04	2.52E-01	7.60E-01	2.21E-01	2.66E-01	0.00	36.19	1	1.38	0.20	6.86	16.30	32.32	15.66

Mean Dpar = 1.66
 Mean Dper = 0.37
 Modified Zeta = 13.325+/- 0.267
 Mean 29Si b:s = 0.064
 Mean 43Ca b:s = 0.064
 Mean 238U b:s = 0.211
 Number of grains= 23
 Chi-squared = 29.9
 Chi-squared prob= 0.1211

Pooled Age (Ma) = 17.3+/- 2.2

3. Apatite Fission-Track Length Data

Results - Report 950

950-01

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.67	4	1.61	0.21	70.55
2	15.21	4	1.61	0.21	38.38
3	15.25	4	1.44	0.29	50.89
4	14.72	2	1.08	0.12	66.38
5	14.39	4	2.01	0.18	64.31
6	17.78	4	2.01	0.18	16.71
7	15.45	4	2.01	0.18	51.17
8	12.78	4	2.01	0.18	42.62
9	13.26	2	2.54	0.65	59.30
10	15.45	2	2.54	0.65	48.71
11	15.43	4	1.92	0.21	31.74
12	14.26	2	1.24	0.33	26.51
13	14.55	4	1.46	0.19	73.78
14	15.35	4	1.41	0.33	67.47
15	14.35	4	1.41	0.33	66.13
16	11.47	3	1.48	0.16	83.79
17	15.16	3	1.48	0.16	74.45
18	15.90	3	1.48	0.16	23.75
19	15.22	4	1.83	0.49	18.02
20	13.48	4	1.83	0.49	40.63
21	14.92	2	1.30	0.19	49.17
22	12.38	3	1.66	0.20	87.77
23	13.60	3	1.66	0.20	47.58
24	11.95	3	1.66	0.20	53.32
25	16.89	3	1.66	0.20	7.47
26	14.89	2	1.70	0.11	39.63
27	14.26	2	1.70	0.11	74.14
28	14.92	4	1.98	0.11	62.40
29	14.65	4	1.53	0.25	43.44
30	15.62	3	1.13	0.12	26.88
31	15.02	4	1.64	0.35	43.02
32	11.05	4	1.64	0.35	75.62
33	16.44	4	1.64	0.35	87.16
34	15.21	4	1.64	0.35	46.85
35	15.09	4	2.41	0.70	87.78
36	12.93	3	1.72	0.11	61.08
37	16.30	3	1.72	0.11	39.17
38	16.41	3	1.72	0.11	38.68
39	14.85	2	1.99	0.82	69.30
40	15.67	2	1.46	0.42	32.95
41	16.58	4	1.46	0.24	55.62
42	15.26	4	1.46	0.24	56.23
43	13.45	4	1.46	0.24	69.65
44	11.17	1	1.34	0.21	69.74
45	12.22	1	1.67	0.30	65.55
46	15.24	1	1.67	0.30	80.30
47	15.02	4	1.50	0.29	78.53
48	15.17	4	1.50	0.29	22.43
49	11.47	4	2.10	0.51	79.20

50	12.42	4	2.10	0.51	89.28
51	17.33	4	2.10	0.51	29.83
52	16.59	4	2.10	0.51	33.98
53	13.95	3	2.00	0.42	89.64
54	16.41	3	2.00	0.42	34.50
55	16.14	4	2.23	0.38	50.80
56	15.28	2	1.37	0.24	72.75
57	16.37	3	1.33	0.40	66.45
58	11.85	4	1.97	0.21	73.43
59	15.36	4	1.97	0.21	67.99
60	14.61	4	1.79	0.20	45.24
61	12.43	4	1.79	0.20	39.15
62	15.55	4	1.79	0.20	31.54
63	14.50	4	1.79	0.20	35.69
64	12.91	4	1.79	0.20	84.41
65	15.52	4	1.79	0.20	31.00
66	14.51	4	1.79	0.20	56.29
67	14.01	2	1.96	0.34	38.05
68	14.55	4	1.43	0.26	71.79
69	14.26	4	1.43	0.26	69.59
70	9.62	4	1.43	0.26	84.89
71	11.38	4	1.43	0.26	63.90
72	15.39	3	1.88	0.44	43.42
73	14.65	3	1.88	0.44	74.39
74	16.34	3	1.88	0.44	27.86
75	14.91	3	1.88	0.44	71.14
76	12.06	3	1.88	0.44	48.28
77	15.51	3	1.88	0.44	61.98
78	13.53	3	1.88	0.44	57.41
79	15.25	3	1.88	0.44	68.18
80	15.86	3	1.88	0.44	47.90
81	15.66	2	1.50	0.23	70.56
82	9.98	2	1.50	0.23	66.10
83	16.72	2	1.50	0.23	48.82
84	15.87	2	1.48	0.19	31.20
85	15.78	4	2.20	0.58	70.20
86	14.59	4	2.20	0.58	56.90
87	15.28	2	1.59	0.10	87.48
88	14.89	4	1.57	0.16	35.24
89	13.58	4	1.57	0.16	66.14
90	14.54	2	1.45	0.07	75.06
91	15.76	4	1.92	0.15	61.44
92	13.97	4	1.58	0.16	87.47
93	16.00	4	1.58	0.16	61.19
94	15.64	4	1.58	0.16	68.93
95	13.18	4	1.58	0.16	79.98
96	16.00	4	1.58	0.16	62.02
97	13.61	4	1.28	0.14	48.54
98	15.17	4	1.28	0.14	52.55
99	14.94	4	1.28	0.14	52.61
100	14.06	4	1.28	0.14	67.48
101	14.62	3	1.48	0.26	56.11
102	13.11	4	1.26	0.20	74.56
103	15.81	4	1.87	0.51	55.23
104	15.76	4	1.87	0.51	67.08
105	11.79	4	1.76	0.31	60.46
106	12.38	4	1.76	0.31	34.35
107	13.41	4	1.76	0.31	68.68
108	14.36	4	1.76	0.31	48.37

109	12.46	4	1.76	0.15	45.41
110	15.96	4	1.76	0.15	31.98
111	12.99	4	1.76	0.15	45.17
112	15.63	4	1.76	0.15	45.30
113	14.02	4	1.63	0.30	80.22
114	13.11	4	1.63	0.30	75.43
115	15.03	4	3.31	0.76	77.23
116	15.25	2	2.25	0.58	23.90
117	14.65	2	2.25	0.58	74.97
118	14.85	3	1.81	0.16	80.56
119	15.36	3	1.81	0.16	49.03
120	16.22	4	1.41	0.29	39.65
121	14.44	4	1.41	0.29	65.85
122	17.48	4	2.13	0.51	30.29
123	10.28	4	2.13	0.51	49.61
124	15.35	4	2.39	0.72	73.63
125	15.23	4	1.68	0.16	34.99
126	16.21	4	1.68	0.16	77.03
127	14.63	4	1.64	0.10	69.00
128	15.91	4	1.66	0.16	43.77
129	12.78	4	2.11	0.18	67.49
130	13.71	4	2.11	0.18	61.46
131	13.95	4	2.11	0.18	50.89
132	16.79	4	2.11	0.18	35.09
133	15.14	3	1.34	0.25	64.94
134	13.80	3	1.79	0.24	89.59
135	13.69	3	1.79	0.24	50.96

Mean Dpar = 1.74
Mean Dper = 0.29
Mean length (um)= 14.54+/- 0.13
Std. Dev. (um)= 1.56
Skewness = -0.80
Kurtosis = 0.49

950-02

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.50	4	1.53	0.20	86.16
2	13.97	4	1.53	0.20	39.12
3	15.39	3	1.88	0.21	35.61
4	13.66	3	1.88	0.21	55.88
5	14.21	4	1.97	0.14	57.07
6	13.72	2	1.60	0.01	68.16
7	14.25	2	1.60	0.01	28.09
8	15.43	2	2.03	0.49	52.50
9	15.09	1	1.53	0.30	46.14
10	14.26	1	1.53	0.30	83.62
11	14.74	2	1.61	0.26	55.78
12	15.54	2	1.61	0.26	41.71
13	15.53	2	1.59	0.19	45.83
14	15.69	4	2.20	0.67	11.88
15	16.18	3	1.80	0.16	51.00
16	16.29	3	1.80	0.16	58.31
17	15.59	2	1.87	0.49	29.60
18	14.83	3	1.34	0.19	38.39
19	12.05	3	1.34	0.19	76.12
20	16.41	1	1.37	0.19	72.10
21	12.39	1	1.28	0.25	63.23
22	13.93	4	1.65	0.21	85.09
23	14.84	4	1.48	0.11	67.25
24	9.77	4	1.48	0.11	87.31
25	16.54	4	1.48	0.11	40.53
26	12.67	3	1.67	0.38	64.03

27	16.07	3	1.67	0.38	66.67
28	14.74	2	1.23	0.47	74.15
29	16.27	2	2.00	0.34	53.50
30	13.25	2	2.00	0.34	81.99
31	13.37	2	2.00	0.34	62.11
32	13.73	2	2.00	0.34	86.10
33	14.61	2	2.00	0.34	38.18
34	12.51	2	2.00	0.34	48.47
35	13.99	2	2.00	0.34	41.64
36	13.39	4	1.50	0.25	60.39
37	13.75	3	1.58	0.20	62.22
38	14.58	3	1.58	0.20	12.60
39	14.49	3	1.58	0.20	58.58
40	14.32	3	1.58	0.20	53.82
41	13.41	2	1.18	0.24	48.21
42	14.32	2	1.18	0.24	40.78
43	15.18	2	1.18	0.24	35.53
44	14.87	3	1.68	0.25	69.18
45	15.35	3	1.68	0.25	9.14
46	14.50	3	1.70	0.21	63.41
47	14.39	3	1.70	0.21	75.80
48	16.19	3	1.70	0.21	58.07
49	13.90	3	1.44	0.14	81.75
50	13.87	3	1.44	0.14	61.43
51	9.35	4	1.74	0.52	83.25
52	13.24	4	1.70	0.18	88.83
53	15.69	3	1.58	0.25	59.39
54	13.41	3	1.58	0.25	88.26
55	14.60	4	1.51	0.24	35.65
56	14.94	4	1.51	0.24	44.03
57	15.42	4	1.51	0.24	28.58
58	12.80	4	1.33	0.25	67.74
59	15.56	4	1.33	0.25	26.07
60	13.73	4	1.61	0.24	80.89
61	13.31	4	1.61	0.24	35.58
62	14.03	4	1.61	0.24	71.26
63	14.60	4	1.61	0.24	53.82
64	14.74	4	1.61	0.24	42.32

Mean Dpar = 1.63
Mean Dper = 0.25
Mean length (um)= 14.36+/- 0.17
Std. Dev. (um)= 1.37
Skewness = -1.19
Kurtosis = 2.63

950-03

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.72	4	1.53	0.19	72.68
2	17.36	4	1.53	0.19	70.68
3	14.17	4	1.78	0.26	35.72
4	13.83	4	1.78	0.26	50.10
5	13.46	4	1.78	0.26	43.13
6	13.12	4	1.78	0.26	80.76
7	15.38	3	1.74	0.26	46.99
8	15.69	3	1.74	0.26	75.74
9	14.38	4	1.61	0.29	69.44
10	12.86	4	1.61	0.29	88.85
11	14.12	4	1.61	0.29	72.87
12	14.95	2	1.70	0.26	81.35
13	15.90	2	1.70	0.26	46.91
14	16.11	2	1.70	0.26	82.59
15	14.47	4	1.91	0.20	73.99
16	15.25	4	1.91	0.20	35.80
17	15.43	4	1.91	0.20	51.19
18	13.27	4	1.91	0.20	58.41
19	15.09	4	1.91	0.20	71.29
20	15.02	4	1.91	0.20	53.51
21	14.82	4	1.91	0.20	55.10
22	13.72	4	1.91	0.20	71.92
23	13.38	4	1.84	0.18	60.23
24	15.11	4	1.84	0.18	89.66
25	16.22	4	1.84	0.18	51.77
26	15.47	4	1.84	0.18	75.34
27	15.64	4	1.84	0.18	43.26
28	15.77	4	1.84	0.18	26.19
29	13.41	4	1.84	0.18	59.59
30	16.36	4	1.84	0.18	59.89
31	15.22	3	1.52	0.11	39.62
32	14.84	4	1.50	0.20	53.57
33	16.71	3	1.76	0.19	35.53
34	15.12	3	1.74	0.15	29.90
35	15.10	4	1.61	0.21	65.67
36	16.78	4	1.61	0.21	26.62
37	16.46	3	1.71	0.11	40.34
38	13.16	3	1.71	0.11	60.40
39	11.94	3	1.71	0.11	54.41
40	16.37	3	1.71	0.11	28.15
41	17.20	3	1.55	0.23	33.00
42	16.61	3	1.55	0.23	59.36
43	16.28	4	1.50	0.15	64.95
44	14.58	4	1.58	0.24	61.57
45	17.68	4	1.58	0.24	29.71
46	16.83	3	1.59	0.14	56.53
47	17.45	3	1.59	0.14	41.70
48	16.03	3	1.59	0.14	52.75
49	16.60	3	1.59	0.14	66.06
50	15.28	2	1.39	0.11	62.89
51	15.50	2	1.39	0.11	51.81
52	16.24	2	1.39	0.11	46.32
53	15.80	2	1.39	0.11	35.98
54	14.91	3	1.51	0.11	67.96
55	13.76	3	1.51	0.11	60.23
56	15.72	3	1.51	0.11	53.88
57	14.97	4	1.87	0.19	72.84
58	14.61	2	1.63	0.34	62.18
59	16.64	2	1.63	0.34	42.28
60	17.45	4	1.60	0.23	70.50
61	15.21	4	1.60	0.23	53.66

62	14.68	3	1.48	0.18	80.59
63	17.82	3	1.48	0.18	21.50
64	15.86	3	1.84	0.23	76.27
65	14.93	3	1.84	0.23	64.36
66	14.55	4	1.50	0.15	53.57
67	16.19	4	1.50	0.15	35.55
68	15.13	2	1.24	0.38	61.55
69	15.15	4	1.66	0.25	61.52
70	14.46	4	1.66	0.25	30.60
71	14.13	4	1.66	0.25	41.30
72	15.70	4	1.66	0.25	60.92
73	16.25	4	1.66	0.25	43.79
74	13.98	4	1.66	0.25	86.76
75	15.84	4	1.52	0.20	65.16
76	14.66	4	1.52	0.20	84.17
77	15.48	4	1.52	0.20	81.20
78	13.48	4	1.80	0.20	57.66
79	15.16	1	1.73	0.11	53.00
80	15.92	1	1.14	0.18	64.04
81	14.48	4	1.55	0.14	58.15
82	14.52	4	1.55	0.14	32.10
83	17.82	4	1.55	0.14	27.71
84	16.31	4	1.58	0.19	38.16
85	13.17	4	1.41	0.09	63.86
86	14.58	4	1.41	0.09	33.20
87	14.64	4	1.41	0.09	74.11
88	14.34	4	1.41	0.09	63.38
89	16.41	4	1.67	0.23	24.80
90	15.27	4	1.87	0.19	77.11
91	17.96	4	1.87	0.19	47.10
92	15.10	4	1.87	0.19	41.85
93	15.80	4	1.87	0.19	31.09
94	15.33	4	1.87	0.19	50.15
95	13.37	4	1.87	0.19	52.26
96	13.42	4	1.87	0.19	52.27
97	15.88	4	1.87	0.19	86.57
98	13.94	4	1.65	0.19	43.19
99	15.47	4	1.50	0.12	80.39
100	16.38	4	1.50	0.12	18.90
101	15.87	4	1.50	0.12	70.73
102	14.17	4	1.67	0.12	37.85
103	12.08	4	1.67	0.12	51.25
104	12.31	4	1.67	0.12	63.67
105	16.13	4	1.59	0.25	37.72
106	14.82	4	1.59	0.25	65.18
107	16.09	4	1.59	0.16	14.25
108	6.66	4	1.59	0.16	68.31
109	16.34	4	1.59	0.16	37.76
110	15.45	2	1.28	0.15	61.01
111	15.17	4	1.77	0.19	32.42
112	14.43	4	1.77	0.19	75.04
113	13.32	4	1.77	0.19	74.00
114	15.13	4	1.44	0.16	76.53
115	14.38	4	1.44	0.16	60.75
116	13.44	4	1.44	0.16	74.42
117	15.17	4	1.40	0.11	36.55
118	13.78	4	1.40	0.11	47.97
119	13.31	4	1.40	0.11	48.30
120	13.08	4	1.40	0.11	69.78
121	14.56	4	1.50	0.09	59.53
122	8.19	4	1.50	0.09	67.84
123	13.63	4	1.50	0.09	63.15
124	13.67	4	1.50	0.09	61.23
125	16.50	4	1.59	0.31	32.61
126	15.28	4	1.59	0.31	65.17
127	14.54	4	1.59	0.31	74.21

Mean Dpar = 1.64
Mean Dper = 0.18
Mean length (um)= 14.98+/- 0.14
Std. Dev. (um)= 1.58
Skewness = -1.66
Kurtosis = 6.83

950-04

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	12.33	4	2.08	0.85	87.85
2	12.39	4	2.08	0.85	87.42
3	15.41	4	2.18	0.85	43.95
4	16.63	4	2.93	0.59	70.17
5	14.46	4	2.93	0.59	33.86
6	14.76	4	2.93	0.59	64.59
7	15.21	4	2.61	1.15	33.40
8	13.72	4	2.61	1.15	74.90
9	14.63	4	2.41	0.95	50.40
10	14.98	4	2.41	0.95	40.16
11	13.92	4	2.16	0.42	83.08
12	15.47	4	2.70	0.39	41.56
13	14.72	4	2.70	0.39	81.36
14	15.87	4	2.87	0.73	50.77
15	11.82	4	2.87	0.73	74.10
16	13.66	4	1.70	0.25	79.99
17	15.22	4	1.70	0.25	41.38
18	14.63	4	1.70	0.25	73.74
19	13.60	4	1.70	0.25	80.48
20	12.80	4	1.70	0.25	73.25
21	14.56	4	1.70	0.25	63.51
22	15.03	4	1.70	0.25	48.66
23	14.77	4	1.70	0.25	36.73
24	13.38	4	1.70	0.25	64.05
25	15.83	4	1.61	0.80	49.44
26	13.99	4	2.50	0.68	83.22
27	14.87	4	2.76	0.66	62.65
28	17.18	4	2.38	0.54	82.67
29	14.40	4	1.92	0.09	42.28
30	15.14	4	1.92	0.09	71.15
31	14.76	4	2.44	1.01	49.91
32	13.71	4	2.50	0.71	78.81
33	16.07	4	2.50	0.71	59.04
34	15.85	4	2.50	0.71	40.67
35	15.03	4	2.54	0.81	83.77
36	13.21	4	2.54	0.81	76.12
37	16.53	4	2.46	0.71	48.06
38	15.31	4	2.46	0.71	40.07
39	15.03	4	2.32	0.59	33.05
40	15.57	4	2.30	0.66	83.97
41	15.39	4	2.26	0.77	51.22
42	14.87	4	2.41	0.82	47.37
43	14.92	4	2.30	0.73	76.39
44	16.02	4	2.28	0.28	87.85
45	13.59	4	2.48	0.73	47.23
46	14.40	4	2.48	0.73	13.80
47	15.76	4	2.19	0.48	89.27
48	15.16	4	2.26	0.61	70.62
49	15.96	3	2.25	0.92	58.67
50	13.47	4	2.59	0.87	64.31
51	15.55	4	2.59	0.87	57.11
52	15.51	4	2.40	0.54	28.03
53	15.51	4	2.40	0.54	59.51
54	14.97	4	2.40	0.54	30.66

55	16.10	4	2.38	0.58	42.29
56	15.24	4	2.38	0.58	45.73
57	12.02	4	2.38	0.58	48.15
58	15.45	4	2.38	0.58	81.31
59	15.31	4	2.03	0.72	88.09
60	15.00	4	2.70	0.24	32.96
61	15.12	4	2.70	0.24	28.14
62	17.33	4	2.70	0.24	10.60
63	15.27	4	2.24	0.72	88.34
64	16.01	4	2.24	0.72	47.38
65	15.91	3	2.39	0.45	62.95
66	15.73	2	1.91	0.53	63.24
67	11.34	3	2.94	0.44	75.39
68	13.35	3	2.94	0.44	35.13
69	14.40	3	2.58	0.63	56.77
70	15.52	2	2.03	0.62	43.35
71	15.51	2	2.03	0.62	52.91
72	15.33	4	2.41	0.75	71.51
73	13.13	4	2.41	0.75	87.25
74	14.98	4	2.74	0.86	76.41
75	14.61	2	2.28	0.30	88.41
76	16.12	4	3.01	0.37	22.73
77	15.66	4	3.01	0.37	32.91
78	16.16	3	2.56	0.38	45.30
79	15.03	2	2.72	0.68	16.64
80	14.55	2	2.72	0.68	64.33
81	14.96	4	2.12	0.61	72.94
82	11.90	4	2.12	0.61	78.38
83	15.70	3	2.25	0.57	67.21
84	13.92	2	2.53	0.86	57.13
85	12.76	3	2.67	0.63	88.48
86	15.61	4	2.43	0.71	56.39
87	14.43	4	2.43	0.71	34.32
88	15.49	4	2.40	0.38	46.38
89	12.82	4	2.40	0.38	57.30
90	14.49	4	2.36	0.70	83.29
91	12.78	4	2.36	0.70	64.52
92	15.21	4	2.63	0.34	73.48
93	16.60	4	2.63	0.34	59.21
94	14.67	4	1.81	0.56	42.05
95	13.98	4	1.81	0.56	64.56
96	13.65	4	2.44	0.67	82.71
97	14.94	4	2.36	0.91	44.80
98	15.27	4	2.61	0.61	41.30
99	12.44	4	2.28	0.62	84.79
100	15.34	4	2.20	0.52	83.25
101	16.46	4	2.34	0.56	56.13
102	15.28	4	2.41	0.86	75.99
103	14.63	4	2.41	0.86	66.10
104	14.46	2	2.52	0.75	75.89
105	14.56	2	2.07	0.52	46.40
106	15.21	2	2.07	0.52	74.61
107	14.29	4	1.64	0.38	52.94
108	16.60	4	1.64	0.38	21.52
109	16.29	4	2.26	0.81	75.11
110	16.78	4	2.26	0.81	69.70
111	15.65	4	2.33	0.70	74.85
112	12.67	4	2.33	0.70	28.83
113	16.56	4	2.37	0.80	41.39
114	16.62	4	2.37	0.80	28.69
115	14.31	4	2.53	0.78	88.67
116	14.19	4	3.40	0.56	57.30
117	13.53	4	2.39	0.61	31.45
118	13.34	4	2.19	0.62	80.74
119	15.31	4	2.67	0.56	55.50
120	15.55	4	2.06	0.68	82.66
121	15.35	4	2.11	0.62	74.11

122	15.83	4	2.37	0.85	89.61	3	16.82	4	1.73	0.57	37.36
123	16.52	4	2.37	0.85	17.11	4	14.99	4	1.73	0.57	87.58
124	15.34	4	2.37	0.85	38.36	5	16.24	4	1.50	0.24	31.09
125	16.13	4	2.28	0.65	47.77	6	15.18	4	1.84	0.34	79.89
126	14.40	4	2.23	0.26	78.02	7	15.39	4	1.84	0.34	50.84
127	15.67	4	2.07	0.75	82.43	8	14.28	3	1.20	0.24	87.77
128	15.32	2	2.58	0.95	74.79	9	15.38	3	1.57	0.40	78.68
129	12.26	4	2.65	0.67	70.16	10	16.36	3	1.57	0.40	19.61
130	14.87	4	2.65	0.67	77.53	11	16.46	3	1.57	0.40	19.20
131	12.22	4	2.65	0.67	40.67	12	16.11	3	1.98	0.57	83.04
132	15.43	4	2.32	0.39	75.67	13	15.99	4	1.81	0.76	27.43
133	12.87	4	2.32	0.39	69.34	14	15.57	4	1.81	0.76	60.79
134	12.74	4	2.43	0.75	67.09	15	14.46	4	1.87	0.29	25.51
135	15.38	4	2.53	1.00	83.05	16	14.29	4	1.87	0.29	35.30
136	15.82	4	2.07	0.81	51.08	17	15.23	4	2.04	0.33	48.15
137	14.30	4	2.07	0.81	53.83	18	14.47	4	2.04	0.33	67.97
138	14.68	4	2.07	0.81	67.69	19	15.39	4	1.92	0.48	57.45
139	16.66	4	2.07	0.81	56.39	20	15.07	4	1.92	0.48	82.30
140	16.45	4	2.07	0.81	44.51	21	15.28	4	1.92	0.48	52.14
141	15.05	4	2.07	0.81	64.71	22	15.26	4	1.92	0.48	43.53
142	16.02	4	2.07	0.81	53.11	23	15.50	4	1.92	0.48	83.97
143	16.52	4	2.07	0.81	47.32	24	15.28	4	1.92	0.48	51.53
144	13.05	2	2.52	0.53	57.80	25	16.26	4	1.92	0.48	8.36
145	16.32	4	2.57	0.34	32.04	26	15.11	4	1.92	0.48	83.96
146	16.73	4	2.57	0.34	84.31	27	17.79	4	2.50	0.48	31.69
147	15.13	4	2.56	1.08	64.75	28	15.75	4	2.50	0.48	40.47
148	16.49	4	2.20	0.29	27.92	29	15.62	4	2.33	0.91	57.20
149	17.03	4	2.07	0.65	78.94	30	15.96	4	1.85	0.47	34.42
150	14.84	4	2.07	0.65	80.03	31	15.08	4	1.66	0.31	64.61
151	16.42	4	2.73	0.68	46.61	32	14.69	4	1.64	0.19	83.36
152	17.35	4	2.19	0.56	64.81	33	13.58	4	1.60	0.29	77.52
153	14.48	4	2.19	0.56	74.56	34	15.58	4	1.76	0.24	52.51
154	15.12	4	2.19	0.56	35.95	35	15.54	4	1.76	0.24	69.98
155	13.94	4	2.19	0.56	82.40	36	15.09	4	2.10	0.59	31.21
156	14.43	4	2.19	0.56	65.38	37	16.05	4	2.10	0.59	33.61
157	15.19	4	2.19	0.56	48.08	38	16.15	2	1.79	0.68	52.87
158	14.96	4	2.19	0.56	70.66	39	15.84	2	1.79	0.68	20.00
159	13.64	4	2.11	21.86	62.15	40	16.80	3	2.18	0.23	46.34
160	16.18	4	2.11	21.86	16.99	41	15.73	4	1.45	0.18	0.90
161	14.98	4	2.11	21.86	53.36	42	15.57	4	1.45	0.18	73.45
162	14.83	4	2.39	0.73	86.63	43	14.27	4	1.45	0.18	35.51
163	14.17	4	2.39	0.73	50.42	44	13.22	4	1.45	0.18	83.21
164	15.59	4	2.39	0.73	18.86	45	15.27	4	1.45	0.18	86.94
165	15.89	2	1.78	0.44	70.75	46	15.59	4	1.45	0.18	22.44
166	16.44	4	2.99	0.75	37.18	47	15.08	4	1.45	0.18	68.00
167	16.30	4	2.45	0.75	68.44	48	17.24	4	1.81	0.52	55.40
168	14.29	4	2.28	0.91	53.15	49	13.14	4	1.81	0.52	48.12
169	15.31	4	2.96	0.52	85.29	50	16.25	4	1.84	0.70	62.86
170	12.85	2	2.51	0.43	54.53	51	13.93	3	2.04	0.34	87.79
171	15.93	4	2.32	0.73	70.37	52	17.42	3	2.04	0.34	26.27
						53	17.92	4	2.07	0.47	49.79
						54	13.11	4	2.07	0.47	73.43
						55	16.67	4	2.07	0.47	51.36
						56	10.51	4	2.07	0.47	83.08
						57	17.57	4	2.07	0.47	34.48
						58	15.44	4	2.03	0.42	67.68
						59	15.18	4	2.03	0.42	58.57
						60	13.96	4	2.03	0.42	71.51
						61	15.19	2	2.01	0.56	64.22
						62	14.59	4	1.98	0.29	86.05
						63	15.64	4	1.98	0.29	41.09
						64	14.07	4	1.87	0.24	37.79
						65	16.06	4	1.87	0.24	49.26
						66	16.53	4	1.87	0.24	40.19
						67	12.09	4	2.11	0.40	57.59
						68	13.80	4	2.11	0.40	26.02
						69	14.34	4	2.11	0.40	41.04
Mean Dpar = 2.34											
Mean Dper = 0.99											
Mean length (um)= 14.92+/- 0.09											
Std. Dev. (um)= 1.23											
Skewness = -0.60											
Kurtosis = -0.01											

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Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.14	4	1.83	0.44	71.86
2	16.47	4	1.83	0.44	16.48

						Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
70	14.04	4	2.11	0.40	37.72						
71	14.07	4	2.11	0.40	66.85						
72	16.40	4	2.11	0.40	52.07						
73	16.47	3	1.85	0.39	49.46	1	16.32	3	2.76	0.70	32.13
74	17.54	3	1.85	0.39	24.11	2	13.85	3	2.76	0.70	70.89
75	15.70	4	2.13	0.30	27.38	3	13.17	4	1.23	0.21	83.41
76	13.45	4	2.12	0.30	44.57	4	12.46	4	1.23	0.21	66.15
77	17.66	4	2.12	0.30	25.02	5	15.30	4	2.28	0.59	75.37
78	13.15	4	2.12	0.30	89.80	6	14.27	4	2.28	0.59	45.21
79	15.79	4	2.12	0.30	22.27	7	17.62	3	2.24	0.96	24.35
80	14.19	4	2.12	0.30	48.47	8	16.97	3	2.24	0.96	20.28
81	15.59	4	2.12	0.30	56.16	9	15.24	3	2.24	0.96	45.06
82	15.15	2	1.88	0.26	52.03	10	16.31	3	2.24	0.96	29.73
83	16.20	2	1.35	0.30	52.70	11	15.06	4	2.03	0.33	79.98
84	14.34	2	1.35	0.30	80.93	12	15.08	3	2.51	0.68	44.41
85	14.18	4	1.93	0.12	66.82	13	14.98	3	2.51	0.68	49.77
86	13.80	4	1.93	0.12	46.16	14	15.49	4	2.84	0.80	38.48
87	11.68	3	1.94	0.53	72.35	15	15.99	4	2.84	0.80	9.37
88	13.60	3	1.94	0.53	70.00	16	17.03	4	2.84	0.80	28.55
89	16.13	3	1.81	0.45	31.74	17	13.77	4	2.84	0.80	78.99
90	15.57	3	1.81	0.45	69.97	18	15.81	4	2.86	0.82	52.50
91	15.23	4	1.93	0.33	89.48	19	15.89	4	2.86	0.82	23.93
92	17.29	4	1.93	0.33	31.61	20	13.15	2	2.26	0.68	33.58
93	13.98	4	1.52	0.20	41.43	21	16.89	2	2.26	0.68	30.65
94	15.23	4	2.04	0.24	46.60	22	14.03	4	2.57	0.43	79.30
95	15.86	3	1.93	0.54	69.54	23	14.11	3	2.21	0.53	89.94
96	14.04	3	1.93	0.54	89.52	24	17.24	2	1.99	0.40	49.26
97	15.11	4	1.97	0.35	55.77	25	14.02	2	1.99	0.40	53.57
98	15.48	4	1.97	0.35	37.57	26	14.05	4	2.30	0.84	44.90
99	15.03	3	1.87	0.35	32.62	27	13.40	4	2.30	0.84	63.06
100	13.88	3	1.87	0.35	16.86	28	13.24	4	2.30	0.84	82.65
101	14.90	3	1.87	0.35	74.75	29	15.31	4	2.30	0.84	47.08
102	14.26	3	1.87	0.35	81.33	30	14.09	2	1.91	0.16	47.30
103	16.25	3	1.87	0.35	82.21	31	11.88	3	2.60	0.48	87.48
104	15.54	3	1.87	0.35	29.73	32	14.76	3	2.60	0.48	64.96
105	13.66	3	1.87	0.35	71.80	33	14.49	3	2.60	0.48	62.03
106	13.04	3	1.87	0.35	69.39	34	11.18	3	1.17	0.11	52.01
107	11.84	3	1.87	0.35	76.72	35	15.37	4	2.11	0.24	41.46
108	15.94	4	1.65	0.51	46.12	36	17.11	4	2.37	0.44	52.48
109	15.40	4	1.65	0.51	54.68	37	9.58	4	2.37	0.44	62.48
110	16.81	4	1.65	0.51	23.62	38	14.91	2	2.30	0.71	55.22
111	15.16	4	1.66	0.47	65.20	39	16.31	2	2.30	0.71	66.17
112	11.53	4	2.18	0.47	78.66	40	16.37	4	2.03	0.33	77.20
113	15.01	4	2.19	0.33	43.50	41	15.48	4	2.03	0.33	73.73
114	12.64	4	2.19	0.33	68.34	42	15.39	4	2.03	0.33	37.37
115	14.63	4	2.19	0.33	48.21	43	14.05	4	2.13	0.35	61.45
116	14.27	4	2.01	0.68	47.00	44	14.60	4	2.13	0.35	45.53
117	15.06	4	2.01	0.68	86.88	45	15.22	3	2.14	0.40	65.01
118	14.77	4	2.01	0.68	79.52	46	11.41	3	2.27	0.71	77.96
119	15.23	4	2.01	0.68	43.45	47	15.59	3	2.27	0.71	63.73
120	14.42	4	2.01	0.68	40.90	48	16.55	4	2.33	0.62	15.42
121	14.51	4	2.01	0.68	33.67	49	13.31	4	2.33	0.62	76.61
122	14.75	4	2.01	0.68	64.06	50	10.77	4	2.33	0.71	77.95
123	15.55	4	1.59	0.06	67.92	51	13.81	4	2.14	0.75	63.64
124	15.78	4	1.59	0.06	37.42	52	10.15	4	2.14	0.75	78.86
125	14.04	4	1.59	0.06	77.30	53	13.94	4	2.14	0.75	38.34
						54	14.58	3	1.64	0.56	62.03
						55	15.73	4	2.25	0.44	59.65
						56	15.47	4	2.25	0.44	61.80
						57	16.02	4	2.25	0.44	31.09
						58	16.20	4	2.27	0.62	22.83
						59	15.26	4	2.27	0.62	65.49
						60	16.25	4	2.27	0.62	30.98
						61	9.02	4	2.27	0.62	63.40
						62	15.69	3	2.23	0.67	58.90
						63	14.42	4	2.04	0.76	32.72
						64	14.05	4	2.04	0.76	57.54
Mean Dpar											
Mean Dper											
Mean length (um)											
Std. Dev. (um)											
Skewness											
Kurtosis											

950-06

65	15.11	4	2.04	0.76	23.18
66	14.39	4	2.04	0.76	70.46
67	13.97	4	2.36	0.66	86.22
68	15.74	4	2.36	0.66	27.56
69	14.05	4	2.26	0.87	45.74
70	15.08	4	1.43	0.35	74.97
71	14.54	4	1.43	0.35	47.36
72	14.89	4	1.43	0.35	76.92
73	16.96	4	2.50	0.98	31.64
74	15.56	4	2.48	0.84	62.57
75	14.34	4	2.48	0.84	61.02
76	16.64	4	2.48	0.84	23.69
77	14.93	3	2.48	0.62	58.15
78	13.87	3	2.48	0.62	56.57
79	15.30	3	2.48	0.62	56.47
80	15.70	3	2.48	0.62	14.64
81	13.79	3	2.41	0.58	83.86
82	14.05	4	2.34	0.75	89.67
83	15.62	4	2.34	0.75	39.07
84	13.34	4	2.34	0.75	80.09
85	17.36	4	2.34	0.75	34.90
86	15.25	2	2.57	0.33	58.24
87	16.51	2	2.57	0.33	26.72
88	14.49	4	2.74	0.61	70.90
89	16.18	4	2.31	0.45	73.34
90	16.51	2	2.33	0.77	73.66
91	14.10	2	2.33	0.77	69.66
92	17.23	4	2.41	0.67	47.11
93	16.38	4	2.41	0.67	56.56
94	15.20	4	2.48	0.51	66.68
95	15.83	2	2.39	0.52	54.41
96	16.12	3	2.44	0.86	35.98
97	16.83	3	2.44	0.86	58.71
98	15.55	4	2.36	0.84	51.76
99	14.75	4	2.36	0.84	45.20
100	14.21	4	2.36	0.84	80.51
101	15.85	4	2.05	0.48	21.58
102	15.95	4	2.44	0.52	55.07
103	12.06	4	2.44	0.52	64.48
104	13.93	3	2.46	0.34	61.58
105	14.84	2	2.08	0.31	39.71
106	15.50	4	1.97	0.68	60.05
107	16.77	4	2.37	0.76	34.53
108	14.17	4	2.37	0.76	42.64
109	13.76	4	2.37	0.76	50.28
110	15.34	3	1.72	0.47	82.52
111	13.43	4	2.58	0.86	53.61
112	13.81	4	2.58	0.86	51.63
113	15.45	4	2.23	0.75	66.15
114	13.57	4	2.23	0.75	48.04
115	13.95	4	2.41	0.44	70.25
116	15.00	4	2.41	0.44	54.39
117	14.97	4	2.41	0.44	67.75
118	14.99	4	2.41	0.44	62.66
119	14.23	4	2.41	0.44	69.74
120	14.83	4	2.41	0.44	48.08
121	16.80	4	2.50	0.75	47.71
122	16.55	2	2.38	0.87	16.21
123	13.00	4	2.13	0.28	50.84
124	16.49	4	1.92	0.42	36.64
125	15.43	4	1.92	0.42	42.26

Mean Dpar = 2.28
 Mean Dper = 0.61
Mean length (um)= 14.85+/- 0.14
 Std. Dev. (um)= 1.56
 Skewness = -1.08

Kurtosis = 1.91

950-07

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.84	4	3.20	1.00	43.69
2	14.09	2	1.04	0.18	63.14
3	14.28	2	1.04	0.18	60.96
4	13.34	2	1.04	0.18	58.57
5	13.64	2	1.04	0.18	69.79
6	14.06	4	3.83	0.95	43.59
7	15.52	4	2.08	0.56	49.61
8	14.69	4	2.08	0.56	22.12
9	13.99	4	2.08	0.56	50.13
10	16.65	4	2.08	0.56	39.06
11	14.90	4	2.08	0.56	73.88
12	15.88	4	2.36	0.90	38.11
13	15.45	4	2.36	0.90	42.46
14	15.11	4	2.36	0.90	33.43
15	15.71	4	2.36	0.90	74.77
16	16.74	4	2.36	0.90	29.63
17	15.52	2	2.52	0.62	58.75
18	16.47	4	3.81	1.12	58.91
19	15.64	4	2.36	0.20	79.68
20	15.48	4	2.36	0.20	28.46
21	14.91	4	2.36	0.20	70.64
22	14.47	4	2.36	0.20	66.69
23	15.69	4	2.36	0.20	20.03
24	15.38	4	2.92	0.58	62.02
25	15.82	4	3.39	0.57	79.45
26	16.88	4	2.88	0.76	76.27
27	14.09	3	3.03	1.06	84.75
28	16.79	3	3.03	1.06	80.45
29	16.61	4	2.27	0.59	51.05
30	15.49	4	2.27	0.59	47.22
31	16.05	4	2.19	0.59	77.63
32	14.99	4	1.94	0.34	63.61
33	15.78	4	1.94	0.34	63.86
34	16.46	4	1.94	0.34	86.47
35	17.00	4	1.94	0.34	23.91
36	15.58	4	1.94	0.34	81.50
37	16.57	4	1.94	0.34	55.62
38	16.02	4	1.94	0.34	64.22
39	15.59	4	1.94	0.34	77.77
40	15.81	4	1.94	0.34	73.89
41	15.86	4	1.94	0.34	22.97
42	15.55	3	1.21	0.24	55.82
43	13.40	4	2.84	0.70	79.51
44	14.60	4	2.84	0.70	54.17
45	15.94	4	2.84	0.70	86.43
46	15.51	2	1.70	0.28	21.17
47	13.62	4	1.81	0.12	58.66
48	15.90	4	1.81	0.12	62.95
49	17.33	4	1.81	0.12	22.99
50	16.83	2	1.70	0.39	76.04
51	14.98	4	1.72	0.35	64.79
52	15.41	4	1.72	0.35	81.13
53	15.15	4	1.72	0.35	58.95
54	16.25	4	1.72	0.35	30.82
55	16.17	4	1.72	0.35	84.98
56	15.15	4	1.72	0.35	61.30
57	16.11	4	2.19	0.52	34.46
58	16.83	4	2.19	0.52	51.77
59	14.12	4	2.19	0.52	67.92

60	16.86	3	2.44	0.89	40.29	127	16.31	2	2.52	0.29	43.02
61	13.61	4	1.99	0.44	87.49	128	14.97	4	2.70	1.09	38.97
62	13.75	4	1.99	0.44	76.86	129	16.20	2	1.46	0.02	27.05
63	13.57	4	3.18	0.71	83.69	130	14.24	2	2.12	0.65	77.28
64	16.38	4	3.18	0.71	41.38	131	15.24	2	2.12	0.65	20.52
65	16.73	2	2.57	0.95	54.02	132	14.60	2	2.12	0.65	74.20
66	13.77	2	3.24	1.24	51.14	133	15.22	2	2.12	0.65	83.24
67	13.79	4	2.61	0.52	56.36	134	15.50	2	2.12	0.65	65.04
68	12.72	4	2.61	0.52	63.81	135	13.99	4	2.11	0.45	54.86
69	14.66	4	3.51	0.90	40.61	136	14.12	4	2.11	0.45	57.86
70	15.19	4	2.11	0.51	68.77	137	17.25	4	2.11	0.45	42.11
71	15.81	4	2.11	0.51	29.97	138	17.04	4	2.11	0.45	52.10
72	15.57	4	2.11	0.51	19.97	139	16.28	4	2.11	0.45	68.30
73	14.02	4	2.11	0.51	57.00	140	14.14	3	2.01	0.43	40.88
74	15.58	3	2.20	0.98	77.61	141	15.32	3	2.01	0.43	50.95
75	14.65	3	2.20	0.98	48.68	142	15.44	3	2.01	0.43	57.19
76	15.68	4	1.51	0.26	79.30	143	13.29	3	2.01	0.43	49.29
77	14.61	4	1.96	0.53	41.89	144	15.45	3	2.01	0.43	64.45
78	15.73	4	1.96	0.53	39.25	145	14.88	4	1.70	0.12	36.12
79	15.76	4	1.96	0.53	47.31	146	14.18	4	1.70	0.12	52.71
80	13.04	4	1.96	0.53	69.76	147	15.46	4	1.70	0.12	49.18
81	16.90	4	1.96	0.53	21.17	148	16.02	4	1.70	0.12	30.72
82	15.65	4	1.96	0.53	55.11	149	15.38	4	3.54	0.72	73.28
83	10.22	4	3.23	0.57	86.17	150	14.89	4	3.10	1.26	25.59
84	13.07	4	3.23	0.57	64.30	151	15.34	3	1.97	0.20	71.19
85	4.69	4	3.23	0.57	70.53	152	16.11	3	1.97	0.20	39.55
86	16.78	2	2.18	0.63	55.18	153	15.68	3	1.97	0.20	36.64
87	15.60	2	2.18	0.63	54.50	154	12.96	3	1.97	0.20	83.49
88	17.46	2	2.18	0.63	19.02	155	14.05	4	1.24	0.25	77.96
89	13.04	2	2.18	0.63	65.04	156	15.33	4	1.24	0.25	72.69
90	13.57	2	2.18	0.63	55.41	157	16.78	4	1.24	0.25	39.03
91	16.99	2	2.18	0.63	49.29	158	16.62	4	3.07	1.13	26.10
92	15.86	3	1.65	0.12	51.98	159	14.97	3	1.46	0.21	44.34
93	16.24	3	1.65	0.12	62.56	160	11.87	3	1.46	0.21	55.00
94	14.58	4	1.83	0.25	61.12	161	12.57	3	1.46	0.21	58.07
95	15.53	4	1.83	0.25	55.75	162	15.28	3	1.46	0.21	45.32
96	16.01	4	1.83	0.25	64.68	163	15.33	4	2.64	1.04	68.47
97	15.71	4	1.83	0.25	54.39	164	14.88	4	2.64	1.04	50.29
98	16.45	3	2.14	0.86	25.23	165	14.99	4	2.64	1.04	68.88
99	14.89	3	2.14	0.86	87.68	166	12.75	4	2.64	1.04	71.98
100	15.12	2	1.38	0.16	54.90	167	16.25	4	2.64	1.04	41.18
101	16.45	2	3.41	0.54	60.74	168	4.75	2	3.44	1.36	60.50
102	16.35	4	1.48	0.18	72.22	169	4.76	2	3.44	1.36	80.30
103	15.26	4	1.48	0.18	57.82	170	15.95	4	2.65	1.18	62.04
104	16.09	4	1.48	0.18	60.46	171	15.85	4	2.85	1.15	37.30
105	16.93	4	1.48	0.18	51.37	172	15.85	4	2.50	1.01	63.16
106	15.70	4	1.48	0.18	65.69	173	15.37	4	2.50	1.01	34.03
107	15.71	4	1.48	0.18	52.17	174	15.53	4	2.50	1.01	34.49
108	14.57	4	1.48	0.18	63.21	175	14.36	4	2.50	1.01	58.70
109	14.26	4	1.48	0.18	42.43	176	15.81	4	2.50	1.01	69.18
110	15.19	4	1.48	0.18	41.45	177	14.54	4	2.50	1.01	56.00
111	14.05	4	1.48	0.18	67.00	178	15.29	4	2.50	1.01	59.69
112	14.96	4	1.48	0.18	61.26	179	15.16	4	3.18	0.98	34.55
113	14.95	4	2.36	0.73	65.23	180	16.12	4	3.18	0.98	43.86
114	14.82	4	2.36	0.73	40.73	181	14.69	2	1.35	0.20	39.96
115	13.72	4	2.36	0.73	45.12	182	14.03	4	3.24	1.08	40.40
116	12.63	4	2.36	0.73	81.55	183	15.04	4	1.98	0.56	37.77
117	15.24	4	2.36	0.73	66.04	184	15.71	4	1.98	0.56	84.96
118	15.36	4	2.36	0.73	80.44	185	15.23	4	1.98	0.56	41.97
119	14.92	4	2.36	0.73	66.59	186	15.99	4	1.98	0.56	58.97
120	15.74	4	2.36	0.73	51.24	187	15.80	4	1.98	0.56	52.91
121	15.44	4	2.36	0.73	71.09	188	17.75	2	3.45	0.70	40.68
122	15.26	4	2.06	0.52	54.12	189	13.92	2	3.45	0.70	83.11
123	16.07	4	2.99	0.43	61.23	190	13.02	2	3.45	0.70	63.39
124	15.56	2	2.52	0.29	82.08	191	16.11	2	3.18	1.36	73.12
125	14.12	2	2.52	0.29	46.65						
126	14.05	2	2.52	0.29	69.59						
						Mean Dpar = 2.22					

Mean Dper = 0.55
Mean length (um)= 15.06+/- 0.13
 Std. Dev. (um)= 1.74
 Skewness = -3.38
 Kurtosis = 17.27

950-08

No Data

950-09

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.21	4	2.41	1.01	36.52
2	15.04	4	2.14	0.56	46.29
3	16.25	3	2.58	1.08	52.86
4	13.19	3	2.58	1.08	80.68
5	16.65	4	2.26	0.76	51.39
6	16.09	4	2.21	0.90	14.99
7	15.93	4	2.21	0.90	84.15
8	14.43	4	2.21	0.90	70.00
9	15.03	4	2.21	0.90	75.88
10	14.34	4	2.21	0.90	39.31
11	15.10	4	2.16	0.61	64.74
12	15.04	4	2.83	0.72	28.01
13	14.61	4	2.21	0.91	85.73
14	14.86	4	2.21	0.91	44.55
15	14.57	4	2.21	0.91	44.73
16	9.05	4	2.21	0.91	72.03
17	13.49	4	2.21	0.91	67.30
18	15.57	4	2.56	0.92	23.26
19	14.87	4	2.56	0.92	61.48
20	15.37	4	2.56	0.92	33.48
21	14.77	4	2.28	0.95	36.30
22	14.86	4	2.28	0.95	14.08
23	14.85	4	2.28	0.95	58.58
24	11.17	4	2.28	0.95	77.71
25	11.68	4	1.94	0.68	52.68
26	15.08	4	1.94	0.68	70.76
27	16.78	4	2.40	0.72	37.01
28	13.03	3	2.13	0.89	50.99
29	15.22	4	2.40	0.75	54.13
30	15.14	4	2.40	0.75	34.63
31	14.95	4	2.24	0.58	72.07
32	15.59	3	2.63	0.63	59.69
33	16.38	3	2.63	0.63	58.60
34	15.55	3	2.63	0.63	75.21
35	14.11	3	2.30	0.34	39.72
36	13.28	4	1.98	0.18	77.27
37	14.73	4	1.98	0.18	61.14
38	16.65	4	2.48	0.84	18.75
39	16.68	4	2.48	0.84	27.34
40	15.43	4	2.48	0.89	45.65
41	14.17	4	2.17	0.56	62.73
42	14.77	3	2.24	0.75	39.58
43	15.59	3	2.24	0.75	65.91
44	14.58	3	2.24	0.75	29.33
45	12.14	2	2.00	0.44	52.35
46	15.15	2	2.00	0.44	20.63
47	15.38	3	1.88	0.77	89.24
48	15.36	4	2.04	0.56	50.09
49	14.03	4	2.70	0.45	88.80
50	15.61	4	2.70	0.45	23.12
51	12.21	4	2.70	0.45	77.80
52	13.56	4	2.70	0.45	65.37
53	14.61	3	2.16	0.62	33.99
54	15.68	2	1.31	0.29	58.34
55	14.33	3	2.19	0.70	67.99
56	16.23	3	2.19	0.70	44.54
57	16.60	3	2.19	0.70	14.16
58	14.79	4	2.44	0.67	51.58
59	12.07	4	2.44	0.67	66.77
60	15.79	3	2.56	0.38	20.93
61	16.08	3	1.86	0.49	33.28

62	14.70	3	1.86	0.49	79.01
63	15.35	3	1.86	0.49	89.43
64	15.29	3	1.86	0.49	43.39
65	16.75	4	2.17	0.71	60.75
66	17.33	4	2.17	0.71	64.51
67	15.65	4	2.06	0.42	15.05
68	16.89	4	2.14	0.89	48.29
69	14.07	4	2.14	0.89	77.96
70	13.54	4	1.90	0.81	62.50
71	14.03	4	2.39	0.65	43.60
72	15.95	4	2.31	0.34	43.27
73	15.27	4	2.52	0.75	68.07
74	15.02	4	2.52	0.75	86.56
75	15.74	4	2.26	0.77	0.00
76	13.60	4	2.26	0.77	31.81
77	15.41	4	2.12	0.52	45.49
78	15.06	4	2.26	0.14	65.55
79	15.54	4	2.73	0.54	42.67
80	13.65	4	1.92	0.54	46.94
81	15.06	4	2.33	0.57	64.73
82	14.53	4	2.33	0.57	55.55
83	14.61	4	2.33	0.57	73.49
84	12.55	2	2.18	0.62	32.88
85	17.26	2	2.18	0.62	55.31
86	15.95	2	2.18	0.62	46.21
87	15.83	2	2.18	0.62	31.78
88	17.07	2	2.18	0.62	45.41
89	16.34	2	2.18	0.62	63.08
90	15.51	2	2.18	0.62	76.59
91	17.41	2	2.18	0.62	43.88
92	14.56	2	2.18	0.62	87.61
93	14.13	4	2.16	0.68	48.71
94	15.69	4	2.06	0.65	59.47
95	16.52	4	2.06	0.65	68.74
96	15.41	4	2.06	0.65	80.15
97	16.30	4	2.06	0.65	67.04
98	17.50	4	2.20	0.48	27.35
99	14.61	4	2.17	0.75	61.47
100	14.62	4	2.21	0.80	58.70
101	15.29	4	2.21	0.80	80.40
102	15.87	4	2.05	0.85	56.44
103	13.60	4	2.05	0.85	54.55
104	15.50	4	2.05	0.85	36.75
105	14.76	3	1.90	0.52	65.31
106	15.96	4	2.52	0.63	33.01
107	14.34	3	2.30	0.28	72.71
108	13.13	4	2.58	0.90	54.98
109	15.63	4	2.58	0.90	34.12
110	15.10	4	1.96	0.25	58.93
111	14.05	4	1.96	0.25	65.52
112	15.72	4	1.96	0.25	64.89
113	13.94	4	2.32	0.37	87.05
114	14.35	4	2.08	0.47	66.98
115	14.79	2	1.73	0.40	54.10
116	14.99	4	2.08	0.67	22.58
117	14.92	2	1.91	0.84	18.23
118	15.92	2	1.98	0.31	24.28
119	15.63	2	1.87	0.59	77.78
120	14.79	4	2.00	0.75	47.73
121	13.93	3	2.11	0.71	83.04
122	13.52	3	2.11	0.71	63.86
123	14.72	4	2.31	0.57	45.34
124	16.46	3	2.30	0.39	41.07
125	13.43	3	2.30	0.39	62.60

Mean Dpar = 2.22
Mean Dper = 0.66

Mean length (um)= 14.96+/- 0.12
Std. Dev. (um)= 1.30
Skewness = -1.06
Kurtosis = 2.85

950-10

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.25	4	1.48	0.16	66.49
2	14.13	4	1.66	0.23	54.15
3	14.31	4	1.66	0.23	86.48
4	13.95	4	1.48	0.19	43.44
5	12.69	4	1.80	0.28	32.27
6	14.70	2	1.65	0.19	55.89
7	14.34	2	1.58	0.43	62.65
8	15.14	3	1.91	0.26	28.08
9	16.06	3	1.91	0.26	52.50
10	15.31	4	2.05	0.23	49.45
11	14.89	4	2.05	0.23	59.28
12	12.66	4	2.05	0.23	76.31
13	5.96	4	2.05	0.23	59.63
14	14.77	4	2.05	0.23	41.72
15	13.59	3	1.92	0.14	42.45
16	15.22	3	1.92	0.14	79.17
17	16.30	4	1.92	0.42	65.85
18	11.93	4	1.92	0.42	54.71
19	15.25	3	1.50	0.18	71.21
20	12.93	4	2.11	0.37	69.93
21	15.18	4	1.60	0.18	46.48
22	15.20	4	1.60	0.18	65.94
23	16.57	4	1.53	0.30	40.63
24	13.71	4	1.53	0.30	38.86
25	14.47	4	1.57	0.18	54.21
26	13.72	4	1.57	0.18	46.73
27	13.86	4	1.57	0.18	64.95
28	14.38	4	1.57	0.18	64.19
29	15.59	4	1.61	0.26	39.36
30	15.07	4	1.61	0.26	39.65
31	14.43	4	1.61	0.26	38.57
32	13.46	4	1.58	0.16	83.28
33	15.49	4	1.59	0.12	41.69
34	14.19	2	0.92	0.09	63.36
35	14.90	4	2.01	0.44	31.53
36	13.79	4	2.01	0.44	82.50
37	13.62	3	1.59	0.16	52.96
38	13.16	3	1.59	0.16	73.68
39	14.47	3	1.84	0.67	89.00
40	10.49	3	1.84	0.67	49.97
41	15.34	4	1.44	0.42	1.93
42	14.30	4	1.50	0.25	70.93
43	14.32	2	1.18	0.16	72.12
44	10.28	4	1.76	0.15	63.96
45	14.42	4	1.76	0.15	41.47
46	15.95	4	1.80	0.09	43.23
47	12.18	4	2.03	0.43	84.95
48	15.93	2	1.71	0.06	34.65
49	14.82	4	1.64	0.19	55.54
50	15.16	4	1.64	0.19	52.73
51	14.93	4	1.64	0.19	49.88
52	15.85	4	1.86	0.16	31.29
53	16.62	4	1.86	0.16	17.85
54	15.36	4	1.97	0.29	36.20
55	13.82	4	1.97	0.29	75.59
56	15.06	4	1.85	0.38	40.74

57	13.93	4	1.47	0.23	27.60
58	15.09	4	1.58	0.07	50.85
59	16.11	4	1.83	0.33	44.05
60	14.13	4	1.38	0.19	34.37
61	15.59	4	1.38	0.19	75.18
62	15.73	4	1.70	0.18	40.70
63	15.72	4	1.70	0.18	41.92
64	14.17	4	1.70	0.18	32.27
65	17.07	4	1.70	0.18	54.46
66	15.54	4	1.70	0.18	67.26
67	13.40	4	1.70	0.18	16.37
68	14.55	4	1.70	0.18	71.23
69	13.64	3	1.58	0.10	60.14
70	12.91	3	1.58	0.10	77.38
71	15.41	3	1.23	0.24	63.19
72	14.27	3	1.60	0.30	46.68
73	13.78	2	1.57	0.09	51.90
74	14.07	3	1.77	0.26	56.58
75	13.40	2	1.37	0.24	43.84
76	16.02	4	1.83	0.11	41.58
77	10.53	4	1.83	0.11	56.36
78	16.05	4	2.00	0.11	79.96
79	9.57	4	2.00	0.11	53.38
80	12.89	4	2.00	0.11	77.84
81	15.89	4	2.00	0.11	45.68
82	12.62	4	2.00	0.11	73.14
83	8.14	4	2.00	0.11	64.32
84	14.86	2	1.60	0.30	30.43
85	13.27	4	2.10	0.12	72.37
86	14.82	4	1.70	0.19	41.54
87	15.08	4	1.70	0.19	70.01
88	14.50	4	1.43	0.07	62.95
89	15.17	4	1.43	0.07	60.06
90	14.90	4	1.93	0.24	46.29
91	13.08	4	1.93	0.24	58.92
92	15.43	4	1.93	0.24	57.14
93	14.98	4	1.93	0.24	42.37
94	13.18	4	1.93	0.24	52.53
95	14.60	3	1.41	0.19	49.71
96	13.11	3	1.41	0.19	83.35
97	13.10	4	1.40	0.21	77.99
98	14.73	4	1.86	0.18	80.11
99	14.51	4	1.86	0.18	78.75
100	15.16	4	1.86	0.18	68.76
101	12.31	4	1.86	0.18	51.66
102	14.79	4	1.76	0.14	87.35
103	15.30	4	1.76	0.14	47.28
104	13.95	4	1.60	0.19	84.74
105	14.85	4	1.60	0.19	75.53
106	15.75	4	1.88	0.30	73.07
107	15.24	4	1.88	0.30	31.05
108	15.54	4	1.97	0.42	40.32
109	15.20	3	1.96	0.26	50.77
110	13.89	3	1.96	0.26	23.17
111	14.79	3	1.96	0.26	41.87
112	16.81	3	1.96	0.26	18.75
113	15.43	3	1.70	0.23	50.26
114	16.52	3	1.70	0.23	26.18
115	14.67	3	1.70	0.23	80.68
116	14.79	4	1.73	0.24	52.36
117	15.90	4	1.73	0.24	17.81
118	14.69	4	1.78	0.09	30.58
119	12.62	4	1.78	0.09	46.09
120	15.34	4	1.86	0.23	66.72
121	17.15	2	1.72	0.21	58.53
122	15.51	4	1.12	0.06	15.52
123	15.95	4	1.12	0.06	82.57

124	13.64	4	1.48	0.19	72.50
125	16.23	4	1.48	0.19	55.67

Mean Dpar = 1.72
 Mean Dper = 0.21
Mean length (um)= 14.41+/- 0.15
 Std. Dev. (um)= 1.64
 Skewness = -1.95
 Kurtosis = 6.36

950-11

No Data

950-12

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.12	2	1.74	0.02	23.59
2	16.29	3	1.31	0.24	49.81
3	15.59	2	1.27	0.16	29.27
4	14.21	2	1.27	0.16	37.73
5	15.69	2	1.58	0.28	51.33
6	13.33	3	1.50	0.26	46.76
7	13.60	3	1.50	0.26	53.46
8	13.58	3	1.50	0.26	32.77
9	13.03	2	1.54	0.29	81.29
10	15.56	4	1.64	0.25	85.72
11	15.91	4	1.64	0.25	49.93
12	14.89	4	1.64	0.35	89.40
13	14.32	2	1.34	0.26	53.76
14	14.90	2	1.34	0.26	63.31
15	16.48	2	1.45	0.24	87.22
16	14.93	2	1.45	0.24	62.50
17	16.13	2	1.73	0.39	78.70
18	15.68	2	1.55	0.18	70.62
19	14.28	2	1.59	0.20	82.55
20	15.53	3	1.37	0.20	64.29
21	12.50	4	1.40	0.24	84.69
22	12.85	4	1.40	0.24	85.12
23	17.04	2	1.17	0.19	82.01
24	13.94	2	1.17	0.19	36.86
25	12.90	4	1.68	0.25	67.68
26	16.58	4	1.68	0.25	44.33
27	13.58	4	1.57	0.31	71.23
28	17.07	2	1.45	0.06	60.12
29	16.16	4	1.87	0.26	38.11
30	14.74	4	1.87	0.26	59.75
31	15.32	2	1.52	0.47	53.21
32	13.82	2	1.52	0.47	73.75
33	14.74	2	1.52	0.47	44.69
34	13.87	4	1.45	0.18	89.45
35	14.87	4	1.45	0.18	72.22
36	14.99	4	1.45	0.18	64.42
37	14.66	4	1.45	0.18	75.20
38	14.01	4	1.45	0.18	81.93
39	14.47	4	1.45	0.18	46.49
40	14.75	4	1.45	0.18	50.25
41	16.26	4	1.55	0.25	19.66
42	17.52	2	1.71	0.24	87.32
43	12.04	2	1.71	0.24	63.91
44	15.97	2	1.71	0.24	64.84
45	14.65	4	1.33	0.11	63.43
46	15.89	2	1.60	0.29	30.99

47	16.82	2	1.60	0.29	58.18
48	12.66	2	1.60	0.29	62.05
49	12.39	2	1.60	0.29	59.60
50	13.34	2	1.55	0.30	61.05
51	14.38	2	1.52	0.26	40.81
52	14.46	2	1.52	0.26	50.04
53	15.21	2	1.32	0.47	41.35
54	15.49	4	1.34	0.31	46.56
55	16.19	4	1.34	0.31	10.71
56	12.80	2	1.26	0.09	85.34
57	12.69	4	1.37	0.11	75.35
58	12.17	4	1.37	0.11	76.51
59	14.56	2	1.15	0.29	45.91
60	15.12	2	1.15	0.29	46.73
61	14.53	3	1.57	0.16	62.20
62	14.60	3	1.57	0.16	85.08
63	15.10	3	1.53	0.20	44.59
64	14.27	3	1.53	0.20	35.64
65	15.34	3	1.53	0.20	62.99
66	13.67	3	1.65	0.28	87.64
67	14.25	3	1.65	0.28	69.67
68	14.75	3	1.65	0.28	31.63
69	14.31	3	1.65	0.28	54.66
70	11.74	2	1.73	0.26	28.68
71	16.25	2	1.73	0.26	30.03
72	16.15	3	1.53	0.29	52.04
73	15.04	4	1.38	0.19	72.22
74	16.07	4	1.38	0.19	54.24
75	15.55	4	1.37	0.06	77.88
76	14.91	2	1.21	0.04	42.38
77	15.86	4	1.43	0.16	66.75
78	16.00	4	1.43	0.16	27.95
79	14.04	4	1.52	0.24	65.15
80	16.19	4	1.52	0.24	89.61
81	13.12	4	1.52	0.24	50.79
82	15.92	2	1.11	0.16	56.78
83	15.94	2	1.11	0.16	32.27
84	13.95	4	1.38	0.10	71.50
85	13.43	4	1.38	0.10	69.92
86	14.83	2	1.78	0.40	61.22
87	16.28	2	1.78	0.40	51.53
88	14.82	2	1.78	0.40	71.70
89	15.31	2	1.78	0.40	26.86
90	12.30	2	1.78	0.40	61.61
91	15.84	3	1.52	0.24	65.89
92	13.76	3	1.52	0.24	69.40
93	14.13	3	1.52	0.24	67.57
94	14.35	3	1.52	0.24	24.17
95	15.76	3	1.60	0.30	76.04
96	15.55	3	1.60	0.30	28.05
97	15.10	3	1.60	0.30	80.12
98	15.40	2	1.18	0.20	38.20
99	13.93	3	1.63	0.15	49.31
100	17.51	2	1.68	0.16	5.73
101	13.80	3	1.64	0.43	63.56
102	13.05	3	1.64	0.43	81.73
103	14.70	3	1.64	0.43	58.72
104	13.54	4	1.48	0.23	62.91
105	14.06	4	1.48	0.23	88.41
106	16.47	4	1.63	0.38	51.79
107	14.20	4	1.61	0.24	73.49
108	11.52	4	2.00	0.18	60.97
109	12.48	4	2.00	0.18	73.70
110	15.80	4	1.58	0.07	47.04
111	16.26	4	1.58	0.07	34.94
112	10.80	4	1.58	0.07	76.14
113	17.08	4	1.58	0.07	32.93

114	15.26	4	1.87	0.44	64.03
115	13.42	4	1.87	0.44	56.66
116	15.11	4	1.87	0.44	78.71
117	13.77	4	1.87	0.44	84.24
118	15.65	4	1.68	0.25	69.22
119	15.05	4	1.68	0.25	58.39
120	15.51	4	1.51	0.10	28.58
121	16.13	4	1.71	0.21	58.03
122	15.40	4	1.71	0.21	54.33
123	16.13	4	1.71	0.21	39.48
124	14.24	3	1.64	0.25	53.53
125	14.69	4	1.34	0.15	88.96
126	13.45	4	1.34	0.15	66.43

Mean Dpar = 1.54
 Mean Dper = 0.24
Mean length (um) = 14.73+/- 0.12
 Std. Dev. (um) = 1.33
 Skewness = -0.38
 Kurtosis = -0.19

950-13

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.79	4	1.57	0.21	30.18
2	13.59	4	1.28	0.16	46.83
3	15.85	4	1.28	0.16	44.36
4	15.44	2	1.51	0.19	40.41
5	15.18	4	1.37	0.25	72.73
6	14.92	4	1.37	0.25	46.49
7	13.15	4	1.37	0.25	85.35
8	14.00	4	1.37	0.25	54.89
9	11.64	4	1.37	0.25	79.41
10	14.48	2	1.55	0.34	33.27
11	16.44	2	1.55	0.34	39.08
12	16.17	2	1.55	0.34	56.69
13	14.82	2	1.55	0.34	48.03
14	15.23	2	1.55	0.34	71.97
15	13.40	3	1.46	0.35	58.90
16	11.22	3	1.46	0.35	68.18
17	14.54	3	1.46	0.35	56.08
18	12.98	3	1.46	0.35	64.08
19	15.46	2	1.43	0.04	31.98
20	15.64	2	1.43	0.04	68.38
21	16.19	3	1.35	0.23	39.36
22	12.67	4	1.39	0.20	39.61
23	13.93	4	1.38	-0.04	40.66
24	13.23	4	1.38	-0.04	44.42
25	16.63	4	1.38	-0.04	14.54
26	15.79	2	1.44	0.29	54.59
27	14.58	2	1.44	0.29	78.94
28	11.21	2	1.44	0.29	84.85
29	14.87	2	1.44	0.29	52.49
30	12.18	2	1.44	0.29	64.30
31	14.18	3	1.40	0.07	79.00
32	13.49	3	1.31	0.18	46.70
33	10.18	3	1.31	0.18	77.27
34	12.58	2	1.39	0.06	49.11
35	14.59	2	1.39	0.06	65.85
36	11.49	2	1.39	0.06	64.31
37	11.45	4	1.25	0.20	86.82
38	13.18	2	1.31	0.23	44.97
39	14.72	2	1.31	0.23	74.66
40	12.09	2	1.19	0.18	77.75

41	15.63	1	1.38	0.19	37.12
42	13.22	4	1.97	0.29	65.79
43	15.90	4	1.97	0.29	38.82
44	15.65	4	1.97	0.29	23.55
45	15.83	4	1.97	0.29	38.34
46	12.63	2	1.27	0.25	53.75
47	11.29	2	1.15	0.29	54.91
48	14.00	2	1.15	0.29	19.82
49	11.39	2	1.39	0.21	69.47
50	14.22	4	1.31	0.21	56.29
51	14.02	4	1.31	0.21	62.01
52	12.93	4	1.31	0.21	64.67
53	13.26	4	1.18	0.12	56.90
54	12.42	4	1.38	0.10	72.30
55	15.90	2	1.19	0.20	64.15
56	12.65	2	1.12	0.02	72.46
57	15.51	2	1.12	0.02	66.64
58	14.53	4	1.26	0.02	59.27
59	12.76	4	1.33	0.15	41.98
60	12.77	4	1.33	0.15	46.80
61	12.42	4	1.33	0.15	36.26
62	10.00	4	1.33	0.15	63.96
63	14.35	2	1.65	0.18	41.83
64	15.90	4	1.34	0.19	31.59
65	16.16	2	1.59	0.20	21.70
66	15.05	2	1.48	0.30	66.01
67	15.25	2	1.48	0.30	53.30
68	12.11	2	1.48	0.30	45.47
69	14.46	2	1.25	0.29	24.29
70	15.67	2	1.25	0.29	25.78
71	16.83	4	1.39	0.19	42.63
72	13.06	3	1.12	0.07	58.66
73	15.10	4	1.33	0.19	59.90
74	12.42	4	1.33	0.19	61.89
75	15.95	4	1.33	0.19	41.73
76	15.94	4	1.24	0.14	34.85
77	12.45	4	1.33	0.12	62.02
78	12.71	2	1.61	0.04	79.29
79	12.84	2	1.38	0.34	41.97
80	15.64	2	1.12	0.12	23.92
81	16.87	3	1.18	0.19	78.14
82	12.31	2	1.07	0.12	71.72
83	15.69	2	1.31	0.18	44.43
84	13.60	2	1.31	0.18	41.81
85	15.75	3	1.08	0.23	59.34
86	11.20	4	1.50	0.21	85.50
87	12.81	4	1.50	0.21	33.47
88	15.32	4	1.50	0.21	31.81
89	12.73	4	1.50	0.21	68.35
90	13.77	4	1.50	0.21	56.15
91	14.14	4	1.50	0.21	34.74
92	14.03	4	1.50	0.21	55.96
93	13.00	4	1.50	0.21	88.13
94	14.74	4	1.50	0.21	61.84
95	12.53	4	1.50	0.21	88.26
96	11.32	4	1.50	0.21	87.78
97	14.27	4	1.50	0.21	81.41
98	16.35	3	1.23	0.12	61.70
99	9.65	3	1.44	0.25	43.19
100	14.28	2	1.43	0.05	70.02
101	16.18	2	1.43	0.05	28.35
102	12.75	2	1.43	0.05	84.30
103	14.87	3	1.39	0.21	60.11
104	15.13	3	1.39	0.21	29.31
105	13.39	2	1.25	0.37	43.53
106	13.20	3	1.25	0.09	36.54
107	12.42	4	1.26	0.09	75.77

