Onshore Grab Sample

Sample: ES-34-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/30/11
Splits? N/A

County: Escambia
Latitude: 30° 21' 23.6" N
Longitude: 87° 0' 14" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	48.525	grams
Total Fines in Sample	0.005	grams
Total Percent Fines	0.01	%

Dry Sieving Summary

Total Sample Weight	48.533	grams
Total Digested Weight	48.480	grams
Total Carbonate Weight	0.053	grams
Total Silica %	99.89	%
Total Carbonate %	0.11	%
Carbonate/Silica Ratio	0.001	

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-34-BB

Total Sample Mass: 48.533 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	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.032	0.066	0.066
0.25	0.125	0.064	0.132	0.198
0.50	0.375	0.212	0.437	0.635
0.75	0.625	0.605	1.247	1.881
1.00	0.875	2.803	5.775	7.657
1.25	1.125	5.826	12.004	19.661
1.50	1.375	14.363	29.594	49.255
1.75	1.625	14.616	30.116	79.371
2.00	1.875	7.830	16.133	95.504
2.25	2.125	1.571	3.237	98.741
2.50	2.375	0.426	0.878	99.619
2.75	2.625	0.120	0.247	99.866
3.00	2.875	0.045	0.093	99.959
3.25	3.125	0.009	0.019	99.977
3.50	3.375	0.006	0.012	99.990
3.75	3.625	0.001	0.002	99.992
4.00	3.875	0.002	0.004	99.996
5.00	4.50	0.002	0.004	100.000

Statistical Results			
Mean:	1.4941	phi	(0.355 mm)
Standard Dev:	0.3450	phi-units	(0.7873 mm)
Skewness:	-0.1862	dimensionless	
Kurtosis:	4.5520	dimensionless	
5th Moment:	0.8428	dimensionless	
6th Moment:	63.6024	dimensionless	
RARD *	0.2309	dimensionless	
Median	1.3812	phi	(0.3839 mm)

* RARD = reciprocal absolute relative dispersion (see below)

