Onshore Grab Sample

Sample: ES-37-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/31/11
Splits? N/A

County: Escambia
Latitude: 30° 21' 53.1" N
Longitude: 86° 57' 27.1" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	63.043	grams
Total Fines in Sample	0.023	grams
Total Percent Fines	0.04	%

Dry Sieving Summary

Total Sample Weight	63.058	grams
Total Digested Weight	62.645	grams
Total Carbonate Weight	0.413	grams
Total Silica %	99.35	%
Total Carbonate %	0.65	%
Carbonate/Silica Ratio	0.007	

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: ES-37-BB

Total Sample Mass: 63.058 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.094	0.149	0.149
-1.50	-1.625	0.025	0.040	0.189
-1.25	-1.375	0.091	0.144	0.333
-1.00	-1.125	0.030	0.048	0.381
-0.75	-0.875	0.039	0.062	0.442
-0.50	-0.625	0.100	0.159	0.601
-0.25	-0.375	0.236	0.374	0.975
0.00	-0.125	0.605	0.959	1.935
0.25	0.125	0.605	0.959	2.894
0.50	0.375	1.103	1.749	4.643
0.75	0.625	1.650	2.617	7.260
1.00	0.875	5.747	9.114	16.374
1.25	1.125	9.388	14.888	31.262
1.50	1.375	18.443	29.248	60.509
1.75	1.625	15.325	24.303	84.812
2.00	1.875	7.522	11.929	96.741
2.25	2.125	1.552	2.461	99.202
2.50	2.375	0.357	0.566	99.768
2.75	2.625	0.086	0.136	99.905
3.00	2.875	0.032	0.051	99.956
3.25	3.125	0.009	0.014	99.970
3.50	3.375	0.008	0.013	99.983
3.75	3.625	0.003	0.005	99.987
4.00	3.875	0.004	0.006	99.994
5.00	4.50	0.004	0.006	100.000

Statistical Results			
Mean:	1.3544	phi	(0.3911 mm)
Standard Dev:	0.4777	phi-units	(0.7181 mm)
Skewness:	-1.6236	dimensionless	
Kurtosis:	9.8699	dimensionless	
5th Moment:	-43.9617	dimensionless	
6th Moment:	275.6812	dimensionless	
RARD *	0.3527	dimensionless	
Median	1.2852	phi	(0.4103 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