108	12.44	2	1.37	0.19	51.59
109	16.46	2	1.23	0.16	65.60
110	13.52	4	1.33	0.11	64.85
111	12.18	2	1.60	0.09	40.75
112	14.65	2	1.53	0.18	49.43
113	16.85	2	1.53	0.18	16.88
114	10.18	2	1.53	0.18	76.40
115	13.64	4	1.30	0.16	72.34
116	10.06	4	1.30	0.16	51.05
117	12.42	4	1.30	0.16	87.96
118	11.49	4	1.30	0.16	70.78
119	12.78	4	1.30	0.16	64.57
120	12.98	4	1.30	0.16	61.02
121	11.76	2	1.37	0.26	69.75
122	14.11	2	1.37	0.26	43.00
123	13.11	2	1.28	-0.00	84.72
124	11.40	2	1.28	-0.00	86.71
125	15.78	3	1.48	0.23	70.83
126	15.79	3	1.48	0.23	60.31
127	16.44	3	1.48	0.23	75.95

Mean Dpar = 1.39
 Mean Dper = 0.19
Mean length (um)= 13.85+/- 0.15
 Std. Dev. (um)= 1.73
 Skewness = -0.23
 Kurtosis = -0.77

950-14

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.09	4	1.23	0.25	44.71
2	16.09	4	1.23	0.25	41.62
3	14.46	4	2.47	1.01	60.46
4	7.33	4	2.47	1.01	42.09
5	15.43	4	2.47	1.01	20.43
6	11.09	2	1.52	0.34	80.71
7	8.72	2	1.52	0.34	55.21
8	14.25	2	1.44	0.19	29.66
9	9.47	2	1.44	0.19	70.46
10	10.92	4	1.61	-0.00	68.11
11	14.34	4	1.61	-0.00	43.69

Mean Dpar = 1.73

Mean Dper = 0.42

Mean length (um)= 12.47+/- 0.97

Std. Dev. (um)= 3.05

Skewness = -0.35

Kurtosis = -1.62

950-15

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	13.74	2	0.84	0.01	41.54
2	13.49	3	1.60	0.21	51.67
3	14.57	3	1.60	0.21	64.60
4	14.67	4	1.64	0.28	70.02
5	14.75	4	1.60	0.20	69.03
6	11.74	4	1.60	0.20	89.75
7	14.85	4	1.60	0.20	28.00
8	11.43	4	1.60	0.20	79.20
9	14.62	4	1.60	0.20	70.54
10	12.71	4	1.52	0.06	63.15
11	14.84	3	1.54	0.23	26.57
12	15.79	4	1.61	0.20	89.02
13	14.42	3	1.73	0.06	73.88
14	11.25	3	1.73	0.06	81.41
15	16.55	4	1.70	0.28	47.78
16	16.55	4	1.70	0.28	30.08
17	15.50	3	1.60	0.37	64.86
18	15.55	2	1.53	0.20	83.43
19	15.55	3	1.74	0.14	54.36
20	14.87	3	1.74	0.14	64.70
21	16.00	3	1.74	0.14	39.78
22	13.19	4	1.67	0.25	77.91
23	12.91	4	1.67	0.25	78.37
24	16.01	4	1.67	0.25	26.06
25	15.55	4	1.67	0.25	12.64
26	15.72	4	1.46	0.35	35.84
27	11.97	2	1.54	0.11	87.80
28	14.33	3	1.55	0.28	80.95
29	14.83	3	1.55	0.28	69.92
30	15.65	3	1.51	0.23	40.00
31	15.62	3	1.51	0.23	47.08
32	13.19	3	1.77	0.34	48.20
33	13.11	3	1.77	0.34	69.90
34	14.11	2	1.48	0.11	63.88
35	13.55	2	1.48	0.11	64.83
36	15.03	4	1.59	0.18	55.70

37	15.67	4	1.59	0.18	53.65
38	11.52	4	1.59	0.18	71.91
39	14.11	2	1.60	0.33	39.96
40	14.56	2	1.60	0.33	47.22
41	15.31	2	1.37	0.12	56.76
42	15.56	2	1.54	0.29	62.52
43	14.89	4	1.37	0.18	65.51
44	15.59	4	1.37	0.18	54.04
45	14.40	4	1.37	0.18	62.23
46	14.04	4	1.37	0.18	32.14
47	14.85	4	1.37	0.18	60.14
48	14.81	4	1.37	0.18	62.40
49	14.49	4	1.47	0.18	82.46
50	13.50	4	1.47	0.18	84.96
51	15.25	4	1.64	0.14	85.14
52	12.92	4	1.64	0.14	48.15
53	13.00	4	1.64	0.14	63.02
54	15.11	4	1.41	0.26	40.92
55	17.04	4	1.39	0.42	27.03
56	14.93	4	1.39	0.42	47.16
57	12.83	4	1.39	0.42	50.98
58	14.89	4	1.39	0.42	31.18
59	10.42	2	1.11	0.29	86.20
60	14.57	2	1.11	0.29	84.69
61	15.30	4	1.54	0.20	36.06
62	13.38	4	1.38	0.12	81.06
63	16.06	4	1.38	0.12	20.65
64	14.20	3	1.27	0.20	58.08
65	15.07	3	1.27	0.20	44.21
66	16.17	4	1.60	0.29	47.73
67	14.77	4	1.60	0.29	40.33
68	16.43	2	1.87	0.52	14.74
69	13.00	4	1.83	0.28	88.41
70	13.66	3	1.66	0.18	43.98
71	13.80	3	1.66	0.18	69.77
72	16.14	3	1.66	0.18	43.69
73	14.88	2	1.35	-0.00	58.53
74	15.90	2	1.35	-0.00	46.70
75	14.83	2	1.35	-0.00	39.87
76	13.63	2	1.35	-0.00	36.86
77	14.81	4	1.59	0.07	88.30
78	15.11	3	1.35	0.12	62.63
79	13.06	3	1.35	0.12	54.18
80	13.91	3	1.35	0.12	60.62
81	15.49	2	1.70	0.07	63.19
82	14.67	2	1.70	0.07	60.87
83	16.59	3	1.67	0.12	28.26
84	12.75	3	1.43	0.47	75.69
85	14.91	2	1.64	0.10	86.36
86	16.15	3	1.43	0.33	58.70
87	14.76	4	1.71	0.10	50.83
88	15.94	2	1.47	0.29	36.65
89	13.89	3	1.05	0.12	78.11
90	14.47	1	3.14	0.29	43.89
91	15.19	3	2.01	0.37	45.78
92	15.93	3	2.01	0.37	45.05
93	14.87	3	2.01	0.37	77.30
94	13.83	3	2.01	0.37	53.46
95	14.47	3	2.01	0.37	51.91
96	14.74	3	2.01	0.37	45.33
97	15.49	2	1.53	0.21	65.21
98	15.15	2	1.53	0.21	44.52
99	10.71	3	1.63	0.15	72.49
100	13.43	3	1.53	0.21	64.87
101	16.88	3	1.53	0.21	47.23
102	14.55	4	1.91	0.29	87.29
103	15.62	3	1.76	0.16	45.45

104	14.98	4	1.33	0.16	55.21
105	14.03	4	1.33	0.16	72.91
106	12.77	4	1.33	0.16	13.01
107	14.22	4	1.38	0.21	55.85
108	12.22	3	1.51	0.23	83.52
109	14.56	3	1.51	0.23	44.46
110	12.60	4	1.71	0.16	73.76
111	13.99	4	1.39	0.07	57.44
112	15.71	4	1.39	0.07	49.97
113	14.27	4	1.39	0.07	59.60
114	13.98	3	1.50	0.09	60.94
115	14.13	3	1.50	0.09	52.73
116	15.26	3	1.50	0.09	33.10
117	14.25	3	1.50	0.09	42.00
118	12.27	3	1.50	0.09	82.62
119	14.14	3	1.53	0.23	53.16
120	14.60	3	1.53	0.23	75.49
121	12.55	3	1.53	0.23	82.89
122	13.69	4	1.84	0.12	74.90
123	15.67	3	1.92	0.26	46.16
124	13.93	3	1.92	0.26	83.97
125	16.08	2	1.20	0.16	70.30

Mean Dpar = 1.56
Mean Dper = 0.20
Mean length (um)= 14.46+/- 0.12
Std. Dev. (um)= 1.31
Skewness = -0.67
Kurtosis = 0.34

950-16

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.81	3	1.74	0.06	52.11
2	12.94	3	1.74	0.06	62.67
3	15.00	4	1.92	0.14	71.04
4	15.43	2	1.51	0.35	66.31
5	16.55	2	1.51	0.35	19.03
6	15.36	2	1.50	0.23	43.03
7	15.26	2	1.50	0.23	38.80
8	15.02	4	1.78	0.24	52.18
9	15.24	4	1.78	0.24	39.21
10	16.08	4	1.78	0.24	28.53
11	15.83	4	1.78	0.24	40.18
12	16.89	4	1.78	0.24	35.03
13	16.31	4	1.78	0.24	40.30
14	13.26	4	1.78	0.24	47.47
15	16.55	4	1.78	0.24	31.22
16	13.15	4	1.78	0.24	68.98
17	14.42	4	1.78	0.24	55.51
18	15.76	4	1.78	0.24	23.00
19	15.32	4	1.58	0.40	51.33
20	14.67	4	1.58	0.40	54.61
21	17.43	2	1.51	0.56	39.11
22	12.28	4	1.61	0.26	52.57
23	13.55	4	1.61	0.26	58.85
24	17.08	4	1.61	0.26	44.14
25	15.07	4	2.18	0.37	11.45
26	16.16	4	2.18	0.37	25.45
27	16.78	4	2.18	0.37	74.88
28	14.68	4	2.18	0.37	46.84
29	14.58	4	2.18	0.37	29.85
30	15.84	2	1.54	0.11	44.17
31	16.66	2	1.79	0.33	50.91

32	15.23	2	1.65	0.19	61.26
33	16.01	2	1.65	0.19	15.84
34	5.91	4	1.67	0.11	65.29
35	14.93	4	1.71	0.16	62.94
36	13.65	4	1.71	0.16	72.93
37	16.02	4	1.71	0.16	42.77
38	12.51	4	1.71	0.16	65.85
39	15.39	4	1.71	0.16	73.64
40	13.50	4	1.39	0.18	74.93
41	15.18	4	1.39	0.18	62.50
42	11.95	4	1.39	0.18	66.53
43	15.67	4	1.39	0.18	46.92
44	12.01	4	1.39	0.18	68.53
45	15.40	4	1.39	0.18	67.54
46	15.51	4	1.39	0.18	60.51
47	14.89	4	1.54	0.16	31.37
48	15.61	4	1.54	0.16	42.76
49	11.21	4	1.54	0.16	83.15
50	14.56	4	1.52	0.05	61.59
51	15.65	4	1.52	0.05	12.89
52	14.05	3	1.41	0.38	61.55
53	11.35	4	1.59	0.30	53.34
54	14.94	4	1.59	0.30	13.09
55	15.92	4	1.59	0.30	40.44
56	14.08	4	1.53	0.15	54.96
57	15.46	4	1.53	0.15	51.40
58	15.31	4	1.53	0.15	24.60
59	16.76	4	1.53	0.15	29.77
60	14.16	4	1.53	0.15	80.39
61	15.61	4	1.64	0.21	71.08
62	9.67	4	1.64	0.21	50.72
63	11.77	4	1.37	0.24	68.57
64	16.94	4	1.37	0.24	18.98
65	15.50	4	1.66	0.12	52.30
66	17.07	4	1.71	0.23	64.04
67	14.29	4	1.71	0.23	89.59
68	15.83	4	1.99	0.21	84.11
69	14.54	4	1.60	0.30	59.91
70	12.30	4	1.60	0.30	64.34
71	8.57	4	1.60	0.30	83.16
72	13.71	4	1.68	0.26	88.20
73	13.48	4	1.68	0.26	39.52
74	14.13	4	1.68	0.26	60.92
75	16.91	4	1.92	0.14	33.56
76	16.87	4	1.92	0.14	21.92
77	15.68	4	1.92	0.14	74.85
78	14.68	3	2.20	0.23	62.57
79	16.54	4	1.59	0.18	59.77
80	14.01	4	1.71	0.47	29.13
81	15.64	4	1.71	0.47	22.99
82	12.63	4	1.77	0.19	87.04
83	15.65	4	1.77	0.19	58.85
84	15.37	4	1.77	0.19	75.19
85	11.35	4	1.37	0.19	65.46
86	13.58	4	1.37	0.19	58.83
87	12.67	4	1.37	0.19	68.58
88	11.99	4	1.64	0.31	38.66
89	15.25	4	1.71	0.21	44.20
90	15.49	4	1.71	0.21	63.98
91	11.42	4	1.71	0.21	76.89
92	16.90	4	1.71	0.21	39.81
93	17.41	4	1.71	0.21	46.58
94	16.42	4	1.71	0.15	30.99
95	15.51	4	1.71	0.15	70.89
96	15.51	4	1.71	0.15	35.26
97	17.11	3	1.46	0.10	55.97
98	14.49	3	1.46	0.10	77.93

99	16.07	3	1.63	0.33	11.20
100	15.35	3	1.63	0.33	48.38
101	12.92	4	1.70	0.19	54.77
102	13.82	4	1.70	0.19	77.35
103	15.40	4	1.70	0.19	46.57
104	16.58	4	1.70	0.19	35.81
105	14.45	4	1.55	0.18	52.14
106	12.68	4	1.55	0.18	83.98
107	14.92	4	1.55	0.18	56.33
108	13.54	4	1.55	0.18	73.37
109	11.61	4	1.55	0.18	51.07
110	14.91	4	1.74	0.11	45.74
111	14.70	3	1.94	0.33	72.45
112	15.36	3	1.94	0.33	46.61
113	16.13	4	1.59	0.09	26.17
114	15.13	4	1.80	0.15	85.15
115	14.46	4	1.80	0.15	53.51
116	15.18	4	1.84	0.18	64.81
117	14.67	4	1.84	0.18	35.30
118	14.65	4	1.84	0.18	39.65
119	16.01	4	1.84	0.18	28.27
120	13.25	4	1.66	0.21	64.50
121	16.13	4	1.66	0.21	41.05
122	13.52	4	1.66	0.21	66.04
123	13.50	4	1.66	0.21	73.49
124	15.59	4	1.72	0.12	51.49
125	15.48	4	1.72	0.12	29.57
126	15.81	4	1.72	0.12	42.71

Mean Dpar = 1.67
 Mean Dper = 0.22
Mean length (um)= 14.69+/- 0.16
 Std. Dev. (um)= 1.81
 Skewness = -1.54
 Kurtosis = 3.96

950-17

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.70	4	1.64	0.18	63.25
2	16.34	3	1.50	0.16	40.11
3	16.53	3	1.50	0.16	80.71
4	14.83	4	1.58	0.28	55.80
5	12.56	4	1.58	0.28	60.88
6	15.32	4	1.58	0.28	76.30
7	14.12	3	1.63	0.18	57.09
8	16.37	2	1.55	0.37	41.14
9	15.67	2	1.55	0.37	54.67
10	14.64	3	1.61	0.15	33.27
11	16.51	3	1.61	0.15	2.99
12	15.67	3	1.61	0.15	21.06
13	13.48	2	2.08	0.26	19.88
14	13.34	2	1.90	0.40	70.86
15	14.10	4	1.55	0.12	69.89
16	16.52	3	1.54	0.29	85.57
17	15.26	3	1.54	0.29	46.12
18	14.41	3	1.54	0.29	52.42
19	14.87	3	1.54	0.29	40.80
20	14.22	2	1.35	0.18	78.27
21	16.47	3	1.72	0.18	35.05
22	14.64	2	1.27	0.12	89.30
23	15.15	2	1.27	0.12	64.65
24	13.41	2	1.55	0.04	36.33
25	13.66	2	1.55	0.04	56.35

26	17.16	4	1.53	0.24	16.20
27	15.32	2	1.47	0.25	11.09
28	13.62	2	1.47	0.25	53.07
29	15.84	4	1.37	0.10	65.82
30	12.92	4	1.37	0.10	68.82
31	13.40	4	1.45	0.19	74.91
32	14.25	4	1.57	0.09	73.09
33	16.40	3	1.24	0.34	49.34
34	14.84	4	1.70	0.19	75.23
35	15.59	2	1.33	0.16	39.77
36	14.44	4	1.48	0.29	41.27
37	15.94	4	1.48	0.29	20.12
38	12.82	2	1.54	0.40	54.33
39	15.79	4	1.72	0.24	34.98
40	15.79	4	1.72	0.24	38.62
41	13.80	4	1.72	0.24	53.22
42	13.89	4	1.40	0.07	38.26
43	14.72	4	1.40	0.07	86.25
44	15.78	4	1.40	0.07	34.44
45	17.13	4	1.40	0.07	73.89
46	15.64	3	1.25	0.19	85.60
47	10.39	2	1.58	0.14	62.36
48	14.59	4	1.83	0.20	41.11
49	17.51	4	1.83	0.20	14.93
50	15.96	4	1.83	0.20	31.35
51	17.60	4	1.77	0.18	22.63
52	16.77	4	1.77	0.18	34.61
53	14.89	4	1.77	0.18	40.07
54	15.16	4	2.06	0.34	48.87
55	12.61	3	1.60	0.29	86.23
56	14.23	2	1.54	0.39	39.60
57	16.10	2	1.54	0.39	46.78
58	15.85	2	1.54	0.39	56.32
59	12.69	4	1.35	0.18	65.85
60	16.12	4	1.73	0.26	67.23
61	15.12	4	1.73	0.26	65.81
62	15.56	4	1.87	0.49	54.21
63	12.48	4	1.87	0.49	76.40
64	14.11	4	1.72	0.19	59.33
65	17.70	4	1.59	0.12	26.81
66	16.07	4	1.48	0.24	44.36
67	16.14	4	1.66	0.29	40.87
68	15.12	4	1.66	0.29	44.10
69	15.57	4	1.66	0.29	50.71
70	14.87	4	1.77	0.52	78.95
71	17.02	4	1.78	0.33	33.36
72	16.74	4	1.78	0.33	39.95
73	13.25	4	1.78	0.33	71.08
74	13.86	4	1.76	0.20	22.79
75	15.06	4	1.76	0.20	34.09
76	15.65	3	1.50	0.38	76.27
77	13.65	3	1.50	0.38	76.28
78	13.37	4	1.45	0.12	87.50
79	16.46	4	1.45	0.12	41.08
80	15.78	4	1.45	0.12	52.29
81	15.25	4	1.61	0.16	67.95
82	13.54	4	1.70	0.39	35.31
83	14.90	3	1.45	0.07	49.69
84	15.60	2	1.57	0.15	72.26
85	17.46	4	1.87	0.29	63.88
86	15.92	4	1.87	0.29	46.95
87	8.60	4	1.87	0.29	57.61
88	15.61	4	1.72	0.07	47.09
89	14.42	4	1.72	0.07	67.73
90	17.98	4	1.97	0.12	42.75
91	16.68	4	1.97	0.12	88.04
92	14.49	2	1.54	0.34	64.18

93	14.52	4	1.74	0.30	79.53
94	16.60	4	1.74	0.30	45.65
95	15.50	4	1.54	0.07	75.96
96	13.66	4	1.67	0.25	61.80
97	14.62	4	1.60	0.24	46.34
98	15.15	4	1.60	0.24	84.49
99	14.35	4	1.60	0.24	65.02
100	14.90	4	1.60	0.24	40.08
101	12.14	3	1.66	0.29	68.50
102	15.58	4	1.66	0.23	47.02
103	15.55	4	1.66	0.23	49.90
104	16.10	3	1.38	0.20	37.67
105	16.63	3	1.38	0.20	31.50
106	15.53	4	1.41	0.28	28.31
107	14.94	4	1.84	0.06	29.21
108	16.15	2	1.45	0.31	68.60
109	15.32	3	1.85	0.28	55.84
110	15.55	3	1.85	0.28	43.39
111	15.55	4	1.65	0.28	56.80
112	15.84	4	1.94	0.18	73.65
113	11.15	2	1.66	0.09	78.19
114	13.88	2	1.66	0.09	54.66
115	16.16	3	1.63	0.29	22.68
116	15.19	2	1.59	0.19	60.57
117	15.06	4	1.53	0.24	64.19
118	13.14	4	1.53	0.24	67.68
119	15.69	4	1.53	0.24	73.04
120	15.21	3	1.73	0.05	55.66
121	13.87	3	1.73	0.05	62.99
122	14.74	3	1.73	0.05	58.44
123	15.58	3	1.73	0.05	37.50
124	15.71	4	1.90	0.56	72.14
125	16.03	4	1.90	0.56	74.58
126	14.88	4	1.90	0.56	14.53

Mean Dpar = 1.63
Mean Dper = 0.23
Mean length (um)= 15.02+/- 0.13
Std. Dev. (um)= 1.45
Skewness = -1.03
Kurtosis = 2.57

950-18

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.81	4	1.55	0.20	9.11
2	15.94	4	1.59	0.12	66.02
3	14.17	4	1.61	0.14	81.32
4	13.71	4	1.61	0.14	73.16
5	12.98	3	1.81	0.10	49.76
6	13.29	3	1.81	0.10	76.83

Mean Dpar = 1.67
Mean Dper = 0.13
Mean length (um)= 14.15+/- 0.49
Std. Dev. (um)= 1.09
Skewness = 0.48
Kurtosis = -1.48

950-19

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
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1	15.41	2	1.24	0.28	36.53
2	15.98	2	1.24	0.28	12.33

Mean Dpar = 1.24
Mean Dper = 0.28
Mean length (um)= 15.69+/- 0.40
Std. Dev. (um)= 0.40
Skewness = -0.00
Kurtosis = -2.75

950-20

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	16.37	4	1.90	0.54	46.65
2	14.61	4	1.90	0.54	34.07
3	15.60	4	1.90	0.54	38.07
4	16.95	4	1.37	0.24	29.41
5	15.28	3	3.51	0.54	42.46
6	14.14	3	1.91	0.16	81.93
7	14.95	3	2.06	0.43	74.19
8	13.68	3	3.05	0.66	26.43
9	16.57	3	2.05	0.19	15.47
10	14.46	4	2.14	0.35	63.77
11	13.46	4	2.14	0.35	48.34
12	15.70	2	3.46	0.58	48.77
13	14.65	4	3.85	0.77	68.40
14	15.80	2	2.44	0.56	28.51
15	16.33	3	3.01	0.61	57.55
16	16.15	3	3.01	0.61	35.34
17	13.82	4	3.11	0.43	62.33
18	16.75	3	3.53	0.86	32.14
19	15.59	3	3.53	0.86	47.81
20	15.61	3	3.53	0.86	41.41
21	16.31	2	3.46	0.66	42.24
22	15.44	4	3.85	0.65	48.53
23	13.09	3	3.50	1.06	42.92
24	12.44	4	3.93	0.44	78.55
25	16.48	4	3.66	0.54	32.50
26	16.12	4	2.87	0.72	34.61
27	14.83	4	2.87	0.72	47.34
28	16.34	4	2.56	0.25	34.30
29	12.87	3	2.47	0.37	88.90
30	14.45	4	3.76	0.51	36.46
31	14.48	4	3.76	0.51	31.60
32	16.92	3	2.46	0.45	58.12
33	16.04	3	2.46	0.45	53.70
34	15.34	4	2.57	0.23	68.26
35	15.39	4	4.00	0.78	39.05
36	14.09	4	2.19	0.28	19.16
37	11.88	4	2.19	0.28	56.33
38	14.80	4	2.19	0.28	75.86
39	17.05	3	2.94	0.30	38.63
40	14.43	3	2.87	0.52	58.90
41	15.00	4	3.84	0.66	63.80
42	16.24	2	2.21	0.20	8.85
43	17.58	4	1.80	0.31	53.56
44	15.54	4	1.80	0.31	66.34
45	14.89	4	1.80	0.31	46.16
46	15.25	4	1.80	0.31	62.75
47	11.14	4	1.80	0.31	80.93
48	15.69	4	2.46	0.42	26.02
49	14.86	4	2.46	0.42	31.19
50	15.01	2	2.10	0.58	84.05

51	14.79	3	1.83	0.38	76.50
52	15.88	4	2.63	0.48	77.61
53	14.11	4	2.63	0.48	54.74
54	16.10	4	2.63	0.48	37.58
55	15.48	4	2.63	0.48	47.28
56	14.80	4	2.63	0.48	50.85
57	16.85	4	3.04	0.52	76.74
58	16.09	4	3.04	0.52	58.24
59	14.71	4	3.00	0.52	71.09
60	16.12	4	3.00	0.52	39.29
61	13.93	3	1.91	0.28	81.61
62	15.35	4	3.37	0.39	27.85
63	15.61	3	2.72	0.49	52.02
64	16.47	2	3.09	0.72	71.47
65	11.80	4	3.64	0.95	44.17
66	16.03	4	2.10	0.24	52.93
67	15.77	4	2.10	0.24	58.94
68	15.98	4	2.10	0.24	47.40
69	15.31	4	2.10	0.24	87.85
70	16.05	4	2.10	0.24	81.67
71	15.04	4	2.10	0.24	79.53
72	15.20	3	2.07	0.14	37.93
73	16.50	4	3.67	0.73	51.70
74	15.56	4	3.59	0.78	87.00
75	14.76	2	3.06	0.59	43.74
76	13.92	2	3.06	0.59	69.25
77	15.20	2	3.06	0.59	25.87
78	15.15	2	3.06	0.59	33.33
79	17.30	2	3.06	0.59	37.85
80	16.42	2	3.06	0.59	53.40
81	15.69	2	3.06	0.59	24.62
82	16.39	4	3.41	0.44	59.14
83	14.77	2	4.77	0.66	47.59
84	15.14	4	3.57	0.67	30.47
85	16.99	4	3.57	0.67	87.86
86	16.07	4	3.57	0.67	67.32
87	16.26	4	3.57	0.67	27.75
88	13.70	4	3.03	0.68	56.48
89	13.05	4	2.64	0.70	59.28
90	14.55	4	2.64	0.70	37.69
91	16.78	2	4.14	0.76	63.98
92	15.52	4	3.79	0.62	22.85
93	14.74	4	3.79	0.62	77.55
94	16.85	4	3.79	0.62	64.67
95	15.91	2	2.72	0.11	45.77
96	16.58	4	2.63	0.84	21.88
97	15.62	4	2.23	0.25	51.47
98	15.72	4	2.23	0.25	12.44
99	16.08	3	2.40	0.42	22.19
100	13.94	4	1.63	0.23	82.78
101	16.61	4	2.71	0.65	32.02
102	16.25	4	2.71	0.65	55.94
103	16.62	3	3.57	0.54	37.48
104	16.28	2	3.71	0.92	83.41
105	15.35	4	1.76	0.29	82.65
106	16.26	4	1.76	0.29	51.99
107	14.91	4	3.94	0.73	67.80
108	15.79	2	1.85	0.24	68.08
109	16.03	3	3.20	0.53	79.70
110	16.11	2	3.05	0.30	42.05
111	16.04	4	3.32	0.52	51.57
112	13.52	4	3.19	0.63	72.06
113	13.74	4	3.19	0.63	87.25
114	15.20	2	3.18	0.52	25.25
115	14.78	2	3.18	0.52	59.55
116	16.29	4	3.30	0.68	87.58
117	16.84	4	3.67	0.43	16.54

118	15.20	4	3.67	0.43	61.89
119	15.87	4	3.67	0.43	63.05
120	14.82	4	3.67	0.43	88.50
121	14.81	4	3.04	0.72	65.10
122	17.56	4	3.04	0.72	45.14
123	12.69	4	3.37	0.57	79.27
124	12.08	4	3.37	0.57	48.29
125	13.99	4	3.37	0.57	89.41
126	15.51	4	3.37	0.57	52.73
127	14.74	4	3.37	0.57	58.17

Mean Dpar = 2.89
 Mean Dper = 0.51
Mean length (um)= 15.30+/- 0.11
 Std. Dev. (um)= 1.23
 Skewness = -0.89
 Kurtosis = 0.86

950-21

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.96	4	2.18	0.33	33.72
2	12.62	4	2.18	0.33	67.33
3	14.45	4	2.18	0.33	67.41
4	15.14	4	2.81	0.48	50.81
5	14.81	4	2.81	0.48	69.74
6	13.73	4	2.81	0.48	86.42
7	16.23	4	2.81	0.48	9.27
8	11.38	4	2.81	0.48	66.80
9	15.18	4	2.81	0.48	46.79
10	15.56	4	2.81	0.48	52.21
11	12.19	4	2.81	0.48	68.76
12	15.19	4	2.20	0.34	42.57
13	11.87	4	2.20	0.34	68.24
14	14.74	3	1.97	0.18	64.00
15	14.14	3	1.97	0.18	86.40
16	15.07	3	1.97	0.18	45.26
17	13.85	3	1.97	0.18	56.13
18	16.14	4	2.44	0.43	20.99
19	11.52	4	2.44	0.43	44.12
20	14.91	4	2.44	0.43	60.49
21	13.88	4	2.59	0.45	82.17
22	15.13	4	2.59	0.45	78.64
23	14.28	4	2.59	0.45	51.90
24	14.76	4	2.72	0.18	64.65
25	14.08	4	2.72	0.18	78.66
26	15.51	4	2.72	0.18	59.61
27	16.52	4	2.72	0.18	17.37
28	14.35	4	2.72	0.18	77.90
29	15.12	4	2.04	0.52	77.10
30	14.67	4	2.04	0.52	38.58
31	14.75	1	1.76	0.72	74.24
32	14.49	4	2.81	0.30	74.56
33	15.36	4	2.81	0.30	57.36
34	12.64	4	2.81	0.30	61.12
35	14.92	4	2.81	0.30	24.04
36	13.82	4	2.81	0.30	70.27
37	15.00	4	2.81	0.30	16.39
38	16.35	4	2.16	0.10	30.97
39	15.20	4	2.16	0.10	67.47
40	14.14	3	2.24	0.51	72.56
41	13.77	3	2.24	0.51	26.74
42	13.88	3	2.24	0.51	40.98
43	12.46	3	2.24	0.51	64.06

44	17.27	3	2.24	0.51	55.94
45	15.85	4	1.92	0.75	46.40
46	13.02	4	1.92	0.75	63.99
47	15.09	3	1.68	0.19	81.15
48	15.15	3	1.68	0.19	48.20
49	12.61	3	1.68	0.19	44.21
50	15.17	2	2.06	0.52	45.40
51	14.57	2	2.06	0.52	44.21
52	14.29	3	1.84	0.16	74.35
53	11.43	3	1.84	0.16	47.15
54	14.22	3	1.84	0.16	25.49
55	14.83	4	1.58	0.19	66.11
56	13.72	4	1.58	0.19	71.22
57	13.44	4	1.84	0.43	71.84
58	11.98	4	1.84	0.43	41.39
59	11.25	4	1.84	0.43	73.29
60	14.69	4	2.33	0.67	49.59
61	15.40	4	2.33	0.67	43.79
62	12.37	4	2.33	0.67	70.06
63	16.09	4	2.33	0.67	15.98
64	13.16	4	2.54	0.61	67.77
65	14.16	4	2.54	0.61	52.40
66	13.99	4	2.54	0.61	59.03
67	12.26	4	2.54	0.61	53.94
68	11.99	2	1.87	0.19	83.63
69	14.81	2	1.87	0.19	68.86
70	14.56	4	2.27	0.54	25.50
71	16.47	4	2.27	0.54	14.24
72	15.21	4	2.27	0.54	22.41
73	13.51	4	2.27	0.54	73.50
74	15.76	3	2.01	0.25	53.48
75	12.87	3	2.01	0.25	71.90
76	14.13	3	2.07	0.33	62.06
77	15.43	3	2.07	0.33	40.69
78	15.37	3	2.16	0.42	29.82
79	13.35	4	1.99	0.45	82.11
80	15.30	4	1.99	0.45	12.81
81	13.03	4	1.99	0.45	42.74
82	13.89	4	1.99	0.45	56.02
83	16.25	4	2.43	0.58	37.76
84	15.71	4	2.43	0.58	24.64
85	14.98	4	2.43	0.58	36.39
86	14.25	4	2.43	0.58	63.99
87	13.38	3	2.28	0.35	71.29
88	13.52	3	2.28	0.35	68.00
89	14.68	4	2.43	0.44	63.43
90	15.05	4	2.43	0.44	49.46
91	13.99	4	2.03	0.33	63.77
92	13.30	4	2.03	0.33	75.67
93	13.35	4	2.03	0.33	67.80
94	13.74	4	2.03	0.33	66.29
95	13.85	4	2.03	0.33	57.91
96	14.61	4	2.03	0.33	79.01
97	14.70	3	1.93	0.35	59.86
98	14.63	3	1.93	0.35	36.28
99	16.82	3	2.56	0.35	17.38
100	14.83	3	2.56	0.35	63.91
101	13.20	3	2.56	0.35	82.13
102	16.84	3	2.56	0.35	13.61
103	13.67	3	2.56	0.35	53.54
104	15.26	3	2.56	0.35	58.55
105	17.33	3	2.56	0.35	15.21
106	13.20	4	1.83	0.39	71.64
107	12.35	4	1.83	0.39	50.24
108	13.12	4	1.83	0.39	41.69
109	14.88	4	2.87	0.23	56.30
110	14.87	4	1.64	0.21	28.35

111	15.69	4	1.64	0.21	55.94
112	11.26	4	1.64	0.21	77.85
113	12.64	4	1.64	0.21	85.01
114	15.52	4	1.64	0.21	61.24
115	14.43	4	1.64	0.21	40.85
116	16.77	4	2.47	0.75	49.86
117	13.40	4	2.47	0.75	74.94
118	13.00	4	2.47	0.75	68.32
119	13.73	4	2.47	0.75	47.84
120	14.19	4	2.24	0.38	51.14
121	15.65	4	2.24	0.38	28.40
122	15.69	4	2.24	0.38	28.89
123	12.91	4	1.98	0.42	84.28
124	13.83	4	1.98	0.42	74.60
125	15.62	4	1.98	0.42	24.28

Mean Dpar = 2.24
 Mean Dper = 0.40
Mean length (um) = 14.33+/- 0.12
 Std. Dev. (um) = 1.33
 Skewness = -0.23
 Kurtosis = -0.28

950-22

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	16.05	2	1.55	0.31	45.89
2	16.68	4	2.05	0.59	12.69
3	15.39	4	1.67	0.39	44.19
4	15.79	4	1.61	0.56	27.43
5	13.50	4	1.61	0.56	82.10
6	15.30	2	2.26	0.35	50.12
7	16.10	2	2.31	0.59	30.18
8	13.50	3	1.76	0.38	44.20
9	11.25	3	1.76	0.38	77.68
10	14.15	2	1.50	0.28	43.32
11	13.33	3	1.53	0.57	67.96
12	14.22	2	1.84	0.63	80.20
13	10.85	3	2.07	0.18	65.46
14	14.55	3	2.01	0.31	31.13
15	14.36	4	1.87	0.26	77.92
16	15.23	4	1.83	0.52	42.86
17	16.96	4	1.83	0.52	23.74
18	13.50	4	2.07	0.43	58.81
19	14.88	4	2.07	0.43	85.52
20	16.44	4	1.74	0.21	20.98
21	14.37	4	1.65	0.26	26.67
22	16.75	4	1.65	0.26	40.80
23	15.73	4	1.65	0.26	40.70
24	15.38	4	2.34	0.81	16.04
25	13.40	4	1.88	0.42	41.65
26	16.19	4	1.88	0.42	25.09
27	14.46	3	1.68	0.54	76.72
28	14.40	4	1.68	0.52	56.85
29	14.31	4	1.68	0.52	81.99
30	13.55	4	1.68	0.52	62.93
31	14.71	4	1.68	0.52	55.51
32	14.75	4	1.68	0.52	62.10
33	16.69	2	1.59	0.56	46.71
34	15.77	3	2.65	0.49	45.87
35	13.50	4	1.96	0.25	74.04
36	13.31	4	1.96	0.25	83.43
37	11.94	3	1.83	0.45	83.41
38	13.42	4	2.34	0.49	73.70

39	14.52	3	1.90	0.63	81.39
40	15.50	3	2.56	0.61	36.87
41	15.95	4	2.81	0.62	26.47
42	13.17	3	1.73	0.45	64.23
43	16.54	2	1.72	0.42	25.85
44	15.71	4	1.66	0.59	39.63
45	15.44	3	2.00	0.58	35.23
46	13.54	3	2.00	0.58	68.24
47	16.11	4	2.16	0.56	36.77
48	15.23	4	2.01	0.40	72.30
49	15.55	2	1.81	0.42	52.18
50	15.29	3	1.73	0.29	71.29
51	13.83	3	1.73	0.29	59.50
52	13.92	4	2.26	1.12	55.21
53	14.22	4	2.26	1.12	85.33
54	15.00	4	2.26	1.12	34.12
55	15.31	2	2.08	0.38	52.07
56	17.44	2	2.08	0.38	8.00
57	15.95	4	1.58	0.09	44.37
58	15.17	4	1.58	0.09	69.96
59	15.51	2	1.80	0.51	82.46
60	11.48	3	1.96	0.51	67.65
61	16.26	3	1.96	0.51	43.16

Mean Dpar = 1.90
 Mean Dper = 0.47
Mean length (um)= 14.78+/- 0.18
 Std. Dev. (um)= 1.41
 Skewness = -0.64
 Kurtosis = 0.19

950-23

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.95	3	1.70	0.15	48.88
2	14.56	4	1.23	0.31	54.39
3	15.72	4	1.87	0.23	49.96
4	15.89	4	1.87	0.23	21.60
5	10.37	4	1.79	0.57	58.10
6	14.32	4	1.79	0.57	38.80
7	14.35	3	1.51	0.24	40.48
8	15.69	3	1.77	0.40	33.41
9	15.14	2	1.43	0.30	56.69
10	15.60	3	1.93	0.39	52.06
11	15.73	4	1.63	0.40	60.99
12	16.19	4	1.63	0.40	35.20
13	16.37	3	2.01	0.48	60.15
14	15.48	3	2.01	0.48	35.18
15	15.03	2	1.45	0.23	47.40
16	15.11	2	1.81	0.67	39.65
17	13.22	2	1.81	0.67	41.77
18	16.27	2	1.81	0.67	34.98
19	15.21	3	2.23	0.38	50.33
20	15.24	3	2.23	0.38	35.57
21	15.01	4	1.18	0.24	77.84
22	15.72	4	1.18	0.24	39.62
23	12.81	2	1.60	0.38	55.36
24	13.47	2	1.78	0.48	60.01
25	15.18	2	1.78	0.48	38.74
26	14.40	2	1.90	0.54	71.43
27	14.70	2	1.74	0.30	27.71
28	11.81	2	1.74	0.30	40.45
29	15.99	2	1.74	0.30	17.09
30	15.36	4	1.50	0.53	70.24

31	16.17	4	1.50	0.53	50.59
32	16.04	3	1.65	0.26	41.80
33	15.87	3	1.65	0.26	49.34
34	16.90	3	1.65	0.26	56.59
35	17.69	2	1.91	0.56	63.64
36	15.07	2	1.91	0.56	46.70
37	15.48	3	1.61	0.62	41.32
38	16.62	4	1.60	0.29	39.25
39	16.33	4	1.60	0.29	64.46
40	17.57	4	1.81	0.39	27.22
41	14.50	2	1.79	0.67	67.09
42	15.28	2	1.79	0.67	27.34
43	15.71	3	1.79	0.40	33.32
44	15.17	2	1.41	0.30	56.34
45	15.68	3	1.88	0.39	52.34
46	15.75	4	1.60	0.40	60.76
47	15.23	4	1.60	0.40	35.12
48	16.33	3	2.04	0.48	60.24
49	14.87	3	2.04	0.48	35.21
50	15.08	2	1.48	0.23	47.56
51	15.19	2	1.76	0.67	39.76
52	13.33	2	1.76	0.67	41.54
53	15.98	2	1.76	0.67	29.65
54	15.26	3	2.25	0.38	50.22
55	14.74	3	2.25	0.38	29.43
56	15.04	4	1.23	0.24	77.76
57	14.87	4	1.23	0.24	41.12
58	12.82	2	1.63	0.38	55.12
59	13.46	2	1.77	0.48	55.65
60	15.21	2	1.77	0.48	38.65
61	14.44	2	1.85	0.54	67.54
62	14.79	2	1.65	0.30	23.23
63	12.09	2	1.65	0.30	40.26
64	14.87	2	1.65	0.30	21.98
65	15.30	4	1.60	0.53	65.11
66	15.09	4	1.60	0.53	46.65

Mean Dpar = 1.72
 Mean Dper = 0.42
Mean length (um)= 15.09+/- 0.16
 Std. Dev. (um)= 1.26
 Skewness = -1.18
 Kurtosis = 2.47

950-24

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	11.05	2	1.33	0.31	36.40
2	16.58	4	1.94	0.16	12.88
3	16.51	4	1.54	0.28	25.98
4	11.66	1	1.64	0.07	85.85
5	13.60	3	1.14	0.21	44.60
6	15.23	3	1.14	0.21	41.32
7	14.88	3	1.32	0.24	34.25
8	11.86	3	1.32	0.24	85.88
9	16.77	3	2.01	0.12	43.72
10	14.44	2	1.46	0.47	50.64
11	15.92	2	1.76	0.25	48.90
12	15.91	2	1.43	0.11	44.38
13	15.30	2	1.43	0.11	33.18
14	15.91	4	1.35	0.20	54.06
15	14.83	4	1.35	0.20	49.66
16	15.19	2	1.40	0.39	55.13
17	15.27	3	1.53	0.21	50.60

18	15.08	3	1.53	0.21	33.73
19	14.76	4	1.35	0.16	63.11
20	16.46	4	1.57	0.21	44.73
21	16.19	4	1.57	0.21	42.98
22	15.84	4	1.57	0.21	61.75
23	16.01	3	1.64	0.25	31.06
24	15.96	4	1.41	0.15	52.55
25	11.40	4	1.41	0.15	46.33
26	14.40	4	1.51	0.09	54.92
27	14.87	4	1.51	0.09	17.34
28	14.27	4	1.79	0.20	34.50
29	14.23	4	1.52	0.44	78.03
30	12.64	2	1.44	0.28	54.30
31	15.80	3	1.33	0.23	64.10
32	14.63	3	1.33	0.23	24.56
33	14.88	2	1.71	0.20	28.28
34	16.76	4	1.74	0.19	7.42
35	14.87	4	1.74	0.19	39.35
36	15.54	4	1.74	0.19	25.73
37	14.64	3	1.40	0.30	74.52
38	15.93	4	1.51	0.12	41.05
39	15.50	4	1.51	0.12	22.41
40	13.51	4	1.34	0.25	45.29
41	17.81	2	1.58	0.47	38.96
42	13.70	3	2.12	0.37	88.99
43	17.89	3	2.12	0.37	28.69
44	15.24	3	2.12	0.37	19.08
45	17.48	3	1.39	0.21	38.55
46	13.89	3	1.60	0.40	82.04
47	14.46	2	1.64	0.37	41.63
48	15.40	2	1.64	0.37	44.55
49	14.60	3	1.64	0.31	19.10
50	11.74	3	1.64	0.31	57.63
51	15.44	3	1.64	0.31	29.30
52	17.72	1	1.68	0.05	16.74
53	14.24	4	1.28	0.10	61.16
54	9.79	4	1.28	0.10	63.56
55	15.53	3	1.88	0.07	24.27
56	13.83	3	1.76	0.37	18.04
57	16.46	3	1.76	0.37	37.84
58	15.08	3	1.76	0.37	39.68
59	15.36	3	1.76	0.37	17.92
60	14.17	3	1.76	0.29	53.33
61	15.47	3	2.03	0.20	15.61
62	15.08	2	1.48	0.35	28.85
63	17.49	2	1.45	0.15	40.54
64	16.05	4	1.21	0.20	22.06
65	17.53	2	1.70	0.09	17.44
66	17.53	2	1.53	0.25	38.50
67	16.94	4	1.57	0.38	22.48
68	16.27	2	1.27	0.16	19.04
69	16.84	4	1.46	0.12	41.02
70	15.90	4	1.52	0.21	40.88
71	12.82	4	1.65	0.23	73.00
72	16.05	4	1.65	0.23	26.22
73	14.38	3	1.50	0.42	58.95
74	15.16	2	1.27	0.20	48.12
75	16.18	3	1.55	0.18	40.67
76	16.30	2	1.92	0.30	6.41

Mean Dpar = 1.57
 Mean Dper = 0.24
Mean length (um)= 15.14+/- 0.19
 Std. Dev. (um)= 1.62
 Skewness = -0.89
 Kurtosis = 1.02

950-25

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.87	4	2.23	0.44	71.19
2	17.48	4	2.23	0.44	49.16
3	15.52	4	2.23	0.44	71.30
4	15.10	2	1.86	0.75	63.26
5	15.63	2	1.86	0.75	27.20
6	15.62	3	2.68	0.89	81.46
7	12.55	2	2.34	0.45	62.03
8	15.79	2	2.34	0.45	67.43
9	14.09	2	2.34	0.45	80.83
10	13.69	4	1.68	0.15	68.14
11	15.69	4	1.68	0.15	37.70
12	14.91	2	2.30	0.45	66.35
13	16.53	2	2.30	0.45	26.48
14	16.91	2	1.58	0.25	39.14
15	17.73	2	2.46	0.76	24.78
16	16.47	2	2.46	0.76	30.03
17	15.02	2	1.84	0.54	62.56
18	15.07	2	1.84	0.54	69.15
19	15.52	2	1.84	0.54	20.23
20	14.06	2	1.43	0.37	78.00
21	15.08	3	1.99	0.58	43.02
22	14.44	3	1.99	0.58	36.82
23	15.74	4	2.12	0.20	40.41
24	16.04	4	2.12	0.20	27.23
25	16.11	4	2.12	0.20	34.55
26	13.95	4	1.74	0.58	86.65
27	14.73	3	1.80	0.16	48.60
28	16.20	3	1.80	0.16	26.57
29	17.87	3	1.91	0.57	31.79
30	14.50	4	1.59	0.63	85.41
31	16.19	4	1.59	0.63	59.29
32	15.52	2	2.24	0.71	45.65
33	14.85	3	2.34	0.75	61.33
34	16.37	3	1.97	0.48	31.48
35	14.35	3	1.97	0.48	73.10
36	14.58	2	1.83	0.47	60.73
37	15.68	4	1.79	0.33	87.83
38	15.98	4	1.79	0.33	60.17
39	15.09	2	1.64	0.29	69.37
40	15.79	2	2.37	0.58	60.90
41	16.13	2	1.57	0.44	67.87
42	15.35	2	1.57	0.44	37.31
43	15.38	2	1.87	0.39	80.33
44	15.65	3	1.59	0.21	77.34
45	16.06	3	1.93	0.42	78.64
46	15.32	3	1.93	0.42	49.67
47	14.48	3	1.93	0.42	86.63
48	16.25	4	2.01	0.35	40.26
49	13.22	3	1.84	0.61	72.49
50	15.19	3	1.99	0.48	44.87
51	16.93	3	1.99	0.48	28.31
52	12.72	3	3.10	0.80	78.54
53	12.92	4	2.50	0.37	84.85
54	13.86	4	2.50	0.37	52.30
55	15.14	4	2.10	0.40	55.60
56	15.76	4	2.10	0.40	79.61
57	11.83	4	2.10	0.40	82.29
58	14.99	4	2.10	0.40	56.15
59	16.08	4	2.10	0.40	64.38
60	17.12	4	2.10	0.40	47.21
61	15.16	4	3.17	0.53	86.74

62	15.78	4	3.17	0.53	73.56
63	17.41	4	3.17	0.53	40.06
64	15.24	3	2.47	0.61	49.96
65	16.73	2	1.53	0.26	50.81
66	16.42	3	1.65	0.42	73.27
67	15.84	4	1.99	0.61	66.26
68	12.78	2	1.73	0.28	87.96
69	15.30	2	1.67	1.00	46.58
70	15.41	2	1.84	0.85	69.98
71	17.42	2	1.84	0.85	44.55
72	15.69	2	1.83	0.47	38.02
73	16.34	2	1.83	0.47	64.61
74	15.14	2	2.67	0.58	51.96
75	16.27	2	1.97	0.34	59.39
76	16.56	2	1.64	0.26	28.71
77	14.97	2	1.73	0.39	70.15
78	14.64	2	1.73	0.39	40.94
79	16.12	3	1.46	0.31	58.02
80	13.08	3	1.46	0.31	58.31
81	16.44	4	1.39	0.28	56.95
82	16.43	4	1.39	0.28	34.48
83	12.29	2	1.58	0.67	78.38
84	14.83	3	1.88	0.40	77.98
85	14.95	2	1.94	0.62	51.05
86	17.42	2	1.94	0.62	7.09
87	15.29	2	1.94	0.62	46.68
88	15.90	2	2.38	0.40	52.97
89	16.45	2	2.38	0.40	32.10
90	14.42	3	1.94	0.44	45.27
91	16.35	3	1.94	0.44	66.46
92	16.56	3	2.30	0.38	45.92
93	13.94	2	1.45	0.10	50.98
94	15.23	2	1.45	0.10	36.14
95	13.88	2	2.14	0.34	56.92
96	16.38	2	2.14	0.34	33.68

Mean Dpar = 2.00
Mean Dper = 0.46
Mean length (um)= 15.39+/- 0.13
Std. Dev. (um)= 1.23
Skewness = -0.60
Kurtosis = 0.32

950-26

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.91	4	1.19	0.54	50.47
2	12.47	4	1.19	0.54	77.63
3	13.51	4	2.27	0.65	49.75
4	15.00	4	2.27	0.65	23.40
5	16.17	2	2.50	0.52	9.96
6	12.62	2	2.50	0.52	86.30

Mean Dpar = 1.99
Mean Dper = 0.57
Mean length (um)= 14.11+/- 0.66
Std. Dev. (um)= 1.48
Skewness = 0.10
Kurtosis = -1.91

950-27

Track	Length	Etch	Dpar	Dpar	Angle to c-axis
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Number	(microns)	Figures	(microns)	(microns)	(degrees)
1	15.75	3	2.43	0.78	33.43
2	16.72	3	2.43	0.78	44.14
3	16.07	4	1.57	0.25	59.05
4	14.98	4	1.57	0.25	73.71
5	14.69	4	1.57	0.25	28.78
6	15.41	4	1.88	0.33	52.29
7	14.57	4	1.88	0.33	41.42
8	16.40	4	1.70	0.59	46.77
9	15.07	2	1.67	0.43	58.73
10	15.40	3	1.64	0.11	43.51
11	13.67	2	1.24	0.20	87.90
12	16.56	2	1.24	0.20	11.67
13	15.90	4	1.63	0.44	50.85
14	16.05	2	2.24	0.75	27.27
15	14.72	4	1.97	0.61	86.62
16	14.15	4	1.97	0.61	63.12
17	13.20	4	1.97	0.61	64.46
18	14.46	4	2.00	0.75	69.16
19	17.15	4	2.00	0.75	38.67
20	15.14	4	2.00	0.75	24.37
21	13.04	4	2.00	0.75	64.29
22	12.01	4	2.88	0.65	32.38
23	12.79	4	2.88	0.65	61.41
24	14.68	4	2.88	0.65	79.06
25	12.98	4	2.88	0.65	33.50
26	13.62	4	2.88	0.65	78.54
27	14.91	3	1.63	0.38	37.63
28	14.09	4	1.64	0.62	78.37
29	12.23	4	1.64	0.62	55.49
30	17.90	4	1.64	0.62	12.85
31	15.50	3	1.54	0.29	71.15
32	16.05	2	2.04	0.56	40.58
33	16.28	2	2.04	0.56	39.88
34	13.39	2	2.04	0.56	62.68
35	14.45	2	2.04	0.56	64.89
36	16.73	2	2.04	0.56	43.41
37	16.01	2	2.04	0.56	29.75
38	16.18	2	1.85	0.62	25.80
39	15.31	3	2.16	0.40	62.42
40	14.56	3	2.16	0.40	34.81
41	15.45	3	2.16	0.40	11.90
42	17.03	2	1.61	0.11	33.51
43	15.12	2	1.43	0.25	87.91
44	15.16	2	1.43	0.25	35.16
45	15.86	2	1.43	0.25	39.28
46	14.83	2	1.43	0.25	80.57
47	13.39	2	1.43	0.25	89.82
48	13.42	2	1.43	0.25	54.06
49	16.05	3	1.65	0.10	43.89
50	14.42	2	2.77	0.59	45.84
51	9.61	2	2.77	0.59	88.54
52	16.14	2	2.77	0.59	31.91
53	14.66	2	2.77	0.59	86.24
54	14.05	3	2.20	0.65	56.79
55	15.21	3	2.20	0.65	62.02
56	14.99	4	1.48	0.29	79.89
57	16.72	2	1.90	0.40	23.21
58	15.86	3	2.00	0.38	69.04
59	15.92	3	2.00	0.38	62.35
60	15.26	2	1.90	0.56	48.54
61	13.90	4	1.99	0.29	72.45
62	17.26	2	2.36	0.21	12.95
63	14.52	2	1.93	0.91	68.61
64	16.05	3	1.65	0.49	18.93
65	16.30	4	1.87	0.53	73.79

66	15.09	4	1.87	0.53	71.62
67	15.60	4	1.87	0.53	35.68
68	13.74	4	1.87	0.53	69.91
69	13.64	3	1.87	0.26	54.93
70	16.51	3	1.87	0.26	23.77
71	15.97	3	1.87	0.26	26.78
72	13.28	3	1.87	0.26	52.42
73	14.85	3	1.59	0.29	43.03
74	14.22	3	1.79	0.48	68.22
75	12.86	3	1.79	0.48	51.45
76	13.03	3	1.79	0.48	77.52
77	16.03	4	2.01	0.53	15.73
78	14.52	3	1.72	0.96	78.48
79	15.63	3	1.72	0.96	26.83
80	14.59	3	1.74	0.54	71.08
81	14.55	3	1.74	0.54	32.03
82	15.67	3	1.74	0.54	40.03
83	16.37	3	1.74	0.54	81.94
84	14.60	4	1.28	0.33	77.68
85	15.95	4	1.28	0.33	40.78
86	16.26	4	1.26	0.30	73.13
87	15.28	4	1.26	0.30	43.17
88	14.31	3	1.54	0.53	69.05
89	15.47	3	1.71	0.10	84.46
90	15.36	3	1.71	0.10	30.25
91	14.17	4	1.65	0.29	39.85
92	13.66	4	1.65	0.29	54.65
93	14.41	4	1.65	0.29	44.93
94	9.72	4	1.65	0.29	72.37
95	14.28	4	1.88	0.44	43.45
96	16.15	4	1.88	0.44	41.37
97	13.57	3	1.90	0.49	38.37
98	15.07	3	1.90	0.49	69.47
99	13.79	3	1.90	0.49	67.28
100	15.20	3	1.90	0.49	75.54
101	14.53	2	1.55	0.48	67.18
102	15.61	4	2.17	0.43	36.57
103	12.77	4	2.17	0.43	62.70
104	14.12	4	2.17	0.43	52.52
105	13.09	4	2.17	0.43	73.51
106	17.88	4	2.17	0.43	14.30
107	12.01	4	2.17	0.43	68.14
108	15.76	4	2.17	0.43	38.43
109	15.20	4	1.46	0.30	74.42
110	11.59	4	1.46	0.30	75.59
111	15.83	4	1.46	0.30	72.30
112	13.30	4	1.48	0.38	75.33
113	14.54	4	1.48	0.38	75.30
114	16.87	4	1.48	0.38	20.83
115	16.35	2	2.11	0.52	51.92
116	14.97	2	1.99	0.59	50.80
117	14.96	2	1.99	0.59	35.31
118	16.17	2	1.99	0.59	73.70
119	14.36	2	1.99	0.59	66.19
120	14.82	2	1.99	0.59	78.24
121	16.13	2	1.99	0.59	11.01
122	17.26	4	1.85	0.44	15.53
123	13.81	4	1.85	0.44	71.55
124	17.73	4	1.85	0.44	15.10
125	14.93	4	1.85	0.44	51.26

Mean Dpar = 1.88

Mean Dper = 0.46

Mean length (um)= 14.91+/- 0.13

Std. Dev. (um)= 1.45

Skewness = -0.76

Kurtosis = 1.47

950-28

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	12.13	2	1.83	0.38	85.65
2	16.29	3	2.99	0.70	39.94
3	14.91	3	2.00	0.63	43.63
4	15.33	3	2.00	0.63	45.00
5	15.71	3	1.97	0.73	57.34
6	14.87	3	1.97	0.73	30.29
7	14.59	2	1.34	0.21	45.59
8	15.30	3	2.43	0.53	35.06
9	14.93	2	1.66	0.73	80.42
10	13.31	3	2.40	0.65	42.79
11	15.41	3	1.90	0.28	28.91
12	13.38	2	1.73	0.52	53.73
13	16.03	2	1.73	0.52	48.23
14	13.26	2	1.03	0.14	32.78
15	16.82	2	1.53	0.33	58.64
16	13.67	2	1.53	0.33	58.60
17	13.74	1	1.47	0.31	87.91
18	16.37	1	1.47	0.31	8.59
19	15.89	2	1.97	0.30	50.34
20	12.93	2	1.54	0.37	33.77
21	15.11	2	1.54	0.37	64.02
22	16.16	2	1.54	0.37	17.76
23	16.38	2	1.68	0.26	58.94
24	10.92	4	1.40	0.18	57.34
25	8.79	4	1.40	0.18	51.83
26	17.60	4	1.93	0.30	14.40
27	13.47	4	1.46	0.40	47.30
28	13.40	4	1.52	0.37	88.52
29	13.91	2	2.16	0.40	76.40
30	13.83	2	1.76	0.29	63.52
31	15.16	2	1.76	0.29	50.10
32	15.44	4	1.73	0.68	66.76
33	15.43	4	1.73	0.68	44.71
34	15.31	4	1.37	0.28	22.30
35	15.40	3	1.45	0.18	32.92
36	13.06	2	1.76	0.39	60.38
37	15.10	2	1.76	0.39	61.69
38	16.77	2	1.76	0.39	23.21
39	15.31	2	1.77	0.42	74.46
40	15.83	4	2.20	0.37	25.41
41	15.26	4	1.41	0.72	75.53
42	15.12	4	1.92	0.59	85.40
43	15.04	4	1.45	0.28	76.83
44	16.55	4	1.45	0.28	21.55
45	14.50	4	1.45	0.28	44.80
46	15.81	2	2.01	0.33	45.17
47	15.06	2	2.01	0.33	38.84
48	15.12	3	1.57	0.44	29.67
49	14.87	3	1.57	0.44	50.28
50	13.06	4	1.87	0.48	79.29
51	14.38	4	1.87	0.48	53.46
52	14.16	4	1.87	0.48	63.69
53	14.69	4	1.87	0.48	55.40
54	11.04	3	2.03	0.47	50.13
55	13.96	3	2.03	0.47	39.27
56	14.70	3	2.03	0.47	58.65
57	15.31	4	1.94	0.57	80.97
58	14.31	4	1.45	0.25	47.80
59	9.19	4	1.26	0.29	86.10
60	16.94	3	1.54	0.12	48.58

61	10.74	3	1.48	0.20	89.31
62	15.77	3	1.48	0.20	28.18
63	16.41	2	1.46	0.25	46.45
64	12.08	2	1.46	0.25	57.09
65	14.44	3	1.54	0.25	37.03
66	16.43	2	1.83	0.35	36.41
67	13.11	2	1.83	0.35	40.81
68	12.16	2	1.08	0.24	73.49
69	16.56	2	1.64	0.44	13.93
70	15.65	4	1.98	0.19	36.53
71	14.71	2	2.13	0.29	47.69
72	13.83	2	2.13	0.29	54.58
73	14.98	2	2.13	0.29	47.02
74	12.05	3	2.01	0.43	50.91
75	13.72	3	2.01	0.43	44.71
76	11.83	3	2.01	0.43	69.72

Mean Dpar = 1.75
Mean Dper = 0.39
Mean length (um)= 14.48+/- 0.20
Std. Dev. (um)= 1.74
Skewness = -1.04
Kurtosis = 1.15

950-29

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	12.65	4	2.07	0.40	80.15
2	13.14	4	1.38	0.18	61.90
3	9.88	4	1.38	0.18	55.03
4	15.44	4	2.21	0.38	41.13
5	13.86	3	1.85	0.28	21.46
6	16.58	4	1.32	0.54	32.78
7	14.64	4	1.46	0.06	70.98
8	16.16	4	1.46	0.06	36.81
9	14.39	4	1.35	0.15	29.79
10	14.49	4	1.88	0.20	89.19
11	15.25	4	1.88	0.20	54.90
12	15.15	4	2.00	0.57	36.76
13	8.33	4	2.00	0.57	72.91
14	14.37	2	1.81	0.62	67.14
15	13.83	2	1.37	0.26	50.30
16	14.70	4	1.86	0.30	49.87
17	14.68	4	1.68	0.35	35.52
18	13.33	4	1.68	0.35	79.45
19	13.21	4	1.68	0.35	44.83
20	13.79	4	1.68	0.35	45.47
21	13.78	4	1.68	0.35	47.35
22	13.04	4	1.79	0.38	72.67
23	14.45	4	1.79	0.38	23.70
24	13.06	4	1.87	0.48	79.29
25	14.38	4	1.87	0.48	53.46
26	14.16	4	1.87	0.48	63.69
27	14.69	4	1.87	0.48	55.40
28	11.04	3	2.03	0.47	50.13
29	13.96	3	2.03	0.47	39.27
30	14.70	3	2.03	0.47	58.65
31	15.31	4	1.94	0.57	80.97
32	14.31	4	1.45	0.25	47.80
33	9.19	4	1.26	0.29	86.10
34	16.94	3	1.54	0.12	48.58
35	11.34	3	1.48	0.20	78.21
36	15.77	3	1.48	0.20	28.18
37	16.41	2	1.46	0.25	46.45

38	12.08	2	1.46	0.25	57.09
39	14.44	3	1.54	0.25	37.03
40	16.43	2	1.83	0.35	36.41
41	13.11	2	1.83	0.35	40.81
42	12.16	2	1.08	0.24	73.49
43	16.56	2	1.64	0.44	13.93
44	15.65	4	1.98	0.19	36.53
45	14.71	2	2.13	0.29	47.69
46	13.83	2	2.13	0.29	54.58
47	14.98	2	2.13	0.29	47.02
48	12.05	3	2.01	0.43	50.91
49	13.72	3	2.01	0.43	44.71
50	11.83	3	2.01	0.43	69.72
51	12.68	2	1.83	0.72	74.07
52	15.59	2	1.83	0.72	47.12
53	14.09	4	1.43	0.15	70.22
54	14.05	4	1.43	0.15	83.74
55	15.69	4	1.43	0.15	28.16
56	13.87	4	1.93	0.48	30.35
57	15.14	4	1.96	0.54	63.22
58	14.91	2	1.35	0.19	58.82
59	14.61	2	1.35	0.19	49.18
60	13.36	3	1.85	0.42	45.80
61	14.21	3	1.85	0.42	47.02
62	11.60	3	1.85	0.42	75.96
63	16.21	3	1.85	0.42	14.62
64	12.40	2	1.32	0.35	55.66
65	12.60	2	1.32	0.35	66.83
66	9.52	2	1.32	0.35	67.61
67	9.83	3	2.01	0.31	46.58
68	6.07	3	2.01	0.31	86.87
69	15.10	2	1.58	0.18	57.67
70	10.92	4	1.40	0.18	57.34
71	8.79	4	1.40	0.18	51.83
72	17.60	4	1.93	0.30	14.40
73	13.47	4	1.46	0.40	47.30
74	13.40	4	1.52	0.37	88.52
75	13.91	2	2.16	0.40	76.40
76	15.31	4	1.37	0.28	22.30
77	15.40	3	1.45	0.18	32.92
78	13.06	2	1.76	0.39	60.38
79	15.10	2	1.76	0.39	61.69
80	16.77	2	1.76	0.39	23.21
81	15.31	2	1.77	0.42	74.46
82	15.83	4	2.20	0.37	25.41
83	15.26	4	1.41	0.72	75.53
84	15.12	4	1.92	0.59	85.40

Mean Dpar = 1.71
Mean Dper = 0.35
Mean length (um)= 13.84+/- 0.23
Std. Dev. (um)= 2.09
Skewness = -1.18
Kurtosis = 1.71

950-30

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.22	2	1.60	0.59	58.20
2	14.19	2	1.60	0.59	68.92
3	13.32	3	1.88	0.61	48.50
4	15.72	3	1.88	0.61	26.92
5	15.29	3	1.88	0.61	44.77
6	13.36	3	1.88	0.61	65.96

7	12.24	3	1.88	0.61	55.66	74	11.83	3	2.93	0.94	73.84
8	11.60	3	1.88	0.61	52.52	75	15.02	3	2.93	0.94	77.83
9	14.02	3	1.88	0.61	40.28	76	16.12	3	1.85	0.47	68.17
10	14.80	4	1.43	0.30	56.39	77	15.17	3	1.85	0.47	57.62
11	13.83	4	1.43	0.30	80.86	78	14.78	2	2.21	0.48	63.98
12	12.78	4	1.43	0.30	82.07	79	13.30	2	2.21	0.48	89.86
13	13.59	4	1.43	0.30	61.26	80	14.90	2	2.21	0.48	52.61
14	14.90	3	1.68	0.20	19.95	81	14.58	2	2.21	0.48	69.59
15	14.92	3	1.68	0.20	37.66	82	11.80	3	2.48	0.81	53.91
16	13.81	3	1.61	0.25	58.99	83	17.71	2	1.65	0.10	28.69
17	10.51	3	1.61	0.25	89.77	84	12.37	2	1.65	0.10	47.61
18	16.35	4	2.76	0.82	39.88	85	13.12	2	2.24	0.73	71.23
19	13.88	4	2.76	0.82	48.32	86	13.14	2	2.24	0.73	54.55
20	15.30	4	2.76	0.82	52.59	87	14.82	2	2.24	0.73	43.26
21	16.27	4	2.76	0.82	15.60	88	12.21	2	2.16	0.40	85.43
22	13.87	4	2.76	0.82	40.41	89	12.87	2	2.16	0.40	82.09
23	16.51	4	2.76	0.82	39.54	90	12.23	4	2.33	0.58	76.85
24	9.13	4	2.76	0.82	88.73	91	15.32	4	2.33	0.58	49.46
25	15.14	4	2.76	0.82	26.63	92	13.80	4	2.33	0.58	70.32
26	15.25	3	2.13	0.38	40.91	93	15.25	4	2.33	0.58	44.60
27	15.08	3	2.13	0.38	33.59	94	15.56	4	2.33	0.58	45.02
28	15.43	4	2.96	0.61	80.42	95	11.07	4	2.33	0.58	75.73
29	15.50	2	2.85	0.77	77.23	96	11.37	4	2.33	0.58	57.67
30	14.91	4	2.05	0.73	47.67	97	13.68	3	1.20	0.12	71.01
31	11.70	4	2.05	0.73	85.50	98	15.81	3	1.20	0.12	66.62
32	11.99	4	2.05	0.73	72.77	99	15.77	3	2.50	0.35	57.58
33	10.24	4	2.05	0.73	55.08	100	14.53	3	2.14	0.52	55.61
34	12.75	3	1.99	0.71	67.58	101	15.57	3	2.14	0.52	47.10
35	15.71	3	1.99	0.71	33.64	102	15.18	3	2.14	0.52	36.76
36	13.46	3	1.54	0.11	57.19	103	8.91	2	1.54	0.51	80.19
37	13.74	2	1.39	0.05	25.33	104	14.72	2	2.12	0.28	53.98
38	13.13	3	2.27	0.56	66.48	105	17.76	2	2.05	0.40	45.82
39	13.35	3	2.27	0.56	52.93	106	13.43	2	2.05	0.40	83.57
40	11.85	3	2.27	0.56	52.68	107	9.16	2	2.05	0.40	79.01
41	14.23	3	2.39	0.76	58.08	108	15.24	4	2.83	0.75	57.53
42	12.73	3	3.27	1.26	51.76	109	13.78	4	2.83	0.75	49.43
43	13.45	3	3.27	1.26	78.89	110	15.83	4	2.83	0.75	57.72
44	16.17	3	3.27	1.26	14.94	111	14.28	4	2.83	0.75	48.17
45	12.00	3	3.27	1.26	54.86	112	14.51	4	2.25	0.70	37.08
46	13.60	3	3.27	1.26	82.55	113	12.62	4	2.25	0.70	67.37
47	14.95	4	1.87	0.44	38.56	114	13.78	4	1.99	0.44	48.74
48	14.93	4	1.87	0.44	43.78	115	17.19	4	1.99	0.44	53.59
49	14.79	3	3.45	0.76	34.59	116	15.75	4	1.99	0.44	24.08
50	14.40	2	2.56	0.52	47.04	117	14.68	3	2.56	0.81	69.55
51	16.26	2	2.56	0.52	21.75	118	15.33	3	2.56	0.81	40.81
52	10.63	4	2.18	0.76	47.07	119	16.51	3	1.61	0.38	64.23
53	13.27	4	2.18	0.76	67.66	120	12.21	2	1.87	0.21	74.50
54	9.73	4	2.18	0.76	38.82	121	13.64	1	2.27	0.47	55.72
55	13.92	4	2.18	0.76	34.44	122	11.32	3	1.71	0.29	75.96
56	10.87	4	2.18	0.76	45.15	123	17.21	3	1.71	0.29	25.18
57	14.84	4	2.18	0.76	44.21	124	14.16	4	2.80	0.62	64.80
58	10.64	4	2.18	0.76	79.29	125	16.88	4	2.80	0.62	13.52
59	17.06	4	2.18	0.76	29.17	126	13.65	4	2.80	0.62	43.77
60	15.81	4	1.78	0.21	42.05	127	14.65	4	2.80	0.62	41.15
61	13.45	4	1.78	0.21	73.34	128	12.48	4	2.80	0.62	73.61
62	13.40	4	1.78	0.21	85.09	129	9.97	4	2.80	0.62	60.20
63	7.55	4	1.78	0.21	67.20	130	13.88	4	2.80	0.62	44.48
64	10.86	3	2.28	0.61	50.18	131	10.07	4	2.80	0.62	48.94
65	10.01	4	1.60	0.34	60.71	132	12.80	4	2.80	0.62	72.63
66	14.30	2	1.50	0.42	73.15						
67	16.35	4	2.31	0.66	29.38						
68	15.52	2	1.94	0.35	36.19						
69	13.47	2	2.99	0.62	60.79						
70	13.74	4	2.25	0.51	60.98						
71	16.21	4	2.25	0.51	29.07						
72	12.77	4	2.25	0.51	58.49						
73	14.30	3	2.93	0.94	62.80						