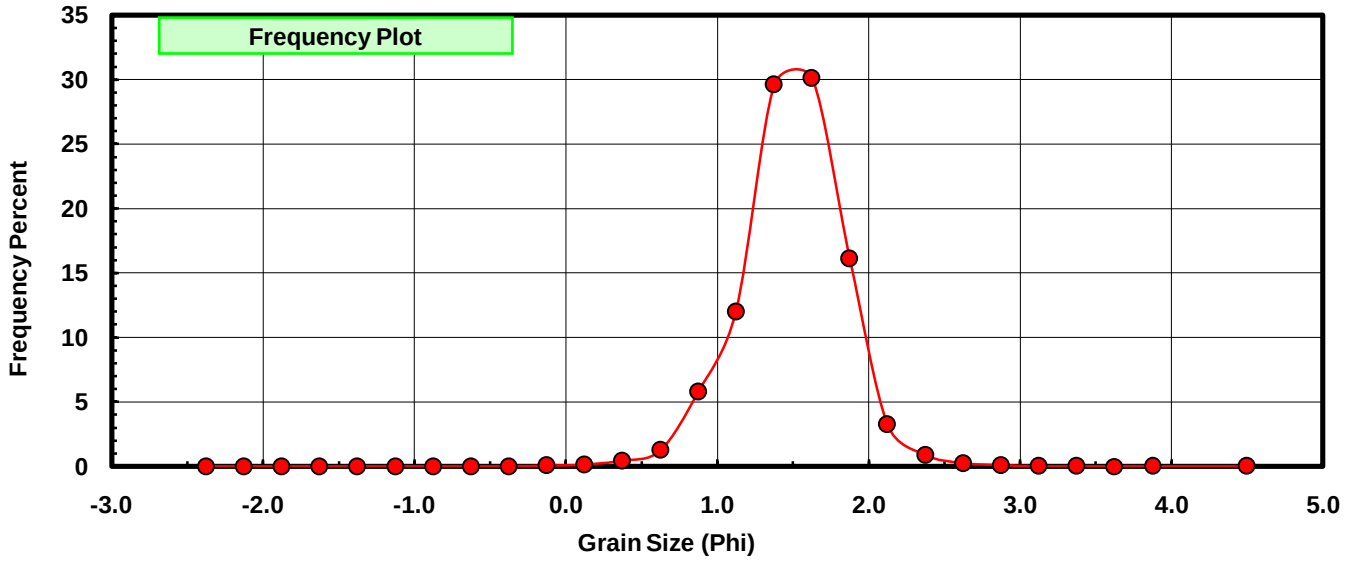
Statistical Explanation

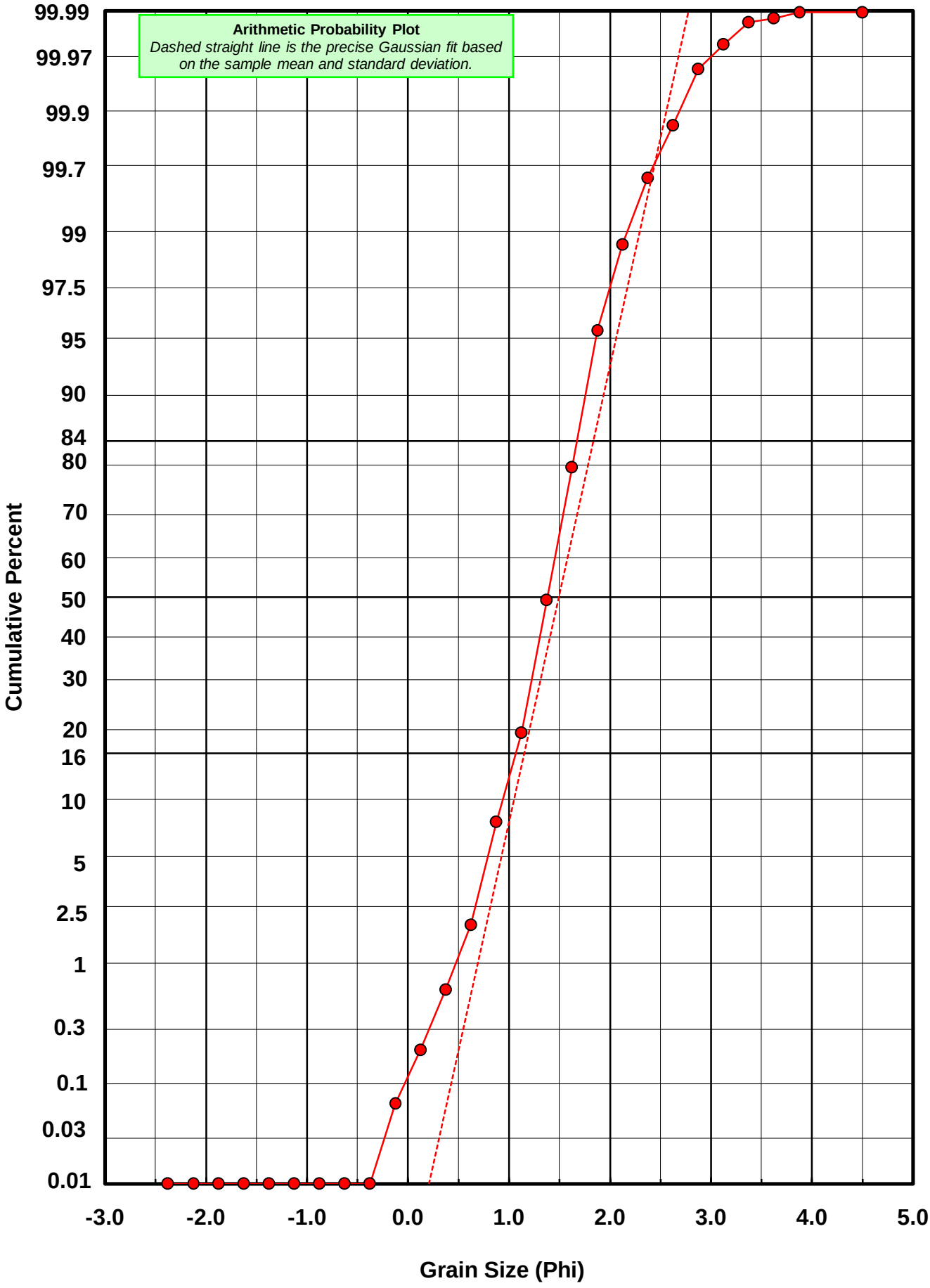
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-34-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)