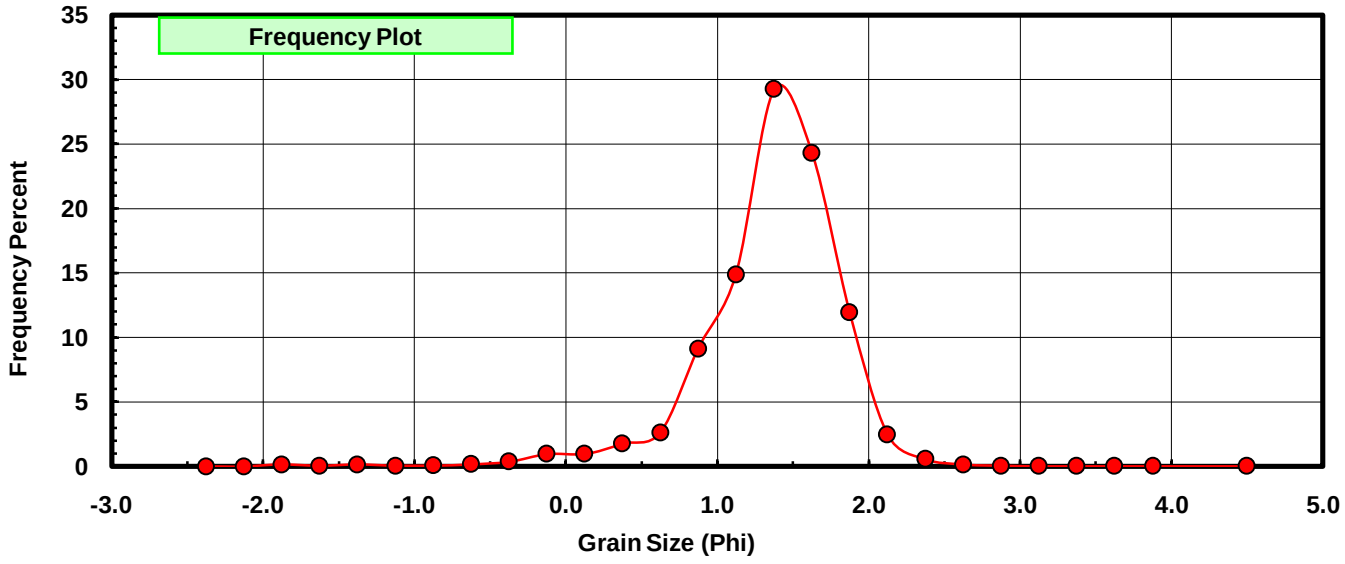
Statistical Explanation

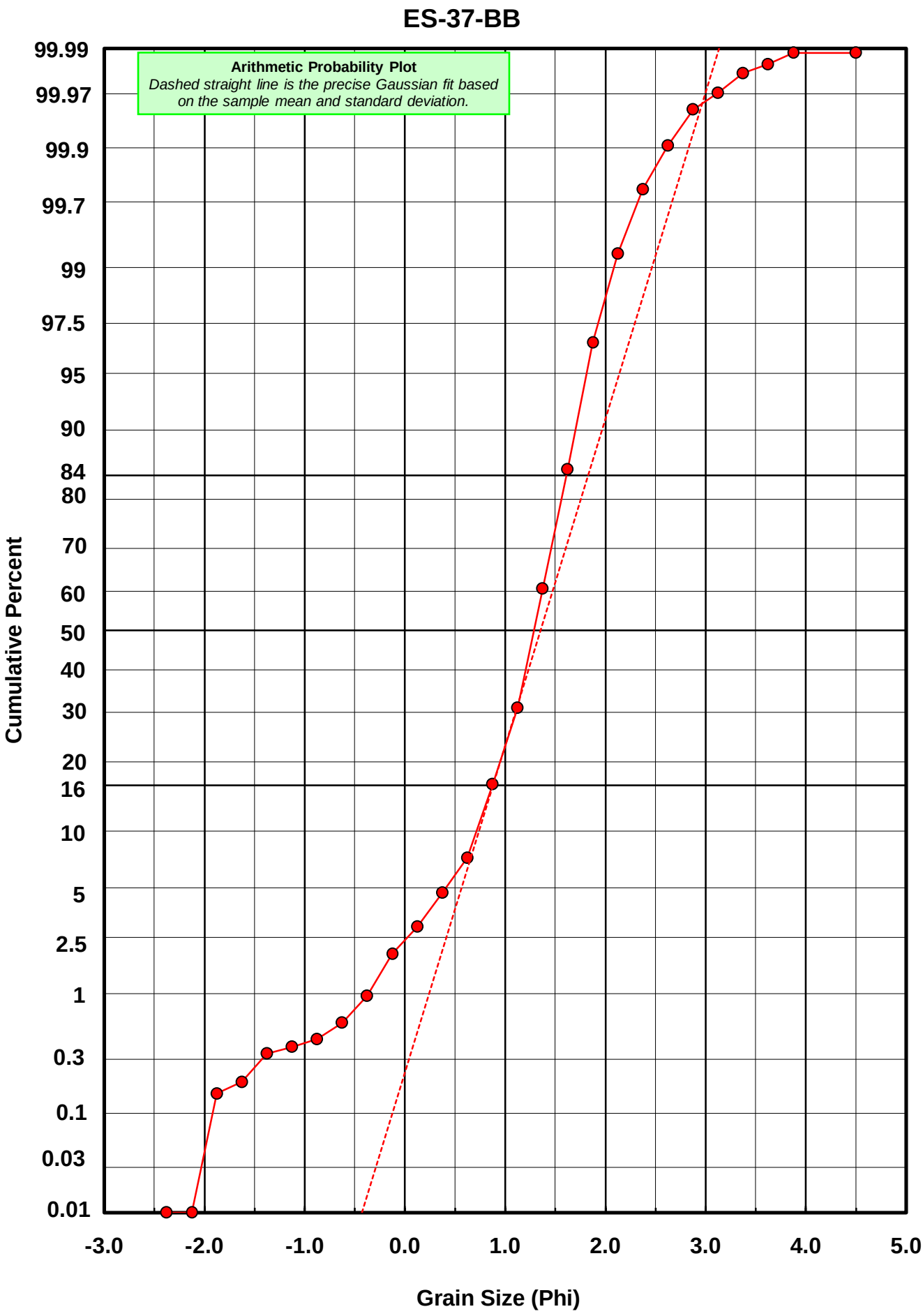
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




ES-37-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)