Mean Dpar	=	2.23
Mean Dper	=	0.58
Mean length (um)	=	13.83+/- 0.17
Std. Dev. (um)	=	1.98
Skewness	=	-0.62
Kurtosis	=	0.16

950-31

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.26	2	1.90	0.24	70.98
2	14.14	1	1.80	0.39	47.06
3	15.71	4	1.66	0.59	39.63
4	15.44	3	2.00	0.58	35.23
5	13.54	3	2.00	0.58	68.24
6	16.11	4	2.01	0.56	36.77
7	15.23	4	1.93	0.40	72.30
8	15.55	2	1.81	0.42	52.18
9	15.29	3	1.73	0.29	71.29
10	13.83	3	1.73	0.29	59.50
11	13.92	4	1.88	1.12	55.21
12	14.22	4	1.88	1.12	85.33
13	15.00	4	1.88	1.12	34.12
14	15.31	2	1.97	0.38	52.07
15	17.44	2	1.97	0.38	8.00
16	15.95	4	1.58	0.09	44.37
17	15.17	4	1.58	0.09	69.96
18	15.51	2	1.80	0.51	82.46
19	11.48	3	1.96	0.51	67.65
20	16.26	3	1.96	0.51	43.16

Mean Dpar = 1.85

Mean Dper = 0.51

Mean length (um) = 14.97 +/- 0.29

Std. Dev. (um) = 1.26

Skewness = -0.72

Kurtosis = 0.97

950-32

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.79	4	2.34	0.19	50.37
2	17.04	4	2.34	0.19	23.94
3	12.93	3	3.01	0.53	79.30
4	13.95	3	2.28	0.42	79.72
5	13.83	4	2.30	0.52	67.91
6	17.08	4	2.30	0.52	15.93
7	14.66	4	2.30	0.52	66.00
8	15.24	2	2.25	0.15	70.89
9	11.77	3	2.78	0.54	66.65
10	15.29	4	1.85	0.25	63.56
11	10.80	4	1.85	0.25	85.41
12	14.19	4	1.85	0.25	79.74
13	16.14	4	1.91	0.52	62.10
14	14.91	3	2.41	0.54	72.73
15	14.58	3	2.41	0.54	84.16
16	15.88	4	2.39	0.45	39.67
17	12.72	4	2.39	0.45	66.21
18	14.23	4	2.39	0.45	55.30
19	17.49	4	2.39	0.45	34.56
20	14.48	4	2.39	0.45	70.18
21	14.97	3	1.46	0.24	60.41
22	14.66	4	2.67	0.26	50.04
23	16.04	3	1.83	0.34	14.77
24	15.76	2	2.53	0.67	48.36
25	15.97	2	2.53	0.67	55.43
26	16.52	2	2.53	0.67	27.48
27	13.59	4	1.81	0.19	80.61

28	15.57	3	2.11	0.31	86.63
29	11.94	3	2.71	0.53	60.12
30	16.05	3	2.71	0.53	27.72
31	17.39	4	1.83	0.19	13.10
32	14.74	4	2.23	0.66	86.50
33	16.80	4	2.23	0.66	52.11
34	16.64	3	2.03	0.43	6.45
35	14.66	3	2.28	0.57	81.92
36	16.34	4	2.13	0.30	43.60
37	15.51	4	2.59	0.62	48.97
38	14.65	4	2.38	0.26	41.75
39	15.25	3	2.17	0.26	44.71
40	14.84	4	1.98	0.24	63.62
41	17.35	4	1.98	0.24	46.51
42	12.75	4	2.13	0.26	51.93
43	13.37	4	2.40	0.28	80.07
44	15.64	4	2.40	0.28	40.04
45	14.05	2	1.92	0.30	66.80
46	15.39	4	1.94	0.35	61.74
47	12.21	4	1.94	0.35	56.27
48	16.57	4	1.51	0.43	49.65
49	14.89	4	1.90	0.18	57.40
50	13.81	4	1.90	0.18	81.38
51	14.35	3	2.28	0.84	34.28
52	13.68	2	2.34	0.73	79.74
53	15.39	3	1.81	0.76	45.89
54	12.49	2	2.10	0.33	44.84
55	15.83	4	1.80	0.33	42.57
56	14.63	4	1.80	0.33	50.46
57	13.56	4	1.80	0.33	88.06
58	14.65	4	2.05	0.49	41.67
59	14.47	4	2.05	0.49	45.84
60	13.33	4	2.05	0.49	78.95
61	14.61	2	3.18	0.51	42.93
62	13.43	3	2.63	0.49	71.11
63	14.32	4	1.78	0.25	62.53
64	15.14	4	2.53	0.48	86.32
65	16.30	2	1.74	0.19	53.74
66	15.83	2	2.91	0.45	31.05
67	12.88	3	2.39	0.80	49.04
68	13.76	3	2.39	0.80	84.43
69	15.41	3	2.39	0.80	45.31
70	12.44	3	2.07	0.37	38.54
71	13.39	3	2.07	0.37	51.97
72	15.77	2	2.71	0.98	63.47
73	13.34	2	2.71	0.98	77.29
74	15.70	4	2.20	0.63	53.01
75	14.46	4	2.01	0.23	78.11
76	14.52	4	2.01	0.23	50.43
77	14.45	4	2.14	0.68	64.44
78	15.56	4	2.31	0.38	76.22
79	15.36	4	2.31	0.38	66.80
80	15.60	2	2.34	0.61	43.08
81	15.98	2	2.34	0.61	19.58
82	14.29	2	2.94	0.38	35.78
83	16.83	4	2.67	0.57	48.39
84	14.37	4	2.67	0.57	63.78
85	11.70	4	2.13	0.58	42.91
86	14.58	4	2.13	0.58	64.11
87	12.86	2	1.48	0.23	50.01
88	15.41	2	1.48	0.23	37.90
89	14.50	4	2.37	0.56	52.54
90	14.94	4	2.37	0.56	27.82
91	15.51	4	3.23	1.01	57.23
92	15.10	4	2.03	0.40	39.72
93	14.30	4	2.03	0.40	56.09
94	15.09	4	2.03	0.40	75.73

95	15.16	2	2.11	0.38	48.73
96	15.51	3	2.12	0.38	40.01
97	16.55	3	2.84	0.51	39.31
98	16.47	3	2.84	0.51	56.39
99	15.06	3	2.74	0.86	66.19
100	13.17	2	2.03	0.18	75.17
101	15.38	2	2.03	0.18	49.10
102	15.33	2	2.90	0.43	69.61
103	15.17	4	1.92	0.72	33.38
104	15.31	4	1.92	0.72	74.35
105	16.18	4	1.92	0.72	48.73
106	15.90	2	2.05	0.44	41.67
107	14.30	2	2.05	0.44	58.40
108	14.93	2	2.05	0.44	69.01
109	13.80	2	2.05	0.44	69.12
110	14.66	3	2.68	0.63	73.34
111	14.73	3	2.68	0.63	66.13
112	16.36	3	2.68	0.63	33.87
113	15.75	2	2.70	0.29	80.50
114	15.01	2	2.70	0.29	31.39
115	14.71	2	2.19	0.54	61.55
116	13.14	3	2.03	0.54	82.65
117	17.24	4	1.73	0.16	26.04
118	14.47	4	2.36	0.63	62.03
119	15.42	3	2.31	0.20	21.92
120	16.25	2	1.81	0.14	66.00
121	15.32	2	1.81	0.14	63.23
122	16.61	2	1.81	0.14	67.31
123	16.20	3	1.97	0.52	28.51
124	15.36	3	1.97	0.52	25.87
125	13.39	3	1.97	0.52	83.81

Mean Dpar = 2.23
 Mean Dper = 0.45
Mean length (um)= 14.87+/- 0.12
 Std. Dev. (um)= 1.30
 Skewness = -0.46
 Kurtosis = 0.13

950-33

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.01	2	1.61	0.42	49.84
2	14.24	4	1.38	0.33	86.27
3	15.90	4	1.38	0.33	37.48
4	16.65	2	2.24	0.21	51.20
5	15.77	2	2.24	0.21	59.07
6	15.10	2	1.90	0.37	61.76
7	12.95	2	1.90	0.37	68.55
8	13.92	1	1.48	0.34	57.51
9	17.32	1	1.78	0.52	15.32
10	14.35	1	1.78	0.52	39.38
11	16.26	2	1.55	0.12	27.57

Mean Dpar = 1.75
 Mean Dper = 0.34
Mean length (um)= 15.22+/- 0.41
 Std. Dev. (um)= 1.30
 Skewness = -0.08
 Kurtosis = -1.22

950-34

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.46	2	1.30	0.20	46.58
2	13.43	4	1.58	0.71	48.94
3	15.08	4	1.58	0.71	26.61
4	16.92	4	1.66	0.34	43.39
5	14.06	3	2.10	0.20	30.29
6	13.11	3	2.10	0.20	25.22
7	15.50	3	2.10	0.20	45.20
8	14.01	2	1.87	0.06	63.51
9	15.41	4	2.03	0.45	74.16
10	13.89	2	2.10	0.39	35.08
11	15.61	4	1.74	0.23	29.66
12	15.74	4	2.58	0.66	39.60
13	17.31	4	2.58	0.66	26.30
14	12.45	4	2.58	0.66	38.00
15	15.75	4	2.58	0.66	45.27
16	16.04	3	1.74	0.19	33.77
17	15.21	4	1.94	0.20	31.56
18	15.42	4	1.94	0.20	81.45
19	17.42	3	2.08	0.23	34.79
20	13.87	4	1.78	0.28	73.09
21	14.56	3	1.50	0.12	29.24
22	13.45	3	1.50	0.12	64.86
23	14.69	3	1.50	0.12	60.46
24	14.22	4	1.81	0.43	57.08
25	16.30	2	1.58	0.39	26.29
26	15.50	4	1.81	0.14	49.00
27	15.20	4	1.81	0.14	24.07
28	14.75	2	2.05	0.42	64.94
29	12.84	3	1.38	0.40	69.07
30	14.51	4	1.72	0.20	23.61
31	15.14	3	1.87	0.42	37.53
32	14.67	4	1.58	0.28	52.53
33	16.21	4	1.58	0.28	49.22
34	15.04	4	1.58	0.28	49.81
35	16.67	4	1.58	0.28	38.77
36	15.67	4	1.58	0.28	20.88
37	15.39	4	1.65	0.40	39.05
38	14.09	4	2.19	0.28	19.16
39	11.88	4	2.19	0.28	56.33
40	14.80	4	2.19	0.28	75.86
41	17.05	3	1.77	0.30	38.63
42	14.43	3	1.70	0.26	58.90
43	15.00	4	1.48	0.15	63.80
44	16.24	2	2.21	0.20	8.85
45	17.58	4	1.80	0.31	53.56
46	15.54	4	1.80	0.31	66.34
47	14.89	4	1.80	0.31	46.16
48	15.25	4	1.80	0.31	62.75
49	11.14	4	1.80	0.31	80.93
50	15.69	4	1.87	0.16	26.02
51	14.86	4	1.87	0.16	31.19
52	15.01	2	2.10	0.07	84.05
53	14.79	3	1.83	0.38	76.50
54	15.88	4	1.86	0.48	77.61
55	14.11	4	1.86	0.48	54.74
56	16.10	4	1.86	0.48	37.58
57	15.48	4	1.86	0.48	47.28
58	14.80	4	1.86	0.48	50.85
59	16.85	4	1.74	0.52	76.74
60	16.09	4	1.74	0.52	58.24
61	14.71	4	1.83	0.52	71.09
62	16.12	4	1.83	0.52	39.29
63	13.93	3	1.91	0.28	81.61
64	15.35	4	2.19	0.39	27.85

65	15.61	3	1.54	0.49	52.02
66	16.47	2	1.91	0.21	71.47
67	11.80	4	1.76	0.31	44.17
68	16.03	4	2.10	0.24	52.93
69	15.77	4	2.10	0.24	58.94
70	15.98	4	2.10	0.24	47.40
71	15.31	4	2.10	0.24	87.85
72	16.05	4	2.10	0.24	81.67
73	15.04	4	2.10	0.24	79.53
74	15.20	3	2.07	0.14	37.93
75	16.50	4	1.79	0.10	51.70
76	15.56	4	1.98	0.15	87.00
77	14.76	2	1.88	0.09	43.74
78	13.92	2	1.88	0.09	69.25
79	15.20	2	1.88	0.09	25.87
80	15.15	2	1.88	0.09	33.33
81	17.30	2	1.88	0.09	37.85
82	16.42	2	1.88	0.09	53.40
83	15.69	2	1.88	0.09	24.62
84	16.39	4	2.24	0.06	59.14
85	14.77	2	2.12	0.28	47.59
86	15.14	4	1.84	0.16	30.47
87	16.99	4	1.84	0.16	87.86
88	16.07	4	1.84	0.16	67.32
89	16.26	4	1.84	0.16	27.75
90	13.70	4	1.85	0.18	56.48
91	13.05	4	1.46	0.19	59.28
92	14.10	4	1.46	0.19	37.69
93	16.78	2	1.79	0.25	63.98
94	15.52	4	1.67	0.24	22.85
95	14.74	4	1.67	0.24	77.55
96	16.85	4	1.67	0.24	64.67
97	15.91	2	1.54	0.11	45.77
98	16.58	4	1.80	0.07	21.88
99	15.62	4	2.23	0.25	51.47
100	15.72	4	2.23	0.25	12.44
101	16.08	3	1.81	0.16	22.19
102	13.94	4	1.63	0.23	82.78
103	16.61	4	1.53	0.39	32.02
104	16.25	4	1.53	0.39	55.94
105	16.62	3	1.85	0.16	37.48
106	16.28	2	1.98	0.16	83.41
107	15.35	4	1.76	0.29	82.65
108	16.26	4	1.76	0.29	51.99
109	14.91	4	1.59	0.35	67.80
110	15.79	2	1.85	0.24	68.08
111	16.03	3	2.03	0.40	79.70
112	16.11	2	1.87	0.30	42.05
113	16.04	4	2.14	0.39	51.57
114	13.52	4	2.01	0.25	72.06
115	13.74	4	2.01	0.25	87.25
116	15.20	2	2.00	0.26	25.25
117	14.78	2	2.00	0.26	59.55
118	16.29	4	2.12	0.18	87.58
119	16.84	4	1.55	0.18	16.54
120	15.20	4	1.55	0.18	61.89
121	15.87	4	1.55	0.18	63.05
122	14.82	4	1.55	0.18	88.50
123	14.81	4	1.86	0.21	65.10
124	17.56	4	1.86	0.21	45.14
125	12.69	4	2.19	0.06	79.27
126	12.08	4	2.19	0.06	48.29
127	13.99	4	2.19	0.06	89.41
128	15.51	4	2.19	0.06	52.73
129	14.74	4	2.19	0.06	58.17

Mean Dpar = 1.87

Mean Dper = 0.27
Mean length (um)= 15.24+/- 0.11
Std. Dev. (um)= 1.23
Skewness = -0.75
Kurtosis = 0.72

950-35

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.65	2	1.91	0.58	57.47
2	16.61	3	1.96	0.49	21.29
3	13.50	3	2.17	0.38	40.26
4	14.16	2	1.85	0.80	75.61
5	14.57	4	1.65	0.61	71.85
6	14.77	4	1.65	0.61	32.76
7	14.19	3	2.19	0.47	22.89
8	15.25	3	2.19	0.47	57.96
9	17.15	2	1.77	0.40	71.33
10	12.28	3	2.73	0.43	71.24
11	15.95	3	2.73	0.43	56.82
12	16.11	3	2.73	0.43	81.18
13	13.98	3	2.73	0.43	65.13
14	12.60	2	2.43	0.82	54.40
15	17.46	2	2.43	0.82	16.31
16	15.10	2	1.43	0.20	39.65
17	17.03	3	2.26	0.38	70.83
18	15.27	3	2.26	0.38	37.34
19	14.49	4	3.00	0.70	55.38
20	15.37	4	2.46	0.94	84.85
21	13.75	4	2.46	0.94	45.06
22	17.02	4	2.46	0.94	37.08
23	14.27	2	1.72	0.34	64.86
24	16.43	3	3.00	0.48	42.97
25	16.40	4	2.59	0.14	33.98
26	16.59	4	2.59	0.14	36.05
27	15.17	4	1.84	0.39	74.07
28	11.77	4	1.84	0.39	43.38
29	8.71	4	1.84	0.39	86.69
30	15.60	4	1.84	0.39	27.16
31	15.92	3	1.94	0.65	52.20
32	14.60	2	2.40	0.38	52.31
33	15.81	2	2.40	0.38	42.95
34	14.77	3	2.53	0.81	33.62
35	15.76	3	2.53	0.81	42.51
36	14.69	2	1.93	0.49	84.72
37	14.67	4	1.88	0.68	60.21
38	11.01	2	1.19	0.47	49.26
39	11.71	2	1.19	0.47	31.09
40	14.99	2	1.19	0.47	36.84
41	16.35	4	2.04	0.75	27.76
42	14.53	2	1.68	0.21	82.54
43	12.98	4	2.16	0.42	85.51
44	14.01	4	2.16	0.42	63.76
45	12.65	2	1.74	0.34	70.32
46	15.51	2	1.74	0.34	38.02
47	16.59	3	1.70	0.23	28.62
48	13.12	4	1.87	0.31	72.74
49	14.40	4	1.87	0.31	35.46
50	16.38	3	1.39	0.28	65.28
51	16.08	3	1.39	0.28	26.43
52	14.99	3	1.39	0.28	27.76
53	15.26	3	1.86	0.35	76.13
54	10.42	3	1.86	0.35	89.80
55	12.31	4	1.72	0.44	55.19
56	13.27	4	1.72	0.44	71.09
57	15.71	4	1.72	0.44	34.05
58	15.74	3	1.85	0.86	29.20
59	14.24	2	2.40	0.63	16.41
60	13.80	2	1.50	0.37	60.71
61	15.50	2	1.50	0.37	56.25

62	11.69	2	1.68	0.49	45.00
63	16.39	2	1.68	0.49	28.57
64	14.62	2	2.24	0.39	76.76
65	15.79	3	2.32	0.25	17.43
66	14.15	3	2.32	0.25	61.69
67	15.20	2	2.28	0.38	52.28
68	14.87	2	2.05	0.09	52.61
69	16.04	2	3.50	0.68	70.79
70	16.04	2	3.50	0.68	36.77
71	15.47	3	3.37	0.72	76.61
72	15.43	4	2.00	0.43	73.86
73	16.50	4	2.00	0.43	13.38
74	12.16	3	2.38	0.57	74.87
75	10.73	3	2.23	0.61	81.38
76	12.52	4	1.71	0.61	46.40
77	13.77	3	1.99	0.49	66.25
78	9.40	3	1.99	0.49	58.19
79	15.62	4	2.25	0.57	61.42
80	14.04	4	2.25	0.75	24.61
81	12.67	4	2.25	0.75	69.52
82	14.17	4	2.25	0.75	32.91
83	15.01	4	2.25	0.75	56.55
84	13.36	4	2.25	0.75	60.97
85	14.68	4	2.25	0.75	53.13
86	13.82	4	2.25	0.75	38.37
87	14.32	4	2.25	0.75	43.58
88	14.83	3	2.05	0.77	66.03
89	9.20	3	2.05	0.77	72.59
90	15.50	3	2.05	0.77	17.34
91	13.18	4	2.26	0.58	86.39
92	12.19	2	2.21	0.40	71.73
93	16.75	2	2.21	0.40	42.38
94	16.41	2	2.21	0.40	17.93
95	14.85	2	2.21	0.40	36.29
96	16.03	3	1.84	0.52	67.95
97	17.27	3	1.84	0.52	18.58
98	15.79	2	2.43	0.49	88.51
99	15.67	3	2.03	1.05	73.17
100	13.97	4	2.14	0.45	30.40
101	14.03	2	1.24	0.37	72.73
102	16.49	2	1.00	0.30	30.35
103	14.58	4	2.21	0.72	52.11
104	16.02	2	1.93	0.58	63.44
105	16.39	2	2.17	0.51	17.49
106	14.58	2	2.13	0.78	49.84
107	16.21	3	2.26	0.92	22.54
108	15.90	3	1.59	0.18	61.76
109	14.69	3	1.59	0.18	37.37
110	16.09	3	1.59	0.18	15.31
111	12.18	4	2.06	0.47	39.93
112	13.08	4	2.06	0.47	37.86
113	15.96	4	2.06	0.47	71.89
114	11.85	4	2.06	0.47	52.73
115	17.53	4	2.06	0.47	15.67
116	11.44	2	2.16	0.76	82.00
117	14.71	2	2.16	0.76	47.42
118	10.66	3	2.81	0.40	46.05
119	15.95	2	1.35	0.44	64.28
120	16.41	4	1.52	0.23	48.31
121	16.26	2	2.10	0.71	47.81
122	13.96	3	2.10	0.48	53.66
123	15.30	3	2.10	0.48	53.34
124	16.42	4	2.91	0.75	73.18
125	17.31	4	2.91	0.75	41.89

Mean Dpar = 2.08
Mean Dper = 0.51

Mean length (um)= 14.62+/- 0.16
 Std. Dev. (um)= 1.82
 Skewness = -0.97
 Kurtosis = 0.71

950-36

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	13.98	4	1.74	0.42	41.81
2	14.33	4	1.74	0.42	61.01
3	14.19	4	1.74	0.42	56.77
4	16.85	4	1.74	0.42	35.09
5	15.38	4	1.74	0.42	54.76
6	15.34	4	1.74	0.42	47.01
7	15.05	4	2.53	0.94	87.64
8	14.11	4	2.53	0.94	53.60
9	16.76	4	2.53	0.94	58.74
10	16.88	4	2.14	0.58	53.00
11	13.54	4	2.14	0.58	58.63
12	15.99	4	2.14	0.58	38.21
13	14.27	4	1.84	0.56	34.15
14	15.34	2	1.99	0.59	47.10
15	17.05	4	2.40	0.62	80.04
16	13.99	2	2.12	0.71	84.10
17	15.16	4	2.45	0.58	84.20
18	15.86	4	2.45	0.58	38.22
19	15.34	4	2.45	0.58	75.30
20	15.57	4	1.81	0.47	31.45
21	15.73	4	2.19	0.37	37.16
22	15.67	3	2.88	0.67	76.39
23	15.23	3	2.88	0.67	38.55
24	15.73	3	2.88	0.67	20.02
25	15.48	2	3.14	0.44	79.10
26	17.23	2	3.06	0.78	37.34
27	13.04	4	2.43	0.58	76.96
28	15.98	4	2.10	0.84	72.80
29	14.36	4	2.10	0.84	25.58
30	15.33	3	2.16	0.56	48.73
31	16.01	3	2.16	0.56	28.39
32	14.16	3	2.46	0.75	70.18
33	14.15	3	3.77	0.84	84.81
34	13.84	3	3.77	0.84	55.11
35	15.08	2	2.58	0.53	52.65
36	14.52	2	2.58	0.53	56.57
37	15.34	2	2.40	0.65	37.45
38	15.04	2	2.40	0.65	54.53
39	12.90	2	1.94	0.31	54.53
40	15.44	2	1.84	0.81	65.93
41	13.54	3	2.31	0.58	69.83
42	15.43	4	1.68	0.43	89.82
43	12.55	4	1.68	0.43	51.92
44	17.02	4	1.68	0.43	35.15
45	15.58	4	1.68	0.43	78.55
46	15.25	2	2.03	0.21	73.08
47	16.39	3	2.28	0.57	37.11
48	12.90	4	1.73	0.56	71.96
49	15.59	4	1.73	0.56	65.68
50	16.45	3	2.24	0.44	46.36
51	14.62	4	2.06	0.24	58.22
52	15.13	3	2.81	0.71	50.29
53	17.42	3	1.99	0.65	70.60
54	16.52	3	1.99	0.65	70.02
55	17.24	3	1.99	0.65	55.72
56	15.09	3	1.99	0.65	46.29

57	15.92	3	2.31	0.75	69.29
58	13.91	3	2.31	0.75	66.80
59	17.82	3	2.31	0.75	72.18
60	17.44	3	2.31	0.75	57.85
61	15.76	2	1.54	0.45	58.31
62	16.15	2	1.54	0.45	19.46
63	15.48	2	1.54	0.31	67.47
64	15.19	2	1.54	0.31	52.68
65	15.48	2	1.54	0.31	57.79
66	13.06	2	2.68	0.34	56.64
67	14.18	2	2.68	0.34	57.70
68	14.48	2	2.68	0.34	43.96
69	15.56	2	2.23	1.01	64.01
70	15.59	2	2.23	1.01	48.69
71	15.58	3	1.79	0.38	66.29
72	14.90	3	1.79	0.38	82.02
73	15.24	3	1.79	0.38	31.44
74	15.21	4	1.81	0.49	41.32
75	15.81	4	1.81	0.49	41.32
76	15.00	4	1.81	0.49	73.27
77	14.86	4	1.81	0.49	48.66
78	15.89	4	1.81	0.49	57.64
79	15.72	4	1.81	0.49	68.08
80	17.91	4	2.57	0.47	53.84
81	16.22	4	2.57	0.47	34.12
82	15.84	4	2.57	0.47	54.78
83	16.33	4	2.57	0.47	57.38
84	15.21	4	1.97	0.56	73.98
85	16.83	2	2.51	0.72	51.91
86	16.93	2	2.51	0.72	28.93
87	16.06	3	2.32	0.77	46.88
88	13.05	3	2.32	0.77	84.00
89	16.95	3	2.32	0.77	29.48
90	16.10	3	2.32	0.77	46.88
91	13.87	4	2.10	0.47	85.49
92	15.87	4	2.10	0.47	19.71
93	13.55	4	2.10	0.47	71.22
94	16.55	2	2.43	0.34	65.75
95	15.73	2	2.43	0.34	53.56
96	14.62	4	2.18	0.45	51.05
97	12.21	4	2.18	0.45	57.73
98	15.35	4	2.05	0.52	28.01
99	15.85	4	3.03	0.58	62.81
100	15.77	2	2.18	0.59	64.75
101	16.15	4	2.84	0.65	34.71
102	15.36	4	1.97	0.33	75.17
103	15.80	4	1.97	0.33	53.31
104	15.32	4	1.97	0.33	33.90
105	14.44	4	1.97	0.33	65.24
106	15.43	2	2.19	0.42	43.68
107	15.86	3	2.47	0.49	49.05
108	14.38	3	2.47	0.49	73.57
109	13.99	2	1.68	0.44	57.63
110	12.61	2	1.68	0.44	76.62
111	13.17	3	2.79	0.65	69.61
112	13.31	3	2.79	0.65	63.64
113	13.02	3	2.79	0.65	57.20
114	16.42	2	2.38	0.31	58.66
115	15.23	4	2.17	0.63	51.74
116	14.99	4	2.17	0.63	50.77
117	15.87	4	2.17	0.63	16.79
118	15.91	2	2.31	0.48	27.71
119	15.91	2	2.31	0.48	80.70
120	15.26	4	2.46	0.52	56.55
121	15.74	4	2.46	0.52	38.64
122	14.65	4	2.46	0.52	84.01
123	14.56	4	2.46	0.52	62.46

124	12.33	2	2.06	0.45	54.15
125	14.03	3	2.43	0.37	52.68
126	15.45	3	2.43	0.37	41.57

Mean Dpar = 2.23
Mean Dper = 0.55
Mean length (um)= 15.22+/- 0.11
Std. Dev. (um)= 1.20
Skewness = -0.36
Kurtosis = -0.12

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Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	13.20	4	2.25	0.94	57.03
2	14.67	4	2.25	0.94	45.86
3	15.32	2	1.92	0.47	58.26
4	16.38	2	2.16	0.67	36.38
5	16.52	4	2.85	0.59	48.61
6	14.83	4	2.85	0.59	48.70
7	15.72	4	2.85	0.59	43.14
8	14.52	4	2.85	0.59	46.00
9	14.87	4	2.85	0.59	76.85
10	15.04	4	2.85	0.59	59.99
11	15.07	2	2.14	0.39	60.08
12	14.79	2	2.14	0.39	49.13
13	14.39	2	2.14	0.39	77.84
14	15.05	2	2.14	0.39	55.70
15	14.86	2	2.14	0.39	48.32
16	16.51	2	2.14	0.39	39.91
17	15.67	2	2.14	0.39	65.03
18	15.49	2	2.14	0.39	87.69
19	16.71	2	2.14	0.39	29.23
20	16.14	2	2.14	0.39	28.83
21	15.06	2	2.14	0.39	27.68
22	13.63	2	2.14	0.39	64.62
23	15.98	3	2.58	0.72	68.85
24	14.62	3	2.58	0.72	-1.00
25	14.34	4	2.12	0.58	79.50
26	14.88	4	2.12	0.58	45.00
27	14.99	4	2.12	0.58	22.01
28	15.71	4	2.12	0.58	41.66
29	15.61	4	1.81	0.48	52.11
30	15.30	4	1.81	0.48	44.73
31	14.76	4	1.81	0.48	70.65
32	12.84	4	1.81	0.48	83.02
33	15.47	3	2.03	0.47	34.91
34	15.02	3	2.03	0.47	37.36
35	14.62	2	1.98	0.43	72.85
36	16.44	3	2.07	0.68	37.28
37	15.16	2	2.90	0.40	45.88
38	14.96	2	1.72	0.24	60.62
39	14.99	2	1.72	0.24	81.87
40	17.14	2	2.58	0.85	60.37
41	14.76	2	2.19	0.33	54.61
42	14.64	3	2.39	0.39	48.64
43	15.23	3	2.39	0.39	48.76
44	15.59	2	1.81	0.45	35.83
45	15.01	2	1.81	0.45	63.81
46	15.56	4	2.23	0.35	75.77
47	15.90	2	1.91	0.75	76.65
48	14.81	3	2.28	0.44	59.86
49	14.70	3	2.28	0.44	76.26
50	13.52	3	2.28	0.44	52.87

51	16.58	3	2.28	0.44	15.71
52	14.25	3	2.28	0.44	27.79
53	15.03	4	1.83	0.25	57.91
54	15.66	2	2.24	0.57	33.97
55	15.31	3	2.32	0.42	23.30
56	12.46	3	2.32	0.42	68.41
57	16.23	3	2.32	0.42	25.93
58	14.41	2	1.51	0.23	52.06
59	14.24	2	1.51	0.23	48.29
60	15.52	3	2.03	0.48	49.89
61	14.18	3	2.11	0.65	60.86
62	15.00	3	1.97	0.58	61.87
63	13.37	2	2.07	0.61	45.74
64	14.50	3	2.05	0.95	75.64
65	15.70	3	2.05	0.95	79.65
66	15.35	3	2.05	0.95	26.00
67	15.98	2	2.28	0.29	61.63
68	15.92	3	2.04	0.34	63.64
69	15.54	2	1.81	0.56	63.75
70	11.15	2	1.81	0.56	65.09
71	14.53	3	2.19	0.59	83.59
72	15.15	3	2.19	0.59	23.40
73	13.02	3	2.19	0.59	55.78
74	12.89	3	2.19	0.59	66.23
75	16.89	3	2.19	0.59	22.70
76	15.13	4	2.25	0.53	64.04
77	15.84	4	2.25	0.53	25.12
78	16.39	2	2.00	0.38	74.59
79	16.87	2	2.00	0.38	47.37
80	15.95	2	1.80	0.43	21.60
81	16.09	2	1.80	0.43	53.35
82	15.80	2	1.66	0.20	35.58
83	15.44	2	1.81	0.58	36.56
84	14.52	2	1.81	0.58	48.58
85	15.90	2	1.84	0.28	33.52
86	15.87	4	1.79	0.58	69.63
87	16.45	4	1.79	0.58	32.08
88	16.38	4	1.79	0.58	43.80
89	17.63	3	2.65	0.84	12.07
90	14.14	4	1.48	0.37	71.33
91	14.30	4	1.48	0.37	70.20
92	14.62	4	1.48	0.37	62.10
93	15.54	4	1.48	0.37	46.65
94	14.17	4	1.74	0.56	36.92
95	15.28	4	1.74	0.56	35.42
96	12.63	3	1.21	0.24	82.19
97	16.27	3	1.21	0.24	44.01
98	15.73	3	2.16	0.47	45.45
99	15.36	3	2.16	0.47	44.83
100	15.21	4	2.08	0.45	81.64
101	16.36	4	2.08	0.45	26.94
102	16.05	4	2.08	0.45	35.97
103	15.99	4	1.87	0.25	38.60
104	14.09	4	1.81	0.37	69.18
105	16.18	4	1.99	0.75	15.78
106	13.78	4	1.74	0.25	87.33
107	15.79	4	1.74	0.25	56.65
108	13.92	4	1.74	0.25	43.43
109	15.44	4	2.53	0.87	34.66
110	14.11	4	2.53	0.87	88.34
111	14.30	4	2.53	0.87	74.61
112	13.88	4	2.53	0.87	58.65
113	14.73	4	2.53	0.87	79.03
114	15.03	4	2.00	0.47	79.37
115	15.27	4	2.00	0.47	89.74
116	14.52	4	2.00	0.47	59.72
117	15.49	4	2.00	0.47	66.38

118	15.00	3	2.25	0.51	72.59
119	15.08	4	2.18	0.30	78.99
120	14.06	2	2.18	0.35	50.43
121	15.73	4	1.99	0.40	40.11
122	14.35	4	1.99	0.40	56.40
123	16.77	4	1.99	0.40	40.11
124	14.34	4	1.99	0.40	63.14
125	16.99	4	1.99	0.40	13.52

Mean Dpar = 2.08

Mean Dper = 0.50

Mean length (um)= 15.12+/- 0.09

Std. Dev. (um)= 1.04

Skewness = -0.59

Kurtosis = 1.10

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Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.51	2	1.30	0.28	72.55
2	15.57	2	1.37	0.19	29.73
3	14.80	4	1.43	0.30	56.39
4	13.83	4	1.43	0.30	80.86
5	12.78	4	1.43	0.30	82.07
6	13.59	4	1.43	0.30	61.26
7	14.90	3	1.68	0.20	19.95
8	14.92	3	1.68	0.20	37.66
9	13.81	3	1.61	0.25	58.99
10	10.51	3	1.61	0.25	89.77
11	16.35	4	1.58	0.82	39.88
12	13.88	4	1.58	0.82	48.32
13	15.30	4	1.58	0.82	52.59
14	16.27	4	1.58	0.82	15.60
15	13.87	4	1.58	0.82	40.41
16	16.51	4	1.58	0.82	39.54
17	9.13	4	1.58	0.82	88.73
18	15.14	4	1.58	0.82	26.63
19	15.25	3	1.43	0.38	40.91
20	15.08	3	1.43	0.38	33.59
21	15.43	4	1.78	0.61	80.42
22	15.50	2	1.67	0.77	77.23
23	14.91	4	1.58	0.73	47.67
24	11.70	4	1.58	0.73	85.50
25	11.99	4	1.58	0.73	72.77
26	10.24	4	1.58	0.73	55.08
27	12.75	3	1.87	0.71	67.58
28	15.71	3	1.87	0.71	33.64
29	13.46	3	1.54	0.11	57.19
30	13.74	2	1.39	0.05	25.33
31	13.13	3	1.45	0.56	66.48
32	13.35	3	1.45	0.56	52.93
33	11.85	3	1.45	0.56	52.68
34	14.23	3	1.57	0.76	58.08
35	12.73	3	1.86	1.26	51.76
36	13.45	3	1.86	1.26	78.89
37	16.17	3	1.86	1.26	14.94
38	12.00	3	1.86	1.26	54.86
39	13.60	3	1.86	1.26	82.55
40	14.95	4	1.87	0.44	38.56
41	14.93	4	1.87	0.44	43.78
42	14.79	3	1.57	0.76	34.59
43	14.45	2	1.38	0.52	47.04
44	16.26	2	1.38	0.52	21.75
45	10.66	4	1.71	0.38	47.07

46	13.27	4	1.71	0.38	67.66
47	9.73	4	1.71	0.38	38.82
48	13.92	4	1.71	0.38	34.44
49	10.87	4	1.71	0.38	45.15
50	14.84	4	1.71	0.38	44.21
51	10.64	4	1.71	0.38	79.29
52	17.06	4	1.71	0.38	29.17
53	15.87	4	1.78	0.21	42.05
54	13.45	4	1.78	0.21	73.34
55	13.40	4	1.78	0.21	85.09
56	7.55	4	1.78	0.21	67.20
57	10.85	3	1.58	0.30	50.18
58	10.04	4	1.60	0.34	60.71
59	14.37	2	1.50	0.42	73.15
60	16.31	4	1.72	0.28	29.38
61	15.51	2	1.94	0.35	36.19
62	13.43	2	1.81	0.11	60.79
63	13.73	4	1.54	0.25	60.98
64	16.21	4	1.54	0.25	29.07
65	12.77	4	1.54	0.25	58.49
66	14.35	3	1.76	0.18	62.80
67	11.83	3	1.76	0.18	73.84
68	15.02	3	1.76	0.18	77.83
69	16.16	3	1.85	0.21	68.17
70	15.17	3	1.85	0.21	57.62
71	14.78	2	1.51	0.10	63.98
72	13.30	2	1.51	0.10	89.86
73	14.90	2	1.51	0.10	52.61
74	14.58	2	1.51	0.10	69.59
75	11.86	3	1.31	0.43	53.91
76	17.70	2	1.65	0.10	28.69
77	12.37	2	1.65	0.10	47.61
78	13.19	2	1.41	0.23	71.23
79	13.14	2	1.41	0.23	54.55
80	14.82	2	1.41	0.23	43.26
81	12.27	2	1.80	0.28	85.43
82	12.87	2	1.80	0.28	82.09
83	12.25	4	1.74	0.07	76.85
84	15.32	4	1.74	0.07	49.46
85	13.80	4	1.74	0.07	70.32
86	15.25	4	1.74	0.07	44.60
87	15.56	4	1.74	0.07	45.02
88	11.07	4	1.74	0.07	75.73
89	11.37	4	1.74	0.07	57.67
90	13.68	3	1.20	0.12	71.01
91	15.81	3	1.20	0.12	66.62
92	15.75	3	1.55	0.10	57.58
93	14.52	3	1.44	0.26	55.61
94	15.57	3	1.44	0.26	47.10
95	15.18	3	1.44	0.26	36.76
96	12.34	2	1.54	0.12	80.19
97	14.70	2	2.00	0.15	53.98
98	17.79	2	2.05	0.15	45.82
99	13.43	2	2.05	0.15	83.57
100	9.16	2	2.05	0.15	79.01
101	15.29	4	1.65	0.24	57.53
102	13.78	4	1.65	0.24	49.43
103	15.83	4	1.65	0.24	57.72
104	14.28	4	1.65	0.24	48.17
105	14.57	4	1.43	0.19	37.08
106	12.62	4	1.43	0.19	67.37
107	13.76	4	1.99	0.06	48.74
108	17.19	4	1.99	0.06	53.59
109	15.75	4	1.99	0.06	24.08
110	14.65	3	1.38	0.18	69.55
111	15.33	3	1.38	0.18	40.81
112	16.53	3	1.61	0.25	64.23

113	12.27	2	1.87	0.21	74.50
114	13.65	1	1.57	0.09	55.72
115	11.33	3	1.71	0.04	75.96
116	17.21	3	1.71	0.04	25.18
117	14.11	4	1.63	0.24	64.80
118	16.88	4	1.63	0.24	13.52
119	13.65	4	1.63	0.24	43.77
120	14.65	4	1.63	0.24	41.15
121	12.48	4	1.63	0.24	73.61
122	9.97	4	1.63	0.24	60.20
123	13.88	4	1.63	0.24	44.48
124	10.07	4	1.63	0.24	48.94
125	12.80	4	1.63	0.24	72.63

Mean Dpar = 1.64

Mean Dper = 0.35

Mean length (um)= 13.88+/- 0.18

Std. Dev. (um)= 1.97

Skewness = -0.60

Kurtosis = 0.16

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Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	16.82	3	2.61	0.91	34.58
2	14.08	3	2.61	0.91	48.73
3	15.49	3	2.61	0.91	48.16
4	13.83	4	2.91	0.72	36.92
5	14.95	4	2.91	0.72	9.13
6	15.75	3	2.51	0.70	38.94
7	14.44	3	2.51	0.70	69.66
8	16.68	3	2.51	0.70	33.22
9	17.17	4	2.99	0.87	52.00
10	15.30	4	2.99	0.87	51.83
11	14.38	3	2.84	0.99	33.07
12	15.17	3	2.84	0.99	75.82
13	16.94	4	2.52	1.27	70.63
14	15.63	4	2.60	1.09	44.29
15	12.37	2	2.86	0.95	49.57
16	15.49	4	2.66	0.59	50.82
17	14.69	4	2.66	0.59	42.93
18	13.32	4	2.66	0.59	86.15
19	15.22	4	2.58	0.99	65.16
20	12.55	3	2.96	0.84	43.53
21	16.38	4	2.79	0.73	79.02
22	15.32	4	2.79	0.73	80.20
23	14.78	4	2.79	0.73	63.11
24	14.61	4	3.34	0.94	73.85
25	11.84	4	3.34	0.94	55.91
26	16.72	4	2.41	0.63	29.27
27	14.80	4	2.87	0.72	63.80
28	16.38	4	2.87	0.72	57.88
29	16.41	3	3.52	1.19	51.74
30	14.89	4	2.47	0.85	30.51
31	17.89	4	2.47	0.85	13.34
32	14.93	4	2.47	0.85	47.01
33	15.35	4	2.47	0.85	62.81
34	14.92	4	2.47	0.85	51.99
35	17.03	4	2.47	0.85	37.57
36	14.64	3	2.68	0.56	71.22
37	13.88	3	2.68	0.56	46.19
38	17.12	3	2.68	0.56	35.35
39	17.51	3	2.68	0.56	13.59
40	16.24	4	2.98	0.68	60.68

41	12.56	4	2.98	0.68	66.36
42	16.75	4	2.98	0.68	49.50
43	15.20	4	2.83	0.99	70.37
44	16.14	4	2.83	0.99	72.07
45	13.97	4	2.83	0.99	58.97
46	17.21	4	2.83	0.99	26.74
47	15.74	4	2.53	0.51	60.68
48	14.75	4	3.00	0.62	47.47
49	14.17	4	3.00	0.62	52.45
50	11.88	4	2.60	0.75	71.29
51	15.77	4	2.60	0.75	15.96
52	14.57	1	2.40	0.30	59.04
53	16.47	4	2.37	0.85	29.40
54	11.97	4	2.37	0.85	58.18
55	15.09	4	2.37	0.85	80.71
56	13.06	4	2.37	0.85	38.96
57	15.35	4	2.37	0.85	22.46
58	13.38	4	2.77	1.10	68.41
59	15.30	4	2.77	1.10	37.38
60	14.69	4	2.77	1.10	88.09
61	13.14	4	2.77	1.10	57.77
62	14.63	4	2.77	1.10	21.50
63	13.04	4	2.81	0.94	67.23
64	16.04	4	2.45	0.89	62.34
65	15.03	4	2.45	0.89	66.47
66	13.98	4	2.45	0.89	22.70
67	14.11	4	2.45	0.89	70.23
68	15.49	2	3.10	0.56	78.65
69	14.42	2	3.10	0.56	50.77
70	11.82	4	2.83	1.15	47.13
71	13.11	4	2.83	1.15	58.28
72	14.89	4	2.47	0.65	56.12
73	16.53	4	2.24	0.42	63.15
74	13.70	4	2.24	0.42	43.51
75	14.34	4	2.85	0.56	63.53
76	14.43	4	2.41	0.61	74.57
77	12.88	4	2.41	0.61	66.95
78	14.27	4	2.41	0.61	61.60
79	14.61	4	2.41	0.61	24.99
80	15.65	4	2.41	0.61	35.30
81	16.59	4	2.41	0.61	41.90
82	13.93	4	2.52	0.84	74.79
83	14.34	4	2.52	0.84	30.79
84	16.59	4	2.40	0.82	24.14
85	15.56	4	2.86	0.53	43.95
86	15.75	4	2.86	0.53	49.90
87	16.96	4	2.86	0.53	17.48
88	15.64	4	2.86	0.53	75.27
89	17.80	4	2.86	0.53	27.13
90	15.34	4	2.86	0.53	20.04
91	16.20	4	2.46	0.40	36.82
92	15.25	4	2.16	0.61	59.77
93	11.83	4	2.16	0.61	55.79
94	14.70	4	2.67	0.42	84.10
95	15.25	4	2.67	0.42	84.36
96	13.30	4	2.67	0.42	78.09
97	13.31	4	2.67	0.42	71.11
98	16.22	3	2.43	0.28	37.80
99	15.16	4	2.78	0.71	25.81
100	14.60	4	2.78	0.71	55.35
101	15.23	4	2.78	0.71	62.21
102	13.61	3	2.40	0.72	53.42
103	13.84	3	2.40	0.72	70.06
104	15.10	2	2.07	0.21	68.57
105	12.38	2	2.07	0.21	79.99
106	15.63	3	2.12	0.58	46.86
107	13.30	3	2.12	0.58	58.11

108	14.92	3	2.12	0.58	78.69
109	17.10	4	2.43	0.67	39.93
110	10.90	4	2.43	0.67	77.55
111	15.18	3	3.05	0.76	58.28
112	15.66	4	2.06	0.58	47.75
113	14.90	4	2.06	0.58	76.41
114	14.71	4	2.43	0.48	26.97
115	13.47	4	2.43	0.48	57.54
116	15.35	4	2.43	0.48	12.22
117	13.15	4	2.43	0.48	73.62
118	13.91	4	2.24	0.58	80.55
119	16.64	3	2.36	0.96	23.02
120	15.24	4	2.71	0.87	0.56
121	15.37	4	2.71	0.87	28.80
122	15.28	2	2.54	0.44	73.07
123	14.33	2	2.54	0.44	53.17
124	14.74	2	2.54	0.44	42.43
125	14.76	4	2.86	0.99	44.58
126	11.88	4	2.86	0.99	66.25
127	16.18	4	2.86	0.99	47.27

Mean Dpar = 2.63

Mean Dper = 0.73

Mean length (um)= 14.87+/- 0.13

Std. Dev. (um)= 1.42

Skewness = -0.34

Kurtosis = -0.16

950-40

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.58	4	2.24	0.73	52.77
2	14.03	4	2.24	0.73	70.10
3	16.39	4	2.24	0.73	54.78
4	15.34	4	2.24	0.73	71.90
5	16.20	4	2.24	0.73	39.51
6	15.61	4	2.24	0.73	55.60
7	13.32	4	2.24	0.73	72.36
8	14.79	4	2.24	0.73	88.31
9	12.39	3	2.36	0.94	53.75
10	15.12	3	2.43	0.81	31.66
11	14.37	3	2.43	0.81	61.71
12	12.66	3	2.43	0.81	77.77
13	15.44	3	2.58	0.65	58.40
14	14.61	4	2.70	0.72	36.88
15	15.16	4	2.70	0.72	74.95
16	15.54	4	2.70	0.72	64.44
17	16.16	4	2.70	0.72	45.05
18	14.76	4	2.70	0.72	80.62
19	14.64	4	2.70	0.72	62.92
20	16.17	4	2.70	0.72	56.19
21	15.69	4	2.70	0.72	42.07
22	16.48	4	2.70	0.72	63.02
23	14.69	4	2.70	0.72	63.88
24	15.17	2	2.45	0.54	79.51
25	14.12	2	2.45	0.54	72.63
26	14.65	3	2.61	0.54	60.08
27	16.05	3	2.64	0.48	82.02
28	16.58	3	2.64	0.48	81.57
29	14.94	3	2.64	0.48	46.25
30	15.19	3	2.64	0.48	78.02
31	17.15	4	2.26	0.96	52.62
32	16.33	4	2.26	0.96	12.70
33	14.13	2	2.84	0.45	75.50

34	15.55	2	2.84	0.45	75.48
35	16.39	2	2.84	0.45	79.22
36	15.33	3	2.36	0.45	63.38
37	16.59	3	2.36	0.45	44.91
38	15.61	4	2.81	1.01	40.66
39	15.71	4	2.81	1.01	60.31
40	17.08	4	2.81	1.01	15.27
41	15.05	4	2.46	0.49	77.83
42	14.35	2	1.60	0.53	46.76
43	12.46	2	1.60	0.53	67.57
44	15.93	3	2.63	1.05	48.47
45	15.70	3	2.63	1.05	75.57
46	13.35	2	2.23	0.95	74.28
47	14.89	4	2.58	0.53	84.61
48	14.71	3	2.58	0.31	28.17
49	11.60	2	2.34	0.56	79.27
50	13.61	2	2.34	0.56	34.46
51	14.18	2	2.17	0.76	58.52
52	14.69	2	2.36	0.57	59.58
53	10.83	2	2.36	0.57	53.50
54	15.00	2	2.39	0.90	60.26
55	14.30	2	2.51	0.52	43.53
56	14.46	3	2.23	0.47	72.89
57	12.25	3	2.23	0.47	61.21
58	15.69	2	2.53	0.94	45.44
59	16.12	2	2.53	0.94	48.98
60	16.38	4	2.19	0.73	67.82
61	14.75	4	2.19	0.73	68.94
62	13.87	4	2.19	0.73	41.20
63	15.43	4	2.19	0.73	61.67
64	15.04	4	2.38	0.78	81.53
65	15.51	4	2.38	0.78	68.13
66	14.35	2	2.37	0.80	67.18
67	14.98	4	2.47	0.58	38.29
68	14.60	4	2.47	0.58	46.40
69	16.60	4	2.80	0.78	30.97
70	13.93	4	2.80	0.78	39.40
71	15.24	4	2.80	0.78	48.99
72	16.54	4	2.85	0.94	78.96
73	14.30	4	2.85	0.94	67.51
74	14.18	2	2.48	0.31	51.61
75	14.91	2	2.48	0.31	77.92
76	15.03	3	3.00	0.53	44.60
77	14.71	3	3.00	0.53	63.22
78	13.77	3	3.00	0.53	53.44
79	14.92	3	3.00	0.53	40.20
80	14.49	2	2.08	0.70	62.35
81	13.93	4	2.34	0.75	62.01
82	15.59	4	2.34	0.75	33.61
83	13.89	3	2.21	0.43	72.52
84	12.53	3	2.21	0.43	40.62
85	14.52	3	2.64	0.70	57.89
86	13.51	3	2.64	0.70	73.31
87	14.25	3	2.64	0.70	51.52
88	15.41	4	2.93	0.45	79.47
89	13.10	4	2.93	0.45	55.14
90	14.94	4	2.93	0.45	67.91
91	15.66	4	2.93	0.45	66.72
92	15.61	4	2.93	0.45	62.92
93	15.90	2	2.33	0.16	39.17
94	14.14	2	2.33	0.16	43.38
95	14.54	2	2.33	0.16	63.35
96	8.10	4	2.30	0.81	72.25
97	9.64	4	2.30	0.81	55.05
98	15.22	4	2.78	0.44	46.54
99	12.91	4	2.78	0.44	85.64
100	14.44	4	2.78	0.44	59.97

101	14.28	4	2.78	0.44	80.55
102	13.22	4	2.54	0.51	54.69
103	15.05	4	2.54	0.51	50.86
104	16.21	2	2.70	0.35	54.09
105	16.90	2	2.67	0.75	67.36
106	14.10	2	2.67	0.75	43.97
107	14.69	2	2.67	0.75	65.63
108	14.00	2	2.67	0.75	59.02
109	15.60	3	2.20	0.18	48.76
110	13.40	3	2.20	0.18	89.72
111	15.19	3	2.20	0.18	35.74
112	14.76	3	2.41	0.94	25.73
113	12.31	3	2.41	0.94	65.02
114	14.83	2	1.90	0.38	48.04
115	12.87	2	1.90	0.38	40.17
116	14.73	2	2.45	0.71	22.31
117	15.47	2	2.45	0.71	38.75
118	13.95	4	2.44	0.25	51.77
119	14.87	4	2.44	0.25	63.72
120	13.08	4	2.33	0.77	73.29
121	15.17	4	2.33	0.77	49.79
122	15.77	2	2.52	0.71	40.47
123	16.15	2	2.52	0.71	50.54
124	14.97	4	2.85	0.80	72.85
125	15.16	4	2.41	0.70	56.86
126	13.97	4	2.38	0.90	71.76
127	14.94	4	2.38	0.90	48.32
128	14.57	4	2.38	0.90	35.60
129	14.81	2	2.65	0.86	59.37

Mean Dpar = 2.50
Mean Dper = 0.64
Mean length (um)= 14.71+/- 0.12
Std. Dev. (um)= 1.36
Skewness = -1.51
Kurtosis = 4.54

950-41

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	12.46	4	1.60	0.15	54.06
2	10.67	4	1.38	0.14	69.07
3	13.61	4	1.54	0.33	58.85
4	14.06	4	1.54	0.33	42.43
5	12.04	2	1.53	0.34	68.04
6	15.21	2	1.53	0.34	40.21
7	13.55	2	1.53	0.34	32.06
8	16.29	3	1.47	0.21	43.23
9	13.87	3	1.43	0.26	60.17
10	14.44	3	1.43	0.26	50.40
11	15.91	3	1.43	0.26	60.86
12	11.82	3	1.43	0.26	75.59
13	10.65	2	1.57	0.30	69.60
14	13.01	3	1.51	0.30	82.47
15	14.90	3	1.51	0.30	42.91
16	15.94	3	1.65	0.24	52.81
17	14.56	3	1.65	0.24	35.41
18	14.15	4	1.43	0.24	69.56
19	13.72	4	1.79	0.18	67.12
20	14.76	4	1.79	0.18	57.31
21	15.47	4	1.79	0.18	38.70
22	15.53	4	1.79	0.18	48.58
23	14.08	4	1.79	0.18	33.76
24	11.45	4	1.79	0.18	73.21

25	12.01	4	1.79	0.18	64.28
26	11.67	4	1.79	0.18	60.55
27	15.49	4	1.79	0.18	37.05
28	14.27	3	1.61	0.33	76.98
29	15.58	3	1.61	0.33	51.08
30	14.21	4	1.67	0.31	39.59
31	12.64	4	1.67	0.31	55.91
32	14.19	4	1.67	0.31	85.67
33	12.71	4	1.67	0.31	74.02
34	14.62	4	1.67	0.31	41.97
35	16.03	4	1.67	0.31	33.57
36	15.51	4	1.50	0.29	46.97
37	12.53	4	1.50	0.29	70.61
38	11.39	4	1.50	0.29	50.93
39	13.50	4	1.50	0.29	53.71
40	6.75	2	2.00	0.65	80.24
41	13.37	4	1.52	0.29	51.06
42	15.05	4	1.85	0.26	68.98
43	15.12	4	1.85	0.26	27.34
44	13.62	3	1.87	0.23	88.29
45	12.50	3	1.87	0.23	75.50
46	16.19	4	1.39	0.21	16.35
47	13.63	4	1.52	0.28	64.97
48	12.45	4	1.52	0.28	60.54
49	15.25	4	1.52	0.28	43.13
50	13.05	4	1.57	0.10	34.04
51	16.19	4	1.57	0.10	32.92
52	13.91	4	1.57	0.10	65.38
53	6.17	4	1.57	0.10	60.16
54	14.33	4	1.57	0.10	41.66
55	13.70	4	1.57	0.10	32.74
56	14.52	4	1.57	0.10	55.48
57	13.23	2	1.44	0.35	52.57
58	12.53	2	1.44	0.35	59.24
59	13.57	3	1.57	0.29	76.58
60	13.56	2	1.60	0.14	72.81
61	13.28	2	1.60	0.14	7.86
62	10.92	2	1.60	0.14	50.83
63	10.78	3	1.34	0.21	86.96
64	11.26	3	1.34	0.21	79.24
65	12.63	3	1.18	0.25	74.71
66	13.90	4	1.40	0.25	65.76
67	16.75	4	1.51	0.18	20.46
68	12.53	4	1.51	0.18	44.38

Mean Dpar = 1.59
Mean Dper = 0.24
Mean length (um)= 13.52+/- 0.24
Std. Dev. (um)= 1.96
Skewness = -1.26
Kurtosis = 2.87

950-42

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	16.31	4	2.37	0.72	69.68
2	14.87	4	2.37	0.72	48.42
3	14.98	4	2.37	0.72	33.37
4	13.72	4	2.37	0.72	63.14
5	15.17	4	2.37	0.72	68.01
6	16.58	4	1.96	0.39	52.36
7	15.98	4	1.96	0.39	67.86
8	12.92	4	1.92	0.26	52.62
9	14.12	4	1.92	0.26	43.75

10	14.96	4	1.92	0.26	59.90	77	8.85	4	1.77	0.40	72.71
11	16.01	4	1.92	0.26	47.66	78	14.18	4	1.77	0.40	77.72
12	15.64	4	1.92	0.26	39.40	79	15.10	4	1.77	0.40	45.07
13	14.95	4	1.92	0.26	37.11	80	13.68	4	1.72	0.42	70.23
14	12.74	4	1.92	0.26	79.76	81	15.38	4	1.72	0.42	68.74
15	16.91	4	1.92	0.26	26.95	82	15.49	4	1.72	0.42	56.26
16	15.62	4	1.92	0.26	35.67	83	13.62	4	1.72	0.42	80.99
17	15.52	4	1.92	0.26	77.22	84	11.83	4	1.72	0.42	74.96
18	15.13	4	1.92	0.26	41.19	85	13.85	4	1.72	0.42	56.30
19	14.82	4	1.92	0.26	67.76	86	14.93	3	1.61	0.24	60.67
20	14.17	4	1.92	0.26	40.06	87	15.81	3	1.61	0.24	41.10
21	14.57	4	1.92	0.26	41.06	88	11.77	3	1.61	0.24	42.80
22	15.10	4	1.92	0.26	20.95	89	11.98	3	1.61	0.24	49.34
23	14.12	4	1.92	0.26	61.80	90	15.51	3	1.61	0.24	34.64
24	14.58	4	1.84	0.20	50.19	91	15.22	2	1.77	0.11	79.40
25	15.25	4	1.84	0.20	38.02	92	12.15	2	1.77	0.11	66.53
26	16.03	4	1.84	0.20	34.22	93	15.09	2	1.77	0.11	49.32
27	14.28	3	1.57	0.58	22.33	94	13.30	2	1.77	0.11	78.05
28	11.73	3	1.57	0.58	65.23	95	14.72	4	2.06	0.42	86.42
29	13.07	3	1.57	0.58	37.41	96	15.38	3	1.96	0.28	35.69
30	14.67	4	2.66	0.52	58.81	97	9.15	3	1.96	0.28	81.82
31	14.63	4	2.66	0.52	71.02	98	15.87	4	1.60	0.24	60.91
32	14.67	4	2.66	0.52	29.41	99	18.50	4	1.60	0.24	24.26
33	11.82	4	2.66	0.52	65.04	100	16.56	3	2.13	0.66	70.12
34	13.92	4	1.72	0.59	65.69	101	16.62	3	2.13	0.66	50.50
35	15.61	4	1.72	0.59	63.24	102	14.93	3	2.13	0.66	82.77
36	16.51	4	1.72	0.59	26.98	103	15.73	3	2.13	0.66	55.34
37	14.07	4	1.72	0.59	61.80	104	14.22	3	2.13	0.66	62.94
38	15.78	4	1.72	0.59	29.31	105	16.84	3	2.13	0.66	70.78
39	15.61	4	1.72	0.59	36.91	106	16.52	3	2.13	0.66	49.13
40	14.76	4	1.94	0.58	57.13	107	16.03	4	1.79	0.30	73.07
41	16.01	4	1.94	0.58	33.68	108	12.86	4	1.79	0.30	42.37
42	14.55	4	1.74	0.25	50.11	109	14.42	4	1.79	0.30	33.51
43	15.29	4	1.74	0.25	38.69	110	14.09	4	1.79	0.30	58.47
44	14.25	4	1.74	0.25	23.38	111	14.77	4	1.87	0.51	46.22
45	13.42	4	1.79	0.24	61.14	112	15.16	4	1.87	0.51	48.75
46	14.98	4	1.79	0.24	16.71	113	14.20	4	1.87	0.51	29.76
47	14.25	4	1.79	0.24	63.67	114	15.27	4	1.87	0.51	62.11
48	13.32	4	1.79	0.24	57.22	115	14.62	4	1.87	0.51	64.80
49	14.40	4	1.79	0.24	32.40	116	12.12	4	1.87	0.51	74.25
50	15.07	3	1.90	0.05	56.33	117	14.14	3	1.78	0.24	62.16
51	16.19	3	1.90	0.05	32.43	118	15.36	3	1.78	0.24	58.57
52	10.12	3	1.90	0.05	84.44	119	15.40	3	1.78	0.24	33.87
53	15.36	3	1.90	0.05	58.74	120	14.47	3	1.78	0.24	49.90
54	16.00	4	1.59	0.16	61.88	121	13.34	3	1.78	0.24	83.33
55	14.03	4	1.59	0.16	52.75	122	14.57	4	1.93	0.16	45.96
56	14.99	4	1.59	0.16	47.18	123	15.36	4	1.93	0.16	44.32
57	14.62	4	1.59	0.16	40.34	124	15.44	2	1.33	0.11	51.79
58	15.82	4	1.54	0.34	37.31	125	14.39	2	1.33	0.11	51.34
59	14.03	4	1.54	0.34	61.36	126	13.64	3	1.40	0.23	72.05
60	15.15	4	1.77	0.23	42.44	127	8.98	3	1.40	0.23	65.27
61	15.12	4	1.54	0.19	60.39	128	15.74	3	1.40	0.23	1.68
62	12.47	4	1.74	0.14	81.16	129	15.62	2	1.34	0.11	40.24
63	13.19	4	1.74	0.14	75.06						
64	11.71	4	1.74	0.14	32.81						
65	13.07	4	1.74	0.14	82.40						
66	13.96	3	2.30	0.54	67.09						
67	15.38	3	2.30	0.54	37.18						
68	16.27	3	2.30	0.54	52.02						
69	15.35	3	2.30	0.54	53.83						
70	15.01	3	2.30	0.54	47.98						
71	12.95	2	1.57	0.12	52.19						
72	14.10	2	1.57	0.12	72.86						
73	14.13	2	1.57	0.12	61.70						
74	12.72	2	1.57	0.12	44.18						
75	12.08	2	1.76	0.43	72.49						
76	15.03	4	1.77	0.40	43.59						

Mean Dpar	=	1.85
Mean Dper	=	0.34
Mean length (um)	=	14.49+/- 0.14
Std. Dev. (um)	=	1.56
Skewness	=	-1.18
Kurtosis	=	2.36

950-43

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.64	4	1.66	0.14	36.75
2	15.69	4	1.66	0.14	36.77
3	15.27	3	1.65	0.15	49.19
4	14.88	3	1.65	0.15	37.80
5	17.79	3	1.65	0.15	13.38
6	13.37	3	1.65	0.15	62.59
7	13.52	4	1.77	0.19	77.69
8	13.81	4	1.77	0.19	26.80
9	14.63	4	1.77	0.19	43.78
10	14.57	4	1.77	0.23	34.87
11	13.39	4	1.77	0.23	31.58
12	14.14	4	1.92	0.43	58.03
13	11.41	4	1.92	0.43	71.00
14	14.32	4	1.92	0.43	35.55
15	15.21	4	1.92	0.43	42.26
16	13.14	4	1.92	0.43	74.24
17	14.97	4	1.92	0.43	50.91
18	14.18	3	1.66	0.14	57.36
19	14.25	3	1.66	0.14	56.72
20	13.93	3	1.66	0.14	44.10
21	15.54	4	1.78	0.45	68.80
22	15.77	4	1.78	0.45	37.54
23	12.20	4	1.78	0.45	47.58
24	14.38	4	1.78	0.45	36.66
25	10.51	3	2.27	0.87	67.07
26	13.42	4	2.31	0.73	36.69
27	14.54	4	2.31	0.73	59.80
28	14.99	4	2.31	0.73	83.08
29	14.13	4	2.31	0.73	48.21
30	15.49	4	2.31	0.73	32.69
31	13.65	4	2.31	0.73	57.17
32	14.54	4	2.31	0.73	56.93
33	15.64	4	2.31	0.73	32.52
34	13.85	4	2.31	0.73	53.01
35	15.69	4	2.52	0.72	11.81
36	14.31	4	2.52	0.72	54.87
37	13.36	4	1.52	0.05	62.32
38	15.00	4	1.52	0.05	50.04
39	10.82	4	1.88	0.35	58.90
40	15.33	4	1.88	0.35	48.55
41	13.83	4	2.37	0.76	61.81
42	14.96	4	2.37	0.76	27.80
43	13.77	4	2.37	0.76	30.32
44	13.49	3	1.38	0.23	74.68
45	14.37	4	1.96	0.18	39.47
46	10.33	4	1.96	0.18	54.09
47	16.28	4	2.66	0.81	45.86
48	14.26	4	2.66	0.81	49.68
49	11.61	3	2.26	0.30	79.52
50	13.60	3	2.26	0.30	58.54
51	15.87	3	2.26	0.30	69.64

Mean Dpar = 2.00
 Mean Dper = 0.43
Mean length (um) = 14.19 +/- 0.21
 Std. Dev. (um) = 1.46
 Skewness = -0.69
 Kurtosis = 0.87

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	11.43	4	2.40	0.56	47.75
2	16.90	2	2.25	0.76	19.69
3	15.95	4	2.38	0.91	25.84
4	14.34	4	2.38	0.91	26.81
5	10.79	4	2.27	0.51	50.01
6	16.01	4	3.01	1.04	50.17
7	13.95	4	3.01	1.04	50.06
8	11.27	4	3.01	1.04	79.01
9	14.98	3	1.58	0.42	43.60
10	11.58	3	1.58	0.42	89.51
11	13.30	4	2.34	0.63	77.55
12	11.12	3	2.74	0.56	85.55
13	17.12	3	1.93	1.45	43.54
14	16.04	3	1.93	1.45	50.75
15	14.03	2	2.24	0.52	61.73
16	10.34	4	2.19	0.71	50.60
17	12.17	2	1.76	0.59	41.64
18	15.37	4	2.48	0.77	39.63
19	14.17	4	2.48	0.77	74.69
20	11.96	3	2.57	1.00	80.74
21	14.25	3	2.57	1.00	79.16
22	15.50	3	2.57	1.00	39.73
23	17.06	4	2.06	0.81	55.34
24	16.40	4	2.06	0.81	54.16
25	15.76	4	2.06	0.81	82.07
26	16.73	4	2.54	1.01	43.69
27	11.66	4	2.54	1.01	53.35
28	13.68	4	2.54	1.01	88.75
29	16.34	4	2.54	1.01	41.36
30	12.94	3	2.54	0.73	66.89
31	15.03	2	2.46	0.91	28.84
32	14.14	2	2.46	0.91	83.52
33	14.16	4	2.30	0.78	35.73
34	13.88	4	2.30	0.78	43.69
35	14.90	4	2.96	1.05	69.55
36	15.71	4	2.96	1.05	32.96
37	16.13	3	1.97	0.61	61.88
38	15.12	3	1.97	0.61	50.63
39	9.27	3	2.50	0.99	52.43
40	9.78	3	2.50	0.99	43.71
41	15.49	3	2.50	0.99	27.06
42	15.04	3	1.58	0.19	11.27
43	11.67	3	1.58	0.19	51.81
44	12.61	3	2.71	0.86	56.43
45	13.39	3	2.81	0.58	52.31
46	15.43	3	2.81	0.58	36.13
47	15.24	3	2.81	0.58	47.59
48	10.87	4	2.23	0.75	50.31
49	12.89	4	2.46	0.65	75.15
50	12.95	2	1.77	0.34	81.05
51	12.44	3	2.92	0.62	76.73
52	13.95	3	2.92	0.62	60.17
53	12.26	3	2.92	0.62	75.25
54	12.12	3	2.92	0.62	76.04
55	12.07	3	2.92	0.62	43.14
56	12.36	3	2.92	0.62	67.36
57	16.35	4	2.14	0.54	50.51
58	13.36	3	1.66	0.19	85.67
59	16.35	2	1.39	0.28	25.91
60	16.71	3	2.71	0.40	35.05
61	12.20	3	2.71	0.40	49.74
62	13.55	3	2.71	0.40	54.91

950-44

63	15.24	4	2.20	0.56	18.74
64	15.54	4	2.20	0.56	35.06
65	13.97	2	2.12	0.43	26.81

Mean Dpar = 2.39
Mean Dper = 0.73
Mean length (um)= 13.93+/- 0.25
Std. Dev. (um)= 1.98
Skewness = -0.29
Kurtosis = -0.90

