Onshore Grab Sample

Sample: ES-02-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/29/11
Splits? N/A

County: Escambia
Latitude: 30° 17' 1.2" N
Longitude: 87° 30' 4.8" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	59.36	grams
Total Fines in Sample	0.067	grams
Total Percent Fines	0.11	%

Dry Sieving Summary

Total Sample Weight	59.209	grams
Total Digested Weight	58.868	grams
Total Carbonate Weight	0.341	grams
Total Silica %	99.42	%
Total Carbonate %	0.58	%
Carbonate/Silica Ratio	0.006	

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-02-BB

Total Sample Mass: 59.209 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.165	0.279	0.279
-2.00	-2.125	0.000	0.000	0.279
-1.75	-1.875	0.000	0.000	0.279
-1.50	-1.625	0.000	0.000	0.279
-1.25	-1.375	0.000	0.000	0.279
-1.00	-1.125	0.000	0.000	0.279
-0.75	-0.875	0.000	0.000	0.279
-0.50	-0.625	0.000	0.000	0.279
-0.25	-0.375	0.038	0.064	0.343
0.00	-0.125	0.027	0.046	0.388
0.25	0.125	0.053	0.090	0.478
0.50	0.375	0.173	0.292	0.770
0.75	0.625	0.437	0.738	1.508
1.00	0.875	2.073	3.501	5.009
1.25	1.125	4.038	6.820	11.829
1.50	1.375	10.627	17.948	29.778
1.75	1.625	15.561	26.281	56.059
2.00	1.875	15.372	25.962	82.021
2.25	2.125	6.735	11.375	93.396
2.50	2.375	3.001	5.068	98.465
2.75	2.625	0.694	1.172	99.637
3.00	2.875	0.149	0.252	99.889
3.25	3.125	0.027	0.046	99.934
3.50	3.375	0.017	0.029	99.963
3.75	3.625	0.011	0.019	99.981
4.00	3.875	0.006	0.010	99.992
5.00	4.50	0.005	0.008	100.000

Statistical Results			
Mean:	1.6709	phi	(0.3141 mm)
Standard Dev:	0.4522	phi-units	(0.7309 mm)
Skewness:	-2.1103	dimensionless	
Kurtosis:	20.7707	dimensionless	
5th Moment:	-163.2459	dimensionless	
6th Moment:	1478.3496	dimensionless	
RARD *	0.2707	dimensionless	
Median	1.5674	phi	(0.3374 mm)

* RARD = reciprocal absolute relative dispersion (see below)

