Onshore Grab Sample

Sample: LE-31-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/13/10
Splits? N/A

County: Lee
Latitude: 26° 26' 10.4"
Longitude: 82° 07' 33.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	0	grams
Total Fines in Sample	0.016	grams
Total Percent Fines	100.00	%

Dry Sieving Summary

Total Sample Weight	58.690	grams
Total Digested Weight	6.839	grams
Total Carbonate Weight	51.851	grams
Total Silica %	11.65	%
Total Carbonate %	88.35	%
Carbonate/Silica Ratio	7.582	

General Comments:

Forgot to weigh sample before Wet Sieving; Spilled some sample at 1.25 phi; Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: LE-31-BB

Total Sample Mass: 58.690 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	3.494	5.953	5.953
-2.00	-2.125	2.101	3.580	9.533
-1.75	-1.875	2.609	4.445	13.979
-1.50	-1.625	3.614	6.158	20.136
-1.25	-1.375	3.823	6.514	26.650
-1.00	-1.125	4.179	7.120	33.771
-0.75	-0.875	4.857	8.276	42.046
-0.50	-0.625	5.432	9.255	51.302
-0.25	-0.375	4.014	6.839	58.141
0.00	-0.125	3.182	5.422	63.563
0.25	0.125	2.798	4.767	68.330
0.50	0.375	2.207	3.760	72.091
0.75	0.625	2.059	3.508	75.599
1.00	0.875	2.813	4.793	80.392
1.25	1.125	1.403	2.391	82.782
1.50	1.375	1.362	2.321	85.103
1.75	1.625	1.054	1.796	86.899
2.00	1.875	1.204	2.051	88.950
2.25	2.125	1.287	2.193	91.143
2.50	2.375	1.396	2.379	93.522
2.75	2.625	1.495	2.547	96.069
3.00	2.875	1.245	2.121	98.190
3.25	3.125	0.747	1.273	99.463
3.50	3.375	0.234	0.399	99.862
3.75	3.625	0.054	0.092	99.954
4.00	3.875	0.011	0.019	99.973
5.00	4.50	0.016	0.027	100.000

Statistical Results			
Mean:	-0.2334	phi	(1.1756 mm)
Standard Dev:	1.4649	phi-units	(0.3623 mm)
Skewness:	0.6160	dimensionless	
Kurtosis:	2.5491	dimensionless	
5th Moment:	3.3410	dimensionless	
6th Moment:	9.3103	dimensionless	
RARD *	6.2767	dimensionless	
Median	-0.6602	phi	(1.5803 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