950-45

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.04	4	1.44	0.26	59.03
2	14.36	4	1.44	0.26	68.05
3	14.78	4	1.44	0.26	45.53
4	14.00	4	1.44	0.26	86.74
5	14.99	4	1.44	0.26	39.72
6	15.28	4	1.44	0.26	73.37
7	15.62	4	1.59	0.47	22.65
8	14.41	4	1.47	0.20	48.76
9	15.29	4	1.47	0.20	53.27
10	12.37	4	1.33	0.20	75.77
11	14.75	4	1.33	0.20	70.03
12	14.09	2	1.64	0.18	76.43
13	14.68	4	1.77	0.29	55.44
14	14.04	4	1.77	0.29	86.76
15	14.88	4	1.79	0.14	55.20
16	14.97	4	1.79	0.14	65.88
17	14.55	4	1.79	0.14	87.49
18	13.33	4	1.79	0.14	66.65
19	14.95	3	1.66	0.07	62.58
20	15.76	3	1.66	0.07	59.64
21	15.08	4	1.50	0.20	43.09
22	14.58	4	1.50	0.20	48.38
23	15.31	4	1.50	0.20	74.87
24	15.40	4	1.99	0.29	61.37
25	12.02	4	1.99	0.29	80.50
26	16.14	4	1.99	0.29	69.31
27	14.64	4	1.52	0.29	54.36
28	15.09	3	1.66	0.09	80.07
29	13.04	3	1.66	0.09	50.01
30	13.93	3	1.66	0.09	59.85
31	15.31	4	1.74	0.20	24.44
32	13.56	4	1.74	0.20	50.98
33	15.60	4	1.74	0.20	38.67
34	14.86	4	1.46	0.23	68.55
35	14.02	4	1.46	0.23	74.50
36	13.97	4	1.46	0.23	76.00
37	14.23	4	1.46	0.23	82.69
38	13.17	4	1.46	0.23	57.00
39	14.98	2	1.83	0.37	46.52
40	16.37	2	1.83	0.37	26.48
41	13.00	2	1.83	0.37	73.24
42	16.05	4	1.77	0.34	61.63
43	15.70	4	1.41	0.11	56.13
44	14.51	4	1.41	0.11	47.93
45	15.58	4	1.52	0.16	43.33
46	15.86	4	1.47	0.29	60.65
47	14.66	2	1.24	0.35	75.90
48	14.23	2	1.24	0.35	66.89
49	14.98	3	1.57	0.15	49.14

50	15.25	4	1.47	0.18	65.33
51	13.68	4	1.47	0.18	55.07
52	16.34	4	1.47	0.18	49.53
53	14.27	3	1.57	0.12	60.69
54	14.73	3	1.57	0.12	40.85
55	14.37	4	1.45	0.11	68.00
56	14.46	4	1.45	0.11	66.07
57	13.91	3	1.76	0.14	27.03
58	15.14	2	1.27	0.12	35.74
59	13.39	2	1.66	0.01	38.86
60	13.72	4	1.53	0.29	55.26
61	13.20	4	1.53	0.29	59.58
62	15.13	4	1.40	0.21	50.35
63	15.22	4	1.40	0.21	71.86
64	15.17	3	1.70	0.25	41.68
65	16.23	2	1.77	0.23	29.04
66	15.50	2	1.77	0.23	60.40
67	14.24	2	1.77	0.23	39.27
68	14.77	4	1.35	0.11	77.72
69	14.23	4	1.35	0.11	56.55
70	15.39	4	1.35	0.11	38.49
71	13.93	4	1.35	0.11	77.64
72	14.74	2	1.39	0.30	81.96
73	14.78	2	1.39	0.30	11.85
74	13.37	4	1.66	0.20	76.75
75	13.94	4	1.66	0.20	46.00
76	14.40	4	1.66	0.20	13.39
77	14.43	4	1.66	0.20	46.13
78	13.32	4	1.66	0.20	67.23
79	15.25	4	1.47	0.16	56.63
80	13.96	4	1.47	0.16	82.45
81	14.92	4	1.57	0.14	45.27
82	15.35	4	1.57	0.14	43.64
83	13.37	4	1.57	0.14	40.45
84	15.00	2	1.55	0.31	46.01
85	14.21	2	1.70	0.23	14.55
86	13.40	2	1.70	0.23	81.71
87	12.12	4	1.59	0.51	86.18
88	14.81	4	1.48	0.23	62.09
89	15.07	4	1.48	0.23	25.20
90	16.38	4	1.28	0.18	20.93
91	12.96	4	1.61	0.11	53.90
92	14.31	4	1.61	0.11	55.52
93	14.86	4	1.61	0.11	28.18
94	14.39	4	1.37	0.30	61.89
95	15.76	4	1.37	0.30	61.01
96	14.28	4	1.37	0.30	73.04
97	15.76	4	1.37	0.30	47.22
98	14.92	2	1.64	0.20	47.95
99	14.77	4	1.39	0.12	36.39
100	14.29	4	1.39	0.12	47.68
101	15.00	2	2.04	0.23	38.60
102	15.46	2	1.55	0.20	45.58
103	15.54	2	1.55	0.20	32.38
104	15.30	2	1.41	0.25	49.00
105	14.72	3	1.47	0.26	47.15
106	14.43	3	1.47	0.26	54.87
107	13.63	3	1.47	0.26	55.52
108	16.52	3	1.47	0.26	32.02
109	14.07	3	1.47	0.26	74.12
110	14.34	3	1.47	0.26	51.85
111	15.23	3	1.55	0.35	76.89
112	15.25	3	1.55	0.35	39.63
113	15.99	4	1.59	0.19	63.32
114	16.62	4	1.59	0.19	26.66
115	15.70	4	1.59	0.19	53.28
116	14.27	3	1.43	0.20	57.62

117	15.39	2	1.34	0.20	69.74
118	14.98	2	1.34	0.20	65.49
119	14.64	2	1.68	0.11	30.40
120	15.75	2	1.47	0.16	36.88
121	15.20	4	1.72	0.12	65.11
122	14.49	4	1.72	0.12	65.98
123	14.53	4	1.72	0.12	37.13
124	15.26	1	0.24	1.97	56.28
125	14.89	2	1.73	0.09	56.11
126	15.21	2	1.73	0.09	63.00
127	14.64	2	1.73	0.09	35.33

Mean Dpar = 1.55
Mean Dper = 0.22
Mean length (um)= 14.70+/- 0.08
Std. Dev. (um)= 0.89
Skewness = -0.44
Kurtosis = 0.35

950-46

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.55	4	1.61	0.20	83.93
2	14.91	4	1.61	0.20	47.82
3	16.61	4	1.61	0.20	40.17
4	14.33	4	1.47	0.29	48.40
5	14.73	4	1.47	0.29	80.77
6	15.31	4	1.84	0.49	65.31
7	15.64	4	1.76	0.43	71.88
8	13.05	4	1.76	0.43	54.32
9	16.77	4	1.76	0.43	33.99
10	15.78	4	1.76	0.43	21.15
11	13.69	4	1.76	0.43	57.88
12	13.02	4	1.76	0.43	65.97
13	15.59	2	1.96	0.53	59.31
14	9.49	2	1.96	0.53	82.21
15	14.21	4	1.94	0.61	61.04
16	15.81	4	1.94	0.61	65.18
17	13.86	4	1.88	0.21	63.21
18	13.71	4	1.88	0.21	65.98
19	16.20	4	1.88	0.21	42.25
20	16.33	4	1.88	0.21	25.92
21	15.49	4	1.57	0.31	84.52
22	14.79	4	1.57	0.31	47.32
23	14.65	4	1.72	0.19	73.68
24	15.89	3	1.94	0.67	5.80
25	15.00	2	1.39	0.43	76.70
26	15.23	4	1.97	0.53	79.67
27	14.86	4	1.97	0.53	32.25
28	16.47	3	1.64	0.16	32.12
29	14.72	3	1.64	0.16	28.08
30	14.68	4	0.07	1.15	61.82
31	12.39	4	0.07	1.15	63.61

Mean Dpar = 1.65
Mean Dper = 0.42
Mean length (um)= 14.77+/- 0.27
Std. Dev. (um)= 1.46
Skewness = -1.48
Kurtosis = 3.26

950-47

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.57	4	1.33	0.28	61.09
2	12.10	3	3.27	0.47	42.76
3	13.25	3	1.54	0.33	58.94
4	14.42	4	1.20	0.20	45.74
5	14.32	4	1.21	0.11	47.06
6	13.84	2	1.41	0.09	66.73
7	15.02	3	1.50	0.10	66.22
8	11.67	3	2.08	0.21	40.50
9	13.33	3	2.08	0.21	61.27
10	15.44	3	2.08	0.21	69.91
11	14.65	2	1.54	0.18	53.35
12	15.15	3	1.34	0.16	46.49
13	14.79	3	1.34	0.16	30.82
14	15.05	4	2.10	0.43	85.81
15	15.96	4	2.10	0.43	10.89
16	13.63	2	1.76	0.24	62.99
17	16.91	3	1.45	0.18	27.25
18	16.20	3	1.45	0.18	38.93
19	14.16	3	1.45	0.18	35.31
20	14.91	2	1.70	0.09	70.18
21	14.68	4	1.59	0.70	81.45
22	14.69	4	1.59	0.70	62.25
23	13.70	3	1.90	0.43	67.58
24	16.53	3	1.90	0.43	79.29
25	15.09	2	1.24	0.18	72.76
26	15.41	3	1.44	0.23	31.19
27	14.33	3	1.48	0.19	57.07
28	13.04	3	2.30	0.92	50.15
29	14.54	3	1.44	0.20	50.98
30	15.61	3	1.44	0.20	14.12
31	15.15	3	1.61	0.18	16.06
32	14.55	3	1.61	0.18	34.53
33	15.01	2	1.10	0.12	44.59
34	13.68	3	1.63	0.12	53.28
35	13.67	4	1.19	0.12	74.68
36	14.92	4	1.19	0.12	30.61
37	13.74	4	1.31	0.20	39.16
38	15.12	4	1.44	0.16	48.72
39	15.25	3	1.37	0.24	38.30
40	13.34	3	1.47	0.16	53.57
41	16.32	2	1.33	0.20	31.10
42	14.96	2	1.59	0.18	32.44
43	14.45	2	1.33	0.21	62.06
44	15.17	2	1.33	0.21	43.09
45	13.09	4	1.61	0.15	63.09
46	13.65	2	1.35	0.21	80.65
47	15.18	2	1.27	0.19	63.02
48	15.26	2	1.27	0.33	80.11
49	15.25	4	1.37	0.33	63.98
50	14.52	4	1.37	0.33	80.18
51	13.34	3	1.37	0.09	65.81
52	12.73	2	2.47	0.18	54.95
53	15.22	2	2.47	0.18	46.00
54	14.05	4	1.70	0.20	68.61
55	13.79	3	1.40	0.02	78.77
56	14.20	3	1.40	0.02	69.71
57	14.72	2	1.44	0.23	72.28
58	13.44	2	1.44	0.23	53.42
59	11.32	3	1.35	0.11	74.18
60	15.16	4	1.59	0.39	89.63
61	14.04	4	1.59	0.39	80.42
62	12.75	4	1.59	0.39	64.85
63	11.35	4	1.59	0.39	78.81
64	14.86	4	1.59	0.39	71.27

65	16.04	4	1.21	0.11	67.81	3	14.37	4	1.71	0.28	78.42
66	15.47	2	1.20	0.20	54.56	4	15.20	3	1.65	0.16	30.74
67	16.08	2	1.11	-0.07	28.63	5	16.63	4	1.73	0.33	58.61
68	15.32	2	1.11	-0.07	48.58	6	15.96	4	1.73	0.33	30.78
69	15.14	2	1.11	-0.07	48.61	7	16.07	3	2.00	0.29	40.37
70	14.58	2	1.11	-0.07	58.96	8	17.13	3	2.00	0.29	32.06
71	16.28	3	1.34	0.21	41.36	9	14.81	3	2.00	0.29	35.33
72	14.96	3	1.47	0.10	56.89	10	12.49	2	1.72	0.52	83.75
73	13.96	2	2.06	0.16	58.60	11	14.44	2	1.72	0.52	71.53
74	15.72	2	2.06	0.16	27.65	12	12.45	2	1.72	0.52	76.12
75	15.39	4	1.10	0.25	35.24	13	15.19	4	1.41	0.23	52.25
76	14.06	4	1.65	0.12	29.74	14	16.65	4	1.41	0.23	43.63
77	11.09	4	1.72	0.16	44.41	15	15.95	4	1.91	0.15	26.34
78	16.35	2	1.59	0.16	62.89	16	13.98	4	1.91	0.15	78.12
79	13.70	3	1.39	0.20	55.98	17	15.18	4	1.91	0.15	25.28
80	15.13	3	1.39	0.20	69.67	18	15.13	4	1.91	0.15	28.77
81	14.03	2	1.33	0.35	51.37	19	14.66	4	2.10	0.31	70.01
82	13.71	4	2.48	1.17	51.69	20	13.68	4	1.67	0.29	24.33
83	14.48	2	1.48	0.30	64.21	21	16.58	4	1.67	0.29	11.49
84	13.22	4	1.15	0.24	56.88	22	16.23	4	1.67	0.29	40.69
85	13.66	3	1.38	0.16	47.24	23	16.93	4	1.67	0.29	75.57
86	15.86	3	1.38	0.16	83.22	24	13.89	4	1.65	0.24	52.00
87	15.26	3	1.45	0.20	7.36	25	14.92	4	1.65	0.24	20.06
88	13.37	3	1.45	0.20	48.48	26	16.47	4	2.23	0.15	34.06
89	14.83	3	1.45	0.20	36.94	27	11.87	4	2.23	0.15	45.96
90	16.36	3	1.83	0.44	24.76	28	14.22	4	1.67	0.26	56.89
91	13.64	3	1.81	0.35	61.22	29	12.37	4	1.67	0.26	72.34
92	14.79	3	1.81	0.35	67.35	30	15.02	4	1.87	0.18	60.72
93	13.27	3	1.45	0.10	62.08	31	14.71	4	1.87	0.18	51.20
94	13.10	3	1.61	0.15	71.08	32	13.92	4	1.87	0.18	82.31
95	15.20	3	1.72	0.26	69.84	33	14.52	4	1.87	0.18	44.10
96	9.78	4	1.50	0.24	48.19	34	16.83	4	1.87	0.18	44.20
97	14.70	2	1.72	0.24	77.38	35	15.70	4	1.87	0.18	28.55
98	15.35	3	1.50	0.11	33.18	36	11.62	4	1.87	0.18	49.58
99	16.37	4	1.78	0.14	46.64	37	12.80	4	1.87	0.18	48.97
100	14.83	4	1.78	0.14	49.50	38	14.63	4	1.87	0.18	76.98
101	15.97	4	1.43	0.15	48.47	39	15.83	4	1.80	0.18	36.51
102	15.43	4	1.43	0.15	88.18	40	15.50	4	1.80	0.18	50.83
103	14.80	4	1.78	0.29	78.66	41	12.55	4	1.80	0.18	69.68
104	15.84	4	1.27	0.20	61.80	42	14.74	4	1.35	0.15	51.74
105	14.65	4	1.72	0.06	67.86	43	14.47	4	1.35	0.15	52.70
106	14.51	3	1.32	0.28	72.85	44	13.37	3	1.83	0.42	39.70
107	14.64	3	1.64	0.09	71.04	45	16.88	3	1.83	0.42	41.63
108	14.76	3	1.64	0.09	28.78	46	16.45	4	1.60	0.28	51.25
109	11.30	3	1.44	0.19	54.98	47	14.93	4	1.81	0.15	52.86
110	11.73	3	1.44	0.19	76.32	48	16.54	4	1.94	0.19	54.90
111	14.07	2	1.34	0.10	56.17	49	16.36	4	1.94	0.19	38.60
112	15.03	2	1.47	0.47	52.54	50	15.47	4	1.59	0.10	57.21
113	14.79	2	1.70	0.14	62.12	51	14.06	4	1.59	0.10	60.65
114	12.95	3	1.57	0.10	39.23	52	15.86	4	1.59	0.10	36.63
115	16.44	2	1.43	0.31	49.72	53	15.53	4	1.59	0.10	15.22
						54	14.81	4	1.59	0.10	52.50
						55	14.58	4	1.85	0.15	64.31
						56	14.38	4	1.85	0.15	68.76
						57	15.10	3	1.63	0.35	79.18
						58	15.37	3	1.63	0.35	16.39
						59	14.97	3	1.63	0.35	42.80
						60	15.07	3	1.63	0.35	31.77
						61	14.75	4	2.03	0.31	55.58
						62	14.65	4	1.76	0.14	80.29
						63	15.25	4	1.76	0.14	72.10
						64	13.55	4	1.76	0.14	62.19
						65	15.36	4	1.76	0.14	80.64
						66	14.79	4	1.92	0.45	41.04
						67	16.72	4	1.92	0.45	71.93
						68	14.63	4	1.92	0.45	88.04
						69	16.83	4	1.92	0.45	38.93

Mean Dpar = 1.55
 Mean Dper = 0.22
Mean length (um)= 14.45+/- 0.12
 Std. Dev. (um)= 1.27
 Skewness = -0.92
 Kurtosis = 1.22

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Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dper (microns)	Angle to c-axis (degrees)
1	15.21	4	1.71	0.28	66.10
2	15.70	4	1.71	0.28	55.18

						Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
70	16.71	2	0.01	1.75	54.22						
71	17.45	3	1.90	0.37	46.40						
72	14.05	4	1.76	0.26	76.35						
73	14.27	4	1.76	0.26	73.16	1	15.82	4	1.79	0.30	65.22
74	13.05	4	1.76	0.26	46.89	2	14.52	4	1.79	0.30	86.11
75	15.38	4	1.76	0.26	63.63	3	14.36	4	1.76	0.09	44.21
76	14.08	4	1.76	0.26	48.20	4	15.46	4	1.76	0.09	68.74
77	15.69	4	1.47	0.14	44.11	5	15.27	4	1.71	0.24	62.97
78	14.67	4	1.47	0.14	58.12	6	16.02	4	1.71	0.24	49.80
79	14.41	4	1.47	0.14	47.37	7	16.95	4	1.71	0.24	14.66
80	15.90	4	1.94	0.21	61.56	8	14.54	4	1.78	0.16	53.38
81	14.25	4	1.94	0.21	41.81	9	15.37	4	2.07	0.57	55.79
82	15.01	4	1.79	0.19	57.02	10	14.92	4	2.07	0.57	48.83
83	17.25	4	1.79	0.19	73.72	11	12.82	4	2.07	0.57	55.69
84	14.51	4	1.79	0.19	64.66	12	16.06	2	2.07	0.38	49.81
85	15.93	4	1.70	0.18	66.76	13	15.30	2	1.19	0.24	43.52
86	15.18	4	1.70	0.18	29.99	14	14.61	2	1.19	0.24	58.34
87	14.52	4	1.70	0.18	85.12	15	14.75	3	1.58	0.29	64.66
88	15.50	4	1.70	0.18	23.96	16	15.99	3	1.58	0.29	13.98
89	14.64	4	1.70	0.18	67.23	17	10.42	4	1.99	0.16	54.95
90	15.13	4	1.70	0.18	33.62	18	15.07	2	1.44	0.29	58.68
91	16.44	4	1.67	0.23	41.13	19	13.90	2	1.44	0.29	41.90
92	14.69	4	2.07	0.37	65.66	20	14.00	4	1.53	0.24	40.55
93	15.50	4	2.07	0.37	72.73	21	12.42	4	1.60	0.12	68.16
94	16.48	4	1.40	0.30	42.60	22	15.03	4	1.60	0.12	32.90
95	13.47	4	1.40	0.30	51.17	23	14.15	4	1.60	0.12	47.12
96	16.04	4	1.54	0.16	46.41	24	15.18	4	1.60	0.12	38.51
97	13.39	4	1.66	0.15	40.81	25	14.78	4	2.03	0.40	74.57
98	14.91	4	1.66	0.15	41.43	26	14.34	4	2.03	0.40	38.34
99	15.84	4	1.66	0.15	42.52	27	14.97	4	2.03	0.40	80.65
100	14.14	4	1.66	0.15	76.91	28	15.28	4	2.03	0.40	64.30
101	14.85	4	1.66	0.15	43.53	29	13.96	4	2.03	0.40	51.38
102	11.71	2	1.86	0.12	85.18	30	12.96	2	2.45	0.52	71.65
103	15.36	4	1.68	0.26	60.18	31	14.48	2	2.45	0.52	58.39
104	14.75	4	1.68	0.26	61.78	32	14.33	2	1.76	0.57	71.42
105	13.84	4	1.57	0.20	71.52	33	13.93	2	1.76	0.57	46.21
106	14.97	3	1.79	0.34	88.20	34	16.05	4	1.74	0.25	33.40
107	11.76	4	1.88	0.40	77.22	35	14.47	4	1.74	0.25	69.31
108	13.20	4	1.88	0.40	61.25	36	15.30	4	1.74	0.25	49.43
109	14.23	4	1.88	0.40	28.84	37	15.67	4	1.74	0.25	45.07
110	15.22	4	1.52	0.18	37.28	38	14.53	4	1.74	0.25	89.11
111	13.71	3	1.70	0.35	53.84	39	14.52	4	1.74	0.25	50.68
112	15.51	4	1.84	0.14	55.86	40	11.58	4	1.74	0.25	72.79
113	13.47	4	1.84	0.14	41.28	41	15.76	4	1.85	0.19	71.41
114	15.11	4	1.84	0.14	38.86	42	15.63	4	1.85	0.19	43.77
115	15.79	4	1.27	0.38	60.74	43	13.84	4	1.77	0.25	62.38
116	15.67	4	1.27	0.38	21.90	44	14.25	4	1.77	0.25	63.51
117	14.13	4	1.81	0.21	73.30	45	14.76	4	1.73	0.54	67.52
118	15.10	4	1.81	0.21	26.57	46	13.74	4	1.73	0.54	56.55
119	12.43	4	1.81	0.21	71.90	47	15.12	4	1.73	0.54	46.68
120	14.74	4	1.81	0.21	41.19	48	13.98	4	1.73	0.54	86.37
121	15.28	4	1.93	0.14	86.62	49	13.60	4	1.73	0.54	81.24
122	14.48	4	1.93	0.14	41.54	50	15.26	4	1.73	0.54	50.16
123	16.26	3	1.52	0.20	58.80	51	14.00	4	2.23	0.48	78.75
124	12.17	3	1.52	0.20	74.16	52	15.80	4	2.23	0.48	36.59
125	14.83	4	1.33	0.20	86.92	53	13.89	4	2.23	0.48	73.51
						54	15.63	4	2.23	0.48	43.09
						55	14.64	4	2.17	0.49	76.68
						56	12.77	4	2.17	0.49	64.84
						57	15.55	4	2.17	0.49	72.77
						58	14.44	4	2.17	0.49	66.99
						59	15.91	4	2.17	0.49	21.10
						60	15.72	4	1.52	0.18	59.09
						61	15.90	4	2.05	0.20	45.93
						62	14.95	4	1.39	0.28	56.99
						63	14.73	4	1.39	0.28	70.37
						64	14.38	4	1.39	0.28	39.50
Mean Dpar = 1.73											
Mean Dper = 0.25											
Mean length (um)= 14.88+/- 0.11											
Std. Dev. (um)= 1.26											
Skewness = -0.47											
Kurtosis = 0.08											

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65	16.10	4	1.39	0.28	25.14
66	13.48	4	1.39	0.28	73.21
67	15.26	4	1.67	0.28	71.62
68	14.39	4	1.67	0.28	56.17
69	14.58	4	1.67	0.28	81.45
70	14.67	4	1.67	0.28	50.73
71	16.01	4	1.67	0.28	54.19
72	14.75	4	1.67	0.28	43.78
73	15.17	4	1.90	0.21	65.29
74	13.69	3	2.11	0.53	65.67
75	14.21	3	2.11	0.53	78.00
76	12.65	3	2.03	0.43	67.21
77	17.09	3	2.03	0.43	26.01
78	13.31	4	1.98	0.43	47.35
79	14.22	4	1.98	0.43	71.72
80	14.79	4	1.98	0.43	63.41
81	14.11	4	1.98	0.43	41.49
82	13.83	4	1.98	0.43	53.72
83	16.19	4	1.98	0.43	47.50
84	14.34	2	1.73	0.35	56.81
85	14.53	4	1.76	0.09	81.78
86	13.79	4	1.84	0.31	56.85
87	14.76	4	1.81	0.47	70.31
88	16.26	4	1.81	0.47	34.79
89	15.01	4	1.81	0.47	41.12
90	16.02	4	1.45	0.19	55.09
91	14.72	4	1.45	0.19	59.45
92	15.17	2	1.51	0.31	72.89
93	16.45	2	1.51	0.31	32.86
94	15.11	2	1.51	0.31	42.59
95	14.53	2	1.51	0.31	54.10
96	14.37	4	1.44	0.10	60.56
97	13.53	4	1.44	0.10	51.38
98	14.44	4	1.44	0.10	51.64
99	15.44	2	1.84	0.35	32.42
100	14.73	4	1.68	0.11	36.80
101	15.56	4	1.68	0.11	46.24
102	16.49	3	1.73	0.38	33.69
103	15.38	3	1.73	0.38	64.64
104	15.42	2	1.48	0.26	62.30
105	15.31	2	1.48	0.26	54.04
106	14.92	2	1.48	0.26	49.58
107	14.87	4	1.77	0.26	70.67
108	14.69	3	2.03	0.18	45.31
109	15.82	3	1.80	0.30	31.14
110	14.89	3	1.80	0.30	71.84
111	15.09	3	1.80	0.30	41.11
112	14.23	3	1.80	0.30	59.45
113	16.39	4	1.66	0.09	27.37
114	13.88	3	1.61	0.18	64.23
115	16.62	3	1.61	0.18	17.73
116	14.91	2	1.68	0.39	66.24
117	11.69	2	1.68	0.39	65.00
118	17.11	4	1.85	0.45	57.92
119	15.15	4	2.23	0.51	57.29
120	15.61	2	1.87	0.10	57.26
121	14.24	2	1.87	0.10	60.62
122	15.48	3	1.99	0.28	60.22
123	14.94	4	1.94	0.38	44.73
124	15.76	4	1.94	0.38	15.37
125	14.52	4	1.94	0.38	50.38

Mean Dpar = 1.79
 Mean Dper = 0.32
Mean length (um)= 14.79+/- 0.10
 Std. Dev. (um)= 1.07
 Skewness = -0.81

Kurtosis = 2.03

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Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	13.37	4	3.34	0.77	75.49
2	13.52	4	3.34	0.77	84.46
3	15.58	4	3.34	0.77	31.08
4	14.41	4	2.51	1.26	80.93
5	16.40	2	3.24	0.75	44.18
6	14.76	3	3.14	0.95	59.28
7	15.39	3	3.26	1.27	24.31
8	13.24	2	1.85	0.52	48.32
9	17.66	4	3.37	0.87	19.14
10	16.97	4	3.37	0.87	53.83
11	12.74	4	2.97	0.72	31.21
12	15.57	4	2.61	0.99	65.37
13	16.22	4	3.19	0.85	42.96
14	16.36	4	3.19	0.85	40.81
15	16.36	4	2.80	0.99	21.55
16	15.09	4	2.80	0.99	48.16
17	10.72	4	2.84	1.05	80.59
18	16.28	4	2.84	1.05	5.17
19	15.50	4	2.78	1.41	61.80
20	15.95	4	3.66	0.75	23.01
21	17.06	3	1.97	0.92	41.35
22	17.12	2	2.58	0.54	44.44
23	16.26	4	3.54	0.67	35.68
24	15.36	4	2.64	1.01	35.66
25	15.86	3	1.50	0.62	72.02
26	16.37	4	3.29	1.70	53.50
27	15.58	4	2.43	1.17	54.70
28	14.18	4	2.83	0.81	58.18
29	14.74	2	2.83	0.87	50.19
30	15.45	2	2.92	1.05	55.17
31	16.46	4	2.67	0.99	27.18
32	14.96	4	3.38	0.77	81.84
33	12.88	4	3.05	1.41	54.03
34	15.09	4	2.76	0.61	64.24
35	11.30	4	2.76	0.61	67.96
36	14.55	2	2.16	0.61	73.81
37	15.08	4	3.17	0.48	17.56
38	15.68	4	2.72	1.04	60.92
39	14.87	4	2.72	1.04	31.95
40	15.84	4	2.86	0.49	40.98
41	15.89	4	2.86	0.49	28.24
42	17.26	3	2.87	1.15	34.76
43	17.61	3	2.87	1.15	10.30
44	14.51	4	2.87	0.61	38.02
45	16.16	4	2.58	1.01	42.55
46	15.90	4	2.94	0.61	64.66
47	17.14	4	2.94	0.61	28.57
48	15.76	4	2.94	0.61	16.60
49	16.24	2	2.54	1.12	46.33
50	17.06	4	2.67	0.76	39.08
51	15.81	4	2.41	0.98	89.01
52	14.91	4	2.92	0.98	50.95
53	15.14	4	2.92	0.98	42.77
54	16.85	4	2.73	1.29	75.33
55	15.23	4	2.73	1.29	33.67
56	15.22	2	2.68	0.78	60.59
57	15.94	3	2.81	0.75	47.22
58	15.18	4	3.60	0.89	69.79
59	15.61	4	3.14	0.53	78.86

60	15.29	4	3.14	0.53	22.42
61	15.37	4	2.98	1.29	60.26
62	16.42	1	2.21	0.72	16.27
63	16.87	3	3.04	0.54	53.71
64	15.32	4	2.70	0.85	46.00
65	15.23	4	2.70	0.85	71.95
66	17.28	3	2.83	0.75	43.87
67	14.54	4	2.86	0.99	66.58
68	16.36	4	2.86	0.99	38.70
69	13.59	4	2.86	0.99	51.50
70	14.07	4	2.86	0.99	35.33
71	15.50	3	3.03	0.53	48.29
72	14.62	4	2.54	0.87	52.37
73	14.58	4	2.54	0.87	32.31
74	14.59	4	2.54	0.87	89.26
75	14.75	2	2.26	0.40	55.38
76	14.11	3	3.10	0.33	39.32
77	12.76	3	3.10	0.33	78.00
78	16.29	3	3.10	0.33	41.95
79	14.34	3	3.10	0.33	43.14
80	12.99	4	2.63	0.58	71.64
81	8.24	4	2.63	0.58	86.75
82	14.05	4	2.92	1.06	72.04
83	15.80	4	2.48	0.89	62.83
84	12.14	4	2.48	0.89	70.31
85	14.99	4	2.48	0.89	20.55
86	12.86	3	2.44	1.18	66.12
87	15.77	4	2.44	0.63	45.87
88	14.65	4	2.44	0.63	58.62
89	14.66	4	2.50	0.91	51.63
90	15.04	4	2.50	0.91	35.43
91	16.77	4	2.50	0.91	38.88
92	15.80	4	3.52	0.66	53.24
93	13.40	2	3.07	1.15	85.98
94	13.52	3	2.79	1.14	53.44
95	15.99	4	2.81	0.81	46.00
96	15.76	4	2.81	0.81	22.67
97	13.53	4	2.74	0.95	57.81
98	16.16	2	2.43	0.37	24.99
99	14.40	4	2.91	1.00	62.41
100	15.04	4	2.91	1.00	20.47
101	17.66	4	2.74	0.48	22.09
102	15.03	4	2.74	0.48	20.25
103	17.60	4	3.21	0.91	17.13
104	15.56	4	3.05	0.62	27.65
105	15.18	4	3.05	0.62	28.37
106	13.40	4	2.65	0.98	47.44
107	14.13	4	3.26	0.68	58.84
108	15.91	4	2.05	0.42	47.71
109	16.59	4	2.54	0.96	12.25
110	14.88	3	3.39	1.06	66.07
111	14.91	4	3.06	0.51	71.71
112	14.76	4	2.37	1.01	64.30
113	13.86	3	2.94	1.17	83.04
114	12.91	4	2.78	0.94	75.20
115	15.41	4	2.78	0.94	58.87
116	15.88	4	2.48	1.04	53.73
117	14.46	4	2.48	1.04	88.73
118	15.26	4	2.48	1.04	77.18
119	14.76	4	2.48	1.04	38.81
120	15.18	4	2.58	1.10	60.31
121	14.03	4	2.58	1.10	54.02
122	15.09	4	2.91	0.89	52.37
123	13.86	4	2.64	0.49	49.58
124	14.69	4	2.64	0.49	43.85
125	13.43	4	2.64	0.49	61.83

Mean Dpar	=	2.80
Mean Dper	=	0.84
Mean length (um)	=	15.10+/- 0.13
Std. Dev. (um)	=	1.44
Skewness	=	-1.18
Kurtosis	=	3.50

950-51

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	16.62	4	0.31	1.41	32.91
2	12.54	4	2.24	0.71	69.19
3	13.47	4	2.24	0.71	73.90
4	14.57	4	2.24	0.71	69.11
5	16.63	4	2.24	0.71	32.37
6	14.32	3	2.00	0.33	72.01
7	12.96	3	2.00	0.33	71.74
8	15.97	3	2.00	0.33	52.93
9	14.42	4	1.53	0.30	77.37
10	15.59	4	1.53	0.30	35.42
11	15.39	4	1.53	0.30	41.89
12	15.78	4	1.53	0.30	40.20
13	14.66	2	1.88	0.38	58.03
14	15.80	3	1.71	0.33	57.95
15	14.24	3	1.71	0.33	36.26
16	18.77	3	1.71	0.33	3.53
17	13.88	3	1.98	0.38	66.40
18	15.36	3	1.98	0.38	48.51
19	14.46	3	1.98	0.38	62.36
20	14.24	4	1.93	0.31	76.14
21	16.18	4	1.93	0.31	83.81
22	14.32	3	1.97	0.21	75.02
23	14.38	3	1.97	0.21	82.85
24	13.60	3	1.97	0.21	68.38
25	16.80	2	1.80	0.19	33.03
26	14.16	2	1.80	0.19	24.16
27	15.02	2	2.06	0.42	7.53
28	12.68	2	2.06	0.42	51.19
29	13.05	2	2.06	0.42	49.66
30	15.28	2	2.06	0.42	46.19
31	14.47	2	2.06	0.42	65.29
32	15.48	3	1.94	0.31	25.94
33	15.05	3	1.94	0.31	50.64
34	13.88	3	1.94	0.31	81.10
35	15.60	3	1.94	0.31	84.41
36	16.08	3	1.94	0.31	67.04
37	15.31	4	1.85	0.38	61.19
38	17.35	4	1.85	0.38	47.88
39	15.82	4	1.97	0.51	40.68
40	15.07	4	1.97	0.51	33.64
41	15.47	4	1.59	0.34	87.13
42	15.68	4	1.59	0.34	61.56
43	15.77	4	1.59	0.34	76.21
44	14.57	4	1.99	0.19	64.37
45	15.60	4	1.99	0.19	42.60
46	12.62	4	1.99	0.19	72.65
47	15.90	4	1.99	0.19	33.98
48	15.69	4	1.99	0.19	24.31
49	13.44	2	1.94	0.40	76.53
50	14.54	2	1.94	0.40	47.91
51	15.87	2	1.94	0.40	17.39
52	14.78	2	1.94	0.40	66.53
53	12.75	2	1.94	0.40	60.50
54	14.63	2	1.94	0.40	80.62
55	15.39	2	1.94	0.40	66.00
56	16.05	3	2.10	0.20	17.16
57	13.54	3	2.10	0.20	67.35
58	14.18	3	2.10	0.20	50.02
59	12.32	3	2.10	0.20	59.76
60	11.40	3	2.10	0.20	88.73
61	13.73	3	2.10	0.20	40.01

62	15.15	3	2.10	0.20	23.90
63	12.61	3	2.10	0.20	80.06
64	14.85	3	2.10	0.20	50.12
65	11.49	3	2.10	0.20	61.99
66	14.72	4	2.07	0.21	34.86
67	14.38	4	2.07	0.21	32.58
68	14.80	2	2.24	0.24	35.93
69	13.63	4	1.65	0.30	55.13
70	15.21	2	1.96	0.45	62.65
71	13.97	2	1.96	0.45	45.80
72	13.71	4	1.90	0.37	85.37
73	14.79	3	2.05	0.28	47.83
74	16.24	3	2.05	0.28	60.67
75	14.61	2	1.94	0.11	51.17
76	15.46	3	2.17	0.21	69.25
77	10.44	3	2.17	0.21	52.77
78	16.88	3	2.17	0.21	15.61
79	14.19	2	1.28	0.12	55.54
80	13.82	2	1.28	0.12	65.59
81	16.47	4	1.80	0.31	35.92
82	15.05	4	1.80	0.31	76.27
83	14.65	4	1.80	0.31	53.51
84	16.27	4	1.81	0.11	61.87
85	14.95	4	1.81	0.11	24.82
86	15.74	4	1.61	0.16	38.51
87	14.46	4	1.61	0.16	61.74
88	14.99	4	1.61	0.16	34.39
89	16.04	3	1.78	0.28	73.87
90	16.72	4	1.87	0.12	59.42
91	13.43	4	1.87	0.12	64.92
92	13.28	4	1.87	0.12	85.75
93	14.29	4	1.87	0.12	72.24
94	16.73	4	1.87	0.12	39.95
95	15.98	2	1.87	0.26	47.77
96	14.73	4	1.76	0.12	70.79
97	14.22	4	1.76	0.12	53.46
98	15.19	4	1.70	0.26	58.56
99	14.21	4	1.70	0.26	70.18
100	14.91	4	2.00	0.52	41.23
101	13.71	4	2.00	0.52	65.49
102	15.45	4	2.00	0.52	45.19
103	15.95	4	1.88	0.28	24.28
104	15.12	4	1.88	0.28	17.14
105	14.14	4	1.52	0.18	62.62
106	15.05	4	1.52	0.18	38.30
107	15.66	4	1.92	0.19	46.57
108	11.69	4	1.92	0.19	51.97
109	15.86	3	1.70	0.52	48.71
110	16.26	4	1.93	0.21	50.33
111	16.71	4	1.93	0.21	46.03
112	14.48	4	2.14	0.05	81.30
113	15.76	4	1.91	0.16	63.44
114	14.51	4	1.91	0.16	66.14
115	15.72	4	1.91	0.16	36.35
116	13.90	4	1.91	0.16	37.97
117	15.31	4	1.91	0.16	60.36
118	16.54	4	1.59	0.40	43.28
119	14.44	4	1.59	0.40	54.39
120	14.78	4	1.90	0.52	49.16
121	13.73	4	1.90	0.52	68.48
122	15.16	4	1.90	0.52	79.74
123	15.51	4	1.90	0.52	40.80
124	15.59	4	1.74	0.38	34.94
125	15.22	4	1.74	0.38	8.71

Mean Dpar = 1.88
Mean Dper = 0.31

Mean length (um)= 14.82+/- 0.12
 Std. Dev. (um)= 1.28
 Skewness = -0.48
 Kurtosis = 1.03

950-52

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	13.13	4	1.50	0.11	67.39
2	14.02	4	1.50	0.11	48.60
3	13.59	4	1.50	0.11	73.05
4	15.17	4	1.50	0.11	71.56
5	13.80	3	1.50	0.15	86.37
6	15.73	3	1.50	0.15	40.72
7	12.44	4	1.35	0.18	35.13
8	13.92	4	1.35	0.18	80.31
9	11.89	4	1.35	0.18	62.16
10	14.71	4	1.54	0.20	67.68
11	13.82	4	1.54	0.20	54.26
12	14.61	4	1.66	0.11	77.32
13	14.24	4	1.66	0.11	36.38
14	15.33	4	1.66	0.11	77.70
15	14.81	4	1.66	0.11	61.40
16	12.45	4	1.66	0.11	15.15
17	14.73	4	1.66	0.11	61.75
18	14.64	3	1.50	0.24	32.14
19	12.91	3	1.60	0.16	48.20
20	14.49	2	1.55	0.24	40.32
21	15.49	2	1.55	0.24	26.44
22	14.71	4	1.54	0.04	54.41
23	13.30	3	1.53	0.20	65.22
24	9.79	3	1.53	0.20	63.60
25	14.50	3	1.53	0.20	45.72
26	15.26	1	1.57	0.04	43.82
27	14.76	3	1.46	0.28	53.37
28	11.96	3	1.46	0.28	67.78
29	13.26	4	1.57	0.05	62.24
30	15.37	4	1.57	0.05	66.52
31	14.50	3	1.47	0.21	70.74
32	13.73	2	1.52	0.18	65.13
33	13.65	4	1.38	0.18	55.45
34	13.55	4	1.38	0.18	57.63
35	13.81	3	1.59	0.28	80.48
36	14.89	3	1.59	0.28	50.05
37	14.47	3	1.32	0.31	75.96
38	14.62	4	1.27	0.14	56.40
39	14.09	4	1.27	0.14	80.65
40	13.22	4	1.27	0.14	68.49
41	14.01	4	1.27	0.14	62.89
42	13.37	4	1.45	0.16	59.41
43	13.86	4	1.40	0.20	68.25
44	13.54	4	1.40	0.20	51.81
45	14.15	4	1.40	0.20	47.05
46	12.41	4	1.40	0.20	72.71
47	13.91	4	1.40	0.20	49.33
48	15.55	2	1.60	0.16	18.59
49	14.45	4	1.63	0.12	32.30
50	13.77	3	1.52	0.04	50.50
51	13.91	3	1.52	0.04	81.59
52	11.74	3	1.52	0.04	45.01
53	14.34	3	1.54	0.23	57.90
54	13.75	4	1.18	0.05	53.88
55	14.63	4	1.59	0.14	49.23
56	14.13	3	1.28	0.11	68.69

57	10.81	3	1.59	0.15	88.40
58	13.35	3	1.59	0.15	32.43
59	14.30	3	1.59	0.15	22.20
60	11.55	3	1.59	0.15	67.94
61	13.52	3	1.59	0.15	53.90
62	13.94	3	1.59	0.15	56.20
63	14.94	3	1.59	0.15	37.64
64	13.21	3	1.59	0.15	51.52
65	13.71	3	1.59	0.15	49.65
66	12.55	3	1.59	0.15	58.57
67	15.33	3	1.59	0.15	29.38
68	13.87	3	1.39	0.12	51.56
69	14.25	3	1.39	0.12	40.82
70	14.68	3	1.41	0.23	42.72
71	13.79	3	1.41	0.23	73.83
72	13.79	4	1.23	0.20	46.75
73	13.13	4	1.23	0.20	73.36
74	15.31	3	1.25	0.14	24.02
75	13.68	4	1.48	0.14	34.59
76	14.18	3	1.59	0.15	68.22
77	15.27	3	1.59	0.15	49.27
78	11.77	2	1.45	0.10	89.05
79	16.14	4	1.41	0.06	49.54
80	15.39	3	1.41	0.18	80.27
81	15.83	3	1.41	0.18	43.65
82	14.74	4	1.45	0.14	52.01
83	16.35	4	1.28	0.18	32.18
84	14.68	4	1.28	0.18	6.11
85	14.22	4	1.28	0.18	55.63
86	14.46	4	1.28	0.18	82.37
87	14.01	4	1.28	0.18	30.15
88	14.64	4	1.28	0.18	60.13
89	12.28	4	1.28	0.18	89.71
90	14.18	4	1.28	0.18	40.31
91	14.94	4	1.28	0.18	40.86
92	13.48	4	1.28	0.18	71.92
93	16.98	4	1.43	0.21	21.29
94	15.21	4	1.43	0.21	63.85
95	13.55	4	1.43	0.21	78.62
96	12.97	4	1.43	0.21	51.53
97	14.87	4	1.43	0.21	60.38
98	14.70	4	1.54	0.09	53.49
99	14.24	4	1.54	0.09	62.22
100	12.97	4	1.54	0.09	49.62
101	14.38	4	1.35	0.20	64.47
102	15.44	4	1.54	0.15	31.53
103	13.07	3	1.38	0.21	84.64
104	15.07	3	1.38	0.21	38.86
105	13.79	3	1.38	0.21	69.73
106	14.57	3	1.20	0.24	52.54
107	14.31	2	1.37	0.19	61.11
108	14.56	2	1.37	0.19	73.40
109	14.37	2	1.37	0.19	61.49
110	14.09	2	1.37	0.19	44.98
111	12.68	3	1.28	0.05	84.66
112	14.78	4	1.43	0.14	55.57
113	12.86	4	1.43	0.14	47.88
114	12.27	4	1.44	0.26	88.89
115	14.17	4	1.44	0.26	64.54
116	14.08	4	1.44	0.26	87.19
117	15.26	4	1.44	0.26	32.29
118	11.64	4	1.34	0.25	80.29
119	12.44	4	1.40	0.10	52.31
120	13.64	4	1.40	0.10	31.22
121	13.17	4	1.40	0.10	73.50
122	15.43	4	1.57	0.24	79.22
123	15.31	4	1.63	0.15	30.14

124	13.93	4	1.63	0.15	36.29
125	13.44	4	1.63	0.15	72.81

Mean Dpar = 1.46
Mean Dper = 0.16
Mean length (um)= 14.01+/- 0.10
Std. Dev. (um)= 1.13
Skewness = -0.64
Kurtosis = 1.15

950-53

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	11.84	4	1.41	0.10	51.04
2	14.58	4	1.54	0.14	35.27
3	14.11	3	1.20	0.47	74.21
4	13.80	4	1.32	0.20	46.25
5	11.52	4	1.43	0.18	81.08
6	14.69	3	1.21	0.11	49.45
7	12.49	2	1.43	0.16	56.39
8	14.50	4	1.45	0.11	21.47
9	12.21	3	1.38	0.34	68.40
10	14.14	3	1.38	0.34	30.59
11	12.51	4	1.27	0.16	57.10
12	13.24	2	1.32	0.14	58.04
13	14.72	3	1.32	0.25	89.77
14	14.07	2	1.06	0.19	72.29
15	12.12	3	1.57	0.12	51.67
16	14.15	4	1.55	0.16	29.02
17	13.06	4	1.61	0.33	49.93
18	11.82	4	1.61	0.33	64.13
19	15.54	4	1.61	0.33	33.36
20	13.65	4	1.34	0.16	40.66
21	10.27	4	1.66	0.20	76.73
22	13.61	4	1.66	0.20	60.28
23	12.53	4	1.52	0.20	57.17
24	13.91	2	1.33	0.10	22.98
25	14.63	4	1.43	0.29	41.97
26	13.70	4	1.52	0.07	77.33
27	11.54	4	1.38	0.19	59.46
28	12.91	4	1.35	0.25	76.83
29	12.49	4	1.46	0.20	83.88
30	15.22	4	1.46	0.20	34.49
31	12.73	3	1.58	0.29	67.64
32	11.67	3	1.58	0.29	72.42
33	10.71	2	1.33	0.12	76.85
34	13.81	4	1.41	0.26	53.69
35	15.15	4	1.41	0.26	41.22
36	15.58	4	1.32	0.14	55.07
37	11.31	4	1.32	0.14	44.01
38	14.67	4	1.32	0.14	26.75
39	13.86	4	1.32	0.14	70.09
40	12.01	4	1.59	0.16	64.81
41	13.43	4	1.68	0.21	59.14
42	11.85	4	1.68	0.21	76.98
43	14.13	4	1.30	0.16	58.30
44	11.61	4	1.30	0.16	75.84
45	12.57	4	1.57	0.25	81.46
46	15.22	4	1.34	0.15	10.79
47	13.39	2	1.55	0.31	71.74
48	13.28	4	1.50	0.16	37.30
49	14.06	3	1.72	0.04	44.58
50	13.46	3	1.46	0.06	36.41
51	14.73	4	1.18	0.15	70.19

52	10.50	4	1.43	0.16	83.08
53	7.88	4	1.50	0.14	68.88
54	11.19	3	1.24	0.19	79.31
55	14.25	4	1.45	0.14	64.26
56	13.31	4	1.72	0.23	71.09
57	16.01	4	1.51	0.18	63.79
58	14.52	4	1.51	0.18	71.56
59	12.32	4	1.50	0.16	61.43
60	11.81	2	1.28	0.11	73.44

Mean Dpar = 1.44
Mean Dper = 0.19
Mean length (um)= 13.18+/- 0.20
Std. Dev. (um)= 1.53
Skewness = -0.68
Kurtosis = 0.73

950-54

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	15.93	4	1.90	0.81	55.03
2	13.26	4	1.90	0.81	73.57
3	14.05	4	2.39	0.81	66.24
4	15.95	4	2.39	0.81	45.56
5	12.13	4	2.39	0.81	68.41
6	14.36	4	2.12	0.65	60.92
7	15.41	4	1.40	0.24	31.36
8	12.67	3	1.92	0.73	42.17
9	12.14	3	1.92	0.73	71.62
10	15.69	4	2.36	0.62	70.72
11	13.56	4	2.36	0.62	46.21
12	15.36	4	2.44	0.57	40.11
13	12.99	4	2.44	0.57	71.27
14	14.98	4	2.44	0.57	42.11
15	15.80	4	2.44	0.57	15.10
16	15.82	4	2.23	0.49	35.23
17	14.49	4	2.23	0.49	75.47
18	15.96	4	2.23	0.49	13.92
19	12.84	4	2.23	0.49	39.42
20	16.15	4	1.92	0.61	59.45
21	16.18	3	1.94	0.34	85.95
22	14.63	3	1.94	0.34	59.67
23	14.14	3	1.94	0.34	44.35
24	14.53	2	2.05	0.89	76.66
25	12.77	2	2.05	0.89	66.15
26	14.27	4	2.18	0.33	61.53
27	15.34	4	2.18	0.33	36.25
28	13.22	4	2.18	0.33	64.53
29	15.68	4	2.18	0.33	76.81
30	14.74	4	2.18	0.33	71.68
31	13.61	4	2.18	0.33	43.60
32	12.63	4	2.18	0.33	71.86
33	13.51	4	2.18	0.33	69.05
34	14.60	4	2.18	0.33	67.86
35	15.39	4	2.18	0.33	39.59
36	15.26	4	2.17	0.49	62.36
37	15.76	4	1.67	0.24	30.23
38	13.82	4	1.76	0.59	69.63
39	15.23	4	1.76	0.59	19.61
40	15.16	4	1.76	0.59	59.89
41	14.00	4	1.76	0.59	30.12
42	14.52	4	1.76	0.59	68.55
43	15.05	4	1.76	0.59	55.68
44	15.72	4	1.76	0.59	19.82

45	16.15	4	1.50	0.23	69.29
46	16.95	4	1.50	0.23	39.56
47	13.71	4	1.97	0.68	80.66
48	16.11	4	1.97	0.68	30.43
49	12.12	4	1.97	0.68	83.57
50	14.87	3	1.90	0.42	56.06
51	15.97	3	1.90	0.42	37.86
52	13.29	4	1.86	0.37	44.45
53	12.56	4	1.86	0.37	87.44
54	16.44	4	1.86	0.37	38.22
55	14.24	4	1.86	0.37	81.51
56	14.16	4	1.86	0.37	55.03
57	14.42	3	1.88	0.53	69.85
58	14.03	3	1.88	0.53	40.67
59	9.59	4	1.71	0.54	55.01
60	16.02	4	1.78	0.19	38.67
61	14.14	4	1.88	0.16	53.03
62	13.26	4	1.88	0.16	42.84
63	14.24	4	2.05	0.38	66.69
64	14.53	4	2.05	0.38	63.79
65	16.86	4	2.05	0.38	37.26
66	15.40	4	2.05	0.38	51.39
67	15.25	4	2.53	0.91	38.22
68	13.06	4	2.53	0.91	32.57
69	13.46	3	2.10	0.62	62.75
70	12.58	4	2.10	0.61	53.50
71	14.44	4	2.10	0.61	60.70
72	15.69	4	2.10	0.61	61.50
73	15.00	4	2.10	0.61	48.51
74	15.39	4	2.39	0.73	31.22
75	15.80	4	2.16	0.68	87.50
76	15.42	4	2.21	0.76	67.78
77	14.82	4	1.90	0.07	64.18
78	16.76	4	1.90	0.07	9.90
79	14.60	4	2.00	0.31	52.17
80	16.15	4	2.00	0.31	30.90
81	15.97	4	2.00	0.31	69.11
82	15.33	4	2.06	0.38	70.01
83	11.03	4	2.06	0.38	59.84
84	14.76	4	1.83	0.48	29.40
85	13.43	4	2.03	0.38	74.41
86	16.33	4	2.34	0.57	72.81
87	14.36	4	2.34	0.57	48.57
88	14.54	4	2.34	0.57	75.79
89	15.30	4	1.85	0.43	75.99
90	12.54	4	1.98	0.42	66.81
91	14.55	4	1.98	0.42	78.12
92	14.07	4	1.98	0.42	59.95
93	15.01	4	1.98	0.42	82.61
94	14.88	4	1.98	0.42	15.63
95	9.92	4	1.76	0.16	80.63
96	15.08	4	1.76	0.16	55.07
97	15.45	4	1.94	0.24	74.41
98	14.41	4	2.13	0.29	79.10
99	14.69	4	2.13	0.29	61.32
100	13.41	4	2.66	0.71	28.54
101	13.87	4	2.66	0.71	58.78
102	15.53	4	2.32	0.86	55.78
103	13.44	4	2.32	0.86	79.92
104	14.31	4	1.88	0.52	37.32
105	14.31	4	1.88	0.52	76.51
106	14.65	3	2.44	1.00	23.64
107	15.09	3	2.44	1.00	31.18
108	15.30	4	2.59	0.54	82.19
109	14.26	4	1.77	0.38	48.41
110	13.78	4	1.94	0.34	43.07
111	16.45	4	2.32	0.42	26.97

112	16.24	4	2.32	0.42	48.29
113	16.36	2	2.13	0.44	24.48
114	15.54	2	2.13	0.44	44.22
115	14.64	4	2.85	0.47	80.86
116	16.20	4	2.85	0.47	62.40
117	14.97	4	1.65	0.18	42.26
118	17.48	4	2.01	0.54	59.74
119	13.04	3	1.70	0.26	61.23
120	11.37	3	1.70	0.26	46.44
121	16.51	4	2.26	0.82	64.08
122	15.31	4	2.44	0.45	72.67
123	14.58	4	1.96	0.30	58.97
124	14.72	2	1.46	0.31	67.91
125	16.12	2	1.88	0.26	37.91

Mean Dpar = 2.06
Mean Dper = 0.49
Mean length (um)= 14.61+/- 0.12
Std. Dev. (um)= 1.38
Skewness = -0.87
Kurtosis = 1.24

950-55

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.76	4	1.85	0.30	42.17
2	15.26	3	1.45	0.16	28.62
3	11.87	3	1.45	0.16	79.59
4	14.54	3	1.45	0.16	30.18
5	4.38	4	1.41	0.02	44.15
6	3.82	4	1.41	0.02	11.09
7	14.25	4	1.41	0.02	33.98
8	14.12	3	1.54	0.31	58.40
9	14.73	3	1.43	0.26	65.22
10	12.92	4	1.60	0.18	80.40
11	11.11	4	1.71	0.12	84.30
12	10.72	4	1.71	0.12	67.40
13	13.61	4	1.71	0.12	60.75
14	13.54	3	1.66	0.24	60.95
15	12.23	2	1.86	0.10	89.73
16	12.30	2	1.86	0.10	60.15
17	12.92	4	1.92	0.16	83.37
18	17.38	4	1.93	0.20	33.30
19	14.83	2	1.35	0.12	33.62
20	12.15	4	1.59	0.26	39.93
21	13.82	4	1.59	0.26	38.61
22	12.22	4	1.72	0.45	60.32
23	14.59	2	1.39	0.06	67.84

Mean Dpar = 1.61
Mean Dper = 0.17
Mean length (um)= 12.70+/- 0.66
Std. Dev. (um)= 3.10
Skewness = -1.63
Kurtosis = 2.46

950-56

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.86	3	1.59	0.39	51.58
2	14.61	3	1.59	0.39	57.79

3	9.61	4	2.04	0.40	67.16
4	14.47	4	2.04	0.40	32.93
5	11.87	4	2.04	0.40	62.78
6	16.22	4	2.04	0.40	40.79
7	11.59	4	2.19	0.29	65.02
8	14.61	4	2.19	0.29	49.21
9	10.87	3	1.51	0.20	75.71
10	14.01	3	1.63	0.35	63.45
11	14.46	3	1.63	0.35	71.61
12	15.62	3	1.60	0.14	47.37
13	15.09	2	1.84	0.51	32.70
14	11.38	4	2.30	0.30	78.76
15	16.29	4	2.10	0.25	40.14
16	13.44	4	2.10	0.25	51.28
17	14.97	4	1.68	0.09	57.79
18	14.33	4	1.68	0.09	33.36
19	12.93	4	1.68	0.09	56.24

Mean Dpar = 1.87
 Mean Dper = 0.29
Mean length (um)= 13.75+/- 0.44
 Std. Dev. (um)= 1.88
 Skewness = -0.63
 Kurtosis = -0.77

950-57

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.98	4	1.58	0.26	41.44
2	10.85	4	1.30	0.12	50.62
3	17.26	4	1.52	0.15	17.68
4	14.74	2	1.28	0.12	73.66

Mean Dpar = 1.42
 Mean Dper = 0.17
Mean length (um)= 14.46+/- 1.54
 Std. Dev. (um)= 2.66
 Skewness = -0.33
 Kurtosis = -1.85

950-58

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	11.18	4	2.26	0.63	62.78
2	16.00	4	2.26	0.63	33.85
3	7.81	4	2.73	1.08	87.30
4	14.54	4	1.93	0.75	35.72
5	12.36	4	2.58	0.30	73.54
6	16.05	4	2.24	0.40	51.19
7	16.74	4	2.41	0.82	55.51
8	15.51	4	2.00	0.84	38.16
9	13.59	4	2.44	0.70	44.08
10	14.86	4	2.25	0.20	64.37
11	14.35	4	2.23	0.67	79.39
12	14.17	4	2.43	0.91	56.93
13	14.59	4	2.43	0.91	25.30
14	13.50	4	1.96	0.52	53.91
15	15.09	4	2.05	0.63	30.71
16	15.49	4	2.53	0.19	64.86
17	13.18	4	2.18	1.08	85.98
18	12.16	4	2.18	1.08	73.85

19	12.64	4	2.18	1.08	50.44
20	15.60	4	1.81	0.90	77.94
21	14.26	4	2.19	0.84	44.87
22	16.30	4	2.04	0.91	24.42
23	14.11	4	2.98	0.56	61.05
24	15.15	4	2.98	0.56	17.70
25	14.21	3	2.25	0.28	43.85
26	16.38	4	1.93	0.68	35.36
27	11.73	4	2.14	0.68	32.28
28	13.50	4	1.74	0.38	87.07
29	15.07	4	1.73	0.71	63.13
30	15.21	3	2.03	0.56	55.17
31	14.90	4	2.84	0.48	38.71
32	15.47	4	1.99	0.58	63.26
33	15.82	4	1.99	0.58	43.08
34	15.43	4	1.87	0.48	45.70
35	15.44	3	1.91	0.52	49.29
36	14.30	4	2.21	0.65	55.65
37	15.92	4	2.21	0.65	48.15
38	15.23	4	1.97	0.72	57.04
39	14.35	4	2.45	0.29	41.20
40	14.20	4	2.45	0.29	64.79
41	13.61	2	1.66	0.20	72.52
42	14.59	2	1.66	0.20	81.82
43	15.65	4	2.13	0.47	28.30
44	15.16	4	2.13	0.47	10.24
45	13.94	4	2.13	0.47	37.98

Mean Dpar = 2.19
 Mean Dper = 0.61
Mean length (um)= 14.43+/- 0.24
 Std. Dev. (um)= 1.60
 Skewness = -1.74
 Kurtosis = 4.49

950-59

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	13.30	3	1.52	0.12	76.73
2	14.10	3	1.52	0.12	49.54
3	13.73	3	1.68	0.51	27.88
4	14.34	3	1.68	0.51	33.10
5	12.19	3	1.68	0.51	61.46
6	13.85	3	1.68	0.51	64.56
7	11.64	2	1.81	0.49	58.08
8	7.06	2	1.51	0.37	62.87
9	11.85	2	1.51	0.37	62.22
10	12.20	3	1.94	0.40	76.52
11	12.95	4	1.72	0.30	29.46
12	15.17	4	1.72	0.30	57.79
13	14.36	4	1.72	0.30	43.79
14	14.28	4	1.51	0.15	50.94
15	15.03	4	1.51	0.15	40.47
16	12.93	4	1.51	0.15	34.42
17	10.75	4	1.51	0.15	87.26
18	11.65	4	1.47	0.23	45.69
19	13.76	4	1.47	0.23	44.69
20	12.57	4	1.47	0.23	64.59
21	12.77	4	1.47	0.23	69.07
22	12.31	4	1.60	0.28	72.67
23	13.77	4	1.60	0.28	48.62
24	12.63	4	1.60	0.28	60.53
25	13.90	3	1.65	0.06	67.82
26	14.13	2	1.85	0.44	33.64

27	14.69	4	1.61	0.11	7.79
28	14.80	4	1.61	0.11	32.36
29	14.75	4	1.61	0.11	30.08
30	11.05	4	1.61	0.11	67.39
31	15.45	2	1.47	0.26	43.60
32	15.44	2	1.47	0.26	39.04
33	14.05	3	1.54	0.23	47.68
34	14.62	3	1.54	0.23	59.64
35	14.32	3	1.54	0.23	30.26
36	14.00	3	1.54	0.23	63.96
37	11.28	4	1.76	0.21	64.08
38	10.57	4	1.76	0.21	81.54
39	11.30	2	1.76	0.40	88.16
40	11.29	2	1.76	0.40	44.32
41	14.00	2	1.76	0.40	48.15
42	10.20	2	1.60	0.57	74.25
43	12.88	4	1.57	0.21	53.33
44	14.59	4	1.57	0.21	23.42
45	9.30	2	1.39	0.39	65.23
46	14.02	2	1.39	0.39	37.52
47	12.49	2	1.39	0.39	55.16
48	10.13	4	1.61	0.28	83.40
49	10.20	4	1.61	0.28	51.42
50	14.56	2	2.05	0.21	36.52
51	13.77	4	1.78	0.37	72.39
52	13.99	4	1.78	0.37	76.09
53	11.15	4	1.78	0.37	71.92
54	14.36	4	1.78	0.37	24.07
55	14.44	4	1.78	0.37	80.57

Mean Dpar = 1.62

Mean Dper = 0.29

Mean length (um)= 13.00+/- 0.24

Std. Dev. (um)= 1.76

Skewness = -0.96

Kurtosis = 0.66

950-60

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	12.68	4	1.31	0.61	35.45
2	15.04	4	1.07	0.21	40.29
3	14.37	4	1.07	0.21	20.23
4	14.25	2	1.43	0.34	49.86
5	15.03	4	1.64	0.38	36.76
6	15.11	2	1.72	0.62	48.90
7	14.46	4	1.81	0.37	56.90
8	12.82	4	1.76	0.25	75.04
9	13.24	4	1.78	0.42	71.24
10	15.14	2	1.64	0.63	29.31
11	15.78	2	1.41	0.76	59.99
12	13.66	2	1.38	0.61	25.62
13	13.69	4	1.53	0.16	74.73
14	13.04	3	1.63	0.11	60.33
15	13.53	3	1.54	0.38	35.73
16	14.55	4	1.96	0.59	39.57
17	12.95	4	1.40	0.24	79.97
18	10.66	4	1.32	0.23	42.67
19	13.60	4	1.57	0.29	58.84
20	13.11	3	1.84	0.33	68.03

Mean Dpar = 1.54

Mean Dper = 0.39

Mean length (um)= 13.84+/- 0.27

Std. Dev. (um)= 1.18

Skewness = -0.63

Kurtosis = 0.41

950-61

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.54	4	1.94	0.80	79.84
2	15.53	4	2.06	0.34	85.85
3	14.00	4	2.20	0.57	47.46
4	11.88	4	2.20	0.57	43.86
5	12.51	4	2.23	0.40	79.00
6	15.76	3	2.59	0.37	43.02
7	14.13	4	2.19	0.84	42.32
8	14.58	4	2.52	1.08	54.04
9	13.69	2	1.63	0.43	62.39
10	13.75	4	2.19	0.61	58.65
11	16.34	4	2.48	0.56	37.18
12	13.47	4	2.16	0.91	63.19
13	14.80	4	2.33	0.53	71.22
14	15.31	4	2.33	0.53	42.10
15	16.39	4	2.38	0.62	40.13
16	17.60	4	2.38	0.62	47.24
17	16.73	2	2.31	0.48	36.41
18	15.55	4	2.16	0.75	63.15
19	14.45	4	2.40	0.20	53.92
20	14.46	4	2.03	0.91	73.13
21	15.89	3	2.20	1.14	16.49
22	16.19	4	2.24	0.39	57.33
23	16.29	4	2.24	0.39	63.81
24	14.00	4	1.97	0.68	54.72
25	14.19	4	2.34	0.84	76.07
26	14.71	4	2.33	0.85	34.13
27	14.91	4	1.88	1.06	79.54
28	14.43	4	2.14	1.03	89.01
29	14.31	4	2.14	1.03	71.32
30	14.11	4	2.14	1.03	29.47
31	16.77	3	2.08	0.61	16.83
32	14.28	3	2.08	0.61	60.45
33	14.32	4	2.05	0.82	37.37
34	11.37	4	2.13	0.75	54.13
35	13.22	4	2.13	0.75	63.89
36	15.88	4	1.79	0.78	19.09
37	12.76	4	1.93	0.66	75.67
38	14.91	4	2.21	0.33	67.65
39	15.01	4	2.21	0.33	54.16
40	12.49	4	2.50	0.73	89.02
41	16.41	3	2.37	0.34	41.17
42	13.86	4	2.51	0.44	72.65
43	15.52	3	2.25	0.77	30.32
44	14.43	4	2.48	0.70	45.66
45	13.87	4	2.13	0.62	63.95
46	15.65	4	2.13	0.62	69.24
47	12.49	4	2.38	0.34	44.93
48	15.20	3	2.10	0.30	83.53
49	15.19	4	2.48	0.57	73.54
50	16.02	4	2.48	0.57	80.58
51	13.97	4	2.18	0.85	78.34
52	14.87	3	2.39	0.28	76.66
53	14.15	4	2.51	0.37	52.51
54	13.18	4	1.76	0.37	69.84
55	15.56	4	1.76	0.37	51.96
56	16.63	4	2.57	0.33	10.02
57	13.09	4	3.04	0.90	62.63

58	16.23	4	2.48	0.81	32.56
59	14.82	4	2.48	0.81	83.09
60	11.68	3	2.36	0.40	74.56
61	12.15	3	2.36	0.40	27.30
62	15.02	4	2.66	0.37	20.89
63	14.11	4	2.66	0.37	56.32

Mean Dpar = 2.25
Mean Dper = 0.62
Mean length (um)= 14.60+/- 0.17
Std. Dev. (um)= 1.36
Skewness = -0.26
Kurtosis = -0.37

950-62

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	12.36	3	1.77	0.25	84.93
2	14.55	4	1.68	0.28	43.80
3	13.56	4	1.68	0.28	67.74
4	16.36	4	1.68	0.28	38.66
5	14.74	4	1.68	0.28	78.74
6	14.57	2	1.65	0.40	41.70
7	14.47	4	1.41	0.18	55.19
8	14.00	3	1.92	0.42	62.55
9	17.11	4	1.66	0.14	53.29
10	14.33	4	1.66	0.14	43.52
11	16.06	4	1.66	0.14	23.03
12	14.42	4	1.27	0.21	83.31
13	14.07	4	1.15	0.43	82.99
14	15.49	3	1.70	0.31	58.97
15	15.55	4	1.79	0.34	60.15
16	14.84	4	1.79	0.34	59.64
17	15.82	4	1.79	0.34	16.96
18	13.61	4	1.86	0.37	44.26
19	11.16	4	1.86	0.37	58.09
20	14.07	3	1.17	0.19	54.39
21	14.49	3	1.17	0.19	24.62
22	14.11	2	1.31	0.33	39.67
23	14.27	2	1.31	0.33	69.74

Mean Dpar = 1.59
Mean Dper = 0.28
Mean length (um)= 14.52+/- 0.27
Std. Dev. (um)= 1.26
Skewness = -0.41
Kurtosis = 0.75

950-63

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.26	2	1.90	0.24	70.98
2	14.14	1	1.80	0.39	47.06
3	15.71	4	1.66	0.59	39.63
4	15.44	3	2.00	0.58	35.23
5	13.54	3	2.00	0.58	68.24
6	16.11	4	2.01	0.56	36.77
7	15.23	4	1.93	0.40	72.30
8	15.55	2	1.81	0.42	52.18
9	15.29	3	1.73	0.29	71.29
10	13.83	3	1.73	0.29	59.50
11	13.92	4	1.88	1.12	55.21
12	14.22	4	1.88	1.12	85.33
13	15.00	4	1.88	1.12	34.12
14	15.31	2	1.97	0.38	52.07
15	16.44	2	1.97	0.38	8.00
16	15.95	4	1.58	0.09	44.37
17	15.17	4	1.58	0.09	69.96
18	15.51	2	1.80	0.51	82.46
19	11.48	3	1.96	0.51	67.65
20	16.26	3	1.96	0.51	43.16
21	12.44	2	1.67	0.31	23.00

Mean Dpar = 1.78
Mean Dper = 0.43

Mean length (um)= 14.95+/- 0.27
 Std. Dev. (um)= 1.26
 Skewness = -0.72
 Kurtosis = 0.97

950-64

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	13.48	4	1.25	0.39	29.64
2	14.49	4	1.25	0.39	88.51
3	15.84	4	1.25	0.39	53.69
4	15.49	4	1.25	0.39	35.84
5	15.59	4	1.25	0.39	6.58
6	14.99	4	1.25	0.39	35.77
7	12.12	4	1.25	0.39	77.82
8	13.15	4	1.38	0.29	74.28
9	15.38	4	1.38	0.29	57.97
10	14.36	4	1.38	0.29	64.42
11	14.07	4	1.38	0.29	47.91
12	13.94	4	1.38	0.29	80.52
13	14.90	4	1.45	0.07	50.63
14	14.73	4	1.45	0.07	26.47
15	14.48	4	1.45	0.07	78.16
16	13.72	4	1.45	0.07	53.36
17	14.92	4	1.45	0.07	54.43
18	13.44	4	1.46	0.25	60.74
19	15.29	4	1.55	0.28	39.04
20	13.18	4	1.55	0.28	59.90
21	13.68	4	1.55	0.28	76.79
22	14.36	4	1.55	0.28	30.87
23	15.76	4	1.64	0.37	73.57
24	15.47	4	1.64	0.37	22.24
25	15.77	4	1.64	0.37	11.35
26	14.27	4	1.64	0.37	73.62
27	13.86	4	1.64	0.37	62.84
28	13.83	4	1.64	0.37	52.45
29	14.03	4	1.64	0.37	47.10
30	15.10	4	1.64	0.37	31.36
31	13.02	4	1.64	0.37	47.21
32	13.39	4	1.60	0.09	71.89
33	11.69	4	1.60	0.09	65.70
34	12.66	4	1.38	0.23	53.07
35	12.85	4	1.38	0.23	49.73
36	13.52	4	1.38	0.23	55.08
37	14.00	4	1.61	0.16	68.36
38	16.47	4	1.61	0.16	1.60
39	16.34	4	1.61	0.16	53.49
40	15.35	4	1.33	0.15	36.91
41	13.87	4	1.33	0.15	74.00
42	13.82	4	1.33	0.15	86.36
43	13.28	4	1.33	0.15	70.99
44	15.30	4	1.33	0.15	26.44
45	15.15	4	1.33	0.15	37.33
46	13.93	4	1.33	0.15	50.50
47	13.97	4	1.33	0.15	46.66
48	16.10	4	1.33	0.15	30.26
49	15.68	4	1.33	0.15	41.06
50	12.97	4	1.33	0.15	57.39
51	15.00	4	1.65	0.06	73.66
52	13.22	4	1.51	0.37	50.78
53	13.05	4	1.51	0.37	84.06
54	17.72	4	1.51	0.37	59.05
55	15.23	4	1.51	0.37	53.16
56	15.61	4	1.51	0.37	71.71