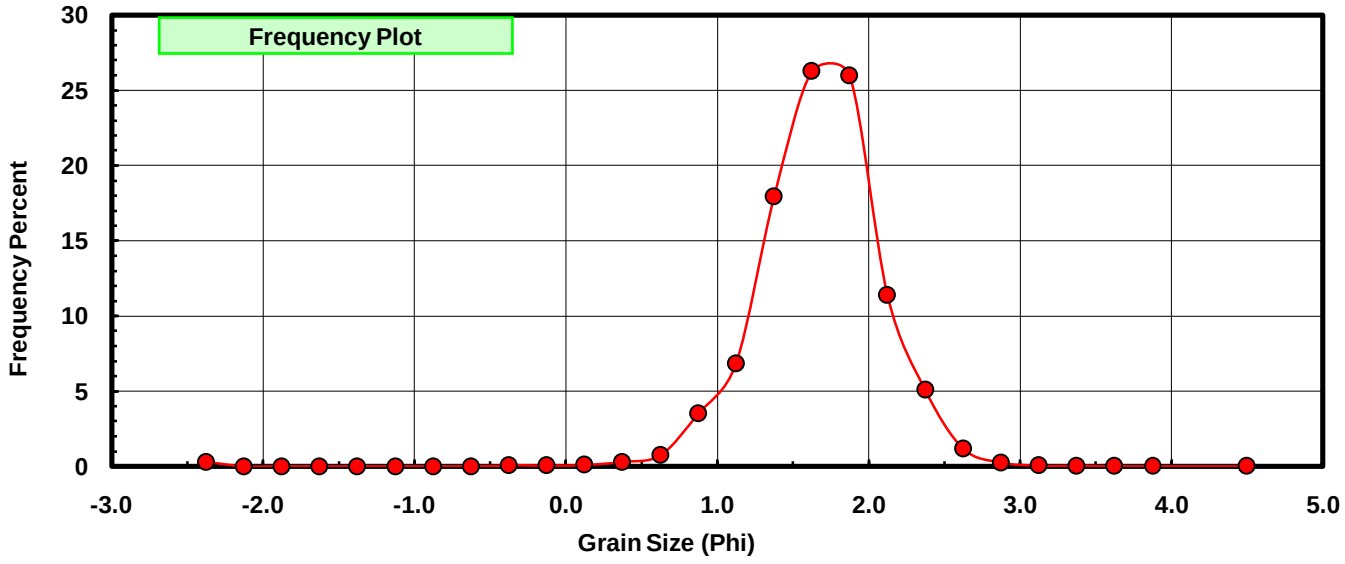
Statistical Explanation

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

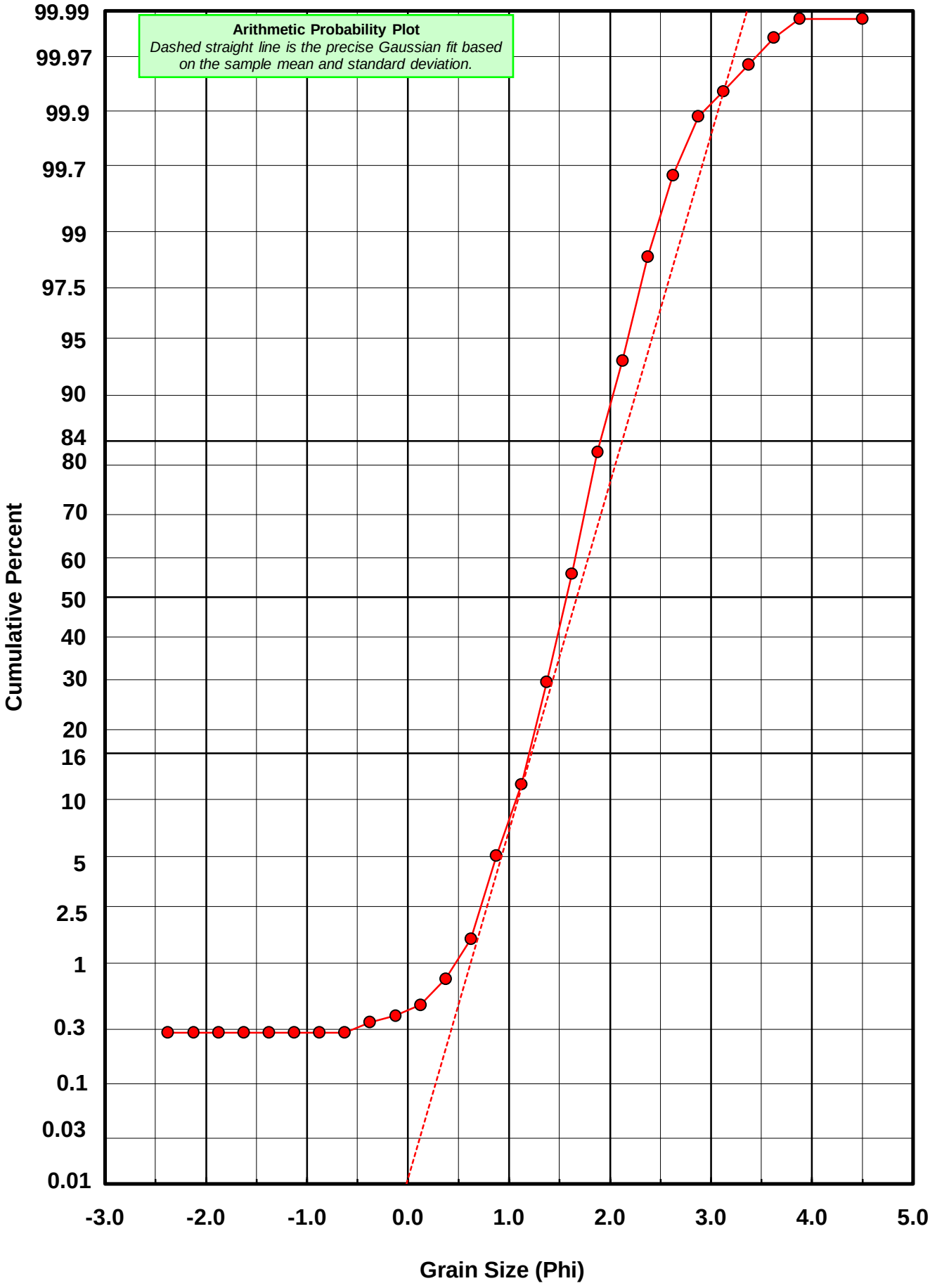
For Further Explanation, See Basillle et al. 2002

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-02-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)