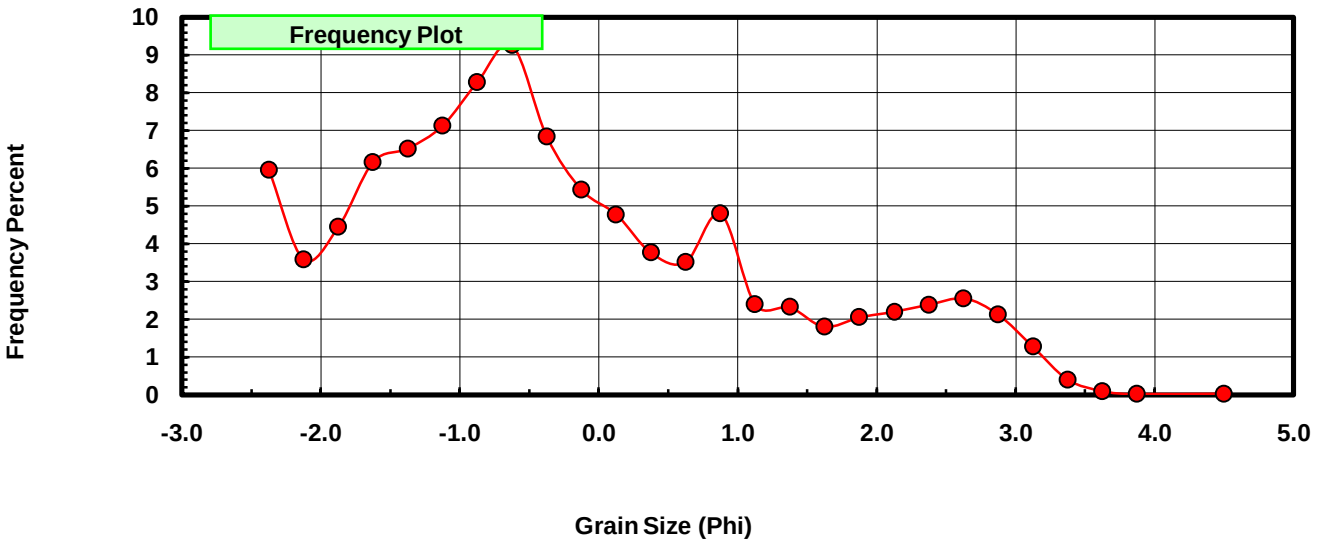
Statistical Explanation

Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

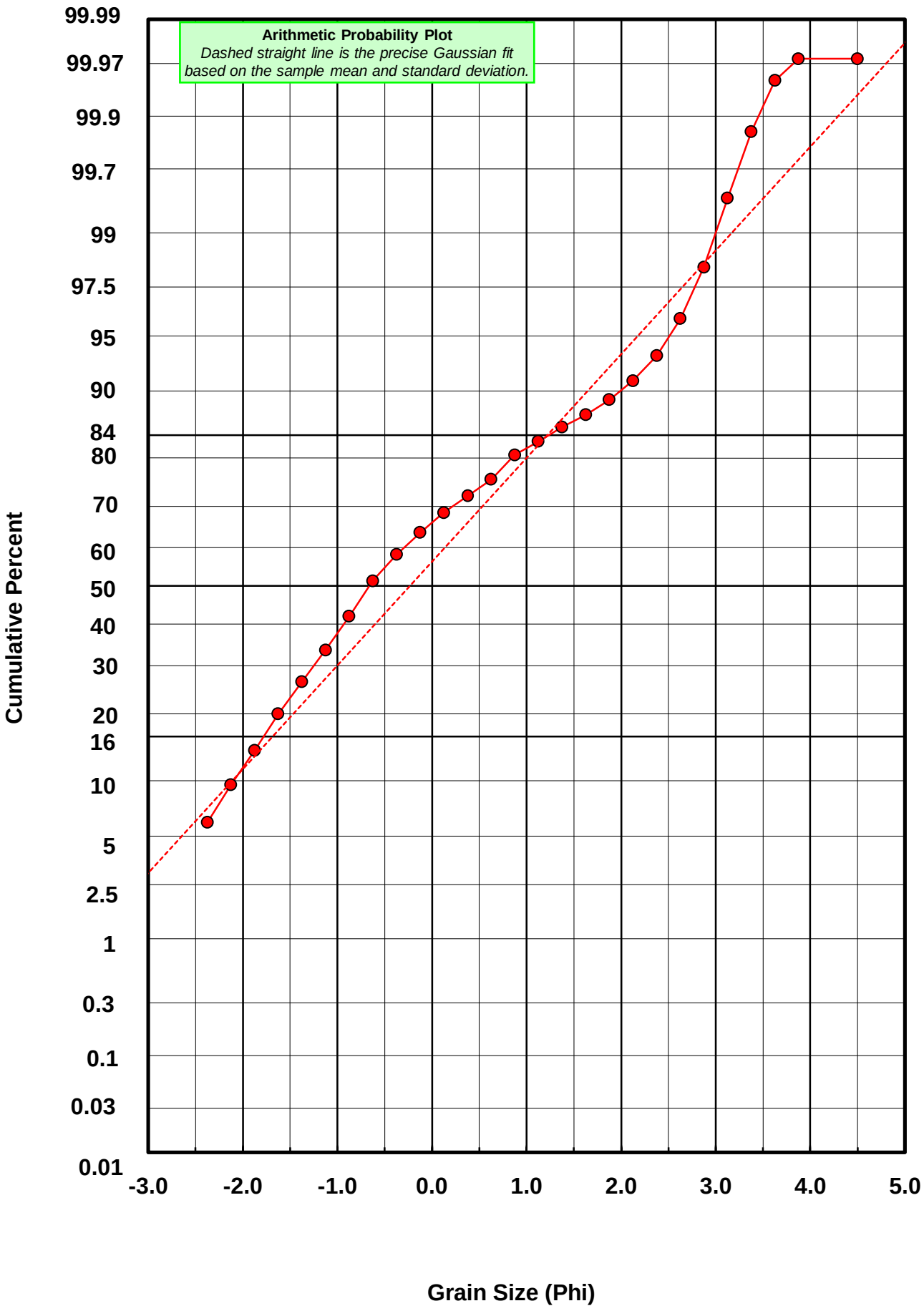
For Further Explanation, See Basillle et al. 2002

Millimeter data calculated by mm = 2^(-phi)

Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
0.5 to 1.0	Good homogeneity
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)



LE-31-BB


Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit
based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)