57	15.33	4	1.51	0.37	70.01
58	16.13	4	1.51	0.37	49.74
59	14.14	4	1.51	0.37	65.50
60	15.07	4	1.51	0.37	54.43
61	14.57	4	1.15	0.19	69.13
62	15.64	4	1.15	0.19	39.93
63	14.51	4	1.15	0.19	77.36
64	12.90	4	1.64	0.23	57.73
65	14.70	4	1.64	0.23	86.62
66	12.30	4	1.64	0.23	57.57
67	14.83	4	1.64	0.23	80.64
68	14.40	4	1.64	0.23	24.67
69	14.49	4	1.64	0.23	52.88
70	15.28	4	1.59	0.25	44.99
71	13.65	4	1.35	0.24	37.91
72	15.71	4	1.35	0.24	11.57
73	13.21	4	1.35	0.24	56.31
74	15.30	4	1.35	0.24	43.05
75	14.64	4	1.35	0.24	73.28
76	14.41	4	1.35	0.24	81.93
77	14.07	4	1.35	0.24	67.48
78	14.22	3	1.43	0.20	61.30
79	14.38	3	1.43	0.20	67.31
80	15.06	3	1.43	0.20	57.51
81	14.70	4	1.48	0.21	61.35
82	15.53	4	1.48	0.21	32.08
83	13.51	4	1.48	0.21	59.07
84	15.94	4	1.48	0.21	45.64
85	15.16	4	1.48	0.21	23.58
86	17.49	4	1.38	0.11	11.69
87	13.79	4	1.38	0.11	73.54
88	15.59	4	1.73	0.19	69.38
89	13.60	4	1.64	0.33	39.16
90	13.99	4	1.64	0.33	53.96
91	13.72	4	1.64	0.33	66.78
92	15.12	4	1.64	0.33	80.38
93	13.75	4	1.64	0.33	60.78
94	15.65	4	1.64	0.33	50.08
95	15.45	4	1.43	0.34	66.22
96	15.73	4	1.43	0.34	88.37
97	15.61	4	1.43	0.34	63.87
98	13.74	4	1.43	0.34	38.13
99	14.33	4	1.43	0.34	67.06
100	15.27	4	1.43	0.34	66.03
101	17.35	4	1.43	0.34	41.92
102	14.92	4	1.43	0.34	55.71
103	14.89	4	1.43	0.34	78.13
104	13.95	4	1.63	0.16	70.38
105	15.56	4	1.63	0.16	32.47
106	15.94	4	1.63	0.16	11.61
107	13.38	4	1.63	0.16	82.18
108	15.36	4	1.38	0.05	46.60
109	14.13	4	1.59	0.26	49.35
110	15.84	4	1.59	0.26	63.81
111	15.63	4	1.59	0.26	49.63
112	15.42	4	1.35	0.23	35.33
113	14.19	4	1.38	0.07	57.23
114	14.82	4	1.38	0.07	40.33
115	13.02	4	1.38	0.07	48.91
116	14.50	4	1.38	0.07	58.52
117	15.45	4	1.46	0.16	71.15
118	15.61	4	1.46	0.16	40.99
119	14.29	4	1.46	0.16	23.40
120	13.23	4	1.46	0.16	81.50
121	12.76	4	1.46	0.16	73.47
122	14.99	4	1.46	0.16	27.64
123	14.95	4	1.46	0.16	45.59

124	14.57	4	1.41	0.30	47.20
125	15.71	4	1.41	0.30	57.51
126	13.79	4	1.41	0.30	73.18
127	14.57	4	1.41	0.30	50.02
128	15.56	4	1.41	0.30	39.15
129	14.84	4	1.41	0.30	80.94
130	11.77	4	1.38	0.21	54.52
131	13.17	4	1.38	0.21	58.00
132	13.18	4	1.38	0.21	79.16
133	15.09	4	1.38	0.21	50.10
134	14.40	4	1.38	0.21	40.44
135	15.18	4	1.38	0.21	74.63
136	14.31	4	1.38	0.21	43.46
137	15.02	4	1.38	0.21	85.25
138	13.30	4	1.28	0.25	64.37
139	12.87	4	1.28	0.25	54.34
140	15.12	4	1.55	0.11	31.69
141	14.56	4	1.55	0.11	74.05
142	15.26	4	1.55	0.11	60.37
143	12.56	4	1.55	0.11	47.84
144	14.09	4	1.45	0.14	43.59
145	13.76	4	1.45	0.14	70.47
146	14.60	4	1.45	0.14	39.45
147	13.16	4	1.45	0.19	59.18
148	15.90	4	1.41	0.11	67.31
149	15.43	4	1.41	0.11	30.25
150	15.65	4	1.39	0.15	69.64
151	15.42	4	1.39	0.15	59.80
152	13.54	4	1.39	0.15	61.76
153	15.21	4	1.58	0.26	74.63
154	14.17	4	1.27	0.20	75.03
155	14.39	4	1.27	0.20	30.44
156	13.56	4	1.65	0.31	61.60
157	14.49	4	1.65	0.31	40.28
158	13.91	4	1.65	0.31	70.54
159	13.73	4	1.65	0.31	58.22
160	14.64	4	1.65	0.31	41.23
161	14.02	4	1.47	0.07	76.10
162	16.36	4	1.47	0.07	77.73
163	15.10	3	1.48	0.37	36.53
164	15.04	3	1.48	0.37	24.81
165	15.25	4	1.28	0.19	53.28
166	13.20	4	1.28	0.19	77.58
167	16.17	4	1.28	0.19	76.94
168	12.42	4	1.28	0.19	85.86
169	15.43	3	1.41	0.24	60.19
170	15.08	3	1.41	0.24	73.08
171	15.10	3	1.41	0.24	44.45
172	14.36	4	1.50	0.21	66.62
173	14.58	4	1.50	0.21	46.23
174	13.76	4	1.44	0.30	66.51
175	13.79	4	1.44	0.30	68.49
176	15.47	4	1.53	0.23	63.60
177	15.26	4	1.53	0.23	68.03
178	16.74	4	1.53	0.23	37.04
179	16.03	4	1.26	0.24	42.29
180	13.50	4	1.26	0.24	76.08
181	13.44	4	1.26	0.24	78.97
182	14.32	4	1.26	0.24	68.49
183	14.86	4	1.26	0.24	46.90
184	13.38	4	1.26	0.24	52.59
185	16.24	4	1.26	0.24	74.48
186	14.29	4	1.26	0.24	81.94
187	15.92	4	1.26	0.24	47.73
188	14.58	4	1.26	0.24	55.78
189	11.43	4	1.26	0.24	70.66
190	13.65	4	1.26	0.24	27.80

191	14.03	4	0.04	1.09	57.98
192	14.45	4	0.04	1.09	69.99
193	14.43	4	1.60	0.29	52.79
194	16.02	4	1.60	0.29	42.56
195	16.17	4	1.45	0.12	50.16
196	16.41	4	1.45	0.12	18.05
197	15.41	4	1.45	0.12	63.76
198	10.62	4	1.45	0.12	67.13
199	14.40	4	1.45	0.12	67.23
200	14.15	2	1.21	0.07	54.51
201	14.60	2	1.21	0.07	75.22
202	15.58	2	1.21	0.07	40.17

Mean Dpar = 1.43
 Mean Dper = 0.24
Mean length (um) = 14.55+/- 0.08
 Std. Dev. (um) = 1.12
 Skewness = -0.27
 Kurtosis = 0.43

950-65

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	13.21	4	1.64	0.35	84.57
2	14.96	4	1.64	0.35	38.02
3	14.49	4	1.78	0.21	35.43
4	18.43	4	1.78	0.21	13.63
5	18.67	4	1.78	0.21	16.14
6	11.69	4	1.78	0.21	72.89
7	14.38	4	1.64	0.61	80.27
8	14.33	4	1.64	0.61	66.16
9	14.72	4	1.64	0.61	51.80
10	15.13	4	1.64	0.61	84.64
11	15.33	4	1.64	0.61	59.34
12	15.31	4	1.64	0.61	66.77
13	13.69	3	1.34	0.44	70.77
14	14.28	4	1.67	0.28	53.27
15	15.96	4	1.67	0.28	40.29
16	14.32	4	1.67	0.28	58.91
17	15.12	4	1.67	0.28	6.90
18	16.25	4	1.63	0.31	42.53
19	14.16	4	1.63	0.31	37.21
20	14.31	4	1.63	0.31	49.67
21	15.84	4	1.63	0.31	56.17
22	12.00	4	1.63	0.31	58.06
23	13.96	4	1.63	0.31	47.32
24	14.30	4	1.84	0.45	70.18
25	14.93	4	1.84	0.45	22.21
26	14.15	4	1.84	0.45	82.56
27	12.61	4	1.76	0.29	48.61
28	13.62	4	1.52	0.42	87.96
29	11.40	4	1.52	0.42	74.46
30	17.57	4	1.52	0.42	32.74
31	16.03	4	1.53	0.30	31.72
32	14.55	4	1.53	0.30	64.10
33	13.98	4	1.53	0.30	66.78
34	14.93	4	1.85	0.20	53.57
35	11.31	4	1.85	0.20	55.15
36	14.70	4	1.85	0.20	38.99
37	14.65	4	1.76	0.33	72.03
38	15.27	4	1.76	0.33	29.30
39	16.94	4	1.76	0.33	25.07
40	14.52	4	1.78	0.38	56.85
41	17.27	4	1.78	0.38	44.58

42	14.55	4	1.78	0.38	47.26	109	15.37	4	1.48	0.30	16.65
43	14.67	4	1.78	0.38	35.22	110	13.82	4	1.48	0.30	73.96
44	14.04	4	1.41	0.11	60.30	111	14.38	4	1.48	0.30	66.54
45	15.53	4	1.41	0.11	45.34	112	14.03	4	1.48	0.30	37.33
46	16.85	4	1.79	0.33	43.47	113	13.69	4	1.98	0.51	45.54
47	14.20	4	1.79	0.33	57.50	114	16.27	4	1.98	0.51	32.02
48	15.78	4	1.65	0.29	8.03	115	13.75	4	1.98	0.51	85.86
49	16.48	4	1.65	0.29	10.47	116	16.58	4	1.98	0.51	36.26
50	16.10	4	1.65	0.29	26.63	117	13.78	4	1.67	0.18	37.62
51	14.10	4	1.45	0.29	47.95	118	13.02	4	1.67	0.18	71.95
52	13.21	4	1.67	0.33	81.47	119	15.81	4	1.67	0.18	38.40
53	13.53	4	1.67	0.33	54.43	120	13.45	4	1.67	0.18	54.42
54	13.80	4	1.72	0.37	44.06	121	13.07	4	1.92	0.61	48.71
55	13.75	4	1.90	0.25	76.48	122	17.03	4	1.92	0.61	43.32
56	14.51	4	1.90	0.25	22.76	123	14.68	4	1.65	0.16	71.08
57	14.58	4	1.90	0.25	43.01	124	12.70	4	1.58	0.24	89.31
58	15.77	4	1.77	0.21	86.78	125	15.24	4	1.58	0.24	20.91
59	13.31	4	1.77	0.21	52.96	126	14.64	4	1.65	0.16	77.71
60	14.25	4	1.58	0.28	84.77	127	15.70	4	1.65	0.16	37.04
61	14.62	4	2.11	0.37	86.98	128	13.40	4	1.65	0.16	79.64
62	16.49	4	2.11	0.37	71.38	129	17.26	4	1.65	0.16	29.39
63	14.16	4	2.11	0.37	79.60	130	14.87	4	1.83	0.29	47.54
64	12.84	4	2.11	0.37	77.98	131	15.59	4	1.83	0.29	20.54
65	13.38	4	2.31	0.57	52.92	132	15.33	4	1.63	0.19	56.85
66	15.79	4	2.31	0.57	42.62	133	13.26	4	1.37	0.30	79.63
67	13.19	4	2.31	0.57	66.85	134	14.88	4	1.37	0.30	85.47
68	15.28	4	2.31	0.57	23.33	135	14.24	4	1.96	0.34	37.77
69	15.31	2	1.37	0.24	87.99	136	13.02	4	1.96	0.34	64.87
70	14.20	2	1.37	0.24	42.64	137	14.71	4	1.50	0.09	43.53
71	16.19	2	1.37	0.24	45.21	138	15.63	4	1.50	0.09	44.10
72	14.85	4	1.99	0.44	69.81	139	12.84	4	1.50	0.09	79.56
73	14.64	4	1.99	0.44	82.78	140	13.19	4	1.27	0.18	72.39
74	15.36	3	1.31	0.29	41.26	141	13.93	4	1.73	0.33	66.88
75	14.58	4	1.40	0.15	79.77	142	13.67	4	1.73	0.33	64.58
76	12.82	4	1.40	0.15	56.83	143	14.13	4	1.91	0.12	60.89
77	12.66	4	1.40	0.15	76.33	144	14.03	4	1.91	0.12	58.25
78	16.70	4	1.40	0.15	44.55	145	17.14	4	1.91	0.12	51.04
79	15.28	4	1.40	0.15	62.07	146	15.12	4	1.91	0.12	60.77
80	16.29	4	1.72	0.30	23.71	147	14.59	4	1.74	0.33	88.63
81	14.83	4	1.72	0.30	82.01	148	13.99	4	1.74	0.33	35.19
82	15.53	4	1.72	0.30	71.87	149	14.98	4	1.74	0.33	39.57
83	14.85	4	1.85	0.43	67.07	150	16.37	4	1.74	0.33	18.35
84	16.32	4	1.85	0.43	46.40	151	15.76	4	1.74	0.33	53.56
85	15.46	4	1.85	0.43	38.08	152	14.75	4	1.74	0.33	37.62
86	15.36	4	1.85	0.43	57.18	153	14.02	4	1.46	0.12	73.84
87	15.33	4	1.73	0.59	77.25	154	14.93	4	1.83	0.19	86.81
88	7.84	4	1.73	0.59	72.44	155	14.76	4	1.83	0.19	38.23
89	15.89	4	1.73	0.59	50.58	156	15.08	4	1.83	0.19	52.10
90	14.81	4	1.73	0.59	48.62	157	15.31	4	1.83	0.19	28.04
91	13.04	4	2.21	0.35	58.15	158	15.65	4	1.81	0.40	54.09
92	14.69	4	2.21	0.35	83.25	159	14.30	4	1.81	0.40	65.79
93	13.87	4	2.21	0.35	53.17	160	16.77	4	1.81	0.40	1.38
94	16.08	2	2.05	0.45	52.27	161	15.28	4	1.81	0.40	53.53
95	15.29	4	1.51	0.52	45.38	162	15.50	4	1.81	0.40	39.89
96	13.39	4	1.51	0.52	76.85	163	14.01	4	1.81	0.40	63.07
97	15.46	4	1.57	0.28	61.09	164	13.79	4	1.81	0.40	63.26
98	15.90	4	1.61	0.18	65.73	165	12.01	3	1.57	0.40	81.19
99	14.78	4	1.61	0.18	59.17	166	14.74	3	1.57	0.40	62.36
100	14.92	4	1.61	0.18	62.32	167	14.29	3	1.57	0.40	64.63
101	12.38	4	1.61	0.18	83.71	168	14.18	3	1.57	0.40	71.16
102	13.46	4	1.61	0.18	85.97	169	14.88	3	1.57	0.40	86.60
103	14.49	4	1.61	0.18	60.08	170	15.28	2	1.58	-0.03	58.36
104	15.62	4	1.67	0.40	86.03	171	16.33	2	1.58	-0.03	45.33
105	15.93	4	1.67	0.40	57.22	172	14.62	2	1.58	-0.03	28.46
106	12.67	4	1.67	0.40	85.56	173	15.59	4	1.28	0.29	40.13
107	15.43	4	1.67	0.40	48.97	174	12.73	4	1.28	0.29	62.05
108	15.02	4	1.67	0.40	60.44	175	14.93	4	1.80	0.16	51.44

176	15.32	4	1.80	0.16	34.17
177	15.29	4	1.80	0.16	57.97
178	14.92	4	1.80	0.16	48.11
179	16.29	3	1.65	0.09	84.04
180	13.92	3	1.65	0.09	85.34
181	15.20	3	1.65	0.09	65.58
182	14.76	4	1.68	0.21	71.38
183	14.90	4	1.68	0.21	36.24
184	16.32	4	1.68	0.21	42.10

Mean Dpar = 1.71
Mean Dper = 0.31
Mean length (um)= 14.70+/- 0.10
Std. Dev. (um)= 1.35
Skewness = -0.62
Kurtosis = 3.23

950-66

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.99	4	2.50	0.65	88.02
2	13.24	4	2.50	0.65	83.01
3	15.58	4	2.50	0.65	16.96
4	16.73	2	1.71	0.49	54.45
5	15.85	4	2.33	1.15	55.84
6	14.81	4	2.33	1.15	23.53
7	15.70	4	2.33	1.15	67.11
8	15.05	4	2.33	1.15	35.05
9	15.82	2	1.80	0.77	45.41
10	13.37	4	1.94	1.10	64.82
11	14.61	4	1.94	1.10	70.61
12	15.02	4	1.94	1.10	51.80
13	14.95	4	1.94	1.10	38.38
14	15.67	4	1.94	1.10	67.87
15	15.07	4	1.94	1.10	79.88
16	13.56	4	1.94	1.10	69.82
17	14.70	4	1.94	1.10	85.77
18	13.16	4	2.07	0.56	77.34
19	13.75	4	2.27	0.57	83.01

Mean Dpar = 2.12
Mean Dper = 0.93
Mean length (um)= 14.82+/- 0.24
Std. Dev. (um)= 1.00
Skewness = -0.21
Kurtosis = -0.98

950-67

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	13.50	4	1.71	0.29	86.62
2	14.69	4	1.71	0.29	62.72
3	15.05	3	1.55	0.52	43.49
4	12.83	4	1.85	0.56	66.94
5	15.33	4	1.39	0.20	22.71
6	9.86	4	1.39	0.20	81.04
7	14.90	4	1.39	0.20	42.27
8	14.74	4	1.74	0.38	51.62
9	13.27	4	1.52	0.23	43.40
10	15.92	4	1.52	0.23	19.17
11	14.08	4	1.52	0.23	78.70

12	14.14	4	1.41	0.19	46.92
13	11.89	4	1.41	0.19	62.86
14	14.39	4	1.73	0.43	58.48
15	13.14	4	1.73	0.43	77.46
16	13.28	4	1.65	0.18	79.07
17	15.32	4	1.99	0.20	57.58
18	13.94	4	1.99	0.20	34.31
19	14.34	4	1.99	0.20	65.34
20	14.06	4	1.35	0.24	40.80
21	11.41	4	1.35	0.24	80.79
22	13.63	4	1.35	0.24	66.66
23	15.49	4	1.35	0.24	39.79
24	11.64	4	1.92	0.26	75.85
25	12.85	4	1.92	0.26	64.88
26	14.76	4	1.92	0.26	37.82
27	14.46	4	1.61	0.16	78.21
28	14.74	4	1.59	0.28	55.95
29	13.11	4	1.59	0.28	65.39
30	16.49	4	1.59	0.28	47.62
31	14.40	4	1.59	0.28	30.95
32	13.69	4	1.61	0.40	83.78
33	10.59	3	1.72	0.14	88.42
34	16.03	3	1.72	0.14	56.08
35	14.88	4	1.73	0.37	35.83
36	15.26	4	1.73	0.37	50.37
37	15.91	4	1.73	0.37	28.06
38	10.08	4	1.73	0.37	62.36
39	15.20	4	1.37	0.29	18.24
40	16.21	4	1.37	0.29	26.44
41	14.83	3	1.66	0.24	67.56
42	14.63	3	1.66	0.24	39.83
43	15.35	3	1.34	0.14	11.22
44	13.82	3	1.34	0.14	55.23
45	15.55	3	1.34	0.14	61.99
46	14.79	4	1.87	0.18	55.38
47	14.88	4	1.87	0.18	33.16
48	12.01	4	1.74	0.30	45.13
49	12.78	3	1.57	0.44	81.80
50	13.78	3	1.67	0.18	39.30
51	12.74	4	1.47	0.26	81.48
52	13.96	4	1.47	0.26	69.40
53	10.59	4	1.43	0.20	83.88
54	11.89	4	1.43	0.20	85.05
55	14.87	4	1.43	0.20	10.08
56	15.27	4	1.43	0.20	47.91
57	15.94	3	1.98	0.52	31.03
58	15.15	3	1.98	0.52	20.77
59	10.93	3	1.98	0.52	80.67
60	15.50	3	1.98	0.52	20.11
61	14.71	4	1.88	0.18	53.53
62	13.60	4	1.88	0.18	48.48
63	14.46	4	1.88	0.18	43.15
64	15.60	4	1.88	0.18	41.80
65	15.02	2	2.06	0.42	72.40
66	16.42	2	2.06	0.42	48.38
67	10.68	2	2.06	0.42	70.36
68	12.37	4	1.94	0.58	61.14
69	16.76	2	1.97	0.58	9.13
70	10.49	4	1.65	0.16	59.72
71	14.77	4	1.65	0.16	46.93
72	13.81	4	1.65	0.16	72.04
73	15.28	4	1.65	0.16	52.11
74	13.02	4	1.65	0.16	64.94
75	15.31	4	1.65	0.16	25.41
76	11.97	2	1.57	0.20	39.52
77	14.68	4	1.40	0.29	47.48
78	14.15	4	1.40	0.29	49.43

79	15.29	4	1.59	0.24	37.99
80	14.65	4	1.71	0.43	49.65
81	13.02	4	1.71	0.43	74.40
82	14.17	4	1.71	0.43	44.04
83	14.76	4	1.71	0.43	75.17
84	14.81	4	1.71	0.43	36.95
85	14.93	3	1.80	0.04	62.86
86	14.26	4	1.76	0.58	70.40
87	15.77	4	1.76	0.58	37.87
88	15.23	4	2.04	0.35	27.03
89	10.36	4	2.04	0.35	76.24
90	15.66	4	1.58	0.07	52.33
91	14.24	4	1.58	0.07	56.59
92	14.11	4	1.58	0.07	34.08
93	13.54	4	1.71	0.33	58.93
94	13.36	4	1.71	0.33	70.24
95	14.08	4	1.71	0.33	85.54
96	12.61	4	1.71	0.33	76.87
97	16.02	4	1.71	0.33	24.92
98	14.96	4	1.71	0.33	19.26
99	15.60	4	1.86	0.20	38.52
100	12.11	4	1.63	0.24	83.11
101	16.04	4	1.63	0.24	27.12
102	12.26	4	1.63	0.24	68.47
103	14.75	4	1.63	0.24	66.50
104	14.07	4	1.63	0.24	44.76
105	12.40	4	1.50	0.20	66.88
106	13.18	4	1.55	0.20	42.42
107	15.03	4	1.55	0.20	28.15
108	15.81	4	1.63	0.18	25.48
109	15.82	4	1.58	0.18	86.10
110	15.57	4	1.58	0.18	18.92
111	14.69	4	1.54	0.39	84.30
112	12.34	2	1.74	0.01	82.36
113	14.00	4	1.76	0.52	66.86
114	9.10	4	1.71	0.35	68.50
115	16.33	4	1.98	0.34	59.12
116	13.76	4	1.80	0.24	60.99
117	15.54	4	1.80	0.24	22.86
118	14.18	4	1.55	0.31	78.99
119	12.39	4	1.55	0.31	82.39
120	15.53	4	1.55	0.31	28.91
121	13.25	4	1.78	0.14	76.56
122	14.73	2	1.59	0.52	43.51
123	12.70	2	1.90	0.37	68.06
124	13.61	4	1.70	0.31	72.38
125	7.91	4	1.70	0.31	82.15
126	15.61	4	1.70	0.31	38.33
127	10.88	4	1.86	0.18	54.54
128	14.91	4	1.86	0.18	30.31
129	9.63	4	1.86	0.18	81.71
130	14.18	4	1.86	0.18	34.62
131	11.33	3	1.48	0.24	76.83

Mean Dpar = 1.68

Mean Dper = 0.28

Mean length (um)= 13.95+/- 0.15

Std. Dev. (um)= 1.72

Skewness = -1.01

Kurtosis = 0.70

Appendix A:

Standardization-POS

Apatite Age Standards:

Durango DR06

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dnnls)	1 sigma (dnnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	4	4.85E-05	3.43E-02	2.66E-03	2.04E-02	2.60E-03	8.55E-04	0.00E+00	18.27	9.25	4	1.71	0.42	12.77	316.47	0.00	10.44
2	3	3.11E-05	4.20E-02	5.16E-03	1.85E-02	5.19E-04	9.18E-04	0.00E+00	17.50	10.34	4	1.40	0.32	15.62	309.41	0.00	10.07
3	4	4.85E-05	3.67E-02	2.31E-03	1.94E-02	6.35E-03	9.80E-04	0.00E+00	17.12	8.63	3	1.18	0.28	13.63	339.21	0.00	9.33
4	9	4.85E-05	3.65E-02	2.42E-03	2.21E-02	3.63E-03	1.44E-03	0.00E+00	38.66	13.16	4	1.60	0.31	13.56	312.62	0.00	9.99
5	3	4.85E-05	3.68E-02	2.41E-03	1.76E-02	3.22E-03	3.89E-04	0.00E+00	12.78	7.43	2	1.36	0.38	13.70	345.14	0.00	10.69
6	6	4.85E-05	3.25E-02	2.26E-03	1.85E-02	1.57E-03	5.12E-04	0.00E+00	28.96	12.01	4	1.43	0.28	12.07	311.94	0.00	10.80
7	11	4.85E-05	3.44E-02	2.37E-03	1.77E-02	1.72E-03	4.77E-04	0.00E+00	50.03	15.50	4	1.37	0.20	12.80	332.15	0.00	10.73
8	5	4.85E-05	3.42E-02	2.45E-03	1.60E-02	2.37E-03	8.11E-04	0.00E+00	22.93	10.39	2	1.39	0.18	12.72	320.61	0.00	10.86
9	5	4.85E-05	3.37E-02	2.36E-03	1.87E-02	8.48E-04	1.29E-03	0.00E+00	23.27	10.54	3	1.31	0.32	12.53	337.17	0.00	11.10
10	6	4.85E-05	3.54E-02	2.18E-03	1.89E-02	3.05E-03	1.45E-03	0.00E+00	26.61	11.00	4	1.45	0.32	13.15	350.19	0.00	11.28
11	4	3.40E-05	3.45E-02	2.00E-03	1.60E-02	1.09E-03	6.24E-04	0.00E+00	25.96	13.08	3	1.39	0.24	12.83	354.17	0.00	11.70
12	5	4.85E-05	3.53E-02	1.93E-03	1.77E-02	2.20E-03	4.71E-04	0.00E+00	22.21	10.01	3	1.37	0.36	13.13	374.61	0.00	11.33
13	6	4.85E-05	3.46E-02	2.29E-03	1.76E-02	1.89E-03	6.90E-04	0.00E+00	27.20	11.26	3	1.60	0.33	12.86	367.24	0.00	11.76
14	6	4.85E-05	3.61E-02	2.15E-03	1.69E-02	2.62E-03	1.07E-03	0.00E+00	26.08	10.77	4	1.59	0.24	13.41	361.70	0.00	11.73
15	3	4.85E-05	3.66E-02	1.72E-03	1.91E-02	2.56E-03	7.21E-04	0.00E+00	12.86	7.46	3	1.36	0.20	13.61	362.44	0.00	11.71
16	8	4.85E-05	3.60E-02	2.25E-03	1.76E-02	9.16E-04	5.15E-04	0.00E+00	34.80	12.51	4	1.56	0.41	13.39	333.07	0.00	11.65
17	6	4.85E-05	3.54E-02	2.09E-03	1.87E-02	0.00E+00	6.85E-04	0.00E+00	26.55	10.96	4	1.56	0.30	13.17	319.03	0.00	11.48
18	3	4.85E-05	3.62E-02	2.38E-03	1.66E-02	2.28E-03	7.89E-04	0.00E+00	13.01	7.57	2	1.62	0.37	13.45	324.03	0.00	11.51
19	9	4.85E-05	3.53E-02	2.16E-03	1.79E-02	1.55E-03	9.11E-04	0.00E+00	39.91	13.54	3	1.55	0.25	13.13	340.52	0.00	11.57
20	6	4.85E-05	3.56E-02	2.31E-03	1.68E-02	0.00E+00	4.29E-04	0.00E+00	26.41	10.93	4	1.50	0.29	13.24	342.30	0.00	11.82
21	9	4.85E-05	3.53E-02	2.53E-03	1.74E-02	2.83E-03	5.67E-04	0.00E+00	39.90	13.62	4	1.63	0.24	13.14	332.01	0.00	11.63
22	8	4.85E-05	3.70E-02	3.13E-03	1.80E-02	5.01E-04	7.13E-04	0.00E+00	33.91	12.34	3	1.51	0.26	13.75	347.62	0.00	11.86
23	4	4.85E-05	3.57E-02	2.56E-03	1.86E-02	1.98E-03	2.44E-03	0.00E+00	17.60	8.89	3	1.60	0.46	13.26	348.36	0.00	12.44
24	3	4.85E-05	3.86E-02	3.61E-03	1.92E-02	4.74E-03	1.09E-03	0.00E+00	12.19	7.13	2	1.47	0.30	14.36	370.13	0.00	12.15
25	8	4.85E-05	3.36E-02	2.25E-03	1.76E-02	0.00E+00	4.43E-04	0.00E+00	37.28	13.43	3	1.58	0.37	12.50	342.80	0.00	12.13
26	10	4.85E-05	3.51E-02	2.14E-03	1.78E-02	0.00E+00	7.65E-04	0.00E+00	44.64	14.40	3	1.58	0.23	13.04	316.61	0.00	11.01
27	5	4.85E-05	3.50E-02	2.44E-03	2.01E-02	8.31E-04	1.23E-03	0.00E+00	22.39	10.14	3	1.54	0.27	13.02	320.79	0.00	10.90
28	7	4.85E-05	3.47E-02	2.25E-03	1.72E-02	1.32E-03	7.01E-04	0.00E+00	31.66	12.15	4	1.61	0.33	12.88	325.40	0.00	12.76
29	8	4.85E-05	3.21E-02	2.50E-03	2.53E-02	1.97E-03	2.34E-03	0.00E+00	39.00	14.14	4	1.71	0.20	11.95	321.51	0.00	8.37
30	6	4.85E-05	3.22E-02	2.09E-03	2.20E-02	0.00E+00	1.21E-03	0.00E+00	29.22	12.09	3	1.60	0.34	11.97	308.20	0.00	10.10
31	8	4.85E-05	3.55E-02	2.42E-03	2.19E-02	0.00E+00	5.19E-04	0.00E+00	35.33	12.74	4	1.43	0.32	13.19	312.16	0.00	9.68
33	8	4.85E-05	3.46E-02	2.28E-03	1.60E-02	4.97E-04	5.31E-04	0.00E+00	36.23	13.05	4	1.39	0.20	12.86	323.36	0.00	12.31
34	4	4.85E-05	3.48E-02	2.54E-03	1.78E-02	8.77E-04	7.41E-04	0.00E+00	18.04	9.12	3	1.51	0.25	12.94	285.70	0.00	12.13
35	9	4.85E-05	3.51E-02	2.92E-03	1.71E-02	2.58E-03	8.10E-04	0.00E+00	40.18	13.82	4	1.55	0.28	13.05	341.88	0.00	12.28
36	4	4.85E-05	3.46E-02	4.20E-03	1.78E-02	9.18E-04	9.24E-04	0.00E+00	18.15	9.35	3	1.53	0.25	12.86	318.77	0.00	12.11
37	6	4.85E-05	3.63E-02	3.27E-03	1.69E-02	3.40E-03	9.24E-04	0.00E+00	25.93	10.85	4	1.55	0.26	13.49	342.54	0.00	12.89
38	5	4.85E-05	3.42E-02	3.48E-03	1.64E-02	4.89E-04	6.46E-04	0.00E+00	22.90	10.51	3	1.51	0.25	12.73	318.84	0.00	13.13
39	8	4.85E-05	3.53E-02	2.34E-03	1.68E-02	0.00E+00	5.33E-04	0.00E+00	35.55	12.80	4	1.56	0.34	13.11	355.25	0.00	12.84
40	5	4.85E-05	3.54E-02	2.41E-03	1.78E-02	2.36E-03	1.17E-03	0.00E+00	22.14	10.02	4	1.59	0.17	13.17	352.98	0.00	13.13
41	8	4.85E-05	3.34E-02	1.98E-03	1.78E-02	1.00E-03	3.20E-04	0.00E+00	37.52	13.47	3	1.65	0.34	12.42	316.84	0.00	12.66
42	4	4.85E-05	3.32E-02	1.91E-03	1.81E-02	1.04E-03	2.64E-04	0.00E+00	18.89	9.51	2	1.56	0.42	12.35	317.07	0.00	12.66
43	4	4.85E-05	3.47E-02	1.96E-03	1.84E-02	2.14E-03	7.21E-04	0.00E+00	18.06	9.09	3	1.51	0.16	12.92	303.24	0.00	11.84
44	5	4.85E-05	3.59E-02	2.25E-03	2.17E-02	1.96E-03	2.15E-03	0.00E+00	21.86	9.88	2	1.51	0.20	13.34	308.01	0.00	12.01
45	8	4.85E-05	3.36E-02	2.55E-03	2.01E-02	3.05E-03	2.82E-03	0.00E+00	37.27	13.49	3	1.53	0.28	12.50	304.15	0.00	12.38
46	4	4.85E-05	3.98E-02	4.90E-03	1.88E-02	0.00E+00	4.40E-04	0.00E+00	15.79	8.13	2	1.48	0.25	14.78	318.87	0.00	11.83
47	4	4.85E-05	3.42E-02	2.32E-03	1.95E-02	5.34E-03	9.41E-04	0.00E+00	18.37	9.28	3	1.45	0.35	12.70	318.94	0.00	12.20
48	8	4.85E-05	3.75E-02	5.12E-03	2.26E-02	7.33E-04	1.03E-03	0.00E+00	33.44	12.69	4	1.46	0.17	13.94	299.02	0.00	11.54
49	4	4.85E-05	3.42E-02	2.18E-03	1.82E-02	4.57E-03	4.85E-04	0.00E+00	18.37	9.27	3	1.53	0.26	12.70	295.29	0.00	12.32
50	7	4.85E-05	3.38E-02	2.15E-03	1.90E-02	2.70E-03	2.18E-04	0.00E+00	32.43	12.45	3	1.50	0.20	12.58	299.19	0.00	12.61
51	6	4.85E-05	3.39E-02	1.90E-03	1.82E-02	7.11E-04	8.25E-04	0.00E+00	27.76	11.45	4	1.61	0.25	12.60	347.73	0.00	13.17

52	6	4.85E-05	3.57E-02	2.45E-03	1.98E-02	1.76E-03	5.00E-04	0.00E+00	26.36	10.92	4	1.55	0.25	13.27	347.39	0.00	13.09
53	6	4.85E-05	3.38E-02	1.90E-03	1.93E-02	9.65E-04	4.76E-04	0.00E+00	27.85	11.49	4	1.64	0.29	12.56	342.17	0.00	13.49
54	8	4.85E-05	3.25E-02	2.35E-03	1.95E-02	2.75E-03	1.36E-03	0.00E+00	38.56	13.93	4	1.53	0.44	12.08	306.04	0.00	13.04
55	9	4.85E-05	3.09E-02	2.42E-03	1.95E-02	5.38E-04	5.18E-04	0.00E+00	45.62	15.64	4	1.37	0.33	11.48	315.48	0.00	13.21
56	5	4.85E-05	3.21E-02	2.04E-03	1.70E-02	4.54E-03	2.72E-04	0.00E+00	24.40	11.03	3	1.40	0.30	11.95	321.70	0.00	13.79
57	8	4.85E-05	3.37E-02	2.61E-03	1.89E-02	1.38E-03	9.87E-04	0.00E+00	37.21	13.49	3	1.38	0.30	12.52	334.52	0.00	13.62
58	7	4.85E-05	3.44E-02	3.00E-03	1.93E-02	1.41E-03	5.86E-04	0.00E+00	31.87	12.37	4	1.35	0.30	12.80	325.96	0.00	13.05
59	3	2.38E-05	3.42E-02	2.19E-03	1.73E-02	6.80E-04	6.88E-04	0.00E+00	28.03	16.29	4	1.54	0.29	12.73	330.80	0.00	14.14
60	7	4.85E-05	3.53E-02	3.72E-03	1.74E-02	0.00E+00	7.64E-04	0.00E+00	31.10	12.22	4	1.31	0.22	13.12	282.97	0.00	13.81
61	3	4.85E-05	3.17E-02	3.81E-03	1.72E-02	1.50E-03	2.92E-04	0.00E+00	14.87	8.78	2	1.37	0.26	11.77	303.97	0.00	14.46
62	4	4.85E-05	3.48E-02	3.15E-03	2.01E-02	1.38E-03	5.39E-04	0.00E+00	18.03	9.17	4	1.59	0.20	12.94	333.21	0.00	13.75
63	7	4.85E-05	4.57E-02	2.83E-03	2.06E-02	8.17E-04	4.97E-04	0.00E+00	24.03	9.22	2	1.68	0.26	16.98	321.35	0.00	11.77
64	11	4.85E-05	3.46E-02	2.28E-03	2.11E-02	1.03E-03	5.97E-04	0.00E+00	49.73	15.38	4	1.36	0.25	12.87	318.91	0.00	12.38
65	8	4.85E-05	4.24E-02	6.34E-03	2.07E-02	7.89E-04	4.13E-04	0.00E+00	29.56	11.36	3	1.50	0.30	15.78	311.32	0.00	12.63
66	7	4.85E-05	3.41E-02	2.27E-03	2.12E-02	7.67E-04	6.96E-04	0.00E+00	32.18	12.36	3	1.58	0.22	12.68	304.11	0.00	12.14
67	2	4.85E-05	3.49E-02	2.32E-03	1.92E-02	0.00E+00	4.98E-04	0.00E+00	8.99	6.39	2	1.46	0.25	12.98	306.54	0.00	12.33
68	4	4.85E-05	3.64E-02	3.10E-03	1.92E-02	6.83E-04	6.57E-04	0.00E+00	17.25	8.75	4	1.37	0.25	13.53	301.58	0.00	12.77
69	5	4.85E-05	3.74E-02	2.37E-03	1.94E-02	1.21E-03	1.52E-03	0.00E+00	20.95	9.47	4	1.41	0.39	13.92	295.19	0.00	13.99
70	9	4.85E-05	3.36E-02	2.25E-03	2.02E-02	1.54E-03	3.92E-04	0.00E+00	41.91	14.27	4	1.54	0.31	12.51	306.42	0.00	12.26
71	3	4.85E-05	3.30E-02	2.21E-03	2.28E-02	3.09E-03	1.23E-03	0.00E+00	14.28	8.30	3	1.45	0.41	12.26	300.14	0.00	12.39
72	3	4.85E-05	3.42E-02	2.63E-03	2.06E-02	9.35E-04	5.74E-04	0.00E+00	13.76	8.02	2	1.55	0.33	12.72	297.93	0.00	13.23
73	3	4.85E-05	3.74E-02	3.76E-03	2.16E-02	1.18E-03	1.61E-03	0.00E+00	12.60	7.39	3	1.54	0.14	13.90	304.09	0.00	13.15
74	6	2.91E-05	3.36E-02	2.09E-03	1.99E-02	4.02E-03	5.61E-04	0.00E+00	46.53	19.23	4	1.52	0.28	12.51	316.72	0.00	14.45
75	3	4.85E-05	3.30E-02	2.06E-03	2.64E-02	1.60E-03	4.83E-04	0.00E+00	14.27	8.29	3	1.49	0.17	12.27	240.82	0.00	10.05
76	4	4.85E-05	3.67E-02	2.49E-03	3.01E-02	3.25E-03	2.61E-03	0.00E+00	17.12	8.64	4	1.44	0.17	13.63	280.20	0.00	9.75
77	7	4.85E-05	3.55E-02	2.48E-03	2.61E-02	0.00E+00	2.54E-04	0.00E+00	30.91	11.89	3	1.63	0.25	13.20	276.66	0.00	10.73
78	4	4.85E-05	3.34E-02	1.89E-03	2.04E-02	0.00E+00	6.17E-04	0.00E+00	18.79	9.46	4	1.46	0.21	12.42	289.68	0.00	13.09
79	8	4.85E-05	3.55E-02	2.61E-03	2.16E-02	4.73E-03	2.19E-03	0.00E+00	35.27	12.75	4	1.42	0.21	13.21	284.96	0.00	13.22
80	7	4.85E-05	3.24E-02	2.06E-03	2.00E-02	1.05E-03	2.86E-04	0.00E+00	33.85	12.99	4	1.48	0.22	12.05	286.86	0.00	12.43
81	12	4.85E-05	3.30E-02	2.05E-03	2.41E-02	3.76E-03	2.01E-03	0.00E+00	56.86	16.82	3	1.61	0.19	12.27	280.93	0.00	12.39
82	4	3.88E-05	3.37E-02	2.09E-03	2.24E-02	4.66E-03	1.81E-03	0.00E+00	23.26	11.72	3	1.50	0.10	12.54	287.64	0.00	12.46
83	3	4.37E-05	2.92E-02	2.73E-03	1.53E-02	2.62E-03	3.41E-04	0.00E+00	17.94	10.50	3	1.38	0.31	10.84	305.86	0.00	17.28
84	4	3.88E-05	3.35E-02	2.15E-03	2.16E-02	9.93E-04	1.02E-03	0.00E+00	23.40	11.81	2	1.60	0.29	12.46	290.74	0.00	12.71
85	6	4.37E-05	3.29E-02	1.88E-03	1.99E-02	7.10E-04	5.11E-04	0.00E+00	31.74	13.09	4	1.38	0.17	12.24	310.40	0.00	13.57
86	4	4.85E-05	3.54E-02	2.25E-03	2.07E-02	1.92E-03	2.91E-04	0.00E+00	17.71	8.93	3	1.43	0.34	13.17	280.71	0.00	12.94
87	7	4.85E-05	3.46E-02	2.22E-03	2.00E-02	3.58E-04	3.61E-04	0.00E+00	31.70	12.17	3	1.51	0.18	12.87	301.66	0.00	13.30
88	5	4.85E-05	3.45E-02	2.11E-03	2.14E-02	2.28E-03	4.07E-04	0.00E+00	22.75	10.28	3	1.37	0.19	12.82	311.34	0.00	13.30
89	5	4.37E-05	3.49E-02	2.12E-03	2.11E-02	3.35E-04	4.82E-04	0.00E+00	24.99	11.29	3	1.51	0.26	12.96	299.26	0.00	13.59
90	9	4.85E-05	4.03E-02	2.49E-03	2.07E-02	3.01E-04	6.05E-04	0.00E+00	34.97	11.87	3	1.62	0.31	15.00	305.81	0.00	13.08
91	5	4.85E-05	3.37E-02	2.26E-03	2.13E-02	1.20E-03	1.46E-03	0.00E+00	23.24	10.52	3	1.41	0.39	12.54	306.86	0.00	13.60
92	10	4.85E-05	3.32E-02	2.11E-03	2.46E-02	5.07E-03	3.41E-03	0.00E+00	47.13	15.23	4	1.40	0.35	12.35	300.65	0.00	13.04
93	10	4.85E-05	3.43E-02	2.06E-03	2.15E-02	5.12E-03	1.02E-03	0.00E+00	45.64	14.72	4	1.58	0.29	12.75	311.50	0.00	13.14
94	7	4.85E-05	3.10E-02	2.52E-03	2.08E-02	0.00E+00	8.13E-04	0.00E+00	35.43	13.71	2	1.51	0.47	11.51	242.30	0.00	13.98
95	8	4.85E-05	3.52E-02	2.72E-03	2.45E-02	1.44E-03	1.29E-03	0.00E+00	35.58	12.89	3	1.41	0.20	13.10	291.17	0.00	12.98
96	4	4.85E-05	3.21E-02	2.07E-03	2.10E-02	0.00E+00	6.01E-04	0.00E+00	19.54	9.86	4	1.56	0.25	11.94	278.81	0.00	12.65
97	9	4.85E-05	3.27E-02	2.16E-03	1.85E-02	8.92E-04	3.21E-04	0.00E+00	43.03	14.64	3	1.53	0.16	12.18	291.99	0.00	14.47
98	3	4.85E-05	3.30E-02	2.16E-03	2.40E-02	4.28E-03	7.39E-04	0.00E+00	14.28	8.30	2	1.67	0.25	12.26	290.08	0.00	12.08
99	10	4.85E-05	3.35E-02	2.23E-03	2.29E-02	4.99E-04	4.05E-04	0.00E+00	46.76	15.14	4	1.44	0.35	12.45	294.07	0.00	12.66
100	7	4.85E-05	3.36E-02	2.19E-03	2.50E-02	3.50E-03	4.25E-03	0.00E+00	32.66	12.54	4	1.54	0.23	12.49	300.92	0.00	12.60
101	9	4.85E-05	3.39E-02	2.25E-03	2.32E-02	3.48E-03	1.45E-03	0.00E+00	41.60	14.16	4	1.51	0.25	12.60	304.00	0.00	13.01
102	8	4.85E-05	3.39E-02	2.16E-03	2.26E-02	1.73E-03	6.77E-04	0.00E+00	36.92	13.28	4	1.46	0.26	12.62	318.19	0.00	13.10
103	8	4.85E-05	3.16E-02	2.12E-03	2.23E-02	2.17E-03	1.09E-03	0.00E+00	39.64	14.28	4	1.44	0.39	11.75	295.09	0.00	13.09
104	9	4.85E-05	3.26E-02	1.98E-03	2.07E-02	1.78E-03	2.70E-04	0.00E+00	43.18	14.65	3	1.34	0.32	12.13	286.63	0.00	13.67
105	3	4.85E-05	3.31E-02	1.87E-03	2.34E-02	7.65E-04	4.31E-04	0.00E+00	14.23	8.26	3	1.53	0.35	12.31	293.95	0.00	13.01
106	3	4.85E-05	3.27E-02	1.77E-03	2.11E-02	0.00E+00	6.17E-04	0.00E+00	14.42	8.37	2	1.44	0.35	12.14	286.71	0.00	13.88
107	11	4.85E-05	4.06E-02	2.62E-03	2.09E-02	2.68E-03	5.48E-04	0.00E+00	42.40	13.10	4	1.49	0.34	15.10	294.50	0.00	13.10
108	9	3.88E-05	4.51E-02	5.76E-03	2.22E-02	2.40E-03	8.43E-04	0.00E+00	39.10	13.98	4	1.32	0.24	16.75	281.75	0.00	13.68
109	3	4.85E-05	3.24E-02	2.37E-03	2.30E-02	3.60E-03	1.21E-03	0.00E+00	14.55	8.47	2	1.27	0.24	12.03	292.42	0.00	13.67
110	7	4.85E-05	3.22E-02	1.89E-03	2.17E-02	3.27E-03	4.68E-04	0.00E+00	34.12	13.06	4	1.49	0.20	11.95	296.28	0.00	13.61
111	7	2.91E-05	3.33E-02	2.35E-03	2.32E-02	9.32E-04	7.18E-04	0.00E+00	54.82	21.10	4	1.35	0.33	12.38	300.03	0.00	12.39
112	5	3.40E-05	3.37E-02	2.30E-03	2.65E-02	1.79E-03	4.06E-04	0.00E+00	33.20	15.03	3	1.33	0.41	12.53	291.03	0.00	10.95
113	4	2.91E-05	3.69E-02	2.47E-03	2.24E-02	0.00E+00	6.87E-04	0.00E+00	28.30	14.28	3	1.61	0.35	13.73	298.60	0.00	12.22
114	4	3.88E-05	3.26E-02	2.30E-03	2.32E-02	1.52E-03	8.96E-04	0.00E+00	24.03	12.14	3	1.46	0.48	12.13	289.61	0.00	12.32
116	1	1.94E-05	3.44E-02	2.13E-03	2.31E-02	1.11E-03	6.14E-04	0.00E+00	11.42	11.44	2	1.23	0.19	12.78			

130	9	4.37E-05	3.30E-02	2.25E-03	2.53E-02	0.00E+00	4.99E-04	0.00E+00	47.38	16.14	4	1.55	0.16	12.28	307.56	0.00	13.30
131	5	4.85E-05	3.26E-02	2.04E-03	2.11E-02	0.00E+00	5.99E-04	0.00E+00	24.09	10.89	2	1.40	0.45	12.10	306.56	0.00	13.25
132	8	4.85E-05	3.16E-02	1.81E-03	2.10E-02	4.80E-04	5.22E-04	0.00E+00	39.71	14.24	4	1.43	0.32	11.73	305.52	0.00	13.97
133	5	4.85E-05	3.19E-02	2.25E-03	3.01E-02	0.00E+00	1.03E-03	0.00E+00	24.56	11.13	3	1.60	0.69	11.87	296.24	0.00	10.31
134	7	4.85E-05	3.12E-02	2.02E-03	2.66E-02	1.81E-03	1.08E-03	0.00E+00	35.16	13.50	3	1.48	0.25	11.60	315.21	0.00	11.68
135	4	4.85E-05	3.08E-02	1.95E-03	2.79E-02	5.12E-03	1.84E-03	0.00E+00	20.35	10.26	2	1.55	0.40	11.46	317.48	0.00	11.39
136	0	3.88E-05	3.24E-02	1.94E-03	2.65E-02	0.00E+00	5.68E-04	0.00E+00	0.00	9.07	1	1.68	0.28	12.06	323.30	0.00	11.10
137	5	4.85E-05	3.23E-02	2.02E-03	2.77E-02	1.76E-03	8.17E-04	0.00E+00	24.28	10.97	3	1.69	0.27	12.01	314.67	0.00	11.60
138	4	4.85E-05	3.66E-02	2.22E-03	2.29E-02	0.00E+00	4.57E-04	0.00E+00	17.17	8.65	3	1.75	0.40	13.59	306.57	0.00	12.40
139	5	4.85E-05	3.67E-02	2.53E-03	2.39E-02	1.69E-03	6.28E-04	0.00E+00	21.36	9.67	4	1.48	0.37	13.65	306.52	0.00	12.75
140	5	4.85E-05	3.83E-02	3.55E-03	2.03E-02	5.87E-04	4.13E-04	0.00E+00	20.50	9.37	4	1.62	0.27	14.23	304.08	0.00	14.12
141	8	4.85E-05	3.31E-02	2.22E-03	2.26E-02	1.80E-03	6.54E-04	0.00E+00	37.87	13.65	4	1.63	0.36	12.30	281.63	0.00	13.33
142	6	3.88E-05	3.22E-02	1.99E-03	2.26E-02	4.04E-03	5.20E-04	0.00E+00	36.45	15.06	4	1.40	0.28	11.99	315.63	0.00	14.33
143	2	4.85E-05	3.25E-02	1.89E-03	2.24E-02	1.51E-03	4.64E-04	0.00E+00	9.66	6.85	1	1.60	0.14	12.09	315.15	0.00	13.40
145	9	4.85E-05	3.33E-02	2.27E-03	2.18E-02	0.00E+00	4.85E-04	0.00E+00	42.27	14.40	3	1.41	0.21	12.40	327.58	0.00	13.55
146	8	4.85E-05	3.42E-02	2.29E-03	2.07E-02	0.00E+00	3.20E-04	0.00E+00	36.68	13.22	4	1.49	0.34	12.70	326.94	0.00	14.44
147	7	4.85E-05	3.38E-02	2.03E-03	2.11E-02	1.49E-03	6.40E-04	0.00E+00	32.41	12.42	4	1.62	0.32	12.58	325.92	0.00	14.66
148	5	4.85E-05	3.23E-02	2.27E-03	2.13E-02	7.15E-04	5.75E-04	0.00E+00	24.24	10.98	3	1.44	0.26	12.03	349.56	0.00	13.72
149	4	4.85E-05	3.23E-02	2.37E-03	2.46E-02	3.60E-03	2.99E-04	0.00E+00	19.42	9.82	2	1.39	0.33	12.02	308.13	0.00	13.22
150	5	4.85E-05	3.10E-02	2.43E-03	2.27E-02	4.90E-04	5.76E-04	0.00E+00	25.30	11.50	3	1.72	0.38	11.52	310.82	0.00	13.92
151	7	4.85E-05	3.13E-02	3.02E-03	2.32E-02	8.74E-04	9.46E-04	0.00E+00	35.07	13.70	3	1.99	0.39	11.63	321.58	0.00	13.54
152	7	4.85E-05	3.60E-02	1.82E-03	2.48E-02	1.35E-03	5.41E-04	0.00E+00	30.50	11.64	3	1.63	0.26	13.38	303.49	0.00	13.11
153	4	4.85E-05	3.03E-02	1.93E-03	2.64E-02	3.76E-03	4.25E-03	0.00E+00	20.69	10.44	3	1.54	0.24	11.28	282.06	0.00	14.36
154	5	4.85E-05	3.21E-02	1.70E-03	2.11E-02	7.13E-04	8.38E-04	0.00E+00	24.42	11.01	4	1.66	0.29	11.94	324.96	0.00	14.40
155	6	4.85E-05	3.49E-02	1.80E-03	2.12E-02	2.96E-03	2.22E-03	0.00E+00	26.97	11.11	3	1.51	0.27	12.97	328.52	0.00	14.87
156	5	4.85E-05	3.42E-02	2.25E-03	2.39E-02	2.00E-03	1.57E-03	0.00E+00	22.90	10.36	3	1.51	0.37	12.73	344.55	0.00	13.93
157	7	4.85E-05	3.28E-02	1.84E-03	2.39E-02	3.89E-03	1.53E-03	0.00E+00	33.49	12.81	4	1.63	0.36	12.18	344.99	0.00	13.73
158	8	4.85E-05	3.73E-02	2.27E-03	2.27E-02	1.55E-03	3.77E-04	0.00E+00	33.63	12.08	4	1.47	0.26	13.86	348.66	0.00	14.67
159	5	4.85E-05	3.30E-02	1.83E-03	2.26E-02	2.06E-03	4.77E-04	0.00E+00	23.79	10.73	3	1.69	0.33	12.26	316.13	0.00	14.01
160	7	4.85E-05	3.42E-02	2.24E-03	2.26E-02	9.36E-04	1.63E-03	0.00E+00	32.10	12.33	3	1.56	0.35	12.71	319.22	0.00	14.31
161	8	4.85E-05	3.25E-02	2.60E-03	2.31E-02	3.80E-04	5.99E-04	0.00E+00	38.51	13.97	4	1.57	0.28	12.10	284.98	0.00	13.33
162	7	4.85E-05	3.27E-02	1.92E-03	2.26E-02	0.00E+00	5.91E-04	0.00E+00	33.57	12.86	3	1.47	0.30	12.15	290.14	0.00	13.44
163	6	4.85E-05	3.27E-02	1.92E-03	2.30E-02	7.10E-04	1.21E-03	0.00E+00	28.74	11.87	4	1.57	0.32	12.17	295.95	0.00	13.66
164	6	4.85E-05	3.21E-02	1.75E-03	2.61E-02	7.64E-04	3.70E-04	0.00E+00	29.30	12.08	4	1.47	0.31	11.94	284.32	0.00	13.43
165	9	4.85E-05	3.63E-02	4.44E-03	2.42E-02	1.74E-03	4.34E-04	0.00E+00	38.80	13.79	3	1.51	0.44	13.51	292.36	0.00	13.92
166	5	4.85E-05	3.28E-02	2.25E-03	2.61E-02	2.09E-03	2.05E-04	0.00E+00	23.93	10.84	4	1.90	0.25	12.18	301.99	0.00	12.05
167	9	4.85E-05	3.24E-02	1.99E-03	2.93E-02	3.22E-03	8.87E-04	0.00E+00	43.47	14.76	4	1.77	0.23	12.05	296.16	0.00	11.06
168	10	4.85E-05	3.34E-02	1.98E-03	2.99E-02	0.00E+00	2.64E-04	0.00E+00	46.80	15.08	4	1.48	0.19	12.44	299.70	0.00	10.49
169	6	3.88E-05	3.14E-02	2.02E-03	2.56E-02	0.00E+00	1.07E-03	0.00E+00	37.39	15.47	3	1.61	0.28	11.68	304.06	0.00	11.69
170	7	4.85E-05	3.27E-02	2.25E-03	2.45E-02	2.24E-03	2.99E-04	0.00E+00	33.56	12.91	4	1.46	0.29	12.15	291.16	0.00	13.52
171	7	4.85E-05	3.37E-02	2.22E-03	2.42E-02	1.43E-03	4.48E-04	0.00E+00	32.52	12.49	3	1.71	0.33	12.54	294.02	0.00	13.17
172	3	2.91E-05	3.37E-02	1.91E-03	2.40E-02	6.96E-04	1.60E-03	0.00E+00	23.30	13.52	3	1.58	0.33	12.51	284.58	0.00	13.54
173	6	4.85E-05	3.41E-02	2.20E-03	2.48E-02	0.00E+00	1.01E-03	0.00E+00	27.60	11.42	4	1.74	0.28	12.67	255.25	0.00	13.24
174	6	4.85E-05	3.39E-02	2.73E-03	2.61E-02	1.24E-03	9.73E-04	0.00E+00	27.71	11.54	3	1.90	0.50	12.62	247.79	0.00	13.01
176	5	4.85E-05	3.53E-02	3.60E-03	2.48E-02	1.32E-03	4.06E-04	0.00E+00	22.24	10.21	4	1.46	0.22	13.11	266.30	0.00	13.63
177	5	4.85E-05	3.17E-02	2.25E-03	2.66E-02	1.52E-03	7.33E-04	0.00E+00	24.71	11.20	3	1.66	0.29	11.80	277.76	0.00	13.18
178	5	4.85E-05	3.54E-02	2.19E-03	2.30E-02	1.95E-03	6.73E-04	0.00E+00	22.15	10.01	4	1.43	0.27	13.17	273.10	0.00	13.76
179	8	4.85E-05	3.33E-02	2.09E-03	2.28E-02	2.26E-03	3.09E-04	0.00E+00	37.68	13.55	3	1.62	0.42	12.37	279.58	0.00	13.17
180	6	4.85E-05	3.33E-02	2.19E-03	2.33E-02	1.85E-03	5.26E-04	0.00E+00	28.27	11.70	4	1.28	0.13	12.37	334.22	0.00	14.28
181	5	4.85E-05	3.08E-02	1.86E-03	2.49E-02	3.52E-03	1.76E-03	0.00E+00	25.45	11.49	3	1.36	0.25	11.46	321.82	0.00	14.17
182	9	4.85E-05	3.31E-02	2.24E-03	2.38E-02	3.23E-03	1.03E-03	0.00E+00	42.52	14.49	4	1.54	0.22	12.32	332.58	0.00	14.81
183	5	4.85E-05	3.44E-02	2.20E-03	2.80E-02	4.93E-04	2.75E-04	0.00E+00	22.80	10.31	4	1.61	0.36	12.79	309.13	0.00	12.95
184	8	4.85E-05	3.25E-02	1.69E-03	2.53E-02	1.79E-03	1.13E-03	0.00E+00	38.56	13.80	4	1.50	0.17	12.08	309.52	0.00	13.67
185	3	4.85E-05	3.29E-02	1.88E-03	2.58E-02	3.55E-03	8.81E-04	0.00E+00	14.32	8.31	3	1.52	0.27	12.23	283.38	0.00	12.70
186	8	4.85E-05	3.25E-02	2.14E-03	2.36E-02	1.94E-03	5.17E-04	0.00E+00	38.57	13.89	4	1.38	0.32	12.08	288.47	0.00	13.40
188	5	4.85E-05	3.30E-02	2.25E-03	2.24E-02	5.00E-04	7.81E-04	0.00E+00	23.74	10.75	3	1.57	0.27	12.28	290.66	0.00	13.30
189	7	4.85E-05	3.12E-02	2.15E-03	2.46E-02	7.75E-04	9.21E-04	0.00E+00	35.17	13.53	3	1.48	0.27	11.60	306.53	0.00	13.62
190	5	4.85E-05	3.40E-02	2.08E-03	2.61E-02	0.00E+00	1.00E-03	0.00E+00	23.04	10.41	3	1.45	0.25	12.66	318.27	0.00	12.94
191	3	4.85E-05	3.20E-02	1.82E-03	2.56E-02	0.00E+00	7.09E-04	0.00E+00	14.73	8.55	2	1.53	0.27	11.88	313.68	0.00	12.53
192	3	3.88E-05	3.26E-02	2.08E-03	2.37E-02	7.43E-04	7.57E-04	0.00E+00	18.03	10.48	3	1.63	0.38	12.13	266.59	0.00	13.10
193	3	4.85E-05	3.01E-02	1.84E-03	2.56E-02	1.10E-03	1.19E-03	0.00E+00	15.62	9.07	3	1.50	0.28	11.21	259.09	0.00	13.26
194	4	4.85E-05	3.25E-02	1.92E-03	2.39E-02	0.00E+00	5.25E-04	0.00E+00	19.33	9.74	3	1.64	0.26	12.07	266.99	0.00	13.20
195	5	4.85E-05	3.26E-02	2.16E-03	2.73E-02	1.11E-03	4.11E-04	0.00E+00	24.05	10.88	3	1.71	0.21	12.12	281.83	0.00	11.73
196	9	4.85E-05	3.21E-02	2.02E-03	2.41E-02	0.00E+00	1.22E-03	0.00E+00	43.								

210	7	4.85E-05	3.63E-02	2.58E-03	2.71E-02	1.07E-02	3.92E-03	0.00E+00	30.19	11.62	4	1.39	0.32	13.51	312.32	0.00	14.37
211	6	4.85E-05	3.11E-02	1.95E-03	2.41E-02	2.23E-03	1.15E-03	0.00E+00	30.25	12.51	4	1.38	0.26	11.56	289.86	0.00	13.72
212	4	4.85E-05	2.95E-02	2.21E-03	2.69E-02	2.49E-03	2.27E-03	0.00E+00	21.26	10.76	4	1.58	0.23	10.97	282.42	0.00	14.40
213	5	4.85E-05	3.19E-02	2.56E-03	2.46E-02	8.75E-04	2.47E-03	0.00E+00	24.55	11.16	3	1.49	0.24	11.88	296.71	0.00	15.14
214	8	4.85E-05	3.00E-02	2.50E-03	2.63E-02	5.90E-03	2.82E-03	0.00E+00	41.82	15.21	4	1.41	0.25	11.14	295.34	0.00	14.31
215	6	4.85E-05	3.36E-02	4.04E-03	2.45E-02	3.33E-04	2.45E-03	0.00E+00	27.95	11.91	4	1.44	0.18	12.51	305.91	0.00	14.18
216	8	4.85E-05	3.19E-02	3.13E-03	2.15E-02	0.00E+00	2.17E-04	0.00E+00	39.26	14.42	4	1.45	0.27	11.87	305.73	0.00	14.78
217	4	4.85E-05	3.04E-02	2.41E-03	2.31E-02	1.75E-03	4.93E-04	0.00E+00	20.63	10.45	3	1.51	0.25	11.31	303.47	0.00	14.89
218	3	4.85E-05	3.39E-02	3.73E-03	2.70E-02	4.54E-03	7.98E-04	0.00E+00	13.90	8.17	3	1.55	0.24	12.60	337.36	0.00	13.74
219	7	4.85E-05	3.15E-02	2.63E-03	2.62E-02	7.29E-04	1.77E-03	0.00E+00	34.83	13.50	4	1.57	0.19	11.71	308.04	0.00	14.36
220	5	4.85E-05	3.13E-02	1.78E-03	2.24E-02	2.12E-03	3.83E-04	0.00E+00	25.05	11.30	3	1.47	0.25	11.64	316.87	0.00	14.31
221	8	4.85E-05	3.30E-02	1.99E-03	2.71E-02	3.50E-03	4.49E-03	0.00E+00	38.02	13.66	3	1.44	0.34	12.26	326.42	0.00	14.24
222	1	4.37E-05	3.24E-02	2.49E-03	3.20E-02	3.02E-03	9.22E-04	0.00E+00	5.38	5.40	2	1.44	0.19	12.06	292.09	0.00	11.21
223	5	4.85E-05	3.06E-02	2.04E-03	2.45E-02	4.99E-04	8.16E-04	0.00E+00	25.59	11.58	3	1.62	0.33	11.39	270.62	0.00	14.37
224	6	4.85E-05	3.15E-02	1.62E-03	2.56E-02	4.83E-03	2.52E-03	0.00E+00	29.88	12.31	4	1.40	0.32	11.70	262.07	0.00	14.61
225	2	4.85E-05	3.18E-02	1.90E-03	2.60E-02	3.50E-04	1.41E-03	0.00E+00	9.88	7.01	3	1.44	0.43	11.81	267.42	0.00	14.26
226	4	4.85E-05	3.74E-02	2.18E-03	2.53E-02	4.05E-04	4.72E-04	0.00E+00	16.77	8.45	4	1.45	0.20	13.92	286.55	0.00	13.95
227	6	4.85E-05	3.26E-02	2.14E-03	2.63E-02	9.53E-04	7.61E-04	0.00E+00	28.84	11.94	3	1.20	0.27	12.13	266.42	0.00	13.60
228	9	4.85E-05	4.02E-02	2.44E-03	2.38E-02	0.00E+00	4.95E-04	0.00E+00	35.10	11.91	4	1.60	0.26	14.94	345.66	0.00	15.13
229	6	4.85E-05	3.93E-02	2.57E-03	2.50E-02	5.71E-04	1.76E-03	0.00E+00	23.97	9.92	4	1.45	0.28	14.60	349.36	0.00	14.14
230	9	4.85E-05	3.21E-02	1.94E-03	2.40E-02	1.80E-03	5.19E-04	0.00E+00	43.86	14.88	3	1.44	0.20	11.95	318.39	0.00	15.19
231	10	4.85E-05	3.40E-02	1.73E-03	2.46E-02	1.67E-03	9.13E-04	0.00E+00	45.99	14.75	3	1.41	0.21	12.66	317.06	0.00	14.50
232	7	4.85E-05	3.35E-02	2.12E-03	2.36E-02	3.27E-03	1.99E-03	0.00E+00	32.74	12.56	3	1.44	0.21	12.46	312.47	0.00	14.95
233	9	4.85E-05	3.06E-02	1.50E-03	2.39E-02	2.94E-03	3.64E-04	0.00E+00	46.10	15.56	4	1.63	0.31	11.36	293.76	0.00	14.66
234	8	4.85E-05	3.17E-02	2.97E-03	2.03E-02	3.01E-03	1.23E-03	0.00E+00	39.50	14.47	4	1.47	0.31	11.79	290.84	0.00	18.45
235	12	4.85E-05	3.40E-02	2.75E-03	2.67E-02	2.27E-03	8.00E-04	0.00E+00	55.22	16.58	4	1.57	0.22	12.64	304.88	0.00	13.50
236	8	4.85E-05	3.01E-02	2.54E-03	2.49E-02	4.51E-03	1.27E-03	0.00E+00	41.58	15.13	4	1.55	0.25	11.20	253.80	0.00	14.03
237	8	4.85E-05	3.05E-02	2.09E-03	2.80E-02	2.59E-03	1.53E-03	0.00E+00	41.04	14.80	4	1.41	0.23	11.35	264.61	0.00	13.88
238	10	4.85E-05	3.25E-02	2.40E-03	2.52E-02	3.37E-03	2.81E-03	0.00E+00	48.11	15.65	3	1.46	0.24	12.10	269.88	0.00	15.04
239	7	4.85E-05	3.16E-02	2.08E-03	2.54E-02	0.00E+00	7.09E-04	0.00E+00	34.72	13.34	3	1.48	0.31	11.74	269.77	0.00	12.93
240	5	3.88E-05	3.41E-02	1.98E-03	2.84E-02	6.99E-04	9.89E-04	0.00E+00	28.76	12.98	4	1.47	0.25	12.67	269.43	0.00	13.84
241	6	4.85E-05	3.37E-02	2.15E-03	2.81E-02	1.18E-03	8.67E-04	0.00E+00	27.87	11.53	3	1.39	0.28	12.55	276.71	0.00	12.42
242	6	4.85E-05	3.53E-02	2.52E-03	2.85E-02	1.02E-03	6.09E-04	0.00E+00	26.68	11.07	4	1.64	0.23	13.11	317.67	0.00	12.16
243	8	4.85E-05	3.27E-02	2.06E-03	2.96E-02	2.36E-03	1.00E-03	0.00E+00	38.28	13.76	4	1.43	0.29	12.17	298.16	0.00	12.30
244	7	4.85E-05	3.23E-02	2.07E-03	2.83E-02	2.67E-03	1.60E-03	0.00E+00	33.96	13.03	3	1.30	0.42	12.01	301.29	0.00	12.24
245	5	4.85E-05	3.12E-02	1.83E-03	2.78E-02	7.49E-04	8.55E-04	0.00E+00	25.10	11.33	2	1.60	0.32	11.62	286.53	0.00	13.55
246	6	4.37E-05	3.40E-02	2.21E-03	2.35E-02	8.87E-04	9.26E-05	0.00E+00	30.75	12.72	3	1.59	0.33	12.64	290.16	0.00	14.04
247	4	3.88E-05	3.40E-02	1.82E-03	2.53E-02	4.36E-04	8.44E-04	0.00E+00	23.04	11.60	2	1.32	0.42	12.65	285.33	0.00	14.27
248	9	4.85E-05	3.08E-02	1.85E-03	2.65E-02	1.04E-03	6.68E-04	0.00E+00	45.77	15.53	3	1.46	0.37	11.45	285.53	0.00	13.27
249	7	4.85E-05	2.81E-02	2.04E-03	2.13E-02	0.00E+00	4.47E-04	0.00E+00	39.02	15.03	2	1.46	0.29	10.45	280.09	0.00	16.00
250	8	4.85E-05	3.15E-02	1.91E-03	2.87E-02	3.09E-03	1.16E-03	0.00E+00	39.73	14.27	4	1.59	0.36	11.73	280.37	0.00	12.50
251	9	4.85E-05	3.21E-02	2.04E-03	2.80E-02	5.17E-04	8.49E-04	0.00E+00	43.92	14.92	3	1.33	0.32	11.93	279.33	0.00	12.75
252	8	4.85E-05	3.18E-02	2.20E-03	2.87E-02	2.32E-03	1.75E-03	0.00E+00	39.45	14.23	4	1.50	0.18	11.81	281.67	0.00	12.68
253	6	4.85E-05	3.01E-02	2.12E-03	2.49E-02	2.35E-03	4.80E-04	0.00E+00	31.29	12.98	3	1.55	0.24	11.17	267.79	0.00	13.49
254	4	4.85E-05	2.91E-02	2.10E-03	2.83E-02	2.32E-03	2.55E-03	0.00E+00	21.58	10.91	3	1.33	0.32	10.81	275.74	0.00	13.33
255	4	4.85E-05	3.11E-02	1.84E-03	2.70E-02	3.17E-03	5.60E-04	0.00E+00	20.17	10.16	3	1.35	0.36	11.56	287.30	0.00	13.40
256	8	4.85E-05	3.36E-02	2.32E-03	2.67E-02	9.34E-04	5.53E-04	0.00E+00	37.26	13.44	1	1.45	0.41	12.51	294.44	0.00	13.46
257	6	3.88E-05	3.07E-02	2.11E-03	2.65E-02	2.27E-03	1.22E-03	0.00E+00	38.23	15.84	4	1.54	0.30	11.43	278.51	0.00	13.66
259	7	4.85E-05	3.44E-02	2.51E-03	2.70E-02	3.60E-03	1.11E-03	0.00E+00	31.93	12.30	1	1.62	0.31	12.78	262.20	0.00	13.32
260	3	4.85E-05	3.29E-02	2.22E-03	2.53E-02	0.00E+00	8.82E-04	0.00E+00	14.33	8.33	2	1.46	0.18	12.22	272.50	0.00	13.51
261	4	4.85E-05	3.20E-02	2.14E-03	2.78E-02	1.55E-03	6.84E-04	0.00E+00	19.64	9.91	4	1.55	0.21	11.88	275.65	0.00	12.81
264	8	4.85E-05	3.23E-02	1.84E-03	2.67E-02	0.00E+00	1.72E-04	0.00E+00	38.82	13.92	4	1.55	0.38	12.00	291.00	0.00	12.83
265	6	4.85E-05	2.99E-02	1.76E-03	2.61E-02	1.07E-03	7.12E-04	0.00E+00	31.43	12.98	4	1.42	0.33	11.12	276.93	0.00	13.73
266	6	4.37E-05	3.14E-02	1.99E-03	2.59E-02	1.00E-03	1.05E-03	0.00E+00	33.26	13.75	3	1.39	0.31	11.68	270.20	0.00	13.93
267	11	4.85E-05	3.16E-02	1.76E-03	2.51E-02	0.00E+00	8.28E-04	0.00E+00	54.50	16.74	4	1.49	0.26	11.74	256.80	0.00	14.20
268	9	4.85E-05	3.04E-02	1.95E-03	2.54E-02	1.93E-03	1.38E-03	0.00E+00	46.37	15.76	3	1.41	0.27	11.30	249.08	0.00	14.01
269	6	4.85E-05	3.10E-02	2.05E-03	2.59E-02	1.52E-03	9.47E-04	0.00E+00	30.34	12.56	3	1.35	0.24	11.52	276.26	0.00	13.43
270	7	4.85E-05	3.28E-02	2.42E-03	2.49E-02	9.74E-04	4.19E-04	0.00E+00	33.48	12.91	4	1.51	0.27	12.18	299.30	0.00	13.77
271	4	4.85E-05	3.19E-02	2.04E-03	2.85E-02	1.20E-03	1.22E-03	0.00E+00	19.67	9.92	4	1.39	0.23	11.86	294.79	0.00	12.91
272	9	4.85E-05	3.16E-02	2.06E-03	2.85E-02	2.52E-03	2.69E-03	0.00E+00	44.60	15.17	4	1.50	0.26	11.75	291.21	0.00	13.81
273	7	4.85E-05	3.61E-02	2.94E-03	2.39E-02	0.00E+00	6.55E-04	0.00E+00	30.41	11.77	4	1.43	0.36	13.41	310.29	0.00	14.32
274	3	4.85E-05	3.25E-02	2.32E-03	2.39E-02	1.14E-03	7.15E-04	0.00E+00	14.48	8.43	3	1.39	0.28	12.09	300.24	0.00	14.25
275	9	4.85E-05	3.99E-02	2.35E-03	2.58E-02	0.00E+00	6.28E-04	0.00E+00	35.37	11.99	4	1.62	0.32	14.82	327.03	0.00	13.04
276	5	4.85E-05	3.93E-02	2.67E-03	2.76E-02	2.89E-03	3.59E-04	0.00E+00									

291	9	4.37E-05	3.12E-02	2.26E-03	2.48E-02	4.51E-03	1.36E-03	0.00E+00	50.19	17.15	3	1.44	0.21	11.60	257.76	0.00	14.05
292	3	3.88E-05	3.10E-02	1.99E-03	2.53E-02	3.09E-03	7.97E-04	0.00E+00	18.97	11.03	3	1.52	0.31	11.53	261.66	0.00	13.74
293	8	4.85E-05	3.18E-02	2.12E-03	2.40E-02	4.77E-04	7.46E-04	0.00E+00	39.43	14.21	2	1.53	0.38	11.82	275.61	0.00	13.96
294	7	4.85E-05	3.32E-02	2.21E-03	2.77E-02	3.49E-03	2.04E-03	0.00E+00	33.05	12.70	3	1.43	0.26	12.34	291.60	0.00	13.29
295	7	4.85E-05	3.13E-02	1.88E-03	2.73E-02	1.93E-03	2.18E-03	0.00E+00	35.02	13.42	4	1.45	0.24	11.64	276.88	0.00	13.66
296	8	4.85E-05	3.31E-02	2.11E-03	2.67E-02	0.00E+00	2.52E-03	0.00E+00	37.82	13.60	4	1.51	0.29	12.32	269.41	0.00	13.98
297	4	2.91E-05	3.12E-02	1.90E-03	2.39E-02	4.69E-04	1.06E-03	0.00E+00	33.51	16.89	3	1.49	0.22	11.59	271.09	0.00	14.45
298	4	4.85E-05	3.13E-02	1.96E-03	2.70E-02	0.00E+00	1.56E-03	0.00E+00	20.02	10.09	2	1.29	0.26	11.66	289.44	0.00	13.61
299	4	4.85E-05	3.17E-02	2.15E-03	2.64E-02	4.01E-04	9.32E-04	0.00E+00	19.81	10.00	3	1.41	0.36	11.78	282.33	0.00	12.97
300	6	4.85E-05	3.15E-02	1.99E-03	2.93E-02	0.00E+00	9.32E-04	0.00E+00	29.84	12.34	4	1.48	0.32	11.72	289.46	0.00	13.30
301	4	4.85E-05	3.19E-02	1.76E-03	2.71E-02	1.17E-03	6.58E-04	0.00E+00	19.67	9.90	3	1.41	0.40	11.86	280.27	0.00	13.19
302	7	4.85E-05	3.13E-02	1.85E-03	2.66E-02	2.21E-03	1.91E-03	0.00E+00	35.00	13.40	3	1.44	0.36	11.65	282.37	0.00	13.77
303	3	4.85E-05	3.38E-02	2.41E-03	2.41E-02	7.94E-04	8.70E-04	0.00E+00	13.95	8.12	3	1.34	0.22	12.55	282.87	0.00	13.81
304	8	4.85E-05	3.33E-02	2.54E-03	2.59E-02	6.80E-04	5.84E-04	0.00E+00	37.64	13.63	3	1.34	0.34	12.38	267.19	0.00	14.02
305	8	4.85E-05	3.34E-02	2.63E-03	2.65E-02	6.74E-04	3.75E-04	0.00E+00	37.54	13.61	3	1.47	0.24	12.41	278.41	0.00	14.10
306	4	4.85E-05	3.16E-02	1.89E-03	2.93E-02	0.00E+00	3.84E-04	0.00E+00	19.85	10.00	3	1.72	0.37	11.75	275.65	0.00	12.33
307	9	4.85E-05	3.23E-02	2.08E-03	2.75E-02	2.27E-03	8.90E-04	0.00E+00	43.66	14.85	4	1.66	0.26	12.00	271.57	0.00	13.47
308	5	3.88E-05	3.08E-02	1.93E-03	2.98E-02	1.71E-03	1.78E-03	0.00E+00	31.82	14.38	2	1.51	0.32	11.45	261.95	0.00	13.58
309	7	4.85E-05	3.42E-02	2.22E-03	2.67E-02	1.76E-03	6.68E-04	0.00E+00	32.11	12.33	2	1.30	0.26	12.70	265.26	0.00	13.71
310	6	4.85E-05	3.27E-02	2.33E-03	3.04E-02	3.52E-03	4.90E-03	0.00E+00	28.73	11.92	4	1.50	0.36	12.17	272.14	0.00	13.80
311	7	4.85E-05	3.28E-02	3.32E-03	2.71E-02	1.05E-03	7.25E-04	0.00E+00	33.47	13.11	3	1.53	0.34	12.19	273.96	0.00	13.89
312	12	4.85E-05	3.47E-02	3.42E-03	2.97E-02	2.70E-03	1.18E-03	0.00E+00	54.17	16.55	3	1.66	0.32	12.89	265.01	0.00	13.57
313	7	4.85E-05	3.41E-02	2.46E-03	2.96E-02	6.97E-04	1.56E-03	0.00E+00	32.17	12.39	4	1.51	0.29	12.68	286.78	0.00	13.35
314	9	4.85E-05	3.09E-02	2.20E-03	2.78E-02	1.04E-03	3.73E-04	0.00E+00	45.57	15.56	4	1.46	0.23	11.50	260.81	0.00	13.70
315	10	4.85E-05	3.38E-02	2.87E-03	2.71E-02	1.09E-03	3.62E-04	0.00E+00	46.36	15.20	2	1.56	0.30	12.55	265.55	0.00	13.47
316	9	4.85E-05	3.20E-02	2.38E-03	2.06E-02	0.00E+00	2.14E-04	0.00E+00	43.98	15.04	3	1.42	0.14	11.91	297.35	0.00	12.45
317	4	2.91E-05	3.23E-02	1.55E-03	2.02E-02	4.94E-04	6.05E-04	0.00E+00	32.31	16.24	3	1.48	0.30	12.02	302.04	0.00	13.75
318	5	3.88E-05	3.15E-02	1.74E-03	2.18E-02	0.00E+00	4.94E-04	0.00E+00	31.11	14.03	4	1.48	0.44	11.71	280.73	0.00	14.15
319	7	4.85E-05	3.30E-02	1.53E-03	2.23E-02	1.39E-03	2.27E-03	0.00E+00	33.27	12.68	3	1.32	0.34	12.26	317.57	0.00	14.39
320	5	3.88E-05	3.39E-02	2.05E-03	2.48E-02	3.64E-03	1.95E-03	0.00E+00	28.87	13.04	3	1.67	0.31	12.62	331.13	0.00	13.73
321	9	4.85E-05	3.09E-02	1.82E-03	2.11E-02	2.16E-03	5.92E-04	0.00E+00	45.58	15.45	4	1.53	0.32	11.50	313.61	0.00	15.05
322	8	4.85E-05	3.29E-02	1.86E-03	2.51E-02	2.78E-03	1.63E-03	0.00E+00	38.05	13.64	3	1.60	0.36	12.25	321.78	0.00	13.19
323	4	2.91E-05	3.18E-02	2.26E-03	2.37E-02	0.00E+00	7.10E-04	0.00E+00	32.85	16.60	3	1.47	0.25	11.83	321.46	0.00	13.56
324	3	2.43E-05	3.03E-02	1.46E-03	2.31E-02	1.59E-03	8.00E-04	0.00E+00	31.08	18.01	3	1.29	0.18	11.25	296.54	0.00	13.23
325	2	3.40E-05	3.14E-02	1.78E-03	2.73E-02	4.38E-03	2.05E-03	0.00E+00	14.26	10.12	3	1.71	0.39	11.69	303.78	0.00	13.81
326	11	2.91E-05	3.01E-02	1.80E-03	2.05E-02	0.00E+00	2.38E-04	0.00E+00	95.03	29.26	3	1.40	0.34	11.19	294.03	0.00	14.57
327	6	4.85E-05	3.31E-02	2.07E-03	3.25E-02	2.41E-03	2.29E-03	0.00E+00	28.42	11.75	3	1.63	0.27	12.31	300.07	0.00	10.62
328	7	4.85E-05	3.29E-02	2.41E-03	2.64E-02	2.33E-03	1.40E-03	0.00E+00	33.35	12.85	4	1.49	0.29	12.23	309.44	0.00	11.96
329	3	3.88E-05	3.28E-02	2.01E-03	2.81E-02	2.00E-03	3.39E-03	0.00E+00	17.96	10.43	3	1.74	0.40	12.18	310.32	0.00	12.93
330	5	4.85E-05	2.89E-02	1.88E-03	2.49E-02	1.06E-03	1.67E-03	0.00E+00	27.16	12.29	4	1.48	0.35	10.73	276.24	0.00	13.89
331	5	4.85E-05	2.91E-02	1.87E-03	2.64E-02	6.34E-03	4.26E-03	0.00E+00	26.98	12.20	3	1.70	0.21	10.80	265.76	0.00	14.92
332	4	4.85E-05	3.27E-02	2.12E-03	2.50E-02	2.09E-03	2.77E-03	0.00E+00	19.21	9.69	4	1.55	0.29	12.14	302.94	0.00	13.91
333	10	4.37E-05	3.12E-02	2.00E-03	2.41E-02	3.75E-03	1.11E-03	0.00E+00	55.66	17.99	4	1.56	0.39	11.61	299.06	0.00	14.01
334	2	2.91E-05	3.64E-02	2.18E-03	2.71E-02	1.30E-03	2.01E-03	0.00E+00	14.38	10.21	2	1.42	0.24	13.52	290.04	0.00	13.39
335	4	4.85E-05	3.44E-02	2.08E-03	2.56E-02	2.67E-03	3.06E-03	0.00E+00	18.24	9.19	4	1.57	0.31	12.79	301.30	0.00	13.80
336	3	1.75E-05	3.50E-02	2.29E-03	2.45E-02	2.46E-03	2.19E-03	0.00E+00	37.31	21.69	3	1.82	0.26	13.01	297.37	0.00	14.74
337	7	4.85E-05	3.05E-02	1.82E-03	2.34E-02	9.74E-04	3.69E-04	0.00E+00	36.00	13.79	3	1.80	0.40	11.33	258.74	0.00	14.26
338	7	4.85E-05	3.19E-02	1.85E-03	2.49E-02	1.80E-03	8.32E-04	0.00E+00	34.39	13.17	3	1.39	0.39	11.86	288.80	0.00	14.36
339	8	3.88E-05	3.05E-02	1.99E-03	2.50E-02	2.91E-03	3.09E-04	0.00E+00	51.31	18.47	4	1.50	0.34	11.34	315.55	0.00	14.30
340	5	3.40E-05	3.13E-02	2.19E-03	2.80E-02	8.55E-03	5.17E-03	0.00E+00	35.77	16.20	3	1.58	0.34	11.63	309.85	0.00	14.58
341	3	2.43E-05	2.79E-02	1.72E-03	2.11E-02	3.72E-03	2.99E-03	0.00E+00	33.72	19.59	3	1.47	0.41	10.37	289.60	0.00	19.62
342	6	4.37E-05	3.56E-02	2.26E-03	2.60E-02	1.02E-03	6.64E-04	0.00E+00	29.33	12.13	4	1.47	0.36	13.25	285.89	0.00	13.63
343	7	4.85E-05	3.52E-02	2.32E-03	2.45E-02	4.35E-04	6.83E-04	0.00E+00	31.21	11.99	3	1.56	0.34	13.07	300.22	0.00	14.35
344	1	1.94E-05	3.36E-02	2.06E-03	2.63E-02	1.89E-03	1.23E-03	0.00E+00	11.66	11.69	2	1.65	0.51	12.51	292.33	0.00	13.79
345	3	2.91E-05	3.12E-02	2.22E-03	2.64E-02	4.19E-03	6.77E-04	0.00E+00	25.10	14.61	3	1.46	0.23	11.62	303.71	0.00	14.69
346	8	4.85E-05	3.11E-02	2.66E-03	2.50E-02	2.52E-03	7.64E-04	0.00E+00	40.25	14.66	3	1.51	0.17	11.57	313.93	0.00	14.71
347	8	4.85E-05	3.16E-02	2.58E-03	2.88E-02	3.77E-03	4.73E-03	0.00E+00	39.65	14.41	2	1.62	0.24	11.75	310.48	0.00	14.65
348	14	4.85E-05	3.19E-02	2.02E-03	2.63E-02	0.00E+00	6.32E-04	0.00E+00	68.58	18.88	4	1.41	0.18	11.86	291.84	0.00	13.31
349	6	4.85E-05	3.12E-02	2.00E-03	3.43E-02	1.02E-02	5.20E-03	0.00E+00	30.10	12.45	4	1.55	0.27	11.62	293.45	0.00	13.41
350	8	4.37E-05	3.23E-02	2.36E-03	2.63E-02	4.63E-04	1.44E-03	0.00E+00	43.04	15.56	3	1.50	0.30	12.02	265.34	0.00	14.14
351	4	4.85E-05	3.14E-02	1.60E-03	2.57E-02	1.51E-03	7.42E-04	0.00E+00	20.00	10.06	2	1.38	0.23	11.67	326.28	0.00	14.50
352	5	4.85E-05	3.16E-02	2.21E-03	2.62E-02	6.02E-03	1.18E-03	0.00E+00	24.78	11.22	3	1.45	0.26	11.77	315.56	0.00	15.01
353	8	4.85E-05	3.11E-02	1.75E-03	2.69E-02	3.36E-03	2.12E-03	0.00E+00	40.27	14.44	3	1.60	0.29	11.57	321.12	0.00	14.65
354	6	4.85E-05	3.32E-02	1.99E-03	2.75E-02	4.09E-03	3.42E-03	0.00									

368	6	4.85E-05	3.16E-02	1.81E-03	2.51E-02	0.00E+00	8.90E-04	0.00E+00	29.79	12.29	3	1.44	0.42	11.74	309.62	0.00	14.94
369	7	4.85E-05	2.97E-02	2.94E-03	2.49E-02	3.40E-03	2.00E-03	0.00E+00	36.98	14.47	4	1.38	0.34	11.03	283.38	0.00	15.74
370	4	4.85E-05	3.16E-02	2.12E-03	2.57E-02	3.88E-03	1.79E-03	0.00E+00	19.84	10.01	4	1.61	0.28	11.76	298.48	0.00	15.68
371	11	4.85E-05	3.24E-02	2.29E-03	2.59E-02	2.86E-03	1.47E-03	0.00E+00	53.20	16.51	4	1.25	0.24	12.03	260.89	0.00	14.28
372	6	4.85E-05	3.16E-02	1.84E-03	3.41E-02	9.55E-03	7.07E-03	0.00E+00	29.73	12.27	3	1.47	0.18	11.76	252.34	0.00	13.49
373	5	4.85E-05	3.59E-02	1.92E-03	3.03E-02	9.13E-04	6.42E-04	0.00E+00	21.86	9.85	3	1.47	0.27	13.34	268.52	0.00	13.41
374	3	3.40E-05	3.09E-02	1.91E-03	2.81E-02	4.35E-03	3.31E-03	0.00E+00	21.77	12.65	3	1.48	0.42	11.48	281.30	0.00	15.78
375	5	4.85E-05	3.28E-02	2.01E-03	2.66E-02	9.67E-04	1.05E-03	0.00E+00	23.89	10.79	3	1.42	0.27	12.20	284.48	0.00	15.00
376	7	4.85E-05	3.13E-02	1.59E-03	2.60E-02	7.07E-04	3.97E-04	0.00E+00	35.00	13.36	3	1.47	0.33	11.65	285.47	0.00	14.87
377	8	4.85E-05	3.39E-02	2.43E-03	2.61E-02	7.34E-04	5.83E-04	0.00E+00	36.92	13.34	3	1.86	0.33	12.62	292.06	0.00	14.85
378	5	3.88E-05	3.06E-02	1.99E-03	2.86E-02	3.57E-03	2.90E-03	0.00E+00	32.03	14.48	3	1.61	0.19	11.37	303.22	0.00	15.50
379	11	4.85E-05	3.35E-02	2.15E-03	2.45E-02	4.26E-04	3.87E-04	0.00E+00	51.39	15.87	4	1.41	0.29	12.45	295.62	0.00	15.41
380	8	4.85E-05	3.39E-02	1.85E-03	3.09E-02	1.41E-03	5.44E-03	0.00E+00	36.96	13.24	2	1.74	0.19	12.61	301.91	0.00	14.41
381	7	3.88E-05	3.37E-02	2.00E-03	2.79E-02	2.08E-03	2.65E-03	0.00E+00	40.72	15.60	4	1.42	0.29	12.51	298.05	0.00	14.91
382	3	3.40E-05	3.44E-02	1.98E-03	3.06E-02	2.08E-03	4.26E-03	0.00E+00	19.52	11.33	2	1.51	0.31	12.81	288.07	0.00	14.05
383	7	4.85E-05	2.97E-02	1.96E-03	2.83E-02	7.74E-04	2.48E-04	0.00E+00	36.94	14.19	4	1.77	0.14	11.04	286.76	0.00	13.80
384	10	3.88E-05	3.16E-02	1.87E-03	2.85E-02	2.35E-03	9.63E-04	0.00E+00	61.94	19.96	4	1.36	0.24	11.73	296.96	0.00	14.26
385	9	4.85E-05	3.09E-02	1.91E-03	2.77E-02	7.66E-04	3.09E-04	0.00E+00	45.63	15.49	4	1.36	0.19	11.48	291.28	0.00	13.41
386	11	4.85E-05	3.23E-02	2.08E-03	2.90E-02	8.18E-04	1.95E-03	0.00E+00	53.36	16.48	4	1.46	0.29	11.99	297.95	0.00	14.03
387	6	4.85E-05	3.13E-02	1.93E-03	3.17E-02	2.42E-03	5.47E-03	0.00E+00	30.02	12.41	3	1.49	0.21	11.65	297.55	0.00	13.25
388	5	4.85E-05	3.14E-02	1.97E-03	2.74E-02	7.39E-04	7.32E-04	0.00E+00	25.00	11.30	2	1.54	0.42	11.66	297.64	0.00	13.68
389	5	4.85E-05	3.08E-02	1.86E-03	3.46E-02	6.96E-03	6.75E-03	0.00E+00	25.42	11.48	3	1.54	0.28	11.47	291.89	0.00	13.80
390	4	4.85E-05	2.91E-02	1.83E-03	3.44E-02	6.70E-03	4.88E-03	0.00E+00	21.54	10.86	4	1.52	0.27	10.83	292.57	0.00	13.28
391	6	4.85E-05	3.11E-02	1.84E-03	3.55E-02	7.71E-03	8.66E-03	0.00E+00	30.24	12.49	4	1.41	0.30	11.57	281.49	0.00	14.79
392	8	4.85E-05	3.15E-02	2.72E-03	2.88E-02	5.89E-03	2.62E-03	0.00E+00	39.79	14.50	4	1.58	0.23	11.71	287.56	0.00	14.83
393	8	4.85E-05	3.13E-02	1.70E-03	2.90E-02	4.53E-03	2.10E-03	0.00E+00	40.04	14.34	4	1.34	0.29	11.64	287.20	0.00	14.32
394	7	4.85E-05	3.13E-02	2.16E-03	2.86E-02	0.00E+00	7.17E-04	0.00E+00	35.09	13.50	4	1.35	0.33	11.62	287.38	0.00	13.32
395	8	4.85E-05	3.38E-02	2.13E-03	3.37E-02	1.84E-03	2.85E-03	0.00E+00	37.11	13.34	3	1.57	0.48	12.56	289.14	0.00	13.59
396	3	4.85E-05	3.08E-02	2.08E-03	3.22E-02	3.60E-03	5.30E-04	0.00E+00	15.30	8.90	2	1.39	0.33	11.44	268.69	0.00	11.93
397	9	4.85E-05	2.95E-02	2.55E-03	3.66E-02	3.45E-03	5.62E-03	0.00E+00	47.79	16.48	4	1.42	0.24	10.96	261.70	0.00	13.51
398	10	4.85E-05	3.22E-02	2.23E-03	2.65E-02	0.00E+00	4.51E-04	0.00E+00	48.53	15.74	4	1.31	0.17	11.99	260.65	0.00	14.14
399	9	4.85E-05	3.34E-02	2.45E-03	2.85E-02	6.33E-03	3.18E-03	0.00E+00	42.24	14.44	3	1.57	0.25	12.41	264.81	0.00	14.53
400	6	4.85E-05	3.03E-02	1.54E-03	2.50E-02	7.17E-04	6.63E-04	0.00E+00	31.02	12.77	3	1.41	0.18	11.27	288.62	0.00	15.15
401	4	2.91E-05	3.03E-02	3.24E-03	5.06E-02	0.00E+00	1.27E-03	0.00E+00	34.44	17.62	2	1.56	0.42	11.28	300.95	0.00	7.68
403	7	4.37E-05	3.04E-02	2.39E-03	2.69E-02	0.00E+00	4.55E-04	0.00E+00	40.09	15.49	3	1.37	0.27	11.30	280.72	0.00	14.17
404	6	4.85E-05	3.41E-02	2.72E-03	2.72E-02	1.90E-03	1.20E-03	0.00E+00	27.59	11.49	4	1.35	0.25	12.68	303.62	0.00	14.69
405	10	4.85E-05	3.05E-02	1.87E-03	2.76E-02	3.30E-03	2.70E-03	0.00E+00	51.34	16.56	3	1.62	0.27	11.33	288.79	0.00	15.79
406	8	4.85E-05	3.15E-02	2.11E-03	2.59E-02	2.65E-03	1.26E-03	0.00E+00	39.76	14.32	3	1.42	0.16	11.72	295.08	0.00	15.23
407	15	4.85E-05	3.58E-02	2.45E-03	2.65E-02	1.84E-03	1.82E-03	0.00E+00	65.56	17.55	3	1.56	0.23	13.30	308.38	0.00	14.50
408	6	4.85E-05	3.58E-02	2.34E-03	2.98E-02	6.04E-03	2.82E-03	0.00E+00	26.25	10.86	3	1.24	0.24	13.33	296.30	0.00	14.21
409	10	4.85E-05	3.80E-02	2.82E-03	2.81E-02	3.54E-03	1.85E-03	0.00E+00	41.18	13.40	3	1.20	0.25	14.14	293.38	0.00	14.69
410	5	4.85E-05	3.19E-02	2.38E-03	2.78E-02	3.66E-03	1.64E-03	0.00E+00	24.61	11.17	3	1.55	0.27	11.85	284.96	0.00	14.11
411	7	4.85E-05	3.25E-02	2.33E-03	3.00E-02	4.35E-03	5.46E-03	0.00E+00	33.73	12.99	4	1.41	0.41	12.09	297.61	0.00	14.20
412	5	3.88E-05	3.29E-02	2.16E-03	2.95E-02	1.43E-03	1.16E-03	0.00E+00	29.82	13.49	4	1.53	0.31	12.22	283.14	0.00	14.01
413	7	3.88E-05	3.09E-02	2.15E-03	2.84E-02	4.74E-04	1.89E-03	0.00E+00	44.35	17.07	3	1.43	0.23	11.49	275.97	0.00	14.46
414	3	4.85E-05	2.92E-02	2.07E-03	2.99E-02	6.15E-03	1.49E-03	0.00E+00	16.10	9.37	2	1.29	0.22	10.87	276.59	0.00	13.44
415	3	4.85E-05	3.00E-02	2.00E-03	3.30E-02	6.94E-03	6.41E-03	0.00E+00	15.67	9.11	3	1.24	0.32	11.17	258.37	0.00	13.69
416	8	3.40E-05	3.15E-02	1.96E-03	3.11E-02	1.96E-03	2.23E-03	0.00E+00	56.78	20.41	3	1.66	0.20	11.71	267.44	0.00	13.34
417	4	3.88E-05	3.02E-02	1.98E-03	2.95E-02	5.26E-03	2.64E-03	0.00E+00	25.92	13.08	2	1.51	0.22	11.25	263.01	0.00	13.97
418	10	4.85E-05	3.13E-02	2.04E-03	2.77E-02	7.45E-04	8.33E-04	0.00E+00	50.02	16.17	4	1.39	0.34	11.63	276.70	0.00	13.61
419	7	4.85E-05	3.09E-02	2.06E-03	2.83E-02	5.44E-03	1.79E-03	0.00E+00	35.55	13.66	4	1.45	0.24	11.47	277.29	0.00	14.17
420	4	4.85E-05	3.03E-02	2.15E-03	2.77E-02	8.41E-03	4.32E-03	0.00E+00	20.68	10.45	3	1.37	0.27	11.28	268.00	0.00	14.51
421	9	4.85E-05	3.29E-02	2.19E-03	2.78E-02	1.84E-03	4.45E-04	0.00E+00	42.88	14.60	4	1.36	0.23	12.22	259.72	0.00	14.57
422	5	4.85E-05	3.15E-02	2.26E-03	2.75E-02	1.11E-03	6.87E-04	0.00E+00	24.91	11.29	4	1.50	0.25	11.70	254.05	0.00	13.63
423	7	4.85E-05	2.99E-02	2.12E-03	3.07E-02	0.00E+00	1.54E-03	0.00E+00	36.64	14.10	3	1.54	0.32	11.13	250.54	0.00	13.45
424	6	4.85E-05	3.29E-02	2.40E-03	3.25E-02	1.23E-03	7.28E-04	0.00E+00	28.60	11.87	4	1.47	0.26	12.23	285.11	0.00	13.10
425	4	4.85E-05	3.58E-02	2.84E-03	2.74E-02	0.00E+00	9.50E-04	0.00E+00	17.54	8.89	3	1.27	0.30	13.30	264.49	0.00	14.05
426	3	2.43E-05	3.05E-02	2.94E-02	0.00E+00	4.45E-04	0.00E+00	0.00E+00	30.86	17.98	3	1.58	0.26	11.33	268.22	0.00	12.97
427	8	4.85E-05	3.26E-02	2.66E-03	3.10E-02	4.18E-03	1.35E-03	0.00E+00	38.44	13.96	4	1.55	0.31	12.12	268.81	0.00	12.80
428	9	4.85E-05	3.07E-02	2.22E-03	3.33E-02	7.05E-03	3.36E-03	0.00E+00	45.89	15.68	3	1.62	0.38	11.42	271.46	0.00	13.70
429	4	4.37E-05	3.14E-02	2.24E-03	3.93E-02	8.01E-03	7.99E-03	0.00E+00	22.18	11.21	3	1.59	0.39	11.68	263.24	0.00	13.45
430	9	4.85E-05	3.24E-02	1.92E-03	3.23E-02	3.50E-03	1.11E-03	0.00E+00	43.53	14.76	3	1.60	0.35	12.04	281.76	0.00	12.59
431	6	3.88E-05	3.12E-02	2.13E-03	3.03E-02	5.49E-03	1.78E-03	0.00E+00	37.68	15.61	4	1.60	0.29	11.59	271.56	0.00	13.00
432	7	4.85E-05	3.12E-02	2.01E-03	2.93E-02	3.58E-03	1.94E-03	0.									

446	5	4.85E-05	3.14E-02	2.25E-03	3.03E-02	3.10E-03	2.10E-03	0.00E+00	24.98	11.32	3	1.68	0.44	11.67	266.95	0.00	13.58
447	6	4.85E-05	3.17E-02	2.08E-03	3.26E-02	2.44E-03	1.45E-03	0.00E+00	29.70	12.29	3	1.65	0.36	11.78	286.49	0.00	12.30
448	7	4.85E-05	3.28E-02	2.18E-03	3.56E-02	2.84E-03	3.94E-03	0.00E+00	33.48	12.86	4	1.73	0.37	12.18	279.18	0.00	12.04
449	12	4.85E-05	3.16E-02	2.12E-03	3.58E-02	3.70E-03	2.54E-03	0.00E+00	59.40	17.64	3	1.76	0.22	11.75	275.22	0.00	12.22
450	4	4.85E-05	3.06E-02	2.11E-03	3.16E-02	3.58E-03	2.08E-03	0.00E+00	20.51	10.36	2	1.64	0.19	11.37	260.55	0.00	12.06
451	14	4.85E-05	3.18E-02	2.16E-03	2.88E-02	2.76E-03	9.14E-04	0.00E+00	68.84	19.02	4	1.57	0.23	11.82	270.74	0.00	12.66
452	8	4.85E-05	3.03E-02	1.72E-03	3.19E-02	0.00E+00	1.13E-03	0.00E+00	41.36	14.83	4	1.64	0.29	11.26	263.72	0.00	12.98
453	5	4.85E-05	3.21E-02	2.09E-03	3.36E-02	5.16E-04	2.37E-03	0.00E+00	24.39	11.03	3	1.55	0.33	11.95	265.53	0.00	12.77
454	5	4.85E-05	3.06E-02	2.02E-03	4.08E-02	1.48E-02	1.14E-02	0.00E+00	25.65	11.61	4	1.51	0.29	11.36	267.98	0.00	12.57
455	5	4.85E-05	3.16E-02	1.84E-03	3.06E-02	0.00E+00	6.82E-04	0.00E+00	24.83	11.21	4	1.52	0.36	11.74	272.99	0.00	12.86
456	9	4.85E-05	3.13E-02	2.33E-03	3.10E-02	5.67E-03	1.69E-03	0.00E+00	44.97	15.38	4	1.51	0.22	11.65	269.38	0.00	12.81
457	6	4.85E-05	3.11E-02	2.08E-03	3.43E-02	1.64E-03	2.10E-03	0.00E+00	30.26	12.53	4	1.69	0.30	11.56	279.05	0.00	12.90
458	9	4.85E-05	3.09E-02	2.14E-03	3.36E-02	2.15E-03	3.24E-03	0.00E+00	45.66	15.57	4	1.60	0.39	11.47	259.66	0.00	13.58
459	6	4.85E-05	3.04E-02	2.10E-03	3.02E-02	4.71E-03	1.70E-03	0.00E+00	30.90	12.81	4	1.60	0.37	11.32	273.79	0.00	13.29
460	7	4.85E-05	2.94E-02	1.84E-03	2.93E-02	0.00E+00	1.56E-03	0.00E+00	37.27	14.29	4	1.72	0.36	10.94	194.83	0.00	12.88
461	5	4.85E-05	2.89E-02	1.62E-03	2.91E-02	1.08E-03	1.37E-03	0.00E+00	27.14	12.24	2	1.62	0.28	10.74	225.19	0.00	13.58
462	8	4.85E-05	3.02E-02	1.76E-03	3.54E-02	5.09E-03	5.71E-03	0.00E+00	41.44	14.87	4	1.51	0.29	11.24	256.31	0.00	13.75
463	5	4.85E-05	3.23E-02	2.06E-03	3.28E-02	0.00E+00	1.32E-03	0.00E+00	24.27	10.97	2	2.02	0.26	12.01	269.48	0.00	12.26
464	6	4.85E-05	3.07E-02	1.96E-03	3.15E-03	1.95E-03	1.11E-03	0.00E+00	30.64	12.67	4	1.70	0.30	11.41	251.45	0.00	12.87
465	8	4.85E-05	3.25E-02	2.07E-03	3.27E-02	4.34E-03	1.77E-03	0.00E+00	38.57	13.87	3	1.80	0.34	12.08	276.50	0.00	12.39
466	10	3.88E-05	3.25E-02	1.99E-03	3.25E-02	3.23E-03	6.26E-04	0.00E+00	60.06	19.38	3	1.73	0.41	12.10	259.90	0.00	12.07
467	3	3.88E-05	3.17E-02	2.04E-03	3.32E-02	4.89E-03	3.67E-03	0.00E+00	18.54	10.77	3	1.71	0.34	11.80	265.67	0.00	12.62
468	2	3.88E-05	2.98E-02	1.98E-03	3.23E-02	1.66E-03	1.24E-03	0.00E+00	13.16	9.35	2	1.83	0.36	11.08	239.73	0.00	12.79
469	9	3.88E-05	3.02E-02	1.93E-03	3.18E-02	8.53E-03	2.46E-03	0.00E+00	58.21	19.78	3	1.62	0.30	11.24	218.56	0.00	12.64
470	7	4.85E-05	3.04E-02	1.98E-03	3.30E-02	8.95E-04	7.61E-04	0.00E+00	36.03	13.83	3	1.49	0.25	11.32	264.21	0.00	12.09
471	7	4.85E-05	3.10E-02	2.06E-03	3.31E-02	1.06E-03	5.23E-03	0.00E+00	35.39	13.60	4	1.40	0.19	11.52	256.35	0.00	12.93
472	7	4.85E-05	3.13E-02	1.91E-03	3.72E-02	1.04E-02	7.36E-03	0.00E+00	35.04	13.43	3	1.63	0.26	11.64	264.62	0.00	12.87
473	8	4.85E-05	2.71E-02	3.47E-03	2.47E-02	1.34E-03	1.61E-03	0.00E+00	46.28	17.43	4	1.76	0.36	10.06	303.27	0.00	16.69
474	2	3.40E-05	2.91E-02	2.10E-03	2.43E-02	4.87E-03	7.71E-04	0.00E+00	15.39	10.95	2	1.50	0.29	10.83	275.95	0.00	15.49
475	2	4.85E-05	3.09E-02	1.91E-03	3.06E-02	1.16E-03	1.38E-03	0.00E+00	10.16	7.22	1	1.76	0.23	11.49	264.30	0.00	13.84
476	3	4.85E-05	2.98E-02	2.02E-03	3.06E-02	5.57E-04	8.77E-04	0.00E+00	15.77	9.17	2	1.39	0.31	11.10	243.41	0.00	13.22
477	11	4.85E-05	3.09E-02	1.97E-03	3.36E-02	3.88E-03	3.28E-03	0.00E+00	55.70	17.19	4	1.63	0.29	11.49	244.29	0.00	13.22
478	4	2.91E-05	3.23E-02	2.41E-03	3.20E-02	2.69E-03	2.07E-03	0.00E+00	32.35	16.36	4	1.66	0.16	12.01	285.63	0.00	13.41
479	4	4.85E-05	3.09E-02	2.31E-03	3.01E-02	1.49E-03	1.07E-03	0.00E+00	20.29	10.26	3	1.59	0.28	11.50	279.35	0.00	13.74
480	3	3.40E-05	3.23E-02	2.24E-03	3.34E-02	3.48E-03	3.88E-03	0.00E+00	20.84	12.12	3	1.60	0.19	12.00	275.31	0.00	14.15
481	5	4.85E-05	3.02E-02	1.89E-03	3.20E-02	1.07E-03	2.12E-03	0.00E+00	25.94	11.72	4	1.48	0.38	11.24	262.30	0.00	13.07
482	7	4.85E-05	3.19E-02	2.16E-03	3.22E-02	3.82E-03	1.37E-03	0.00E+00	34.35	13.20	3	1.45	0.24	11.87	261.43	0.00	12.49
483	5	4.85E-05	3.10E-02	1.88E-03	3.08E-02	2.43E-03	1.29E-03	0.00E+00	25.32	11.44	3	1.42	0.30	11.51	267.70	0.00	13.35
484	8	4.85E-05	3.17E-02	2.08E-03	3.33E-02	5.07E-03	5.67E-03	0.00E+00	39.52	14.23	3	1.53	0.27	11.79	268.82	0.00	13.62
485	8	4.85E-05	3.11E-02	2.38E-03	3.12E-02	5.70E-03	2.94E-03	0.00E+00	40.34	14.61	4	1.51	0.25	11.55	276.00	0.00	13.15
486	5	4.85E-05	3.05E-02	2.05E-03	2.99E-02	3.79E-04	1.24E-03	0.00E+00	25.68	11.62	4	1.49	0.27	11.35	270.27	0.00	13.73
487	5	4.85E-05	3.05E-02	2.06E-03	2.99E-02	7.89E-04	1.13E-03	0.00E+00	25.70	11.63	4	1.45	0.27	11.34	265.72	0.00	13.69
488	6	4.37E-05	3.09E-02	2.39E-03	3.42E-02	7.82E-03	3.27E-03	0.00E+00	33.80	14.06	2	1.83	0.24	11.49	271.05	0.00	13.36
489	6	3.40E-05	2.98E-02	2.04E-03	2.83E-02	4.60E-03	5.18E-03	0.00E+00	45.10	18.69	4	1.52	0.23	11.06	274.24	0.00	14.32
490	7	4.85E-05	3.04E-02	1.88E-03	2.74E-02	1.12E-03	6.60E-04	0.00E+00	36.10	13.84	3	1.68	0.29	11.30	274.98	0.00	13.93
491	8	3.88E-05	3.17E-02	2.00E-03	2.93E-02	0.00E+00	8.45E-04	0.00E+00	49.44	17.78	3	1.72	0.24	11.77	268.38	0.00	13.48
492	4	2.91E-05	3.83E-02	5.23E-03	2.91E-02	3.89E-03	4.22E-03	0.00E+00	27.27	14.15	4	1.72	0.19	14.25	254.81	0.00	15.12
493	14	4.85E-05	3.02E-02	1.93E-03	3.03E-02	5.11E-04	4.80E-04	0.00E+00	72.46	19.95	4	1.59	0.37	11.22	258.20	0.00	13.71
494	12	4.85E-05	3.06E-02	2.04E-03	3.11E-02	3.25E-03	3.32E-03	0.00E+00	61.40	18.23	4	1.62	0.38	11.36	270.28	0.00	13.84
495	3	4.85E-05	2.93E-02	1.90E-03	3.09E-02	8.15E-04	4.93E-04	0.00E+00	16.09	9.35	2	1.49	0.39	10.88	264.71	0.00	13.30
496	10	4.85E-05	3.26E-02	2.01E-03	2.91E-02	9.72E-04	9.66E-04	0.00E+00	48.01	15.49	4	1.87	0.32	12.12	269.36	0.00	13.87
497	7	4.85E-05	3.16E-02	2.03E-03	3.42E-02	8.96E-03	5.17E-03	0.00E+00	34.69	13.31	4	1.71	0.39	11.76	264.43	0.00	13.79
498	11	4.85E-05	3.32E-02	2.16E-03	3.38E-02	3.36E-03	5.83E-03	0.00E+00	51.91	16.04	4	1.53	0.37	12.33	260.35	0.00	13.78
499	5	4.85E-05	3.14E-02	1.99E-03	3.60E-02	5.32E-03	6.39E-03	0.00E+00	24.96	11.28	3	1.55	0.37	11.68	251.18	0.00	13.62
500	7	4.85E-05	3.28E-02	2.31E-03	2.95E-02	7.29E-04	1.07E-03	0.00E+00	33.44	12.87	3	1.54	0.39	12.20	248.44	0.00	13.79
501	12	4.85E-05	3.34E-02	2.50E-03	3.05E-02	2.76E-03	5.49E-03	0.00E+00	56.20	16.79	4	1.45	0.19	12.42	250.54	0.00	13.77
502	5	4.37E-05	3.31E-02	2.31E-03	3.04E-02	6.77E-03	4.75E-03	0.00E+00	26.29	11.91	3	1.59	0.33	12.32	219.17	0.00	14.52

Mean Dpar = 1.52
 Mean Dper = 0.29
 Modified Zeta = 15.251+/- 0.279
 Mean 43Ca b:s = 0.026
 Mean 238U b:s = 0.002
 Number of grains= 492
 Chi-squared = 432.3
 Chi-squared prob= 0.9734

Pooled Age (Ma) = 31.4+/- 0.8

Durango

DR1a

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
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7	4	4.85E-05	2.93E-02	6.69E-04	9.91E-03	1.24E-02	0.00E+00	0.00E+00	18.53	9.29	4	1.46	0.28	12.59	0.00	0.00	19.08
8	8	4.85E-05	3.01E-02	8.35E-04	9.55E-03	1.16E-02	0.00E+00	0.00E+00	36.07	12.82	4	1.51	0.38	12.92	0.00	0.00	19.79
9	6	4.85E-05	2.97E-02	9.73E-04	1.11E-02	1.37E-02	0.00E+00	0.00E+00	27.44	11.25	4	1.58	0.24	12.75	0.00	0.00	16.98
10	5	4.85E-05	2.91E-02	1.11E-03	1.08E-02	1.37E-02	0.00E+00	0.00E+00	23.34	10.49	3	1.43	0.38	12.49	0.00	0.00	17.43
11	8	4.85E-05	3.12E-02	6.72E-04	1.14E-02	1.35E-02	0.00E+00	0.00E+00	34.82	12.36	4	1.41	0.43	13.39	0.00	0.00	16.52
12	5	3.88E-05	3.09E-02	5.61E-04	1.11E-02	1.32E-02	0.00E+00	0.00E+00	27.44	12.30	4	1.20	0.36	13.28	0.00	0.00	16.97
13	7	4.85E-05	2.75E-02	7.49E-04	1.10E-02	1.46E-02	0.00E+00	0.00E+00	34.51	13.10	4	1.59	0.50	11.82	0.00	0.00	17.19
14	6	4.85E-05	2.92E-02	2.07E-03	1.12E-02	1.40E-02	0.00E+00	0.00E+00	27.90	11.58	4	1.38	0.33	12.53	0.00	0.00	16.92
15	7	4.85E-05	2.66E-02	2.17E-03	1.10E-02	1.51E-02	0.00E+00	0.00E+00	35.72	13.84	4	1.44	0.31	11.42	0.00	0.00	17.22
16	8	4.85E-05	2.96E-02	1.48E-03	1.20E-02	1.49E-02	0.00E+00	0.00E+00	36.67	13.12	4	1.55	0.31	12.71	0.00	0.00	15.73
17	5	4.85E-05	2.66E-02	2.24E-03	1.04E-02	1.43E-02	0.00E+00	0.00E+00	25.52	11.63	4	1.26	0.21	11.42	0.00	0.00	18.22
18	6	4.85E-05	2.95E-02	2.33E-03	1.11E-02	1.38E-02	0.00E+00	0.00E+00	27.65	11.51	4	1.47	0.32	12.65	0.00	0.00	17.05
19	3	4.85E-05	2.99E-02	3.13E-03	1.08E-02	1.33E-02	0.00E+00	0.00E+00	13.64	8.01	2	1.50	0.13	12.83	0.00	0.00	17.46
20	7	4.85E-05	3.67E-02	3.69E-03	1.16E-02	1.16E-02	0.00E+00	0.00E+00	25.94	10.16	4	1.52	0.40	15.73	0.00	0.00	16.32
21	5	4.85E-05	2.89E-02	9.39E-04	1.21E-02	1.53E-02	0.00E+00	0.00E+00	23.47	10.54	4	1.60	0.30	12.42	0.00	0.00	15.66
22	6	4.85E-05	2.96E-02	1.16E-03	1.22E-02	1.52E-02	0.00E+00	0.00E+00	27.54	11.31	4	1.38	0.23	12.70	0.00	0.00	15.43
23	6	4.85E-05	2.85E-02	1.73E-03	1.21E-02	1.55E-02	0.00E+00	0.00E+00	28.55	11.80	4	1.35	0.24	12.25	0.00	0.00	15.65
24	5	4.85E-05	3.11E-02	2.00E-03	1.30E-02	1.53E-02	0.00E+00	0.00E+00	21.84	9.88	4	1.36	0.43	13.35	0.00	0.00	14.57
25	6	4.85E-05	2.82E-02	6.23E-04	1.16E-02	1.51E-02	0.00E+00	0.00E+00	28.89	11.83	4	1.51	0.27	12.11	0.00	0.00	16.24
26	5	4.85E-05	2.80E-02	6.10E-04	1.19E-02	1.56E-02	0.00E+00	0.00E+00	24.30	10.90	4	1.46	0.42	11.99	0.00	0.00	15.90
27	8	4.85E-05	2.88E-02	6.61E-04	1.21E-02	1.54E-02	0.00E+00	0.00E+00	37.71	13.39	4	1.26	0.39	12.36	0.00	0.00	15.63
28	6	4.85E-05	2.96E-02	1.49E-03	1.36E-02	1.69E-02	0.00E+00	0.00E+00	27.58	11.36	4	1.50	0.57	12.68	0.00	0.00	13.92
29	5	4.85E-05	2.95E-02	3.01E-03	1.28E-02	1.59E-02	0.00E+00	0.00E+00	23.04	10.58	4	1.49	0.45	12.65	0.00	0.00	14.78
30	7	4.85E-05	3.23E-02	4.58E-03	1.28E-02	1.46E-02	0.00E+00	0.00E+00	29.45	11.91	2	1.47	0.40	13.85	0.00	0.00	14.75
31	4	4.85E-05	2.87E-02	1.83E-03	1.28E-02	1.64E-02	0.00E+00	0.00E+00	18.98	9.58	4	1.43	0.30	12.29	0.00	0.00	14.72
32	4	4.85E-05	2.79E-02	1.73E-03	1.37E-02	1.81E-02	0.00E+00	0.00E+00	19.51	9.84	4	1.18	0.27	11.96	0.00	0.00	13.77
33	11	4.85E-05	2.84E-02	9.45E-04	1.42E-02	1.84E-02	0.00E+00	0.00E+00	52.55	15.98	4	1.19	0.34	12.18	0.00	0.00	13.29
34	9	4.85E-05	2.71E-02	2.62E-03	1.31E-02	1.78E-02	0.00E+00	0.00E+00	45.09	15.68	4	1.03	0.34	11.62	0.00	0.00	14.40
35	5	4.85E-05	2.66E-02	3.22E-03	1.24E-02	1.71E-02	0.00E+00	0.00E+00	25.55	11.85	4	1.18	0.35	11.41	0.00	0.00	15.25
36	7	4.85E-05	2.89E-02	9.70E-04	1.25E-02	1.59E-02	0.00E+00	0.00E+00	32.84	12.48	4	1.37	0.33	12.42	0.00	0.00	15.08
37	2	4.85E-05	2.80E-02	8.32E-04	1.23E-02	1.61E-02	0.00E+00	0.00E+00	9.70	6.87	2	1.04	0.21	12.03	0.00	0.00	15.41
38	5	4.85E-05	2.82E-02	5.26E-04	1.22E-02	1.58E-02	0.00E+00	0.00E+00	24.07	10.79	4	1.30	0.31	12.11	0.00	0.00	15.52
39	6	4.85E-05	2.70E-02	7.04E-04	1.32E-02	1.80E-02	0.00E+00	0.00E+00	30.17	12.36	4	1.35	0.36	11.59	0.00	0.00	14.27
40	4	3.40E-05	2.82E-02	9.14E-04	1.24E-02	1.61E-02	0.00E+00	0.00E+00	27.51	13.80	3	1.30	0.33	12.11	0.00	0.00	15.29
41	8	4.85E-05	2.70E-02	8.93E-04	1.27E-02	1.73E-02	0.00E+00	0.00E+00	40.23	14.31	4	1.43	0.41	11.58	0.00	0.00	14.88
42	3	4.85E-05	2.73E-02	8.39E-04	1.29E-02	1.73E-02	0.00E+00	0.00E+00	14.93	8.64	4	1.02	0.44	11.72	0.00	0.00	14.65
43	8	4.85E-05	2.78E-02	1.27E-03	1.27E-02	1.67E-02	0.00E+00	0.00E+00	39.04	13.94	4	1.40	0.29	11.94	0.00	0.00	14.93
44	7	4.85E-05	2.81E-02	9.97E-04	1.28E-02	1.68E-02	0.00E+00	0.00E+00	33.83	12.86	4	1.32	0.36	12.06	0.00	0.00	14.72
45	9	4.85E-05	3.30E-02	7.28E-04	1.69E-02	1.88E-02	0.00E+00	0.00E+00	37.03	12.40	4	1.30	0.30	14.16	0.00	0.00	11.19
47	8	4.85E-05	3.82E-02	2.13E-03	1.50E-02	1.44E-02	0.00E+00	0.00E+00	28.45	10.20	4	1.33	0.25	16.39	0.00	0.00	12.63
48	7	4.85E-05	3.48E-02	2.57E-03	1.39E-02	1.47E-02	0.00E+00	0.00E+00	27.30	10.53	4	1.39	0.37	14.95	0.00	0.00	13.58
49	11	4.85E-05	2.68E-02	1.53E-03	1.39E-02	1.91E-02	0.00E+00	0.00E+00	55.73	17.15	4	1.30	0.34	11.48	0.00	0.00	13.55
50	5	4.85E-05	3.33E-02	3.67E-03	1.53E-02	1.69E-02	0.00E+00	0.00E+00	20.41	9.41	4	1.17	0.30	14.29	0.00	0.00	12.32

Mean Dpar = 1.36
 Mean Dper = 0.33
 Modified Zeta = 13.216+/- 0.293
 Mean 43Ca b:s = 0.012
 Mean 238U b:s = 0.015
 Number of grains= 43
 Chi-squared = 24.5
 Chi-squared prob= 0.9859
Pooled Age (Ma) = 29.0+/- 1.9

Fish Canyon Tuff

FC1a

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	11	4.85E-05	4.09E-02	1.09E-03	1.09E-02	9.82E-03	0.00E+00	0.00E+00	36.55	11.09	4	1.79	0.50	17.53	0.00	0.00	17.29
2	15	4.85E-05	5.14E-02	1.22E-03	1.10E-02	7.84E-03	0.00E+00	0.00E+00	39.61	10.31	4	1.71	0.49	22.05	0.00	0.00	17.21
3	5	4.85E-05	4.65E-02	8.10E-04	1.25E-02	9.86E-03	0.00E+00	0.00E+00	14.63	6.55	4	1.90	0.45	19.94	0.00	0.00	15.14
4	12	3.88E-05	4.29E-02	8.93E-04	1.16E-02	9.95E-03	0.00E+00	0.00E+00	47.47	13.78	4	2.18	0.35	18.39	0.00	0.00	16.27
5	4	1.94E-05	2.12E-02	4.42E-04	1.11E-02	1.92E-02	0.00E+00	0.00E+00	63.87	31.99	4	1.63	0.52	9.10	0.00	0.00	17.01
6	9	3.11E-05	3.83E-02	7.90E-04	1.20E-02	1.15E-02	0.00E+00	0.00E+00	49.82	16.68	4	1.84	0.53	16.42	0.00	0.00	15.78
7	8	3.40E-05	4.56E-02	9.67E-04	1.24E-02	9.96E-03	0.00E+00	0.00E+00	34.03	12.08	4	1.72	0.44	19.57	0.00	0.00	15.27
9	10	4.37E-05	4.71E-02	8.16E-04	1.16E-02	9.04E-03	0.00E+00	0.00E+00	32.07	10.18	4	1.86	0.49	20.19	0.00	0.00	16.32
10	4	4.85E-05	4.62E-02	9.73E-04	1.21E-02	9.61E-03	0.00E+00	0.00E+00	11.77	5.90	4	1.65	0.55	19.83	0.00	0.00	15.62
11	5	4.85E-05	4.09E-02	7.94E-04	1.21E-02	1.09E-02	0.00E+00	0.00E+00	16.62	7.45	4	1.86	0.60	17.56	0.00	0.00	15.61
12	7	3.88E-05	3.03E-02	8.72E-04	1.19E-02	1.44E-02	0.00E+00	0.00E+00	39.26	14.91	4	1.93	0.44	12.98	0.00	0.00	15.89
13	11	4.85E-05	2.29E-02	7.54E-04	1.31E-02	2.10E-02	0.00E+00	0.00E+00	64.93	19.75	4	1.95	0.55	9.85	0.00	0.00	14.40
14	8	4.85E-05	4.27E-02	7.98E-04	1.16E-02	9.95E-03	0.00E+00	0.00E+00	25.44	9.02	4	1.93	0.43	18.33	0.00	0.00	16.31
15	5	3.88E-05	3.71E-02	6.85E-04	1.24E-02	1.23E-02	0.00E+00	0.00E+00	22.91	10.26	4	2.39	0.59	15.91	0.00	0.00	15.19

16	7	2.91E-05	3.86E-02	9.00E-04	1.17E-02	1.11E-02	0.00E+00	0.00E+00	41.06	15.58	4	2.08	0.51	16.55	0.00	0.00	16.21
17	11	2.43E-05	3.05E-02	6.53E-04	1.31E-02	1.58E-02	0.00E+00	0.00E+00	97.55	29.57	4	1.95	0.44	13.07	0.00	0.00	14.41
18	9	4.85E-05	5.20E-02	1.61E-03	1.20E-02	8.46E-03	0.00E+00	0.00E+00	23.51	7.89	4	1.69	0.49	22.32	0.00	0.00	15.76
19	12	4.85E-05	3.96E-02	9.51E-04	1.39E-02	1.28E-02	0.00E+00	0.00E+00	41.11	11.94	4	1.82	0.51	17.00	0.00	0.00	13.63
20	6	3.88E-05	1.95E-02	5.75E-04	1.21E-02	2.28E-02	0.00E+00	0.00E+00	52.15	21.38	4	1.99	0.60	8.37	0.00	0.00	15.60
21	14	4.85E-05	4.17E-02	8.66E-04	1.22E-02	1.07E-02	0.00E+00	0.00E+00	45.56	12.26	4	1.66	0.46	17.89	0.00	0.00	15.55
22	4	2.91E-05	2.24E-02	1.62E-03	1.30E-02	2.12E-02	0.00E+00	0.00E+00	40.33	20.40	4	1.91	0.55	9.63	0.00	0.00	14.57
23	8	4.85E-05	3.88E-02	1.71E-03	1.49E-02	1.41E-02	0.00E+00	0.00E+00	28.00	9.99	4	1.91	0.57	16.66	0.00	0.00	12.70
24	9	2.91E-05	4.04E-02	8.30E-04	1.30E-02	1.18E-02	0.00E+00	0.00E+00	50.37	16.86	4	1.76	0.71	17.33	0.00	0.00	14.57
25	15	3.11E-05	4.49E-02	1.01E-03	1.29E-02	1.05E-02	0.00E+00	0.00E+00	70.61	18.37	4	1.89	0.49	19.29	0.00	0.00	14.68
26	9	4.85E-05	3.79E-02	8.19E-04	1.27E-02	1.23E-02	0.00E+00	0.00E+00	32.24	10.79	4	1.62	0.51	16.27	0.00	0.00	14.85
27	9	4.85E-05	4.09E-02	9.29E-04	1.30E-02	1.17E-02	0.00E+00	0.00E+00	29.93	10.02	4	1.69	0.59	17.53	0.00	0.00	14.51
28	8	4.85E-05	4.16E-02	1.29E-03	1.22E-02	1.08E-02	0.00E+00	0.00E+00	26.12	9.29	4	1.90	0.57	17.85	0.00	0.00	15.49
29	8	4.37E-05	2.33E-02	9.25E-04	1.34E-02	2.11E-02	0.00E+00	0.00E+00	51.75	18.45	4	1.69	0.68	9.99	0.00	0.00	14.11
30	8	3.88E-05	6.52E-02	1.66E-03	1.23E-02	6.91E-03	0.00E+00	0.00E+00	20.85	7.40	4	2.03	0.56	27.97	0.00	0.00	15.40
31	4	3.88E-05	3.95E-02	2.08E-03	1.72E-02	1.60E-02	0.00E+00	0.00E+00	17.20	8.66	4	1.79	0.50	16.95	0.00	0.00	10.96
32	0	3.88E-05	1.39E-02	4.96E-04	1.20E-02	3.15E-02	0.00E+00	0.00E+00	0.00	18.26	1	2.22	0.35	5.98	0.00	0.00	15.78
33	10	4.85E-05	2.16E-02	1.55E-03	1.37E-02	2.32E-02	0.00E+00	0.00E+00	62.63	20.35	4	1.99	0.54	9.28	0.00	0.00	13.83
34	11	3.88E-05	5.00E-02	1.57E-03	1.24E-02	9.12E-03	0.00E+00	0.00E+00	37.30	11.34	4	1.74	0.56	21.47	0.00	0.00	15.20
35	8	4.85E-05	6.57E-02	1.64E-03	1.28E-02	7.15E-03	0.00E+00	0.00E+00	16.56	5.88	4	2.09	0.64	28.19	0.00	0.00	14.77
36	5	4.85E-05	4.89E-02	1.02E-03	1.30E-02	9.78E-03	0.00E+00	0.00E+00	13.89	6.23	4	1.92	0.38	21.00	0.00	0.00	14.48
37	7	4.85E-05	3.67E-02	7.02E-04	1.22E-02	1.22E-02	0.00E+00	0.00E+00	25.95	9.84	4	1.95	0.57	15.73	0.00	0.00	15.53
38	4	4.85E-05	3.16E-02	9.76E-04	1.26E-02	1.47E-02	0.00E+00	0.00E+00	17.23	8.64	4	1.79	0.53	13.54	0.00	0.00	14.98
39	13	3.88E-05	5.04E-02	1.81E-03	1.26E-02	9.21E-03	0.00E+00	0.00E+00	43.76	12.28	4	1.67	0.38	21.62	0.00	0.00	14.95
40	9	4.85E-05	5.12E-02	1.53E-03	1.25E-02	8.98E-03	0.00E+00	0.00E+00	23.88	8.01	4	1.99	0.39	21.97	0.00	0.00	15.08
41	7	2.43E-05	3.96E-02	9.18E-04	1.18E-02	1.09E-02	0.00E+00	0.00E+00	47.90	18.17	4	1.82	0.59	17.01	0.00	0.00	16.04
42	10	3.88E-05	3.11E-02	1.21E-03	1.23E-02	1.46E-02	0.00E+00	0.00E+00	54.47	17.40	4	1.77	0.44	13.35	0.00	0.00	15.31
43	2	2.91E-05	3.23E-02	1.01E-03	1.33E-02	1.51E-02	0.00E+00	0.00E+00	14.04	9.94	2	1.93	0.40	13.86	0.00	0.00	14.26
44	7	2.91E-05	4.24E-02	8.88E-04	1.25E-02	1.08E-02	0.00E+00	0.00E+00	37.32	14.15	4	1.92	0.52	18.21	0.00	0.00	15.15
45	10	4.85E-05	4.00E-02	1.37E-03	1.34E-02	1.23E-02	0.00E+00	0.00E+00	33.97	10.83	4	1.85	0.44	17.15	0.00	0.00	14.07
46	4	1.75E-05	4.77E-02	1.36E-03	1.28E-02	9.88E-03	0.00E+00	0.00E+00	31.62	15.85	2	1.82	0.78	20.47	0.00	0.00	14.71
47	5	1.94E-05	4.09E-02	1.17E-03	1.24E-02	1.11E-02	0.00E+00	0.00E+00	41.45	18.60	4	1.84	0.47	17.56	0.00	0.00	15.29
48	5	2.33E-05	3.56E-02	7.03E-04	1.27E-02	1.31E-02	0.00E+00	0.00E+00	39.69	17.79	4	1.63	0.56	15.28	0.00	0.00	14.83
49	8	4.85E-05	4.29E-02	1.16E-03	1.27E-02	1.12E-02	0.00E+00	0.00E+00	25.31	8.99	4	1.80	0.43	18.42	0.00	0.00	14.42
50	19	4.85E-05	3.79E-02	4.29E-03	1.27E-02	1.23E-02	0.00E+00	0.00E+00	67.97	17.45	4	1.85	0.53	16.24	0.00	0.00	14.88

Mean Dpar = 1.86
 Mean Dper = 0.51
 Modified Zeta = 13.216+/- 0.293
 Mean 43Ca b:s = 0.013
 Mean 238U b:s = 0.013
 Number of grains= 49
 Chi-squared = 83.8
 Chi-squared prob= 0.0010
Pooled Age (Ma) = 33.6+/- 1.8

Fish Canyon Tuff

FC1a2

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	11	4.85E-05	3.94E-02	8.17E-04	1.25E-02	1.35E-03	0.00E+00	0.00E+00	31.72	9.61	4	1.79	0.50	20.21	0.00	0.00	17.74
2	15	4.85E-05	4.87E-02	1.92E-03	1.63E-02	1.43E-03	0.00E+00	0.00E+00	35.00	9.17	4	1.71	0.49	24.97	0.00	0.00	13.57
3	5	4.85E-05	4.04E-02	1.09E-03	1.34E-02	1.42E-03	0.00E+00	0.00E+00	14.11	6.33	4	1.90	0.45	20.68	0.00	0.00	16.52
4	12	3.88E-05	2.49E-02	6.30E-04	1.34E-02	2.31E-03	0.00E+00	0.00E+00	68.33	19.85	4	2.18	0.35	12.76	0.00	0.00	16.45
5	4	1.94E-05	3.15E-02	1.49E-03	1.39E-02	1.90E-03	0.00E+00	0.00E+00	36.12	18.16	4	1.63	0.52	16.13	0.00	0.00	15.85
6	9	3.11E-05	4.33E-02	1.17E-03	1.35E-02	1.33E-03	0.00E+00	0.00E+00	36.88	12.36	4	1.84	0.53	22.21	0.00	0.00	16.38
7	8	3.40E-05	4.73E-02	1.21E-03	1.42E-02	1.28E-03	0.00E+00	0.00E+00	27.47	9.75	4	1.72	0.44	24.26	0.00	0.00	15.61
8	8	3.88E-05	3.78E-02	2.18E-03	1.40E-02	1.59E-03	0.00E+00	0.00E+00	30.09	10.80	4	1.67	0.47	19.37	0.00	0.00	15.79
9	10	4.37E-05	3.89E-02	2.62E-03	1.46E-02	1.61E-03	0.00E+00	0.00E+00	32.46	10.52	4	1.86	0.49	19.94	0.00	0.00	15.11
10	4	4.85E-05	3.01E-02	1.12E-03	1.51E-02	2.15E-03	0.00E+00	0.00E+00	15.16	7.61	4	1.65	0.55	15.40	0.00	0.00	14.65
11	5	4.85E-05	1.83E-02	1.14E-03	1.52E-02	3.55E-03	0.00E+00	0.00E+00	31.16	14.08	4	1.86	0.60	9.35	0.00	0.00	14.58
12	7	3.88E-05	4.00E-02	1.70E-03	1.46E-02	1.56E-03	0.00E+00	0.00E+00	24.87	9.47	4	1.93	0.44	20.51	0.00	0.00	15.12
13	11	4.85E-05	2.07E-02	7.51E-04	1.53E-02	3.16E-03	0.00E+00	0.00E+00	60.40	18.39	4	1.95	0.55	10.59	0.00	0.00	14.47
14	8	4.85E-05	3.66E-02	9.94E-04	1.50E-02	1.76E-03	0.00E+00	0.00E+00	24.86	8.83	4	1.93	0.43	18.76	0.00	0.00	14.70
15	5	3.88E-05	5.77E-02	1.46E-03	1.57E-02	1.16E-03	0.00E+00	0.00E+00	12.33	5.53	4	2.39	0.59	29.57	0.00	0.00	14.11
16	7	2.91E-05	2.87E-02	8.34E-04	1.38E-02	2.06E-03	0.00E+00	0.00E+00	46.22	17.55	4	2.08	0.51	14.69	0.00	0.00	16.05
17	11	2.43E-05	7.96E-02	2.91E-03	1.41E-02	7.58E-04	0.00E+00	0.00E+00	31.43	9.57	4	1.95	0.44	40.79	0.00	0.00	15.68
18	9	4.85E-05	3.61E-02	1.09E-03	1.40E-02	1.66E-03	0.00E+00	0.00E+00	28.39	9.52	4	1.69	0.49	18.48	0.00	0.00	15.83
19	12	4.85E-05	6.70E-02	1.99E-03	1.54E-02	9.83E-04	0.00E+00	0.00E+00	20.39	5.93	4	1.82	0.51	34.32	0.00	0.00	14.37
20	6	3.88E-05	3.76E-02	1.26E-03	1.64E-02	1.87E-03	0.00E+00	0.00E+00	22.73	9.32	4	1.99	0.60	19.24	0.00	0.00	13.46
21	14	4.85E-05	4.75E-02	2.71E-03	1.58E-02	1.42E-03	0.00E+00	0.00E+00	33.52	9.19	4	1.66	0.46	24.33	0.00	0.00	13.99
22	4	2.91E-05	3.24E-02	1.25E-03	2.98E-02	3.94E-03	0.00E+00	0.00E+00	23.40	11.75	4	1.91	0.55	16.61	0.00	0.00	7.41

23	8	4.85E-05	4.45E-02	1.66E-03	1.67E-02	1.61E-03	0.00E+00	0.00E+00	20.44	7.28	4	1.91	0.57	22.82	0.00	0.00	13.21
24	9	2.91E-05	3.89E-02	2.59E-03	1.68E-02	1.85E-03	0.00E+00	0.00E+00	43.85	14.93	4	1.76	0.71	19.91	0.00	0.00	13.17
25	15	3.11E-05	5.66E-02	2.74E-03	1.64E-02	1.24E-03	0.00E+00	0.00E+00	47.01	12.39	4	1.89	0.49	29.02	0.00	0.00	13.50
26	9	4.85E-05	3.92E-02	1.60E-03	1.62E-02	1.77E-03	0.00E+00	0.00E+00	26.13	8.79	4	1.62	0.51	20.08	0.00	0.00	13.67
27	9	4.85E-05	3.74E-02	1.36E-03	1.52E-02	1.74E-03	0.00E+00	0.00E+00	27.38	9.20	4	1.69	0.59	19.16	0.00	0.00	14.52
28	8	4.85E-05	3.66E-02	1.24E-03	1.54E-02	1.81E-03	0.00E+00	0.00E+00	24.89	8.86	4	1.90	0.57	18.74	0.00	0.00	14.32
29	8	4.37E-05	4.32E-02	1.38E-03	1.57E-02	1.56E-03	0.00E+00	0.00E+00	23.43	8.33	4	1.69	0.68	22.12	0.00	0.00	14.07
30	8	3.88E-05	3.04E-02	1.23E-03	1.39E-02	1.96E-03	0.00E+00	0.00E+00	37.41	13.34	4	2.03	0.56	15.57	0.00	0.00	15.87
31	4	3.88E-05	1.44E-02	5.16E-04	1.59E-02	4.72E-03	0.00E+00	0.00E+00	39.46	19.80	4	1.79	0.50	7.38	0.00	0.00	13.93
32	0	3.88E-05	1.83E-02	5.51E-04	1.50E-02	3.52E-03	0.00E+00	0.00E+00	0.00	11.69	1	2.22	0.35	9.36	0.00	0.00	14.72
33	10	4.85E-05	3.41E-02	1.11E-03	1.64E-02	2.07E-03	0.00E+00	0.00E+00	33.39	10.64	4	1.99	0.54	17.45	0.00	0.00	13.45
34	11	3.88E-05	6.47E-02	2.26E-03	1.52E-02	1.01E-03	0.00E+00	0.00E+00	24.19	7.36	4	1.74	0.56	33.15	0.00	0.00	14.50
35	8	4.85E-05	1.79E-02	7.19E-04	1.66E-02	3.96E-03	0.00E+00	0.00E+00	50.67	18.06	4	2.09	0.64	9.19	0.00	0.00	13.31
36	5	4.85E-05	1.35E-02	5.15E-04	1.66E-02	5.28E-03	0.00E+00	0.00E+00	42.16	18.94	4	1.92	0.38	6.90	0.00	0.00	13.31
37	7	4.85E-05	1.69E-02	6.74E-04	1.65E-02	4.17E-03	0.00E+00	0.00E+00	46.95	17.87	4	1.95	0.57	8.68	0.00	0.00	13.39
38	4	4.85E-05	3.52E-02	1.48E-03	1.62E-02	1.96E-03	0.00E+00	0.00E+00	12.93	6.49	4	1.79	0.53	18.05	0.00	0.00	13.68
39	13	3.88E-05	4.09E-02	1.49E-03	1.57E-02	1.64E-03	0.00E+00	0.00E+00	45.13	12.66	4	1.67	0.38	20.96	0.00	0.00	14.08
40	9	4.85E-05	4.59E-02	1.44E-03	1.55E-02	1.45E-03	0.00E+00	0.00E+00	22.32	7.49	4	1.99	0.39	23.52	0.00	0.00	14.24
41	7	2.43E-05	4.36E-02	1.27E-03	1.61E-02	1.58E-03	0.00E+00	0.00E+00	36.52	13.86	4	1.82	0.59	22.33	0.00	0.00	13.76
42	10	3.88E-05	4.24E-02	1.22E-03	1.45E-02	1.47E-03	0.00E+00	0.00E+00	33.56	10.68	4	1.77	0.44	21.70	0.00	0.00	15.24
43	2	2.91E-05	9.12E-03	3.27E-04	1.56E-02	7.33E-03	0.00E+00	0.00E+00	41.55	29.43	2	1.93	0.40	4.67	0.00	0.00	14.16
44	7	2.91E-05	4.11E-02	1.04E-03	1.59E-02	1.65E-03	0.00E+00	0.00E+00	32.25	12.23	4	1.92	0.52	21.08	0.00	0.00	13.94
45	10	4.85E-05	1.83E-02	6.83E-04	1.59E-02	3.74E-03	0.00E+00	0.00E+00	62.15	19.83	4	1.85	0.44	9.35	0.00	0.00	13.87
46	4	1.75E-05	3.80E-02	1.56E-03	1.58E-02	1.78E-03	0.00E+00	0.00E+00	33.21	16.67	2	1.82	0.78	19.49	0.00	0.00	14.01
47	5	1.94E-05	6.54E-02	2.83E-03	1.50E-02	9.82E-04	0.00E+00	0.00E+00	21.75	9.78	4	1.84	0.47	33.52	0.00	0.00	14.73
48	5	2.33E-05	6.19E-02	1.99E-03	1.54E-02	1.07E-03	0.00E+00	0.00E+00	19.15	8.60	4	1.63	0.56	31.72	0.00	0.00	14.31
49	8	4.85E-05	1.86E-02	6.62E-04	1.59E-02	3.66E-03	0.00E+00	0.00E+00	48.92	17.41	4	1.80	0.43	9.52	0.00	0.00	13.92
50	19	4.85E-05	6.81E-02	2.87E-03	1.53E-02	9.64E-04	0.00E+00	0.00E+00	31.72	7.43	4	1.85	0.53	34.90	0.00	0.00	14.41

Mean Dpar = 1.86
 Mean Dper = 0.51
 Modified Zeta = 11.067+/- 0.231
 Mean 43Ca b:s = 0.016
 Mean 238U b:s = 0.002
 Number of grains= 50
 Chi-squared = 54.7
 Chi-squared prob= 0.2667

Pooled Age (Ma) = 30.0+/- 1.6

Fish Canyon Tuff

FC1d2

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dmnls)	1 sigma (dmnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
1	4	3.88E-05	5.15E-02	3.33E-03	5.84E-02	2.03E-03	0.00E+00	0.00E+00	11.04	5.57	4	1.56	0.45	26.43	0.00	0.00	14.70
2	8	3.88E-05	3.84E-02	2.72E-03	5.85E-02	5.85E-04	0.00E+00	0.00E+00	29.62	10.70	4	1.49	0.56	19.68	0.00	0.00	15.22
3	5	3.40E-05	5.20E-02	4.02E-03	5.66E-02	4.23E-04	0.00E+00	0.00E+00	15.63	7.10	4	1.68	0.54	26.67	0.00	0.00	15.15
4	5	2.91E-05	3.13E-02	2.02E-03	5.89E-02	5.39E-04	0.00E+00	0.00E+00	30.26	13.69	4	1.89	0.52	16.05	0.00	0.00	15.18
5	3	3.88E-05	1.55E-02	1.15E-03	5.17E-02	4.91E-03	0.00E+00	0.00E+00	27.45	15.99	4	1.68	0.50	7.96	0.00	0.00	17.02
6	6	3.88E-05	2.00E-02	1.34E-03	5.56E-02	5.33E-03	0.00E+00	0.00E+00	42.64	17.67	4	1.85	0.32	10.24	0.00	0.00	16.44
7	7	3.49E-05	4.31E-02	2.89E-03	5.81E-02	0.00E+00	0.00E+00	0.00E+00	25.66	9.87	4	1.70	0.57	22.09	0.00	0.00	15.37
8	6	3.88E-05	4.40E-02	2.89E-03	6.13E-02	2.32E-03	0.00E+00	0.00E+00	19.41	8.04	4	1.57	0.36	22.54	0.00	0.00	15.05
9	7	3.88E-05	5.07E-02	3.42E-03	6.17E-02	2.55E-03	0.00E+00	0.00E+00	19.63	7.55	4	1.92	0.53	26.00	0.00	0.00	13.89
10	7	3.88E-05	3.74E-02	3.38E-03	6.36E-02	1.96E-03	0.00E+00	0.00E+00	26.57	10.35	4	1.85	0.53	19.20	0.00	0.00	13.98
11	11	4.85E-05	5.80E-02	3.66E-03	5.63E-02	1.53E-03	0.00E+00	0.00E+00	21.56	6.66	4	1.79	0.45	29.76	0.00	0.00	15.42
12	10	4.85E-05	4.69E-02	3.20E-03	5.64E-02	6.87E-04	0.00E+00	0.00E+00	24.24	7.86	4	1.61	0.35	24.06	0.00	0.00	15.89
13	9	3.88E-05	4.14E-02	2.78E-03	5.91E-02	5.63E-03	0.00E+00	0.00E+00	30.87	10.52	4	1.82	0.67	21.24	0.00	0.00	15.78
14	7	3.88E-05	4.10E-02	2.93E-03	5.89E-02	2.69E-03	0.00E+00	0.00E+00	24.28	9.36	4	2.02	0.50	21.01	0.00	0.00	15.89
15	10	3.40E-05	4.90E-02	3.89E-03	5.66E-02	2.03E-03	0.00E+00	0.00E+00	33.11	10.82	4	1.84	0.35	25.14	0.00	0.00	15.47
16	3	2.91E-05	2.73E-02	1.58E-03	5.77E-02	2.47E-03	0.00E+00	0.00E+00	20.86	12.11	4	1.98	0.52	13.98	0.00	0.00	15.61
17	4	4.37E-05	1.87E-02	1.37E-03	5.88E-02	0.00E+00	0.00E+00	0.00E+00	27.04	13.68	4	1.92	0.47	9.58	0.00	0.00	15.26
18	9	2.91E-05	4.97E-02	3.30E-03	5.82E-02	1.82E-03	0.00E+00	0.00E+00	34.32	11.69	4	1.75	0.74	25.46	0.00	0.00	15.46
19	8	3.88E-05	4.85E-02	3.43E-03	6.94E-02	1.05E-02	0.00E+00	0.00E+00	23.46	8.48	4	1.69	0.58	24.85	0.00	0.00	14.45
20	9	3.88E-05	4.36E-02	2.91E-03	5.97E-02	1.17E-03	0.00E+00	0.00E+00	29.31	9.99	4	1.46	0.33	22.37	0.00	0.00	15.08
21	6	3.88E-05	4.20E-02	2.94E-03	6.53E-02	7.27E-03	0.00E+00	0.00E+00	20.30	8.42	2	1.47	0.58	21.55	0.00	0.00	14.19
22	9	3.40E-05	4.03E-02	3.23E-03	6.35E-02	2.38E-03	0.00E+00	0.00E+00	36.24	12.45	4	1.67	0.53	20.67	0.00	0.00	14.27
23	12	4.37E-05	7.21E-02	4.57E-03	5.99E-02	6.36E-04	0.00E+00	0.00E+00	21.03	6.24	4	1.66	0.53	36.97	0.00	0.00	14.91
24	8	3.40E-05	4.82E-02	3.39E-03	6.15E-02	2.93E-03	0.00E+00	0.00E+00	26.93	9.73	4	1.73	0.43	24.74	0.00	0.00	15.22
25	5	3.88E-05	1.41E-02	9.82E-04	6.29E-02	1.72E-02	0.00E+00	0.00E+00	50.33	22.81	3	2.14	0.39	7.23	0.00	0.00	14.11

Mean Dpar = 1.75
 Mean Dper = 0.49
 Modified Zeta = 11.057+/- 0.263

Mean 43Ca b:s = 0.060
Mean 238U b:s = 0.003
Number of grains= 25
Chi-squared = 13.4
Chi-squared prob= 0.9591
Pooled Age (Ma) = 25.1+/- 2.0

Fish Canyon Tuff

FC06

Grain Number	Natural Tracks	Area (cmxcm)	238U/43Ca (dnnls)	1 sigma (dnnls)	43Ca back:sig	238U back:sig	232Th back:sig	147Sm back:sig	FT Age (Ma)	1 sigma (Ma)	Etch Figures	Dpar (microns)	Dper (microns)	Uranium (ppm)	Thorium (ppm)	Samarium (ppm)	Pit Depth (microns)
2	10	3.40E-05	9.22E-02	7.46E-03	1.71E-02	3.22E-04	1.07E-03	0.00E+00	20.49	6.71	4	1.82	0.56	40.66	205.21	0.00	15.21
3	17	4.85E-05	6.68E-02	6.73E-03	1.92E-02	1.03E-03	3.64E-03	0.00E+00	33.61	8.87	4	1.79	0.46	29.47	131.29	0.00	14.95
4	11	4.37E-05	6.11E-02	6.80E-03	1.70E-02	6.56E-04	1.08E-03	0.00E+00	26.45	8.53	4	1.88	0.48	26.94	119.49	0.00	16.08
5	8	3.88E-05	6.41E-02	3.59E-03	1.95E-02	0.00E+00	3.27E-03	0.00E+00	20.63	7.40	4	1.66	0.46	28.28	130.72	0.00	13.41
6	11	3.88E-05	7.34E-02	4.20E-03	1.88E-02	2.84E-03	2.13E-03	0.00E+00	24.78	7.63	4	1.95	0.52	32.35	131.18	0.00	14.28
7	4	3.11E-05	4.40E-02	2.87E-03	1.94E-02	0.00E+00	5.41E-03	0.00E+00	18.79	9.49	4	1.95	0.42	19.40	76.22	0.00	14.90
8	4	4.85E-05	2.35E-02	1.48E-03	1.97E-02	1.29E-03	1.45E-02	0.00E+00	22.49	11.35	4	2.02	0.47	10.37	27.89	0.00	14.29
9	11	3.88E-05	3.85E-02	2.67E-03	2.06E-02	1.69E-03	4.53E-03	0.00E+00	47.14	14.64	4	1.94	0.62	16.98	64.46	0.00	15.29
10	6	3.88E-05	5.95E-02	4.01E-03	1.94E-02	8.50E-04	3.80E-03	0.00E+00	16.69	6.92	4	1.91	0.63	26.22	123.78	0.00	14.74
11	15	4.85E-05	5.44E-02	4.11E-03	2.02E-02	3.28E-03	3.99E-03	0.00E+00	36.41	9.84	4	2.13	0.79	24.00	125.69	0.00	15.03
12	13	4.85E-05	5.24E-02	3.67E-03	1.95E-02	2.41E-04	2.77E-03	0.00E+00	32.80	9.42	4	1.78	0.63	23.09	106.87	0.00	14.17
13	8	4.85E-05	5.08E-02	3.27E-03	2.05E-02	1.52E-03	2.86E-03	0.00E+00	20.81	7.50	4	1.88	0.44	22.42	106.39	0.00	13.92
14	11	4.85E-05	1.85E-02	1.68E-03	1.95E-02	4.14E-03	8.84E-03	0.00E+00	78.37	24.76	4	1.79	0.43	8.15	33.58	0.00	15.40
15	10	3.88E-05	4.43E-02	3.24E-03	1.97E-02	2.01E-03	3.03E-03	0.00E+00	37.26	12.13	4	2.11	0.51	19.54	80.03	0.00	16.05
16	9	3.88E-05	6.56E-02	2.82E-03	1.92E-02	1.31E-02	1.05E-02	0.00E+00	22.67	7.64	4	1.65	0.40	28.94	143.05	0.00	15.81
17	5	3.11E-05	6.51E-02	4.14E-03	2.30E-02	1.47E-03	2.53E-03	0.00E+00	15.88	7.19	4	2.17	0.60	28.70	149.63	0.00	14.15
18	9	2.38E-05	7.21E-02	4.42E-03	2.02E-02	1.24E-03	2.62E-03	0.00E+00	33.65	11.44	4	1.74	0.33	31.80	152.42	0.00	14.36
19	9	4.85E-05	4.82E-02	3.18E-03	2.13E-02	0.00E+00	2.87E-03	0.00E+00	24.71	8.42	4	1.85	0.50	21.23	100.92	0.00	14.12
20	12	4.85E-05	2.19E-02	1.57E-03	2.28E-02	0.00E+00	8.86E-03	0.00E+00	72.04	21.51	4	1.95	0.72	9.68	30.00	0.00	14.45
21	10	3.88E-05	8.41E-02	6.10E-03	2.36E-02	1.26E-03	1.52E-03	0.00E+00	19.66	6.40	4	1.87	0.70	37.08	177.76	0.00	14.04
22	8	2.43E-05	5.34E-02	3.58E-03	2.17E-02	2.53E-03	7.25E-03	0.00E+00	39.56	14.28	4	2.00	0.37	23.55	96.60	0.00	15.01
23	7	2.91E-05	5.19E-02	3.67E-03	2.43E-02	1.08E-03	1.80E-03	0.00E+00	29.73	11.46	4	1.79	0.40	22.87	103.12	0.00	13.84
24	11	4.85E-05	5.13E-02	3.51E-03	2.16E-02	1.33E-03	2.11E-03	0.00E+00	28.33	8.79	4	1.91	0.71	22.64	105.97	0.00	14.57
25	12	4.85E-05	1.22E-01	7.95E-03	2.34E-02	1.43E-03	1.03E-03	0.00E+00	12.99	3.86	4	1.94	0.56	53.90	236.93	0.00	13.83
26	8	4.85E-05	2.53E-02	1.73E-03	2.30E-02	1.71E-03	8.13E-03	0.00E+00	41.74	15.07	4	1.97	0.55	11.16	40.96	0.00	14.36
27	6	3.40E-05	2.49E-02	1.46E-03	2.33E-02	5.29E-03	5.42E-03	0.00E+00	45.42	18.77	3	2.15	0.73	10.98	39.75	0.00	14.13
28	9	4.85E-05	2.04E-02	1.64E-03	2.29E-02	5.77E-03	6.88E-03	0.00E+00	58.25	20.04	4	2.08	0.60	8.98	36.67	0.00	14.79
29	5	3.11E-05	4.98E-02	3.09E-03	2.07E-02	2.28E-03	1.64E-03	0.00E+00	20.74	9.38	4	1.94	0.23	21.96	107.43	0.00	16.40
30	7	4.85E-05	7.63E-03	4.76E-04	2.23E-02	2.54E-02	3.34E-02	0.00E+00	120.34	46.21	4	1.92	0.50	3.37	10.26	0.00	15.33
31	9	4.85E-05	5.92E-02	4.17E-03	2.12E-02	9.86E-04	1.70E-03	0.00E+00	20.12	6.87	4	1.94	0.52	26.09	141.05	0.00	15.46
32	10	3.40E-05	6.25E-02	4.19E-03	2.40E-02	8.54E-04	1.90E-03	0.00E+00	30.22	9.80	4	2.03	0.32	27.55	123.03	0.00	13.95
33	15	4.85E-05	1.32E-01	8.84E-03	2.56E-02	6.86E-04	1.66E-03	0.00E+00	15.07	4.04	4	1.94	0.51	58.07	291.09	0.00	13.74
34	6	3.06E-05	5.70E-02	3.81E-03	2.63E-02	6.17E-03	1.12E-02	0.00E+00	22.08	9.15	3	2.09	0.50	25.15	114.38	0.00	15.00
35	20	4.85E-05	6.33E-02	4.76E-03	2.64E-02	2.46E-03	3.35E-03	0.00E+00	41.74	9.91	4	2.11	0.67	27.90	124.91	0.00	13.78
36	10	4.85E-05	2.78E-02	1.95E-03	2.23E-02	3.56E-03	5.18E-03	0.00E+00	47.51	15.44	4	2.03	0.72	12.25	42.57	0.00	14.45
37	7	4.85E-05	5.62E-02	3.62E-03	2.76E-02	2.54E-03	3.03E-03	0.00E+00	16.48	6.33	4	2.05	0.60	24.78	107.91	0.00	14.20
38	5	2.72E-05	2.16E-02	1.43E-03	2.32E-02	1.55E-03	1.28E-02	0.00E+00	54.42	24.64	4	2.02	0.63	9.54	29.01	0.00	14.77
39	10	4.85E-05	3.02E-02	2.15E-03	2.08E-02	3.22E-03	6.45E-03	0.00E+00	43.71	14.21	4	2.01	0.58	13.32	44.90	0.00	15.36
40	11	3.88E-05	5.89E-02	3.65E-03	2.38E-02	4.04E-04	3.43E-03	0.00E+00	30.87	9.54	4	1.80	0.39	25.96	119.56	0.00	15.04
41	16	4.85E-05	4.87E-02	3.11E-03	2.42E-02	1.88E-03	2.57E-03	0.00E+00	43.36	11.24	4	1.81	0.54	21.49	99.03	0.00	14.78
42	12	2.18E-05	5.19E-02	2.74E-03	2.14E-02	2.87E-03	4.36E-03	0.00E+00	67.76	19.97	4	1.85	0.73	22.87	103.13	0.00	16.01
43	9	4.37E-05	1.80E-02	1.16E-03	2.41E-02	9.82E-04	4.46E-03	0.00E+00	73.00	24.86	4	1.83	0.50	7.96	26.94	0.00	14.54
44	11	4.85E-05	2.38E-02	1.88E-03	2.21E-02	1.45E-03	4.36E-03	0.00E+00	60.86	19.04	4	1.70	0.55	10.51	37.90	0.00	14.87
45	7	4.37E-05	1.25E-02	7.06E-04	2.43E-02	1.05E-03	6.92E-03	0.00E+00	82.15	31.47	4	1.73	0.38	5.50	17.12	0.00	14.73
46	7	2.43E-05	5.41E-02	3.86E-03	2.32E-02	4.72E-04	2.13E-03	0.00E+00	34.20	13.19	4	1.77	0.26	23.85	120.16	0.00	15.13
47	10	2.38E-05	3.70E-02	2.29E-03	2.18E-02	0.00E+00	3.61E-03	0.00E+00	72.64	23.49	4	2.02	0.64	16.32	68.93	0.00	14.63
48	5	2.91E-05	2.99E-02	2.58E-03	2.41E-02	8.07E-04	1.10E-02	0.00E+00	36.86	16.82	3	2.13	0.42	13.17	30.77	0.00	16.04
49	14	3.88E-05	5.84E-02	3.50E-03	2.52E-02	8.69E-04	2.06E-03	0.00E+00	39.57	10.89	4	1.87	0.48	25.76	125.12	0.00	15.23
50	8	4.85E-05	4.53E-02	2.96E-03	2.62E-02	3.47E-03	7.90E-03	0.00E+00	23.38	8.43	2	1.66	0.47	19.96	98.95	0.00	15.41
51	12	4.85E-05	7.98E-02	4.49E-03	2.35E-02	1.43E-04	2.11E-03	0.00E+00	19.90	5.88	4	1.86	0.61	35.16	170.43	0.00	16.36
52	11	4.85E-05	6.11E-02	4.32E-03	2.40E-02	2.28E-03	3.62E-03	0.00E+00	23.82	7.40	4	1.90	0.71	26.92	134.13	0.00	15.15
53	10	4.85E-05	5.51E-02	3.58E-03	2.23E-02	3.13E-03	4.23E-03	0.00E+00	23.99	7.77	4	2.06	0.60	24.31	123.30	0.00	15.84
54	10	4.85E-05	5.36E-02	3.79E-03	2.50E-02	4.03E-03	5.14E-03	0.00E+00	24.69	8.03	4	1.92	0.59	23.62	117.87	0.00	15.51
55	5	3.40E-05	5.43E-02	3.63E-03	2.22E-02	2.72E-03	1.60E-03	0.00E+00	17.40	7.88	4	1.89	0.47	23.94	123.48	0.00	15.97
56	7	3.88E-05	5.55E-02	3.47E-03	2.21E-02	1.73E-03	2.20E-03	0.00E+00	20.84	8.00	4	1.91	0.51	24.49	123.47	0.00	14.91
57	10	4.85E-05	5.88E-02	3.70E-03	2.44E-02	2.01E-03	3.89E-03	0.00E+00	22.48	7.27	4	1.81	0.68	25.94	117.25	0.00	15.79
58	7	4.37E-05	3.20E-02	3.12E-03	2.48E-02	7.75E-03	1.02E-02	0.00E+00	32.09	12.55	4	2.15	0.54	14.12	62.58	0.00	15.63
59	15	4.85E-05	3.40E-02	3.43E-03	2.23E-02	1.00E-03	2.19E-03	0.00E+00	58.17	16.20	4	1.89	0.58	15.00	67.40	0.00	15.13
60	8	4.37E-05	4.51E-02	3.22E-03	2.47E-02	4.33E-03	3.49E-03	0.00E+00	26.09	9.43	4	2.00	0.54	19.87	86.72	0.00	15.01
61	10	4.85E-05	4.80E-02	3.32E-03	2.27E-02	8.19E-04	3.34E-03	0.00E+00	27.53	8.94	4	1.71	0.44	21.17	87.75	0.00	15.16
62	8	4.85E-05	3.32E-02	2.01E-03	2.33E-02	4.19E-03	5.35E-03	0.00E+00	31.82	11.44	3	2.02	0.43	14.65	57.47	0.00	15.44

63	11	4.37E-05	5.14E-02	3.60E-03	2.45E-02	1.11E-03	3.31E-03	0.00E+00	31.41	9.76	3	2.07	0.47	22.67	99.65	0.00	15.15
64	8	4.85E-05	3.68E-02	2.97E-03	2.27E-02	9.14E-04	2.81E-03	0.00E+00	28.71	10.44	3	1.77	0.46	16.24	73.57	0.00	14.74
65	11	3.40E-05	4.09E-02	1.70E-03	2.67E-02	0.00E+00	2.34E-03	0.00E+00	50.71	15.49	4	1.94	0.64	18.03	76.61	0.00	13.75
66	5	3.40E-05	7.35E-02	5.74E-03	2.63E-02	0.00E+00	1.65E-03	0.00E+00	12.86	5.85	3	1.83	0.39	32.40	145.23	0.00	14.50
67	3	2.38E-05	5.28E-02	3.62E-03	2.93E-02	1.62E-03	2.16E-03	0.00E+00	15.33	8.92	4	1.78	0.59	23.30	100.62	0.00	13.04
68	9	3.40E-05	6.93E-02	6.87E-03	3.14E-02	3.00E-03	4.36E-03	0.00E+00	24.54	8.56	4	1.76	0.48	30.54	117.00	0.00	14.02
69	5	4.85E-05	2.58E-02	2.00E-03	2.72E-02	3.67E-03	2.24E-02	0.00E+00	25.59	11.63	3	2.11	0.57	11.39	25.32	0.00	13.60
70	4	4.85E-05	2.31E-02	1.48E-03	2.78E-02	1.22E-03	7.89E-03	0.00E+00	22.92	11.57	3	1.86	0.42	10.18	22.55	0.00	13.78
71	8	3.40E-05	4.61E-02	2.72E-03	2.60E-02	9.26E-04	1.90E-03	0.00E+00	32.75	11.77	4	1.76	0.44	20.33	91.17	0.00	14.53
72	4	3.88E-05	5.10E-02	3.77E-03	2.53E-02	5.33E-04	3.31E-03	0.00E+00	12.98	6.57	3	1.81	0.66	22.48	98.64	0.00	13.69
73	2	4.85E-05	9.40E-03	9.75E-04	2.39E-02	5.40E-03	2.59E-02	0.00E+00	28.11	20.11	2	2.40	1.03	4.15	8.71	0.00	15.22
74	9	4.85E-05	5.16E-02	3.27E-03	2.67E-02	3.95E-03	3.00E-03	0.00E+00	23.07	7.85	4	1.80	0.34	22.74	104.77	0.00	14.57
75	9	4.85E-05	5.46E-02	3.37E-03	2.72E-02	3.88E-03	3.39E-03	0.00E+00	21.79	7.41	4	1.88	0.47	24.08	117.22	0.00	13.99
76	9	2.91E-05	7.04E-02	6.60E-03	2.44E-02	3.32E-03	3.20E-03	0.00E+00	28.16	9.78	4	2.08	0.60	31.04	136.40	0.00	16.74
77	9	4.85E-05	3.46E-02	2.45E-03	2.50E-02	3.25E-03	3.35E-03	0.00E+00	34.38	11.75	3	2.10	0.46	15.25	56.77	0.00	14.92
78	9	4.85E-05	4.66E-02	3.54E-03	2.54E-02	2.11E-03	3.29E-03	0.00E+00	25.52	8.75	4	1.82	0.39	20.56	94.07	0.00	15.18
79	14	4.85E-05	5.55E-02	3.64E-03	2.90E-02	4.73E-03	5.97E-03	0.00E+00	33.32	9.21	4	1.87	0.53	24.48	118.59	0.00	15.14
80	18	4.85E-05	7.83E-02	4.79E-03	2.30E-02	1.58E-03	2.43E-03	0.00E+00	30.37	7.44	4	1.87	0.70	34.54	156.02	0.00	15.55
81	6	2.91E-05	5.64E-02	4.29E-03	2.68E-02	2.57E-03	4.01E-03	0.00E+00	23.43	9.75	4	1.95	0.49	24.88	99.45	0.00	16.01
82	9	4.85E-05	5.10E-02	3.26E-03	2.78E-02	4.69E-03	3.76E-03	0.00E+00	23.36	7.95	4	1.73	0.55	22.47	103.79	0.00	14.54
83	9	4.85E-05	5.86E-02	4.07E-03	2.93E-02	1.65E-03	1.71E-03	0.00E+00	20.30	6.93	3	1.83	0.52	25.85	124.88	0.00	13.30
84	5	4.85E-05	1.74E-02	1.36E-03	2.97E-02	1.92E-02	3.21E-02	0.00E+00	37.86	17.22	4	1.84	0.44	7.69	24.67	0.00	14.06
85	18	4.85E-05	6.36E-02	4.03E-03	2.67E-02	5.48E-04	1.68E-03	0.00E+00	37.37	9.17	3	2.04	0.48	28.06	125.62	0.00	14.23
86	3	1.75E-05	5.84E-02	3.99E-03	2.83E-02	1.43E-03	2.36E-03	0.00E+00	18.88	10.99	3	1.71	0.51	25.75	120.02	0.00	14.10
87	5	1.75E-05	4.58E-02	3.39E-03	2.34E-02	2.91E-03	5.07E-03	0.00E+00	40.01	18.17	3	1.96	0.63	20.22	86.10	0.00	16.27
88	8	3.40E-05	5.92E-02	3.88E-03	2.46E-02	1.56E-03	1.72E-03	0.00E+00	25.54	9.21	4	1.77	0.41	26.09	121.35	0.00	15.51
89	2	1.75E-05	5.43E-02	3.69E-03	2.54E-02	3.41E-03	5.41E-03	0.00E+00	13.54	9.63	2	1.68	0.58	23.94	102.87	0.00	15.29
90	11	3.88E-05	5.52E-02	3.17E-03	2.41E-02	2.65E-03	4.18E-03	0.00E+00	32.89	10.13	4	1.81	0.54	24.36	113.17	0.00	16.28
91	11	3.88E-05	6.82E-02	4.83E-03	2.53E-02	1.29E-03	2.44E-03	0.00E+00	26.65	8.28	4	1.86	0.57	30.08	132.03	0.00	15.40
92	14	4.85E-05	5.98E-02	4.52E-03	2.39E-02	0.00E+00	2.11E-03	0.00E+00	30.93	8.63	4	1.99	0.47	26.38	118.47	0.00	15.79
93	6	1.94E-05	4.36E-02	2.55E-03	2.23E-02	2.45E-03	1.80E-03	0.00E+00	45.37	18.75	4	1.94	0.79	19.24	77.06	0.00	17.45
94	10	4.85E-05	4.96E-02	3.18E-03	2.32E-02	1.84E-03	3.24E-03	0.00E+00	26.64	8.62	4	1.96	0.42	21.89	108.39	0.00	16.32
95	7	4.85E-05	4.75E-02	2.63E-03	2.19E-02	2.30E-03	2.33E-03	0.00E+00	19.51	7.47	4	1.74	0.52	20.93	101.15	0.00	16.48
96	7	2.38E-05	6.22E-02	4.39E-03	2.28E-02	1.91E-03	1.82E-03	0.00E+00	30.37	11.70	3	2.09	0.64	27.41	118.69	0.00	17.23
97	7	3.40E-05	4.55E-02	3.12E-03	2.37E-02	3.17E-03	2.62E-03	0.00E+00	29.05	11.19	3	1.69	0.44	20.06	91.83	0.00	16.10
98	9	4.85E-05	5.46E-02	3.38E-03	2.59E-02	6.60E-04	2.37E-03	0.00E+00	21.81	7.42	4	1.79	0.52	24.07	116.01	0.00	15.50
100	10	2.91E-05	5.12E-02	3.30E-03	2.38E-02	9.40E-04	1.99E-03	0.00E+00	42.98	13.92	3	1.63	0.79	22.58	105.81	0.00	16.05
101	13	4.85E-05	4.86E-02	2.96E-03	2.45E-02	3.05E-03	4.57E-03	0.00E+00	35.34	10.08	4	1.86	0.53	21.43	101.02	0.00	15.49
102	12	4.85E-05	5.08E-02	3.43E-03	2.39E-02	1.94E-03	2.41E-03	0.00E+00	31.20	9.29	4	1.91	0.55	22.41	100.41	0.00	16.96
103	4	3.88E-05	5.91E-02	4.41E-03	2.67E-02	4.09E-03	3.54E-03	0.00E+00	11.19	5.67	4	1.76	0.31	26.08	120.85	0.00	15.20
104	4	2.91E-05	4.86E-02	2.85E-03	2.58E-02	2.42E-03	5.04E-03	0.00E+00	18.15	9.15	4	1.75	0.55	21.42	103.98	0.00	15.85
105	7	4.85E-05	4.58E-02	3.25E-03	2.38E-02	2.52E-04	3.52E-03	0.00E+00	20.20	7.79	4	1.84	0.70	20.21	90.01	0.00	16.10
106	10	4.85E-05	5.29E-02	3.06E-03	2.79E-02	3.77E-03	4.41E-03	0.00E+00	24.99	8.06	4	1.93	0.58	23.33	111.21	0.00	16.19
107	8	1.36E-05	5.34E-02	3.20E-03	2.25E-02	1.58E-03	1.25E-03	0.00E+00	70.46	25.33	4	1.78	0.49	23.56	109.64	0.00	17.52
108	6	3.11E-05	5.62E-02	3.61E-03	2.25E-02	2.77E-03	2.18E-03	0.00E+00	22.08	9.14	3	2.00	0.57	24.76	112.10	0.00	16.79
109	10	3.88E-05	5.28E-02	4.08E-03	2.08E-02	9.80E-04	2.01E-03	0.00E+00	31.31	10.23	4	1.69	0.52	23.26	113.36	0.00	17.99
110	14	2.43E-05	7.64E-02	5.84E-03	2.31E-02	9.93E-04	1.75E-03	0.00E+00	48.38	13.51	4	1.90	0.32	33.68	148.39	0.00	17.17
111	5	3.11E-05	3.98E-02	2.56E-03	2.66E-02	1.86E-03	4.11E-03	0.00E+00	25.92	11.73	4	1.74	0.41	17.57	80.70	0.00	14.47
112	10	4.85E-05	4.76E-02	3.15E-03	2.67E-02	2.78E-04	3.03E-03	0.00E+00	27.79	9.01	4	1.91	0.33	20.98	93.56	0.00	14.08
113	10	4.85E-05	1.69E-02	1.11E-03	2.64E-02	1.01E-03	7.73E-03	0.00E+00	77.93	25.25	4	1.86	0.82	7.45	22.94	0.00	14.51
114	12	3.40E-05	6.13E-02	3.69E-03	3.11E-02	2.94E-03	3.96E-03	0.00E+00	36.94	10.94	4	1.90	0.52	27.03	130.70	0.00	14.83
115	6	3.88E-05	4.44E-02	2.41E-03	2.83E-02	8.63E-03	9.01E-03	0.00E+00	22.35	9.22	4	1.88	0.45	19.57	91.78	0.00	15.64
116	7	4.85E-05	4.22E-02	3.62E-03	2.46E-02	2.04E-03	2.77E-03	0.00E+00	21.93	8.52	4	1.66	0.51	18.61	85.51	0.00	15.11
117	19	4.85E-05	5.22E-02	3.05E-03	2.99E-02	2.04E-03	3.43E-03	0.00E+00	48.05	11.45	3	1.95	0.69	23.01	110.35	0.00	15.70
118	7	4.37E-05	3.14E-02	2.39E-03	2.37E-02	7.43E-03	6.36E-03	0.00E+00	32.76	12.66	3	1.97	0.48	13.83	51.10	0.00	16.50
119	6	4.85E-05	5.50E-02	3.61E-03	2.62E-02	2.42E-03	1.92E-03	0.00E+00	14.43	5.98	4	1.75	0.58	24.26	127.90	0.00	15.38
120	12	4.85E-05	4.59E-02	2.72E-03	2.54E-02	5.20E-04	2.36E-03	0.00E+00	34.53	10.22	4	1.88	0.71	20.25	90.23	0.00	16.17
121	3	2.72E-05	5.64E-02	3.27E-03	2.85E-02	1.75E-03	3.25E-03	0.00E+00	12.56	7.30	1	1.62	0.50	24.88	111.16	0.00	15.70
122	6	2.91E-05	4.66E-02	2.45E-03	2.30E-02	3.25E-04	1.79E-03	0.00E+00	28.39	11.71	4	2.08	0.62	20.53	98.48	0.00	16.38
123	7	4.37E-05	5.68E-02	3.96E-03	2.78E-02	2.25E-03	4.36E-03	0.00E+00	18.11	6.98	2	1.91	0.64	25.06	74.39	0.00	14.58
124	3	2.38E-05	2.44E-02	1.97E-03	2.40E-02	3.91E-03	5.11E-03	0.00E+00	33.20	19.38	3	2.22	0.50	10.74	31.54	0.00	16.29
125	10	2.43E-05	5.65E-02	3.44E-03	2.70E-02	8.78E-04	1.19E-03	0.00E+00	46.71	15.09	4	1.79	0.30	24.92	114.90	0.00	15.58
126	12	3.88E-05	4.64E-02	2.96E-03	2.94E-02	3.00E-03	7.09E-03	0.00E+00	42.68	12.67	4	1.93	0.64	20.46	93.86	0.00	15.75
127	10	4.85E-05	3.09E-02	1.98E-03	2.88E-02	2.20E-03	1.05E-02	0.00E+00	42.77	13.85	4	1.77	0.43	13.61	52.95	0.00</	

141	7	3.88E-05	4.94E-02	3.11E-03	3.02E-02	9.17E-03	5.51E-03	0.00E+00	23.41	8.99	3	1.94	0.49	21.79	108.37	0.00	16.03
142	6	3.40E-05	5.70E-02	4.31E-03	2.79E-02	4.46E-03	4.49E-03	0.00E+00	19.90	8.28	4	1.73	0.45	25.12	116.22	0.00	17.11
143	8	3.88E-05	4.73E-02	2.66E-03	2.40E-02	1.32E-03	1.95E-03	0.00E+00	27.96	10.04	4	1.79	0.43	20.85	86.54	0.00	17.49
144	10	4.85E-05	5.17E-02	3.49E-03	2.77E-02	3.11E-04	2.50E-03	0.00E+00	25.55	8.29	4	1.81	0.58	22.81	110.44	0.00	14.84
145	7	3.88E-05	5.48E-02	3.38E-03	2.73E-02	3.90E-03	2.61E-03	0.00E+00	21.12	8.11	4	1.78	0.36	24.16	110.47	0.00	15.08
146	10	4.85E-05	4.09E-02	2.18E-03	3.02E-02	2.88E-03	3.97E-03	0.00E+00	32.32	10.40	4	1.65	0.50	18.03	72.63	0.00	14.75
147	13	4.85E-05	4.78E-02	3.35E-03	2.66E-02	2.07E-03	2.17E-03	0.00E+00	35.96	10.33	4	1.85	0.46	21.06	99.52	0.00	15.07
148	9	4.85E-05	2.08E-02	2.28E-03	3.67E-02	4.65E-02	4.08E-02	0.00E+00	57.17	20.12	4	2.02	0.43	9.16	34.21	0.00	15.23
149	11	4.85E-05	4.73E-02	2.66E-03	2.92E-02	3.47E-04	2.64E-03	0.00E+00	30.75	9.47	3	1.91	0.64	20.85	90.84	0.00	14.53
150	5	2.91E-05	4.35E-02	2.72E-03	3.36E-02	7.60E-03	9.59E-03	0.00E+00	25.35	11.47	4	1.76	0.56	19.17	85.60	0.00	15.89
151	15	4.85E-05	5.93E-02	4.36E-03	2.86E-02	3.09E-03	2.89E-03	0.00E+00	33.40	9.01	4	1.95	0.45	26.17	118.55	0.00	15.63
152	2	2.91E-05	2.14E-02	1.34E-03	2.59E-02	1.19E-02	2.81E-02	0.00E+00	20.56	14.61	3	1.78	0.34	9.45	31.34	0.00	17.03
153	11	4.85E-05	5.15E-02	3.03E-03	2.61E-02	1.26E-03	1.56E-03	0.00E+00	28.24	8.71	4	1.91	0.61	22.71	108.42	0.00	15.85
154	7	4.85E-05	5.24E-02	5.16E-03	2.65E-02	2.16E-03	3.57E-03	0.00E+00	17.66	6.91	4	1.89	0.43	23.12	99.80	0.00	16.97
155	9	4.85E-05	5.96E-02	3.59E-03	2.70E-02	3.98E-03	2.30E-03	0.00E+00	19.97	6.78	4	2.02	0.57	26.29	116.24	0.00	16.31
156	18	4.85E-05	5.60E-02	3.93E-03	2.69E-02	1.90E-03	4.68E-03	0.00E+00	42.47	10.51	4	2.11	0.62	24.68	116.51	0.00	16.95
157	10	4.85E-05	4.51E-02	3.17E-03	2.49E-02	1.62E-03	5.68E-03	0.00E+00	29.31	9.53	4	1.89	0.61	19.88	89.88	0.00	17.82
158	4	3.88E-05	1.02E-02	6.88E-04	2.58E-02	8.20E-03	2.77E-02	0.00E+00	64.83	32.75	3	1.59	0.36	4.48	11.48	0.00	16.36
159	3	4.85E-05	1.36E-02	8.37E-04	2.78E-02	3.82E-03	4.66E-03	0.00E+00	29.24	17.00	3	2.04	0.59	5.98	16.13	0.00	16.78
160	5	2.43E-05	7.59E-02	4.69E-03	3.06E-02	2.98E-03	1.99E-03	0.00E+00	17.43	7.88	3	1.84	0.45	33.47	158.50	0.00	17.81
161	3	4.85E-05	3.19E-02	2.90E-03	2.86E-02	1.50E-03	5.44E-03	0.00E+00	12.43	7.27	3	1.89	0.40	14.08	62.13	0.00	15.56
162	13	4.85E-05	6.10E-02	3.76E-03	2.78E-02	2.65E-04	2.93E-03	0.00E+00	28.19	8.04	2	1.60	0.69	26.88	117.89	0.00	15.37
163	5	2.91E-05	4.80E-02	2.75E-03	2.49E-02	1.93E-03	2.41E-03	0.00E+00	22.95	10.37	4	2.14	0.84	21.17	96.75	0.00	16.04
164	11	4.85E-05	5.10E-02	3.00E-03	3.54E-02	6.13E-03	6.32E-03	0.00E+00	28.53	8.80	4	1.92	0.66	22.47	104.94	0.00	16.10
165	10	4.85E-05	4.83E-02	3.12E-03	2.51E-02	2.17E-03	1.88E-03	0.00E+00	27.35	8.86	4	1.93	0.43	21.31	110.14	0.00	16.57
166	11	4.85E-05	4.91E-02	3.26E-03	2.89E-02	2.68E-03	3.02E-03	0.00E+00	29.62	9.18	3	2.14	0.62	21.64	112.71	0.00	16.99
167	4	4.85E-05	2.02E-02	1.22E-03	2.68E-02	6.88E-03	1.38E-02	0.00E+00	26.17	13.20	4	1.93	0.65	8.91	26.37	0.00	16.07
168	27	4.85E-05	5.44E-02	3.24E-03	2.72E-02	1.09E-03	9.81E-04	0.00E+00	65.44	13.30	4	1.97	0.61	23.98	109.07	0.00	16.30
169	5	2.91E-05	5.27E-02	2.64E-03	2.49E-02	2.70E-03	3.32E-03	0.00E+00	20.91	9.42	3	1.81	0.49	23.25	110.50	0.00	17.02
170	12	4.85E-05	4.97E-02	3.28E-03	2.41E-02	3.70E-03	2.65E-03	0.00E+00	31.90	9.48	4	1.84	0.36	21.92	98.40	0.00	16.87
171	19	4.85E-05	5.09E-02	3.24E-03	2.58E-02	5.10E-03	5.07E-03	0.00E+00	49.31	11.81	4	1.98	0.66	22.42	97.23	0.00	16.80
172	4	2.91E-05	5.65E-02	2.97E-03	2.97E-02	1.03E-03	1.91E-03	0.00E+00	15.62	7.86	3	1.85	0.47	24.90	118.17	0.00	14.87
173	7	3.88E-05	5.55E-02	3.26E-03	3.22E-02	4.70E-03	7.29E-03	0.00E+00	20.86	8.00	4	1.79	0.73	24.46	109.82	0.00	14.77
174	8	3.40E-05	6.04E-02	3.83E-03	3.31E-02	3.77E-03	1.09E-02	0.00E+00	25.04	9.02	3	1.72	0.51	26.61	115.92	0.00	15.21
175	4	4.85E-05	4.89E-02	2.71E-03	3.45E-02	6.31E-03	2.07E-02	0.00E+00	10.83	5.46	3	1.84	0.47	21.56	60.26	0.00	15.09
176	7	4.85E-05	4.42E-02	2.25E-03	2.85E-02	4.33E-03	3.77E-03	0.00E+00	20.93	8.00	4	1.83	0.54	19.51	94.05	0.00	15.55
177	12	3.88E-05	5.55E-02	4.08E-03	3.17E-02	2.60E-03	4.51E-03	0.00E+00	35.68	10.67	4	1.90	0.55	24.49	107.70	0.00	15.02
178	16	4.85E-05	4.20E-02	3.07E-03	2.74E-02	3.60E-03	5.48E-03	0.00E+00	50.25	13.15	3	1.96	0.52	18.53	75.48	0.00	15.39
179	8	3.88E-05	4.76E-02	3.14E-03	3.13E-02	3.39E-03	4.47E-03	0.00E+00	27.80	10.03	4	1.89	0.33	20.97	96.79	0.00	15.19
180	7	3.11E-05	4.32E-02	2.79E-03	3.62E-02	8.76E-03	1.13E-02	0.00E+00	33.45	12.86	4	1.74	0.45	19.05	80.68	0.00	14.76
181	11	4.85E-05	2.10E-02	1.40E-03	3.93E-02	3.06E-02	2.77E-02	0.00E+00	69.07	21.40	4	1.94	0.46	9.25	34.01	0.00	16.69
182	10	2.91E-05	4.20E-02	2.59E-03	3.18E-02	1.03E-02	7.06E-03	0.00E+00	52.35	16.92	4	1.80	0.73	18.52	94.25	0.00	15.65
183	14	4.85E-05	5.41E-02	3.52E-03	3.87E-02	9.61E-03	1.25E-02	0.00E+00	34.19	9.45	4	1.82	0.60	23.86	106.02	0.00	14.35
184	10	3.88E-05	4.71E-02	2.61E-03	2.96E-02	0.00E+00	3.27E-03	0.00E+00	35.08	11.30	3	1.90	0.56	20.75	95.77	0.00	14.27
185	16	3.88E-05	5.80E-02	4.13E-03	3.65E-02	2.99E-03	5.82E-03	0.00E+00	45.50	11.89	4	1.75	0.41	25.58	117.45	0.00	14.30
186	10	3.40E-05	4.70E-02	2.68E-03	3.00E-02	4.04E-03	5.73E-03	0.00E+00	40.15	12.95	4	1.85	0.61	20.72	89.13	0.00	15.04
187	10	4.85E-05	6.04E-02	4.11E-03	2.79E-02	2.70E-03	2.17E-03	0.00E+00	21.89	7.10	4	1.89	0.50	26.64	122.67	0.00	16.62
188	11	3.88E-05	4.18E-02	2.99E-03	3.35E-02	9.35E-03	1.05E-02	0.00E+00	43.43	13.51	4	1.67	0.29	18.43	79.00	0.00	15.71
189	9	4.85E-05	1.22E-02	8.89E-04	3.13E-02	2.24E-02	2.42E-02	0.00E+00	96.99	33.19	4	1.66	0.23	5.38	17.55	0.00	14.98
190	8	1.94E-05	4.84E-02	2.91E-03	3.10E-02	2.76E-03	1.23E-03	0.00E+00	54.57	19.62	3	2.00	0.88	21.32	108.76	0.00	15.47
191	7	3.88E-05	1.75E-02	1.20E-03	2.93E-02	4.58E-03	2.35E-02	0.00E+00	65.92	25.39	3	1.80	0.49	7.71	25.17	0.00	16.25
192	7	4.85E-05	5.54E-02	3.46E-03	2.85E-02	1.37E-03	2.05E-03	0.00E+00	16.71	6.42	4	1.68	0.47	24.44	112.08	0.00	15.56
193	5	4.85E-05	1.19E-02	6.70E-04	3.02E-02	2.24E-02	3.38E-02	0.00E+00	55.49	25.06	2	1.90	0.52	5.24	17.57	0.00	14.89
194	7	4.85E-05	1.81E-02	1.01E-03	2.88E-02	5.16E-03	1.03E-02	0.00E+00	50.98	19.52	4	1.94	0.65	7.99	25.73	0.00	15.30
195	4	2.43E-05	4.51E-02	2.54E-03	3.82E-02	5.44E-03	2.57E-02	0.00E+00	23.43	11.81	4	1.67	0.53	19.91	89.86	0.00	15.30
196	9	4.85E-05	3.10E-02	1.91E-03	3.42E-02	1.93E-02	2.02E-02	0.00E+00	38.39	13.05	4	1.97	0.63	13.65	55.78	0.00	15.49
197	8	4.85E-05	4.40E-02	2.70E-03	3.25E-02	3.32E-03	6.86E-03	0.00E+00	24.05	8.66	3	1.95	0.57	19.39	85.73	0.00	15.29
198	11	4.37E-05	3.61E-02	3.50E-03	2.80E-02	6.67E-03	5.94E-03	0.00E+00	44.68	14.20	4	2.03	0.71	15.92	54.98	0.00	18.03
199	5	4.37E-05	1.52E-02	9.88E-04	2.62E-02	6.41E-03	1.06E-02	0.00E+00	48.31	21.87	2	1.78	0.62	6.69	22.69	0.00	17.22
200	9	4.85E-05	4.14E-02	2.11E-03	2.68E-02	1.91E-03	3.81E-03	0.00E+00	28.71	9.71	4	1.93	0.63	18.27	82.68	0.00	16.31
201	4	4.37E-05	4.85E-02	2.91E-03	2.91E-02	2.84E-03	2.45E-03	0.00E+00	12.13	6.12	3	1.81	0.57	21.38	100.98	0.00	15.31
202	8	3.11E-05	4.34E-02	2.56E-03	3.04E-02	5.81E-03	6.08E-03	0.00E+00	38.07	13.68	4	1.95	0.52	19.13	87.18	0.00	16.26
203	12	4.85E-05	4.29E-02	2.50E-03	2.91E-02	2.00E-03	5.36E-03	0.00E+00	36.95	10.92	4	1.65	0.41	18.92	85.03	0.00	15.91
204	10	4.37E-05	5.27E-02	3.83E-03	2.84E-02	9.64E-04	3.98E-03	0.00E+00	27.85	9.06	3	1.78	0.59				

218	10	4.85E-05	4.19E-02	2.65E-03	3.07E-02	3.86E-03	5.47E-03	0.00E+00	31.52	10.20	4	1.90	0.45	18.49	81.48	0.00	14.33
219	10	4.85E-05	4.51E-02	3.02E-03	3.25E-02	3.75E-03	3.82E-03	0.00E+00	29.28	9.50	4	1.84	0.67	19.90	93.83	0.00	14.09
220	5	4.85E-05	1.44E-02	7.52E-04	3.04E-02	7.51E-03	8.48E-03	0.00E+00	45.69	20.61	3	2.11	0.67	6.37	21.21	0.00	13.72
221	8	4.85E-05	6.01E-02	3.99E-03	3.49E-02	5.10E-04	1.06E-03	0.00E+00	17.62	6.36	4	1.88	0.38	26.48	122.27	0.00	12.62
222	19	4.85E-05	6.09E-02	3.37E-03	4.74E-02	1.27E-02	1.82E-02	0.00E+00	41.21	9.79	4	2.06	0.70	26.85	113.59	0.00	13.82
223	8	4.85E-05	4.36E-02	1.74E-03	3.84E-02	1.21E-02	8.32E-03	0.00E+00	24.29	8.67	3	1.96	0.50	19.20	81.68	0.00	13.31
224	11	4.85E-05	4.83E-02	2.34E-03	3.83E-02	0.00E+00	3.34E-03	0.00E+00	29.95	9.18	3	1.86	0.40	21.41	95.42	0.00	12.35
225	10	3.88E-05	5.41E-02	2.57E-03	4.30E-02	7.88E-03	9.28E-03	0.00E+00	30.53	9.79	4	1.80	0.50	23.87	110.23	0.00	12.46
226	10	4.85E-05	7.21E-02	3.90E-03	3.30E-02	8.41E-04	2.75E-03	0.00E+00	18.36	5.91	4	2.01	0.46	31.77	147.93	0.00	13.31
227	6	4.37E-05	4.10E-02	2.10E-03	3.56E-02	1.15E-02	1.33E-02	0.00E+00	21.50	8.86	4	1.94	0.53	18.09	88.09	0.00	13.85
228	6	3.40E-05	5.10E-02	2.86E-03	3.51E-02	4.97E-03	4.95E-03	0.00E+00	22.23	9.18	3	2.04	0.65	22.48	111.96	0.00	13.95
229	5	2.91E-05	4.31E-02	2.38E-03	3.42E-02	2.66E-03	5.39E-03	0.00E+00	25.58	11.55	3	1.88	0.43	18.99	85.58	0.00	13.50
230	8	4.85E-05	1.59E-02	8.43E-04	3.91E-02	1.99E-02	3.68E-02	0.00E+00	66.40	23.80	4	2.09	0.70	7.00	21.04	0.00	13.94
231	9	4.85E-05	1.96E-02	1.29E-03	3.08E-02	0.00E+00	9.15E-03	0.00E+00	60.41	20.59	3	2.06	0.55	8.66	28.63	0.00	14.43
232	10	4.37E-05	5.38E-02	3.22E-03	3.92E-02	6.22E-03	3.94E-03	0.00E+00	27.31	8.82	4	1.80	0.52	23.71	109.71	0.00	14.48
233	13	3.88E-05	5.57E-02	3.45E-03	3.12E-02	1.89E-03	2.19E-03	0.00E+00	38.52	10.99	4	1.93	0.65	24.57	113.71	0.00	14.68
234	10	3.11E-05	4.89E-02	2.93E-03	2.98E-02	3.80E-03	4.13E-03	0.00E+00	42.19	13.63	3	1.93	0.83	21.56	109.56	0.00	15.69
235	2	1.75E-05	4.39E-02	2.22E-03	2.74E-02	2.26E-03	2.98E-03	0.00E+00	16.75	11.88	3	1.92	0.37	19.35	85.62	0.00	15.62
236	9	4.85E-05	2.66E-02	2.36E-03	2.96E-02	4.27E-03	5.78E-03	0.00E+00	44.69	15.46	4	1.66	0.34	11.72	36.82	0.00	15.29
237	16	4.37E-05	4.96E-02	3.65E-03	2.90E-02	8.16E-04	2.05E-03	0.00E+00	47.27	12.38	4	2.00	0.57	21.89	115.51	0.00	15.31
238	8	4.85E-05	1.46E-02	2.66E-03	2.78E-02	1.53E-02	1.69E-02	0.00E+00	71.96	28.68	4	1.99	0.56	6.46	17.78	0.00	15.47
239	9	4.85E-05	7.70E-02	4.68E-03	2.64E-02	5.77E-04	2.16E-03	0.00E+00	15.47	5.26	4	1.74	0.68	33.93	156.54	0.00	16.16
240	6	2.91E-05	5.03E-02	3.94E-03	2.88E-02	4.42E-03	7.78E-03	0.00E+00	26.29	10.95	3	2.12	0.77	22.17	84.67	0.00	17.32
241	14	4.85E-05	4.95E-02	3.55E-03	3.19E-02	2.77E-03	3.22E-03	0.00E+00	37.34	10.38	4	1.90	0.50	21.84	109.18	0.00	14.79
242	12	4.85E-05	5.55E-02	3.71E-03	2.89E-02	0.00E+00	1.32E-03	0.00E+00	28.60	8.51	4	2.12	0.52	24.45	132.06	0.00	15.11
243	11	4.85E-05	4.55E-02	2.65E-03	3.17E-02	6.85E-03	8.01E-03	0.00E+00	31.93	9.84	4	2.09	0.50	20.08	101.90	0.00	15.53
244	8	4.85E-05	4.75E-02	2.93E-03	3.20E-02	6.39E-03	6.00E-03	0.00E+00	22.25	8.01	4	2.26	0.56	20.96	107.45	0.00	15.73
245	21	4.85E-05	8.19E-02	4.27E-03	3.33E-02	2.44E-03	3.27E-03	0.00E+00	33.87	7.65	4	1.86	0.51	36.13	165.60	0.00	14.53
246	3	4.85E-05	8.91E-03	6.47E-04	3.08E-02	1.29E-02	5.71E-02	0.00E+00	44.46	25.90	3	1.96	0.69	3.93	10.36	0.00	14.52
247	20	4.85E-05	5.63E-02	3.53E-03	2.77E-02	2.57E-04	2.26E-03	0.00E+00	46.90	10.96	4	1.85	0.45	24.82	117.01	0.00	17.13
248	6	1.94E-05	4.44E-02	2.45E-03	2.28E-02	2.73E-04	2.67E-03	0.00E+00	44.59	18.41	4	1.87	0.40	19.58	93.51	0.00	15.36
249	7	4.85E-05	2.04E-02	1.11E-03	2.38E-02	2.01E-03	8.85E-03	0.00E+00	45.22	17.31	4	2.00	0.42	9.01	30.69	0.00	15.66
250	8	3.88E-05	7.65E-02	6.13E-03	2.57E-02	1.31E-03	2.23E-03	0.00E+00	17.29	6.28	4	1.92	0.81	33.75	151.51	0.00	15.50
251	10	2.33E-05	7.44E-02	4.03E-03	2.12E-02	6.02E-04	6.97E-04	0.00E+00	36.97	11.90	4	1.86	0.65	32.82	163.09	0.00	16.62
252	13	3.88E-05	4.77E-02	3.35E-03	2.38E-02	8.23E-04	4.53E-03	0.00E+00	44.95	12.91	4	1.59	0.29	21.05	108.87	0.00	16.40
253	14	4.85E-05	4.03E-02	4.46E-03	2.29E-02	0.00E+00	1.71E-03	0.00E+00	45.81	13.31	4	1.78	0.30	17.79	81.40	0.00	16.90
254	12	3.88E-05	5.73E-02	5.92E-03	2.40E-02	1.06E-03	1.40E-03	0.00E+00	34.57	10.64	4	1.79	0.36	25.28	123.93	0.00	16.98
255	12	4.85E-05	3.93E-02	4.54E-03	1.98E-02	3.37E-04	1.57E-03	0.00E+00	40.37	12.60	4	2.21	0.63	17.31	75.09	0.00	19.48
256	16	4.85E-05	7.95E-02	6.02E-03	2.10E-02	5.37E-04	8.84E-04	0.00E+00	26.60	6.98	4	1.86	0.24	35.07	170.55	0.00	18.10
257	7	1.94E-05	5.65E-02	2.93E-03	2.43E-02	1.10E-03	1.75E-03	0.00E+00	40.87	15.63	4	1.93	0.44	24.93	133.23	0.00	15.98
258	9	3.88E-05	4.60E-02	2.56E-03	2.66E-02	4.27E-03	4.26E-03	0.00E+00	32.34	10.96	4	1.84	0.58	20.27	99.09	0.00	16.43
259	11	3.11E-05	7.25E-02	5.39E-03	2.86E-02	3.37E-03	5.01E-03	0.00E+00	31.32	9.76	4	2.08	0.56	31.98	133.59	0.00	16.50
260	6	2.91E-05	3.89E-02	2.06E-03	2.40E-02	1.05E-03	2.23E-03	0.00E+00	33.98	14.02	4	1.88	0.50	17.15	81.69	0.00	16.73
261	6	4.85E-05	1.30E-02	1.16E-03	2.02E-02	4.93E-03	2.22E-02	0.00E+00	60.79	25.46	4	2.05	0.51	5.74	18.17	0.00	19.35
262	10	2.43E-05	6.25E-02	5.81E-03	2.33E-02	0.00E+00	1.40E-03	0.00E+00	42.28	13.98	4	1.85	0.51	27.54	130.85	0.00	16.67
263	10	2.91E-05	6.71E-02	5.51E-03	2.46E-02	0.00E+00	9.02E-04	0.00E+00	32.80	10.75	4	1.77	0.33	29.61	137.41	0.00	16.28
264	9	6.22E-05	5.51E-02	4.26E-03	2.53E-02	1.10E-03	3.24E-03	0.00E+00	39.98	13.72	4	1.78	0.57	24.28	118.14	0.00	15.98
265	3	4.85E-05	1.69E-02	1.48E-03	2.18E-02	3.39E-03	6.47E-03	0.00E+00	23.44	13.70	2	1.82	0.47	7.46	25.83	0.00	17.94
266	5	4.85E-05	2.36E-02	2.36E-03	2.33E-02	1.60E-03	3.12E-03	0.00E+00	28.06	13.06	4	1.88	0.40	10.39	39.94	0.00	17.04
267	9	2.33E-05	4.95E-02	3.17E-03	2.36E-02	1.70E-03	1.27E-03	0.00E+00	50.03	17.03	4	1.63	0.56	21.81	96.98	0.00	16.85
268	14	3.88E-05	4.72E-02	2.61E-03	2.48E-02	2.40E-03	8.49E-04	0.00E+00	48.91	13.41	4	2.16	0.51	20.82	105.17	0.00	17.10
269	3	3.88E-05	1.60E-02	8.90E-04	2.48E-02	3.98E-03	8.03E-03	0.00E+00	30.97	17.98	3	2.03	0.50	7.06	23.89	0.00	16.20
270	16	3.40E-05	6.22E-02	3.81E-03	2.54E-02	2.40E-04	2.03E-03	0.00E+00	48.48	12.54	4	2.16	0.46	27.44	142.10	0.00	16.58
271	6	3.11E-05	4.11E-02	2.69E-03	2.37E-02	2.91E-03	3.06E-03	0.00E+00	30.18	12.50	4	1.66	0.36	18.10	83.83	0.00	17.18
272	5	1.75E-05	4.26E-02	2.62E-03	2.57E-02	2.03E-03	3.10E-03	0.00E+00	43.01	19.45	4	1.84	0.42	18.80	94.25	0.00	16.53
273	8	3.88E-05	4.63E-02	2.84E-03	2.49E-02	1.00E-03	1.85E-03	0.00E+00	28.57	10.28	4	1.95	0.45	20.40	102.26	0.00	16.70
274	4	2.91E-05	5.43E-02	2.79E-03	2.76E-02	2.66E-03	4.01E-03	0.00E+00	16.24	8.17	4	1.88	0.42	23.95	115.29	0.00	17.36
275	5	3.40E-05	5.90E-02	4.22E-03	2.63E-02	0.00E+00	1.60E-03	0.00E+00	16.02	7.27	4	1.82	0.50	26.02	120.81	0.00	16.40
276	7	4.85E-05	4.10E-02	3.42E-03	2.52E-02	5.16E-03	5.28E-03	0.00E+00	22.56	8.75	4	1.91	0.31	18.09	91.51	0.00	17.64
277	4	2.91E-05	5.02E-02	4.61E-03	2.35E-02	2.47E-03	2.36E-03	0.00E+00	17.57	8.94	4	1.80	0.44	22.14	92.37	0.00	18.75
278	13	4.37E-05	4.15E-02	2.07E-03	2.34E-02	0.00E+00	2.86E-03	0.00E+00	45.92	13.00	4	1.95	0.53	18.31	85.32	0.00	17.41
279	5	2.91E-05	3.08E-02	2.31E-03	2.43E-02	3.08E-03	4.23E-03	0.00E+00	35.79	16.26	3	1.96	0.47	13.56	55.46	0.00	17.68
280	2	1.75E-05	4.16E-02	2.40E-03	2.48E-02	8.89E-04	1.65E-03	0.00E+00	17.67	12.54	3	1.87	0.47	18.34	83.26	0.00	17.43
281	4	3.88E-05	2.53E-02	1.77E-03	2.48E-02	2.35E-03	6.63E-03	0.00E+00	26.13	13.21	3	1					

295	6	3.11E-05	3.86E-02	3.85E-03	2.43E-02	1.01E-03	3.57E-03	0.00E+00	32.12	13.52	4	1.76	0.45	17.01	85.72	0.00	19.81
296	12	4.37E-05	3.34E-02	2.95E-03	2.34E-02	0.00E+00	2.92E-03	0.00E+00	52.62	15.95	4	1.85	0.64	14.74	68.00	0.00	17.98
297	11	4.85E-05	5.12E-02	3.30E-03	2.75E-02	2.85E-04	1.44E-03	0.00E+00	28.41	8.79	4	1.89	0.60	22.57	120.18	0.00	17.69
298	9	4.37E-05	2.05E-02	1.72E-03	2.48E-02	2.84E-03	8.82E-03	0.00E+00	64.32	22.17	4	1.97	0.62	9.04	31.75	0.00	17.72
299	7	4.37E-05	3.39E-02	2.63E-03	2.31E-02	3.32E-03	1.26E-03	0.00E+00	30.31	11.72	4	1.86	0.51	14.95	69.09	0.00	20.04
300	4	3.88E-05	4.87E-02	3.31E-03	2.30E-02	5.51E-04	1.86E-03	0.00E+00	13.59	6.87	3	1.95	0.56	21.47	103.99	0.00	19.21
301	11	4.85E-05	6.23E-02	2.58E-03	2.57E-02	0.00E+00	1.23E-03	0.00E+00	23.37	7.14	3	2.04	0.63	27.45	139.86	0.00	17.16
302	9	2.38E-05	3.78E-02	2.35E-03	9.11E-02	1.44E-02	1.30E-02	0.00E+00	64.03	21.78	4	1.83	0.48	16.67	112.86	0.00	4.96
303	11	4.85E-05	4.97E-02	3.06E-03	2.49E-02	5.84E-04	1.52E-03	0.00E+00	29.26	9.04	3	1.89	0.43	21.91	110.96	0.00	17.09
304	5	4.37E-05	3.34E-02	2.76E-03	2.56E-02	6.11E-03	3.89E-03	0.00E+00	22.02	10.03	4	1.59	0.12	14.72	74.12	0.00	17.67
305	4	2.91E-05	4.06E-02	1.90E-03	2.77E-02	3.72E-04	3.01E-03	0.00E+00	21.70	10.91	4	1.98	0.57	17.92	86.32	0.00	17.04
306	8	3.11E-05	4.11E-02	3.29E-03	2.48E-02	1.41E-03	3.43E-03	0.00E+00	40.15	14.59	4	1.86	0.35	18.13	89.30	0.00	18.87
307	7	2.91E-05	3.64E-02	2.11E-03	2.23E-02	1.19E-03	2.77E-03	0.00E+00	42.34	16.23	4	2.15	0.55	16.04	77.67	0.00	20.76
308	10	4.85E-05	5.45E-02	3.71E-03	2.43E-02	0.00E+00	1.99E-03	0.00E+00	24.26	7.87	4	1.73	0.37	24.04	122.75	0.00	17.84
309	16	4.37E-05	5.70E-02	3.30E-03	2.46E-02	3.75E-04	1.32E-03	0.00E+00	41.17	10.62	4	2.05	0.56	25.15	130.69	0.00	17.40
310	4	1.75E-05	5.96E-02	3.61E-03	2.59E-02	1.74E-03	1.01E-03	0.00E+00	24.67	12.44	3	2.03	0.57	26.26	136.42	0.00	17.37
311	12	3.88E-05	4.45E-02	3.51E-03	2.61E-02	4.05E-03	4.49E-03	0.00E+00	44.48	13.36	4	1.85	0.46	19.63	92.92	0.00	17.89
312	8	2.38E-05	3.77E-02	3.13E-03	2.79E-02	5.98E-03	4.57E-03	0.00E+00	57.16	20.81	4	1.97	0.36	16.61	79.38	0.00	16.82
313	12	4.85E-05	4.68E-02	3.11E-03	2.57E-02	1.50E-03	2.26E-03	0.00E+00	33.85	10.06	4	1.97	0.41	20.66	108.95	0.00	17.69
314	5	2.91E-05	3.87E-02	2.45E-03	2.56E-02	3.76E-03	4.18E-03	0.00E+00	28.49	12.89	4	1.71	0.60	17.05	85.40	0.00	17.73
315	5	7.22E-05	3.83E-02	2.46E-03	3.00E-02	1.70E-03	1.86E-03	0.00E+00	30.85	13.96	4	1.79	0.50	16.87	82.92	0.00	15.33
316	5	2.91E-05	2.20E-02	1.51E-03	2.81E-02	3.57E-03	9.40E-03	0.00E+00	49.90	22.61	3	2.24	0.67	9.72	39.50	0.00	16.55
317	6	3.11E-05	4.18E-02	3.01E-03	2.66E-02	1.11E-03	2.95E-03	0.00E+00	29.62	12.30	4	2.01	0.33	18.45	90.40	0.00	15.97
318	7	3.88E-05	1.94E-02	1.44E-03	2.72E-02	3.44E-03	8.02E-03	0.00E+00	59.54	22.99	4	1.99	0.59	8.55	33.11	0.00	15.83
319	4	3.11E-05	4.89E-02	5.54E-03	6.43E-02	0.00E+00	2.55E-03	0.00E+00	16.91	8.68	4	1.72	0.39	21.57	135.37	0.00	6.69
320	6	3.40E-05	4.66E-02	2.84E-03	2.50E-02	8.60E-04	2.08E-03	0.00E+00	24.31	10.05	4	2.02	0.58	20.56	111.33	0.00	17.01
321	6	4.37E-05	4.73E-02	3.24E-03	2.40E-02	8.67E-04	1.42E-03	0.00E+00	18.63	7.73	4	2.13	0.54	20.87	81.51	0.00	18.83
322	6	2.33E-05	4.19E-02	2.85E-03	2.44E-02	2.54E-04	8.68E-04	0.00E+00	39.39	16.34	3	2.13	0.65	18.48	97.02	0.00	18.13
323	1	4.85E-05	1.31E-02	8.47E-04	2.89E-02	0.00E+00	1.15E-02	0.00E+00	10.07	10.09	2	2.14	0.70	5.80	17.91	0.00	15.37
324	12	4.85E-05	6.74E-02	4.06E-03	2.68E-02	3.44E-04	1.05E-03	0.00E+00	23.55	6.97	3	1.70	0.59	29.72	162.46	0.00	16.65
325	20	4.85E-05	6.15E-02	3.93E-03	2.52E-02	1.20E-03	1.40E-03	0.00E+00	42.92	10.05	4	1.91	0.69	27.13	156.56	0.00	16.79
326	8	4.85E-05	4.15E-02	2.63E-03	2.32E-02	1.17E-03	2.94E-03	0.00E+00	25.47	9.17	3	1.88	0.52	18.31	89.33	0.00	17.82
327	2	2.91E-05	5.26E-02	4.85E-03	6.55E-02	1.83E-01	2.71E-01	0.00E+00	8.40	5.99	2	2.08	0.48	23.17	101.03	0.00	7.43
328	15	4.85E-05	5.39E-02	3.15E-03	2.50E-02	0.00E+00	1.41E-03	0.00E+00	36.74	9.77	4	1.98	0.58	23.78	130.51	0.00	18.37
329	9	2.91E-05	8.00E-02	6.44E-03	2.42E-02	5.28E-04	7.23E-04	0.00E+00	24.78	8.52	4	2.08	0.51	35.29	181.37	0.00	18.31
330	2	2.91E-05	1.06E-02	6.45E-04	2.75E-02	1.10E-02	3.04E-02	0.00E+00	41.40	29.40	2	1.92	0.58	4.69	19.13	0.00	17.10
331	7	3.11E-05	4.68E-02	2.58E-03	2.72E-02	1.22E-03	1.82E-03	0.00E+00	30.87	11.82	4	2.06	0.61	20.65	107.76	0.00	17.37
332	15	3.88E-05	3.46E-02	1.95E-03	2.57E-02	3.37E-03	8.00E-03	0.00E+00	71.47	18.98	4	2.10	0.34	15.24	70.59	0.00	17.59
333	7	2.38E-05	5.77E-02	3.38E-03	2.64E-02	1.44E-03	1.20E-03	0.00E+00	32.72	12.55	4	1.90	0.29	25.44	135.80	0.00	16.42
334	11	4.85E-05	4.48E-02	2.86E-03	2.54E-02	0.00E+00	3.73E-03	0.00E+00	32.41	10.03	4	1.96	0.62	19.77	100.26	0.00	16.57
335	7	2.91E-05	4.24E-02	2.35E-03	2.64E-02	8.05E-04	2.23E-03	0.00E+00	36.33	13.91	4	1.87	0.45	18.71	92.13	0.00	16.35
336	4	2.33E-05	3.65E-02	2.04E-03	2.86E-02	2.67E-03	6.70E-03	0.00E+00	30.21	15.22	3	1.97	0.48	16.07	75.70	0.00	16.57
337	5	2.91E-05	4.09E-02	2.24E-03	3.08E-02	5.32E-03	5.64E-03	0.00E+00	26.93	12.15	4	1.85	0.31	18.04	93.17	0.00	16.82
338	2	2.33E-05	4.35E-02	2.53E-03	2.69E-02	0.00E+00	2.36E-03	0.00E+00	12.67	8.99	3	1.56	0.50	19.20	98.69	0.00	17.37
339	7	2.43E-05	3.40E-02	2.33E-03	3.42E-02	8.77E-03	1.43E-02	0.00E+00	54.35	20.93	4	2.27	0.66	14.98	59.37	0.00	17.70
340	9	2.43E-05	2.70E-02	1.62E-03	2.98E-02	3.74E-03	9.84E-03	0.00E+00	87.88	29.86	4	1.88	0.58	11.88	51.80	0.00	16.60
341	6	2.33E-05	4.86E-02	3.15E-03	3.24E-02	5.27E-03	4.02E-03	0.00E+00	34.00	14.08	4	1.95	0.36	21.42	102.89	0.00	16.25
342	8	3.88E-05	2.12E-02	1.40E-03	2.89E-02	4.31E-03	1.56E-02	0.00E+00	62.06	22.38	4	1.64	0.44	9.37	33.43	0.00	16.30
343	5	7.22E-05	3.96E-02	2.48E-03	2.81E-02	4.06E-04	3.81E-03	0.00E+00	29.79	13.48	4	1.94	0.66	17.47	82.22	0.00	16.02
344	7	3.40E-05	5.34E-02	3.48E-03	3.15E-02	3.18E-03	3.69E-03	0.00E+00	24.75	9.52	4	1.74	0.64	23.55	113.44	0.00	15.32
345	3	2.04E-05	4.03E-02	2.13E-03	2.92E-02	3.96E-03	3.03E-03	0.00E+00	23.41	13.59	4	1.80	0.57	17.79	85.79	0.00	16.14
346	4	2.38E-05	3.48E-02	2.73E-03	3.04E-02	4.30E-03	7.06E-03	0.00E+00	31.03	15.72	3	2.04	0.47	15.33	65.94	0.00	16.59
347	3	2.33E-05	5.37E-02	3.65E-03	3.49E-02	3.57E-03	7.65E-03	0.00E+00	15.40	8.96	3	1.79	0.66	23.69	109.09	0.00	16.83
348	5	2.33E-05	3.46E-02	1.77E-03	2.73E-02	4.35E-04	3.86E-03	0.00E+00	39.73	17.91	4	1.77	0.40	15.27	71.06	0.00	16.48
349	8	4.85E-05	3.10E-02	1.44E-03	2.74E-02	3.53E-03	6.04E-03	0.00E+00	34.08	12.18	4	1.94	0.63	13.68	51.87	0.00	17.08
350	7	2.38E-05	3.96E-02	1.96E-03	2.74E-02	5.17E-03	3.55E-03	0.00E+00	47.62	18.19	4	2.01	0.85	17.46	81.29	0.00	17.00
351	10	3.88E-05	6.30E-02	4.33E-03	2.87E-02	1.11E-03	2.97E-03	0.00E+00	26.21	8.51	4	1.88	0.42	27.80	120.67	0.00	15.96
352	6	3.11E-05	5.25E-02	3.71E-03	2.75E-02	4.73E-03	2.13E-03	0.00E+00	23.63	9.81	4	1.94	0.56	23.13	103.10	0.00	16.02
353	4	4.85E-05	3.89E-02	3.81E-03	3.14E-02	5.47E-03	1.23E-02	0.00E+00	13.60	6.94	3	1.67	0.20	17.17	52.26	0.00	16.02
354	14	3.40E-05	5.81E-02	3.81E-03	4.44E-02	4.11E-03	2.82E-03	0.00E+00	45.48	12.57	4	2.01	0.69	25.60	116.35	0.00	16.49
355	4	2.91E-05	4.02E-02	2.68E-03	3.35E-02	7.18E-03	9.40E-03	0.00E+00	21.93	11.08	4	1.86	0.42	17.73	84.35	0.00	15.05
356	2	2.43E-05	1.24E-02	1.07E-03	2.86E-02	1.08E-02	7.18E-03	0.00E+00	42.47	30.27	2	2.01	0.36	5.48	17.17	0.00	16.60
357	5	3.40E-05	4.32E-02	2.79E-03	3.39E-02	1.08E-03	3.35E-03	0.00E+00	21.89	9.91	3	1.74	0.38	19.03	98.00	0.00	15.99
358	7	4.37E-05	3.86E-02	2.82E-03	2.96E-02	3.82E-03	4.11E-03	0.00E+00	26.62	10.27	3	1.91	0.56				

373	6	3.40E-05	4.81E-02	2.51E-03	3.90E-02	9.45E-04	2.23E-03	0.00E+00	23.58	9.72	4	1.77	0.73	21.20	101.53	0.00	12.29
374	6	4.85E-05	3.98E-02	2.96E-03	3.57E-02	1.20E-03	1.95E-03	0.00E+00	19.95	8.30	3	1.99	0.63	17.54	79.09	0.00	12.46
375	7	2.62E-05	5.51E-02	3.22E-03	3.43E-02	0.00E+00	1.44E-03	0.00E+00	31.10	11.92	3	2.09	0.58	24.29	115.01	0.00	13.27
376	5	2.91E-05	1.78E-02	1.50E-03	3.24E-02	9.60E-03	1.08E-02	0.00E+00	61.63	28.09	3	1.83	0.44	7.86	24.19	0.00	14.88
377	2	4.85E-05	6.67E-03	4.62E-04	3.91E-02	0.00E+00	5.15E-02	0.00E+00	39.58	28.14	2	2.29	0.43	2.94	7.17	0.00	11.22
378	12	3.88E-05	4.26E-02	2.65E-03	4.30E-02	8.91E-04	5.79E-03	0.00E+00	46.49	13.78	4	1.99	0.49	18.78	86.99	0.00	9.43
379	5	3.88E-05	4.22E-02	2.98E-03	5.45E-02	1.08E-02	7.49E-03	0.00E+00	19.59	8.88	3	1.83	0.55	18.61	96.92	0.00	8.28
380	9	4.85E-05	4.23E-02	3.01E-03	3.50E-02	0.00E+00	2.65E-03	0.00E+00	28.14	9.62	3	2.12	0.54	18.64	83.02	0.00	12.15
381	4	2.33E-05	6.42E-02	4.02E-03	3.94E-02	5.24E-03	5.11E-03	0.00E+00	17.17	8.66	4	2.23	0.51	28.31	138.14	0.00	12.73
382	7	3.88E-05	5.61E-02	5.04E-03	3.39E-02	5.29E-03	6.59E-03	0.00E+00	20.64	8.04	4	1.72	0.37	24.73	108.48	0.00	15.21
383	8	3.88E-05	6.79E-02	5.06E-03	2.84E-02	2.48E-04	9.27E-04	0.00E+00	19.48	7.06	3	1.72	0.48	29.94	138.30	0.00	15.30
384	10	4.85E-05	5.15E-02	4.04E-03	3.45E-02	1.21E-02	1.32E-02	0.00E+00	25.66	8.39	4	2.00	0.70	22.72	98.98	0.00	16.38
385	2	2.33E-05	3.41E-02	1.99E-03	3.05E-02	3.36E-03	4.15E-03	0.00E+00	16.19	11.49	3	2.10	0.32	15.02	63.58	0.00	15.73
386	16	4.85E-05	5.93E-02	4.01E-03	3.26E-02	4.16E-03	3.96E-03	0.00E+00	35.65	9.28	4	1.97	0.58	26.14	124.28	0.00	15.36
387	11	3.88E-05	5.08E-02	8.96E-03	3.51E-02	5.70E-03	3.26E-03	0.00E+00	35.78	12.54	4	1.73	0.37	22.38	104.15	0.00	12.80
388	6	3.88E-05	5.15E-02	3.71E-03	3.23E-02	3.30E-03	2.87E-03	0.00E+00	19.25	7.99	4	1.92	0.36	22.73	102.96	0.00	14.37
389	10	2.91E-05	3.59E-02	2.73E-03	3.81E-02	4.38E-03	9.19E-03	0.00E+00	61.28	20.00	4	1.95	0.36	15.81	69.51	0.00	11.84
390	11	1.94E-05	1.42E-01	1.14E-02	3.26E-02	1.90E-04	1.36E-03	0.00E+00	25.69	8.04	4	2.08	0.55	62.42	285.20	0.00	13.84
391	2	3.40E-05	1.10E-02	8.16E-04	2.94E-02	1.04E-02	2.63E-02	0.00E+00	34.32	24.42	2	1.79	0.63	4.85	15.97	0.00	15.75
392	6	2.91E-05	3.92E-02	3.89E-03	2.80E-02	3.98E-03	1.45E-03	0.00E+00	33.68	14.18	4	1.88	0.51	17.30	82.78	0.00	16.66
393	4	1.94E-05	5.42E-02	3.37E-03	3.27E-02	2.18E-03	3.23E-03	0.00E+00	24.42	12.32	4	1.72	0.37	23.88	111.44	0.00	16.37
394	7	3.40E-05	4.69E-02	3.00E-03	2.61E-02	2.45E-04	2.04E-03	0.00E+00	28.20	10.84	3	1.89	0.37	20.67	94.06	0.00	16.19
395	6	3.40E-05	4.06E-02	2.63E-03	3.01E-02	4.16E-03	2.94E-03	0.00E+00	27.92	11.57	3	1.57	0.60	17.89	83.23	0.00	15.44
396	7	4.85E-05	1.99E-02	2.23E-03	2.73E-02	4.50E-03	2.28E-03	0.00E+00	46.50	18.37	4	2.02	0.55	8.76	55.19	0.00	16.66
397	10	2.91E-05	4.80E-02	3.32E-03	2.82E-02	1.94E-03	2.10E-03	0.00E+00	45.87	14.90	4	1.69	0.66	21.15	100.80	0.00	15.98
398	8	3.88E-05	3.88E-02	2.49E-03	2.77E-02	1.17E-03	1.79E-03	0.00E+00	34.04	12.26	4	1.93	0.48	17.12	78.53	0.00	16.42
399	7	1.94E-05	6.42E-02	5.49E-03	2.85E-02	4.96E-04	5.87E-04	0.00E+00	35.99	13.98	3	1.80	0.68	28.33	137.90	0.00	15.56
400	9	4.85E-05	4.66E-02	2.98E-03	3.09E-02	0.00E+00	3.15E-03	0.00E+00	25.55	8.70	4	1.88	0.34	20.53	105.62	0.00	15.01
401	10	2.91E-05	4.33E-02	2.87E-03	3.05E-02	0.00E+00	2.74E-03	0.00E+00	50.84	16.48	4	1.87	0.25	19.08	91.47	0.00	15.03
402	10	4.85E-05	3.86E-02	2.72E-03	3.06E-02	1.06E-02	4.75E-03	0.00E+00	34.25	11.13	4	2.07	0.54	17.01	75.39	0.00	15.86
403	14	3.88E-05	4.74E-02	3.31E-03	2.68E-02	1.15E-03	2.14E-03	0.00E+00	48.69	13.51	4	1.89	0.61	20.91	89.43	0.00	17.03
404	3	2.43E-05	4.56E-02	2.88E-03	2.71E-02	2.01E-03	1.61E-03	0.00E+00	17.40	10.11	4	1.78	0.59	20.12	92.37	0.00	16.87
405	8	2.38E-05	5.15E-02	3.97E-03	3.44E-02	5.57E-03	8.47E-03	0.00E+00	41.86	15.19	4	1.91	0.33	22.71	106.16	0.00	16.86
406	14	4.85E-05	4.12E-02	2.97E-03	2.99E-02	1.22E-03	2.25E-03	0.00E+00	44.85	12.47	4	1.84	0.43	18.17	82.47	0.00	16.58
407	10	3.88E-05	4.49E-02	3.27E-03	3.03E-02	2.63E-03	5.99E-03	0.00E+00	36.79	11.98	4	1.90	0.50	19.79	84.70	0.00	16.15
408	12	4.85E-05	1.14E-02	8.67E-04	2.70E-02	0.00E+00	1.26E-02	0.00E+00	138.38	41.48	4	2.09	0.77	5.01	16.48	0.00	16.00
409	7	2.91E-05	6.01E-02	3.85E-03	2.95E-02	1.27E-03	1.16E-03	0.00E+00	25.65	9.86	3	2.06	0.38	26.51	125.91	0.00	15.40
410	7	2.33E-05	5.58E-02	4.03E-03	2.60E-02	0.00E+00	2.02E-03	0.00E+00	34.52	13.31	4	1.97	0.44	24.61	115.59	0.00	16.25
411	7	2.91E-05	4.84E-02	3.81E-03	3.13E-02	1.71E-03	3.52E-03	0.00E+00	31.88	12.34	4	1.72	0.37	21.32	95.01	0.00	15.11
412	8	4.85E-05	1.74E-02	1.44E-03	3.44E-02	1.08E-02	1.76E-02	0.00E+00	60.63	22.08	3	1.89	0.45	7.67	26.61	0.00	14.24
413	10	3.88E-05	3.88E-02	2.52E-03	3.85E-02	4.05E-03	5.83E-03	0.00E+00	42.58	13.79	4	1.82	0.37	17.09	79.86	0.00	14.42
414	6	2.04E-05	4.79E-02	3.12E-03	3.00E-02	2.37E-04	2.44E-03	0.00E+00	39.39	16.32	4	1.81	0.71	21.12	89.12	0.00	15.75
415	6	3.11E-05	4.81E-02	3.29E-03	3.04E-02	3.37E-04	1.06E-03	0.00E+00	25.76	10.68	3	2.09	0.69	21.22	106.98	0.00	14.73
416	4	2.33E-05	4.19E-02	3.16E-03	3.01E-02	1.95E-03	3.36E-03	0.00E+00	26.32	13.33	4	2.07	0.36	18.46	72.28	0.00	16.00
417	7	4.85E-05	4.52E-02	3.62E-03	2.89E-02	1.36E-03	2.75E-03	0.00E+00	20.47	7.93	4	1.90	0.81	19.94	86.29	0.00	15.52
418	9	3.88E-05	3.77E-02	2.88E-03	3.01E-02	4.23E-03	2.95E-03	0.00E+00	39.37	13.50	4	1.95	0.41	16.64	71.69	0.00	15.30
419	0	3.88E-05	1.22E-02	1.08E-03	3.02E-02	3.03E-03	1.25E-02	0.00E+00	0.00	20.29	1	1.91	0.27	5.38	15.56	0.00	15.66
420	14	4.85E-05	5.58E-02	3.49E-03	2.83E-02	4.33E-04	3.32E-03	0.00E+00	33.17	9.15	4	1.92	0.42	24.59	104.71	0.00	16.00
421	6	4.85E-05	4.56E-02	3.63E-03	3.11E-02	3.40E-03	3.85E-03	0.00E+00	17.40	7.25	2	2.07	0.69	20.12	84.51	0.00	15.37
422	12	4.85E-05	5.40E-02	3.77E-03	2.87E-02	5.81E-04	1.14E-03	0.00E+00	29.38	8.76	4	1.81	0.62	23.81	116.98	0.00	15.81
423	11	4.85E-05	4.73E-02	3.27E-03	2.92E-02	1.25E-03	1.71E-03	0.00E+00	30.75	9.55	4	1.81	0.59	20.84	98.19	0.00	14.67
424	7	3.40E-05	4.69E-02	4.94E-03	2.76E-02	2.47E-03	4.69E-03	0.00E+00	28.22	11.10	3	1.90	0.56	20.66	86.05	0.00	17.18
425	9	3.88E-05	4.43E-02	2.76E-03	3.03E-02	2.70E-03	9.02E-04	0.00E+00	33.53	11.41	3	1.91	0.55	19.55	96.65	0.00	15.05
426	9	4.85E-05	2.93E-02	2.09E-03	2.79E-02	1.85E-03	6.96E-03	0.00E+00	40.56	13.87	4	1.65	0.47	12.92	54.72	0.00	16.01
427	7	3.88E-05	5.58E-02	5.20E-03	2.74E-02	2.02E-03	9.19E-03	0.00E+00	20.74	8.09	4	1.65	0.32	24.60	44.10	0.00	16.28
428	9	4.85E-05	5.68E-02	5.14E-03	2.85E-02	1.13E-03	3.47E-03	0.00E+00	20.95	7.26	3	1.60	0.39	25.05	106.92	0.00	15.45
429	14	3.40E-05	6.25E-02	5.12E-03	3.02E-02	1.66E-03	2.65E-03	0.00E+00	42.24	11.86	4	1.75	0.51	27.57	123.18	0.00	16.09
430	12	4.85E-05	5.74E-02	3.97E-03	3.01E-02	1.98E-03	5.65E-03	0.00E+00	27.61	8.23	4	1.70	0.47	25.33	107.08	0.00	15.70
431	16	4.37E-05	5.65E-02	3.19E-03	3.14E-02	1.32E-03	2.89E-03	0.00E+00	41.57	10.71	4	1.92	0.39	24.90	106.33	0.00	15.15
432	11	4.85E-05	4.49E-02	3.01E-03	2.82E-02	3.54E-04	3.97E-03	0.00E+00	32.40	10.04	4	1.93	0.48	19.78	91.54	0.00	15.01

Mean Dpar = 1.90
 Mean Dper = 0.52
 Modified Zeta = 12.860+/- 0.339
 Mean 43Ca b:s = 0.028
 Mean 238U b:s = 0.004
 Number of grains= 429
 Chi-squared = 550.7
 Chi-squared prob= 0.0001
Pooled Age (Ma) = 31.0+/- 1.0

Apatite Confined Track-Length Standards:

DR-D (Durango age standard)

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.30	4	1.23	0.27	36.39
2	12.85	4	1.23	0.27	75.98
3	13.57	4	1.23	0.27	4.88
4	15.13	4	1.43	0.19	72.50
5	14.18	4	1.70	0.29	6.83
6	17.00	4	1.70	0.29	42.71
7	16.24	4	1.62	0.21	57.50
8	17.23	4	1.62	0.21	44.48
9	16.25	4	1.62	0.21	50.83
10	13.77	4	1.45	0.22	81.66
11	13.55	4	1.45	0.22	41.22
12	12.20	4	1.61	0.24	1.83
13	15.14	4	0.58	0.23	79.84
14	14.41	4	1.11	0.16	51.54
15	13.86	4	1.11	0.16	46.28
16	14.67	4	1.59	0.26	71.56
17	14.31	4	1.54	0.28	85.45
18	15.46	4	1.54	0.28	0.22
19	15.21	4	1.44	0.17	29.08
20	14.03	4	1.44	0.17	77.28
21	13.64	4	1.44	0.17	70.33
22	13.00	4	1.46	0.16	88.61
23	13.99	4	1.46	0.16	74.63
24	11.91	4	1.46	0.16	67.66
25	14.41	4	1.55	0.12	61.36
26	14.43	4	1.51	0.17	47.61
27	13.08	4	1.51	0.17	56.14
28	15.61	4	1.57	0.20	14.33
29	15.05	4	1.57	0.20	53.29
30	14.35	4	1.57	0.20	31.79
31	14.70	4	1.57	0.20	58.57
32	14.95	4	1.71	0.20	59.13
33	12.72	4	1.71	0.20	55.27
34	14.51	4	1.71	0.20	76.08
35	14.98	4	1.71	0.20	9.82
36	14.32	4	1.71	0.20	74.17
37	14.50	4	1.71	0.20	31.62
38	14.17	4	1.71	0.20	89.47
39	15.53	4	1.71	0.20	1.39
40	14.39	4	1.71	0.26	34.81
41	13.33	4	1.71	0.26	81.78
42	16.03	4	1.71	0.26	62.81
43	14.55	4	1.71	0.26	14.39
44	15.43	4	1.71	0.26	82.46
45	15.14	4	1.35	0.26	64.74
46	16.22	4	1.35	0.26	69.32
47	15.22	4	1.35	0.26	58.34
48	15.05	4	1.35	0.26	47.66
49	16.61	4	1.35	0.26	80.94
50	15.93	4	1.56	0.29	22.36
51	13.99	4	1.46	0.23	64.14
52	13.92	4	1.46	0.23	33.41
53	16.86	4	1.46	0.23	0.13
54	14.08	4	1.63	0.22	77.18
55	16.22	4	1.42	0.17	33.26
56	14.50	4	1.39	0.24	54.39
57	16.83	4	1.39	0.18	17.58
58	15.76	4	1.47	0.20	58.31
59	14.73	4	1.47	0.20	69.26
60	13.12	4	1.47	0.20	48.53

61	14.62	4	1.49	0.14	44.72
62	15.62	4	1.49	0.14	9.33
63	14.54	4	1.34	0.17	74.25
64	15.63	4	1.34	0.17	75.66
65	15.14	4	1.34	0.17	53.86
66	15.02	4	1.34	0.17	39.38
67	15.51	4	1.49	0.21	40.17
68	14.38	4	1.62	0.21	80.70
69	15.67	4	1.62	0.21	28.30
70	15.80	4	1.62	0.21	58.23
71	15.16	4	1.62	0.21	55.91
72	15.16	4	1.62	0.21	61.72
73	14.50	4	1.63	0.22	51.23
74	15.56	4	1.63	0.22	80.91
75	14.18	4	1.63	0.22	42.64
76	16.37	4	1.63	0.22	11.58
77	14.32	4	1.44	0.19	72.08
78	13.97	4	1.04	0.14	40.18
79	14.84	4	1.34	0.15	64.49
80	13.90	4	1.34	0.15	70.52
81	15.62	4	1.59	0.22	49.31
82	15.13	4	1.59	0.22	71.98
83	14.27	4	1.59	0.22	73.72
84	14.28	4	1.59	0.22	30.69
85	15.84	4	1.71	0.21	38.26
86	14.64	4	1.71	0.21	56.59
87	14.53	4	1.90	0.20	58.48
88	14.37	4	1.90	0.20	59.20
89	16.40	4	1.90	0.20	84.53
90	14.41	4	1.66	0.26	57.97
91	12.86	4	1.66	0.26	71.53
92	13.71	4	1.35	0.21	36.74
93	14.59	4	1.35	0.21	57.85
94	14.31	4	1.80	0.33	27.18
95	15.52	4	1.65	0.24	34.95
96	15.06	4	1.65	0.24	88.60
97	12.35	4	1.55	0.21	66.23
98	13.56	4	1.55	0.21	48.88
99	15.21	4	1.55	0.21	89.49
100	14.62	4	1.55	0.21	36.21
101	14.02	4	1.54	0.22	67.90
102	14.65	4	1.54	0.22	58.93
103	14.62	4	1.54	0.22	81.03
104	13.14	4	1.81	0.24	28.42
105	15.39	4	1.81	0.24	73.63
106	15.90	4	1.56	0.23	57.36
107	14.94	4	1.56	0.23	3.16
108	13.29	4	1.59	0.20	66.00
109	13.53	4	1.59	0.20	45.46
110	14.00	4	1.59	0.20	66.59
111	14.80	4	1.62	0.26	41.34
112	14.75	4	1.04	0.17	43.71
113	14.45	4	1.51	0.24	84.60
114	14.39	4	1.76	0.16	83.11
115	13.21	4	1.68	0.20	64.28
116	13.88	4	1.68	0.20	85.23
117	14.20	4	1.68	0.20	72.66
118	14.42	4	1.66	0.29	63.35
119	14.37	4	1.75	0.12	61.59
120	14.14	4	1.75	0.12	38.91
121	13.74	4	1.71	0.16	78.19
122	14.19	4	1.71	0.16	42.71
123	14.73	4	1.71	0.16	32.25
124	14.96	4	1.71	0.16	52.71
125	13.96	4	1.57	0.35	75.61
126	14.19	4	1.57	0.35	55.99

127	13.41	4	1.66	0.28	58.33
128	14.56	4	1.66	0.28	36.55
129	14.09	4	1.66	0.28	52.88
130	13.77	4	1.66	0.28	65.62
131	13.68	4	1.66	0.28	52.89
132	14.27	4	1.64	0.26	42.75
133	15.09	4	1.64	0.26	32.91
134	14.49	4	1.64	0.26	87.33
135	14.08	4	1.64	0.26	84.71
136	14.39	4	1.64	0.26	48.16
137	13.33	4	1.64	0.26	72.14
138	13.77	4	1.64	0.26	53.48

Mean Dpar = 1.55

Mean Dper = 0.22

Mean length (um)= 14.59 +/- 0.08

Std. Dev. (um)= 0.98

Skewness = 0.17

Kurtosis = 0.22

FC-D (Fish Canyon Tuff age standard)

Track Number	Length (microns)	Etch Figures	Dpar (microns)	Dpar (microns)	Angle to c-axis (degrees)
1	14.89	4	2.12	0.39	61.39
2	16.00	4	1.83	0.59	21.63
3	13.29	4	2.25	0.74	43.15
4	12.93	4	2.00	0.59	82.24
5	13.90	2	1.92	0.19	64.20
6	15.75	2	1.92	0.19	33.34
7	12.82	4	1.87	0.43	65.77
8	11.98	4	1.88	0.49	17.41
9	14.25	4	1.76	0.37	43.19
10	15.04	4	1.99	0.54	81.82
11	14.27	4	1.86	0.58	41.92
12	14.83	4	1.94	0.69	54.85
13	13.72	4	1.94	0.69	86.24
14	15.21	4	2.09	0.24	57.98
15	15.78	4	1.99	0.59	26.90
16	14.27	4	2.26	0.38	45.52
17	14.17	4	1.76	0.46	63.10
18	14.70	4	1.66	0.51	27.13
19	13.97	4	2.02	0.21	68.66
20	14.94	4	1.95	0.56	65.88
21	15.82	4	1.95	0.51	35.86
22	14.75	4	1.24	0.44	54.46
23	14.38	4	2.63	0.35	64.36
24	14.36	4	1.96	0.58	66.02
25	13.33	4	2.43	0.53	74.50
26	14.14	4	2.00	0.26	85.68
27	14.48	4	1.97	0.37	68.03
28	15.02	4	2.13	0.38	77.34
29	14.62	4	1.80	0.54	9.01
30	16.31	4	1.80	0.54	43.70
31	13.88	4	1.05	0.29	84.38
32	12.94	4	2.22	0.40	64.41
33	15.39	4	2.22	0.40	12.34
34	16.01	4	1.58	0.22	63.44
35	15.92	4	2.03	0.60	66.19
36	15.98	4	1.95	0.48	89.14
37	15.49	4	1.79	0.45	45.09
38	14.13	4	1.79	0.45	85.26
39	16.50	4	2.01	0.43	58.78
40	13.23	4	1.82	0.52	56.55

41	14.68	4	1.82	0.52	74.55
42	15.87	4	1.82	0.52	22.05
43	16.20	4	1.82	0.52	12.25
44	16.62	4	1.82	0.52	39.12
45	15.08	4	1.82	0.52	35.55
46	14.84	4	2.16	0.46	81.12
47	15.98	4	1.93	0.53	67.59
48	14.92	4	2.08	0.56	54.93
49	13.20	4	2.08	0.56	60.35
50	15.36	4	2.17	0.31	65.69
51	15.61	4	1.99	0.55	48.02
52	13.80	4	1.99	0.55	67.34
53	16.44	4	2.10	0.38	72.21
54	14.92	4	2.10	0.38	72.70
55	15.96	4	2.22	0.27	73.10
56	15.03	4	2.22	0.27	73.47
57	15.11	4	2.29	0.49	35.67
58	14.97	4	2.29	0.49	61.65
59	13.99	4	1.90	0.49	58.21
60	14.78	4	2.01	0.43	53.56
61	15.90	4	2.01	0.43	22.03
62	14.53	4	1.81	0.38	35.97
63	15.47	4	1.60	0.33	80.55
64	16.18	4	1.98	0.60	83.59
65	16.71	4	2.22	0.47	31.01
66	16.32	4	2.22	0.47	57.12
67	15.23	4	1.85	0.58	51.35
68	16.22	4	1.94	0.61	12.68
69	16.40	4	1.94	0.61	45.69
70	16.26	4	2.01	0.54	65.46
71	15.22	4	1.74	0.39	29.54
72	14.42	4	1.84	0.41	86.15
73	14.51	4	2.10	0.20	46.74
74	14.30	4	1.84	0.43	51.51
75	16.33	4	2.15	0.41	60.57
76	16.63	4	2.15	0.41	77.90
77	14.14	4	2.12	0.52	79.20
78	16.95	4	2.12	0.52	40.73
79	17.08	4	2.12	0.52	20.29
80	14.46	4	1.98	0.68	61.35
81	15.29	4	1.98	0.68	62.91
82	15.92	4	1.98	0.68	75.62
83	15.16	4	2.31	0.47	21.40
84	15.46	4	2.13	0.21	82.97
85	14.49	4	1.88	0.52	53.91
86	15.00	4	2.11	0.14	71.81
87	14.80	4	2.03	0.55	88.83
88	17.17	4	2.03	0.55	38.45
89	14.80	4	2.03	0.55	84.04
90	15.28	4	1.92	0.36	51.73
91	15.37	4	1.84	0.50	47.94
92	15.68	4	1.69	0.35	84.38
93	14.92	4	1.85	0.50	33.85
94	14.59	4	2.09	0.44	38.21
95	14.62	4	2.09	0.44	64.34
96	13.66	4	1.86	0.55	54.32
97	14.77	4	1.88	0.22	52.20
98	16.33	4	1.88	0.22	16.30
99	14.43	4	1.78	0.32	73.39
100	15.03	1	1.71	0.37	53.86
101	14.41	4	1.90	0.50	80.93
102	15.39	4	1.75	0.55	62.49
103	16.00	4	1.99	0.55	87.94
104	14.98	4	1.99	0.55	12.49
105	14.65	4	2.30	0.62	24.23
106	13.04	4	1.84	0.39	52.92

107	14.59	4	1.84	0.47	47.08
108	16.18	4	1.86	0.54	40.83
109	14.38	4	1.86	0.54	55.73
110	15.55	4	1.81	0.61	75.74
111	13.39	4	2.28	0.38	68.06
112	13.32	4	1.83	0.27	71.14
113	13.38	4	1.83	0.27	39.14
114	14.45	4	1.83	0.27	83.82
115	14.33	4	1.96	0.35	82.12
116	15.44	4	1.75	0.53	49.13
117	16.44	4	1.75	0.53	86.50
118	14.88	4	1.72	0.40	50.33
119	16.31	4	1.85	0.59	37.05
120	14.24	4	2.09	0.31	84.98
121	16.45	4	2.28	0.67	47.38
122	15.09	4	2.13	0.43	68.08
123	14.31	4	2.13	0.43	84.50

124	15.49	4	2.21	0.41	39.46
125	16.36	4	2.21	0.41	86.34
126	15.86	4	2.21	0.41	14.05
127	14.06	4	2.21	0.41	57.16
128	15.77	4	1.91	0.65	55.77
129	13.89	4	1.91	0.65	53.76
130	15.73	4	2.02	0.29	40.93

Mean Dpar = 1.97
 Mean Dper = 0.46
Mean length (um)= 15.01 +/- 0.09
 Std. Dev. (um)= 1.02
 Skewness = -0.22
 Kurtosis = -0.34

Appendix B:

Modeling Procedures for HeFTy

B.1. HeFTy

HeFTy is the intellectual property of Apatite to Zircon, Incorporated and Richard A. Ketcham, and the software is prepared by Apatite to Zircon, Incorporated and Richard A. Ketcham for sole use by the Licensee for whom it was prepared. For commercial use, the installation utility and license for HeFTy can be acquired from Raymond A. Donelick (Apatite to Zircon, Incorporated). For academic use, contact Richard A. Ketcham (University of Texas at Austin).

B.2. Installation of HeFTy

HeFTy is written for the Microsoft Windows operating system, and works on all current versions of Windows, including Windows 2000, XP, and Vista. There are no minimum hardware requirements.

HeFTy is distributed using an installation utility. Once loaded into the “Program Files” directory (or elsewhere if directed by the user) on your hard drive, the installer will automatically perform all necessary tasks, including creating a directory in the “Program Files” directory, copying necessary library files to system directories, updating your Windows directory, creating menu shortcuts, etc. A operational manual for HeFTy is also created in the HeFTy directory.

Commercial versions of HeFTy require a separate installer to load the necessary files for controlling and accessing a USB dongle required to run the software.

Note – this installer should be run before inserting the dongle into a USB port.

B.3. Loading Data and Models into HeFTy

AFT results readable by HeFTy for each report are provided in two folders (Data and Models). Files containing the original AFT results for each sample are provided in the Data folder. The modeled results for each sample are provided in the Models folder.

To run HeFTy and view either the original or modeled data, perform the following procedures:

1. Click on the HeFTy icon to launch HeFTy. The initial start-up screen contains information about the version of HeFTy loaded and its Copyrights (**Figure B.1**), and Patents (**Figure B.2**). After thoroughly reviewing this information, click the *OK* button and the main program interface window of HeFTy appears (**Figure B.3**).

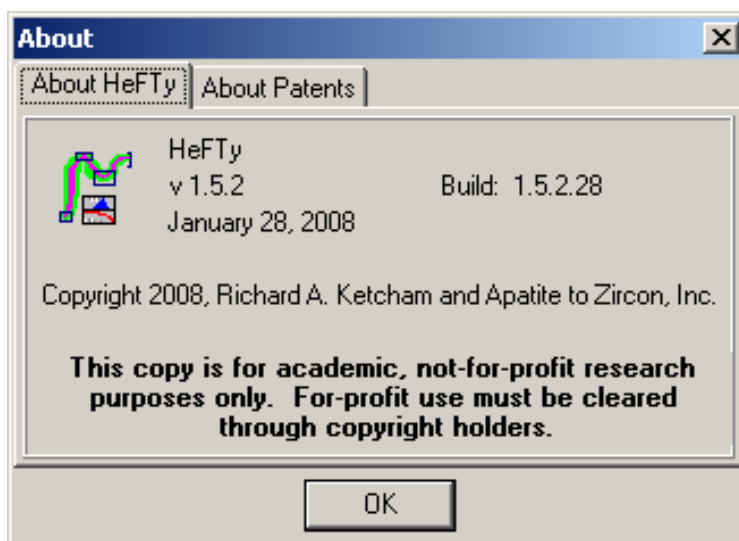


Figure B.1. The About HeFTy dialog box for HeFTy.

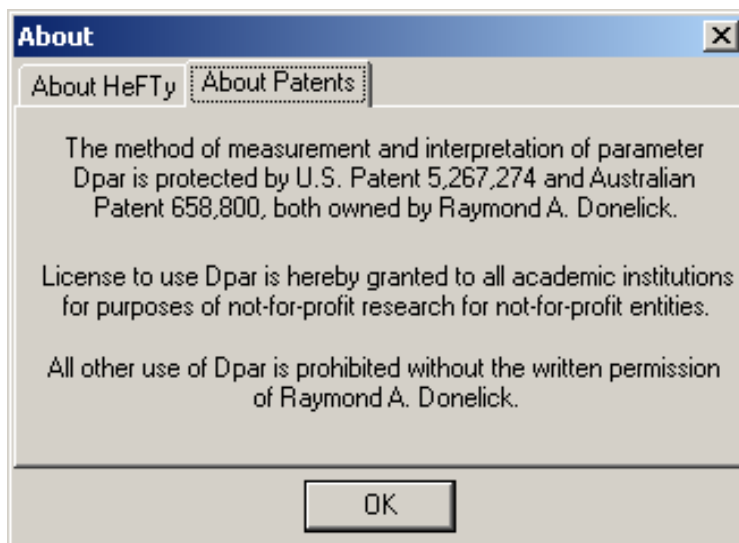


Figure B.2. The About Patents dialog box for HeFTy.

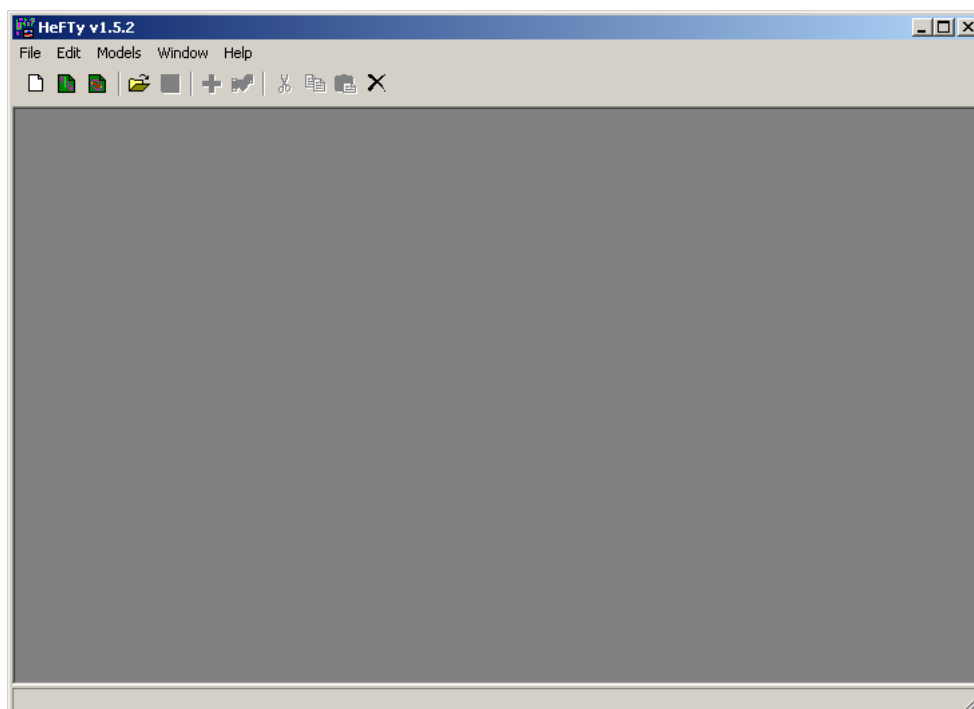


Figure B.3. The main program interface window of HeFTy.

2. To load and view the original data for each sample, use the *File* menu item in the main program interface window, and select the option *Open*. The data files that HeFTy creates and reads have extension **.hft** and are stored in the Data folder. An example file name is **88014.hft**. The first three digits **880** are the Apatite to Zircon Report Number; subsequent digits (in this case **14**) represent the sample number in the report sample series (see **Table 1.1** for cross-reference between A2Z sample numbers and the sample names provided by the Client). Choose a file name from the listing in the Data folder and open.

3. To test a potential Time-Temperature history for the sample, select the Time-Temperature History option in the upper left corner of the sample data window (see **Figure B.4**). Originally the left-hand plot (Time-Temperature History) will appear blank. By clicking on different time and temperatures points, a possible thermal history can be entered and evaluated. In the case presented in **Figure B.4**, which shows continual cooling over time since 175 Ma, there was very poor correlation between modeled results and measured results (goodness of fit GOF values for both the age and length analysis are <0.05). Alternatively, the potential Time-Temperature history presented in **Figure B.5** resulted in a good correlation between modeled results and measured results (goodness of fit GOF values for both the age and length analysis are >0.50).

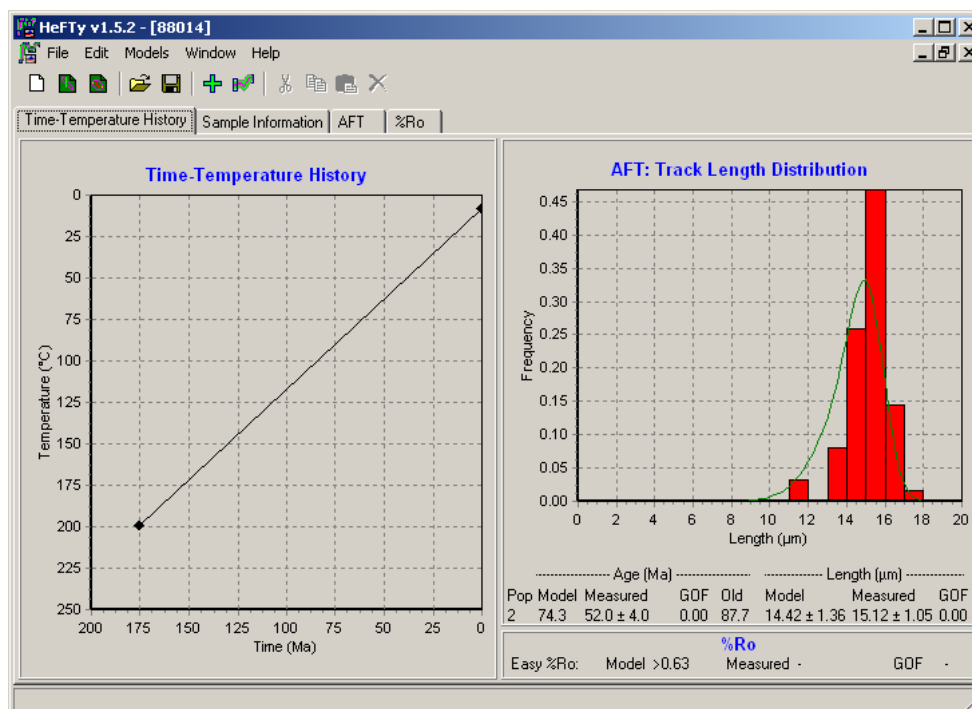


Figure B.4. The Time-Temperature window for an AFT sample within HeFTy – showing one possible time-temperature history with very poor GOF values.

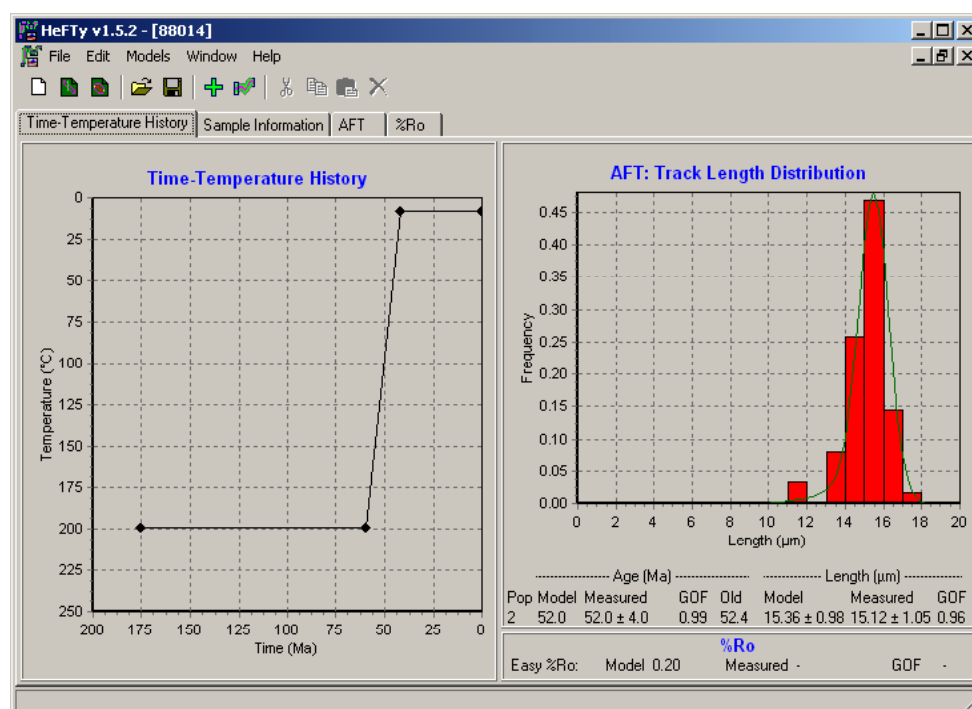


Figure B.5. The Time-Temperature window for an AFT sample within HeFTy – showing an alternative time-temperature history with very good GOF values.

4. To load and view the results of the modeling for each sample completed prior to submittal of the final report to the Client, use the *File* menu item in the main program interface window, and select the option *Open*, choose a file name from the listing in the Models folder and open it. The letter **m** in the file name indicates a completed model.
5. Using the menu item *Models* select option *Show inversion result*. The figure that appears should look something like **Figure B.6**. The boxes shown in time-temperature space represent the original constraints entered into the model. Solutions representing an *Acceptable Fit*, are shown within the green band, and indicate when both the model fission-track age and the model fission track length distribution matched their measured counterparts with a level of confidence of 0.05 or greater ($GOF \geq 0.05$). *Good Fit*; solutions are shown within the purple band, and indicate when both the model fission-track age and model fission-track length distribution matched their measured counterparts with a level of confidence of 0.50 or greater ($GOF \geq 0.50$).

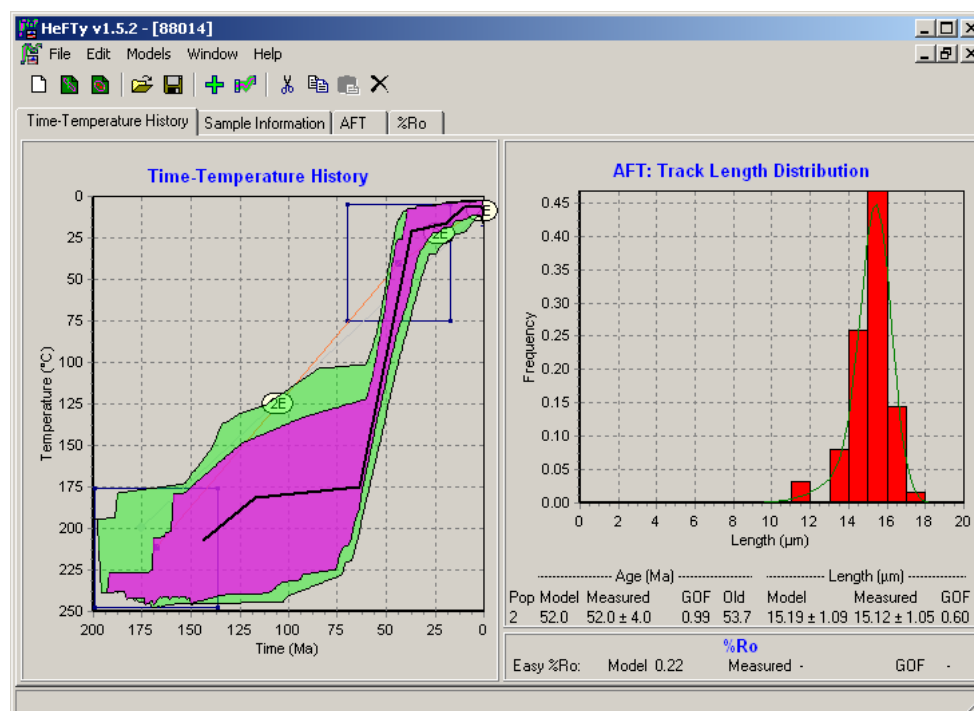


Figure B.6. Example of modeled results for a sample. The heavy black line represents the proposed “best-fit” thermal history for which the GOF values are presented.

6. To test an alternative temperature history, use the *Models* menu and select the *Inverse Modeling* option. This brings up the dialog box shown in **Figure B.7**. Clicking the *Clear* button clears the previously saved model results. Then, to specify an alternative temperature history, simply move the cursor into the time-temperature field and click and drag to create new time-temperature constraints. An alternative set of constraints for the sample modeled in **Figure B.7** is presented in **Figure B.8**.

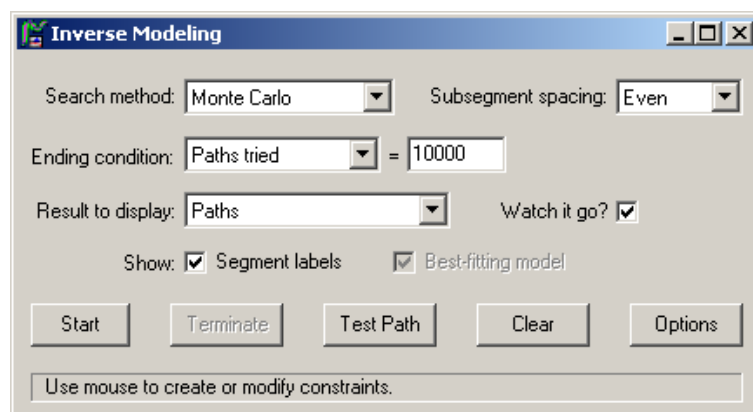


Figure B.7. The *Inverse Modeling* dialog box in HeFTy.

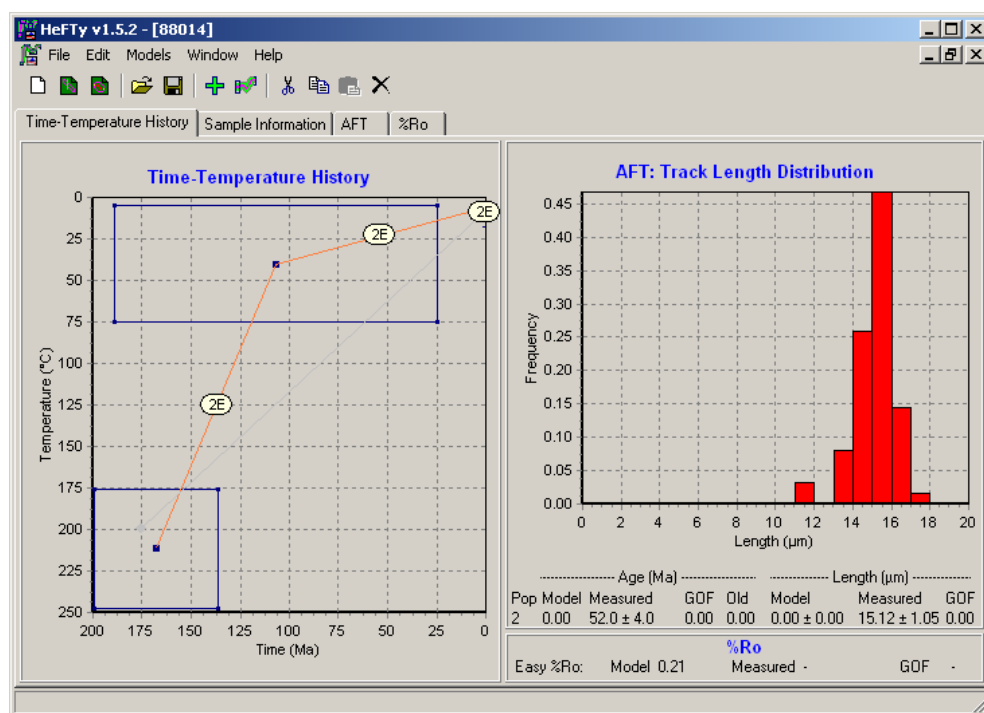


Figure A.8. Alternative time-temperature constraints to test model results in **Figure A.6**.

- Once new constraints have been created, simply click the start button on the *Inverse Modeling* dialog box. The example as presented in **Figure B.7** would run through 10,000 potential models. The modeled results using these alternative time-temperature constraints are presented in **Figure B.9**.

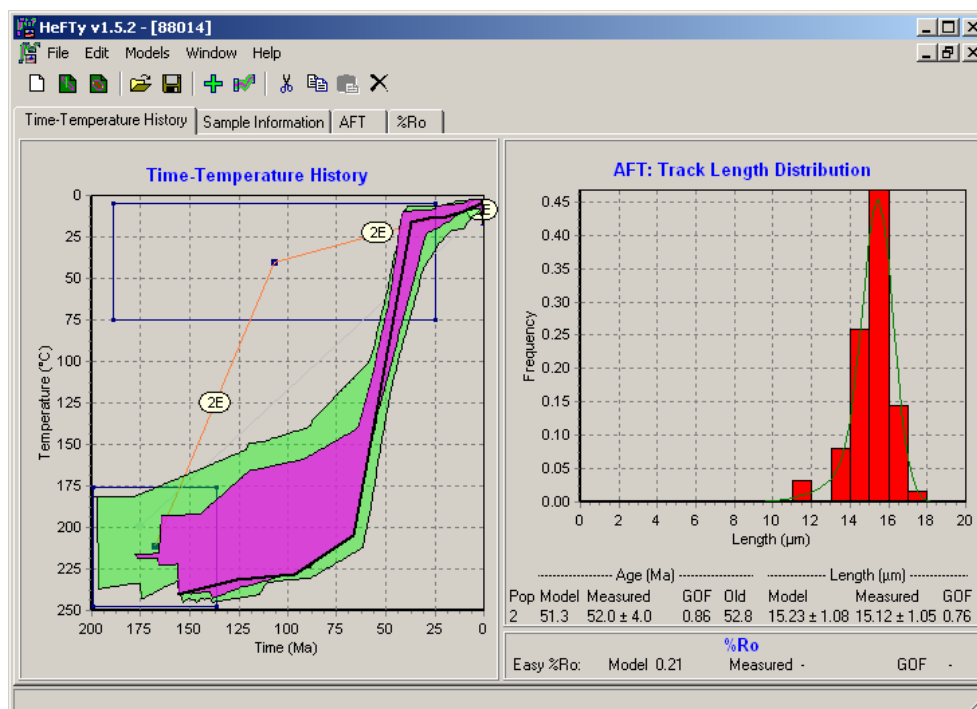


Figure B.9. Alternative model results for sample originally modeled in **Figure B.6**.

Appendix C:

Fission-Track Laboratory Procedures

C.1. General

All laboratory procedures (mineral separation and grain mounting) were performed under the direction of Raymond A. Donelick and Margaret B. Donelick at Apatite to Zircon, Inc (A2Z). facilities located in Viola, Idaho. Analytical procedures were performed by Paul B. O'Sullivan at the A2Z office located in Moscow, Idaho. All laser ablation of samples for age analyses were performed under the direction of Paul B. O'Sullivan using the facilities available at the Washington State University School of Earth and Environmental Sciences GeoAnalytical Laboratory in Pullman, Washington.

A general discussion of the methods undertaken to process and analyze samples by A2Z is presented below. Please see Donelick et al. (2005), for a complete and detailed discussion of these particular methods and their justification.

C.2. Sample Preparation and Measurement Feasibility Assessment

Each sample was reduced to sand-sized particles using a jaw-crusher, sieved through a 300 μm mesh, washed in water to remove clay-sized particles, and dried at room temperature. After drying, any apatite and zircon initially present in each sample was isolated using standard gravimetric and magnetic mineral separation techniques.

For each sample subjected to apatite fission-track analysis (AFT), at least one 1cm^2 apatite grain mount, consisting of some quantity of apatite grains immersed in epoxy resin, was prepared. Each grain mount was subsequently cured at 90°C for 1 hour. Once cured, each grain mount was polished to a glass-like finish to expose internal surfaces of the apatite grains present. After polishing, the apatite grain mounts were immersed in 5.5N HNO_3 for 20.0 seconds (± 0.5 seconds) at 21°C ($\pm 1^\circ\text{C}$) to reveal all natural fission tracks that intersected the respective polished apatite grain surface.

The feasibility of measurement of the apatite fission-track parameters (i.e., grain ages and track lengths) was assessed by quickly scanning the polished and etched grain mount to determine if any dateable apatite grains were present. If more than one dateable grain was observed during this quick scan, measurement of the fission-track parameters was considered feasible.

C.3. Generalized Fission-Track Procedures

A generalized listing of the steps employed during analyses is outlined below:

1. *Apatite grain mounts:* The polished grain mounts were first immersed in 5.5N HNO₃ for 20.0 seconds (± 0.5 seconds) at 21°C ($\pm 1^\circ\text{C}$) to reveal only the natural fission tracks intersecting the grain surfaces (**Figure C.1**). The mounts were then scanned to search for suitable apatite grains for age dating and those grain locations digitally recorded. For each suitable grain, representative kinetic parameters (Dpar) were measured, and the natural fission-track densities were counted. These grain localities were then revisited using the LA-ICP-MS where spot analyses to determine the concentration of U were completed on the identical areas of each grain from which the natural fission-track densities were first counted. The grain mounts were then irradiated with approximately 10^7 tracks/cm² fission fragments from a 50 μCi ²⁵²Cf source in a vacuum chamber. Irradiated grain mounts were then re-immersed in 5.5N HNO₃ for 20.0 seconds (± 0.5 seconds) at 21°C ($\pm 1^\circ\text{C}$) to reveal any horizontal, confined fission tracks, and the track lengths were then measured.

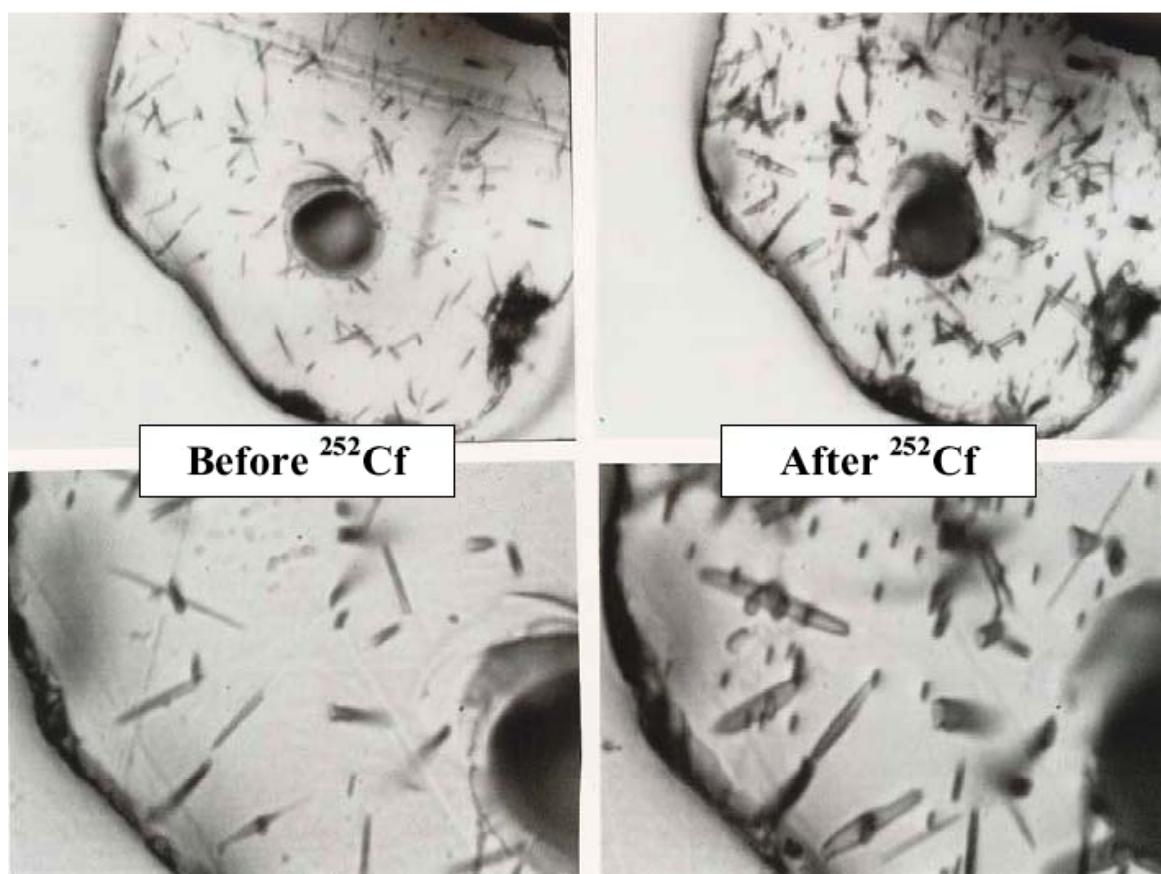


Figure C.1. Before and after images of apatite grains subjected to ²⁵²Cf-derived fission-fragment irradiation. Upper images are at 625x magnification; lower images are of the same grain at 1562x magnification. Note the obvious increase in confined tracks for

length measurement. The large pit represents a laser ablation pit created during LA-ICP-MS analysis for AFT age dating.

During analyses by POS, all fission-track kinetic-parameter measurements, spontaneous track counts and confined track-length measurements were completed using unpolarized light at 2000x magnification (100x dry objective, 1.25x projection tube, 16x oculars).

C.4. Kinetic Classification of each Apatite Grain

It is well known that apatite fission track ages and total etched fission track lengths are strongly correlated with the solubility of their host apatite grain in samples that have experienced significant residence time at temperatures above approximately 70°C (see Burtner et al., 1994; U.S. Patent Number 5,267,274; Australian Patent Number 658,800). The parameter used to quantify solubility is termed *Dpar* in this report. *Dpar* refers to the maximum diameter of fission track etch pits parallel to the crystallographic c-axis at their intersection with the polished and etched apatite surface (**Figure C.2**).

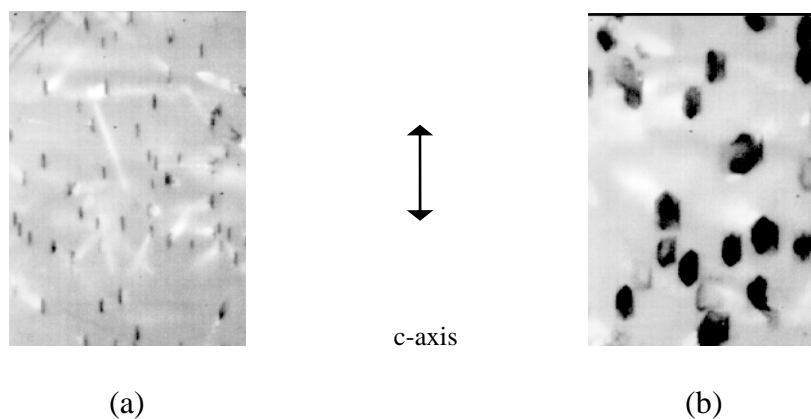


Figure C.2. Reflected light photomicrographs taken at 1562.5x magnification of two apatite crystals that exhibit very different *Dpar* values (see text). Both apatite crystals were etched in 5.5N HNO₃ for 20.0 seconds (\pm 0.5 seconds) at 21°C (\pm 1°C).
 (a) *Dpar*=1.83 μ m (apatite from Durango, Mexico ([F]=3.33 wt.%, [Cl]=0.43 wt.%).
 (b) *Dpar*=4.99 μ m (apatite from Bamble, Norway ([F]=0.08 wt.%, [Cl]=6.37 wt.%).

Fission tracks in apatite grains exhibiting the smallest *Dpar* values usually anneal more quickly than fission tracks in apatite grains having larger *Dpar* values. In an apatite grain having a *Dpar* value near 1.50 μ m (a typical fluorine-rich apatite), fission tracks generally do not survive geological heating above about 100°C. On the other hand, in an apatite grain having a *Dpar* value near 3.00 μ m (a typical chlorine-rich apatite), fission tracks may survive geological heating above 150°C.

For each apatite grain from which fission-track data were measured, between one and four etch pit diameters were measured and an arithmetic mean D_{par} value calculated from these individual values.

C.5. Fission-Track Age Measurement

Natural fission tracks form as a result of the spontaneous nuclear fission of trace amounts of ^{238}U within an apatite or zircon grain. Using a modified version of the radioactive decay equation, the fission-track age of an apatite grain can be calculated using the ratio of the number of fission tracks intersecting the surface over a unit area in the grain to the amount of ^{238}U present in the grain.

Spontaneous tracks were first counted on suitable grain surfaces using unpolarized light at 2000x magnification. A laser ablation inductively coupled plasma-mass spectrometer (LA-ICP-MS) was then used to determine the ^{238}U concentrations by measuring the ratio of ^{238}U to ^{43}Ca for apatite, from the exact regions on the individual grains from which the spontaneous tracks were initially counted (see Hasebe et al., 2004; Donelick et al., 2005). All LA-ICP-MS analyses were carried using the facilities available in the GeoAnalytical Laboratory, Washington State University in Pullman, Washington, using the conditions and parameters outlined in **Table C.2**.

For apatite, the fundamental assumption is made that Ca occurs in stoichiometric amounts in all apatite grains analyzed by the LA-ICP-MS. The isotope ^{43}Ca is used as the indicator of the volume of apatite ablated. Samples are ablated in a helium atmosphere to reduce condensation and elemental fractionation.

Spot analyses, with the laser centered on a fixed point, were used (see **Figure C.1**). A total of 30 scans for ^{238}U , ^{232}Th , and ^{147}Sm and either ^{43}Ca (apatite) or ^{29}Si (zircon) were performed for each spot analyzed. Of these scans, approximately 10 were performed while the laser was warming up and was blocked from contacting the grain surface. During this time, background counts were collected. Once the laser was permitted to hit the grain surface, a cylindrical pit was excavated to a depth beyond which uranium did not contribute fission tracks to the etched grain surface. Between 15 and 20 scans performed during pit excavation were required to reach this depth. The depths of a representative number of these pits were measured and the $^{238}\text{U}/^{42}\text{Ca}$ (apatite) or $^{238}\text{U}/^{29}\text{Si}$ (zircon) value for the pit as a whole was determined based on the weighted mean of the $^{238}\text{U}/^{43}\text{Ca}$ or $^{238}\text{U}/^{29}\text{Si}$ value for individual scans relative to the depths from which the ablated material was derived.

The fission track ages and errors were calculated using: (a) the ratio of the density of natural fission tracks present in the grain to the amount of ^{238}U present, and (b) a modified version of the radioactive decay equation that includes a LA-ICPMS zeta calibration factor (see equations 1b for age equation and 2b for error calculation in Donelick et al., 2005). This zeta calibration factor is determined for each sample analyzed during each LA-ICP-MS session by analyzing the U:Ca ratio of an apatite calibration

standard with known an known age at the beginning and end of each session on the LA-ICP-MS. The apatite standard used is Durango apatite; with a known age of 30.6 ± 0.3 Ma.

Table C.2. ICP-MS and laser operating conditions and data acquisition parameters.

<i>ICP-MS: operating conditions</i>	
Instrument	Finnigan Element II Magnetic Sector ICP-MS
Forward power	1.25 kW
Reflected power	<5 W
Plasma gas	Ar
Coolant flow	15 l/min
Carrier flow	1.0 l/min (Ar) 0.8 l/min (He) – optimized daily
Auxiliary flow	0.9 l/min
<i>ICP-MS: acquisition parameters</i>	
Dwell time	18 milliseconds per peak point
Points per peak	4
Mass window	5%
Scans	30
Data acquisition time	22 sec
Data acquisition mode	electronic scanning
Isotopes measured	⁴³ Ca (apatite)
<i>Laser: operating conditions</i>	
Laser type	New Wave UP213 (Nd: YAG)
Wavelength	213 nm
Laser mode	Q switched
Laser output power	8 J/cm
Laser warm up time	6 sec
Shot repetition rate	5 Hz
Sampling scheme	spot (16 µm for apatite)

C.6. Fission-Track Length Measurement for Apatite

The total etched length of a natural fission track in apatite is a strong indicator of the integrated thermal history that the track has experienced. Fission tracks form continuously through time at a rate determined solely by the concentration of ²³⁸U in the host apatite grain. As such, the distribution of fission-track lengths in an apatite contains abundant information about the time-temperature path experienced by the apatite, particularly the cooling history since the time of peak temperature.

Following age analysis, apatite mounts were then irradiated using fission fragments from a ²⁵²Cf source in a vacuum chamber in order to enhance the number of confined tracks available for measurement (e.g. Donelick and Miller, 1991; Donelick et al., 2005). Donelick and Miller (1991) demonstrated that irradiating apatite grains with ²⁵²Cf-derived fission fragments could yield a 20-fold increase in the number of available fission tracks for length measurement (**Figure C.1**).



Figure C.1. Transmitted light photomicrographs taken at 1562.5x magnification of two apatite crystals from the same sample that exhibit low natural fission-track densities. (a) not irradiated with ^{252}Cf fission fragments (arrow indicates a natural fission track).

The ^{252}Cf -irradiated grain mounts were then re-etched using the same formula as before in order to reveal horizontal, confined fission tracks within the apatite grains. Only natural, horizontal, confined fission tracks in apatite with clearly visible ends were considered candidates for length measurement. The length and crystallographic orientation of each fission track was determined using a digitizing tablet interfaced with a personal computer. The precision of each track length is estimated to be $\pm 0.20\ \mu\text{m}$; the precision of each track angle to the crystallographic c-axis is estimated to be ± 2 degrees.

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