Onshore Grab Sample

Sample: DD-15-BB
Sample Taken By: D. Phelps
Sample Collected On: 2/24/09
Splits? N/A

County: Dade
Latitude: 25° 45' 52.3"
Longitude: 80° 07' 51.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	71.072	grams
Total Fines in Sample	0.729	grams
Total Percent Fines	1.02	%

Dry Sieving Summary

Total Sample Weight	70.464	grams
Total Digested Weight	2.804	grams
Total Carbonate Weight	67.660	grams
Total Silica %	3.98	%
Total Carbonate %	96.02	%
Carbonate/Silica Ratio	24.130	

General Comments:

Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DD-15-BB

Total Sample Mass: 70.464 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.090	0.128	0.128
-2.00	-2.125	0.000	0.000	0.128
-1.75	-1.875	0.147	0.209	0.336
-1.50	-1.625	0.222	0.315	0.651
-1.25	-1.375	0.216	0.307	0.958
-1.00	-1.125	0.367	0.521	1.479
-0.75	-0.875	0.634	0.900	2.379
-0.50	-0.625	1.203	1.707	4.086
-0.25	-0.375	1.995	2.831	6.917
0.00	-0.125	2.161	3.067	9.984
0.25	0.125	2.389	3.390	13.374
0.50	0.375	3.854	5.469	18.844
0.75	0.625	4.714	6.690	25.534
1.00	0.875	5.281	7.495	33.028
1.25	1.125	4.898	6.951	39.979
1.50	1.375	6.020	8.543	48.523
1.75	1.625	6.143	8.718	57.241
2.00	1.875	6.620	9.395	66.635
2.25	2.125	7.073	10.038	76.673
2.50	2.375	5.419	7.690	84.364
2.75	2.625	5.670	8.047	92.410
3.00	2.875	2.912	4.133	96.543
3.25	3.125	1.303	1.849	98.392
3.50	3.375	0.530	0.752	99.144
3.75	3.625	0.320	0.454	99.598
4.00	3.875	0.194	0.275	99.874
5.00	4.50	0.089	0.126	100.000

Statistical Results			
Mean:	1.4325	phi	(0.3705 mm)
Standard Dev:	1.0462	phi-units	(0.4842 mm)
Skewness:	-0.4321	dimensionless	
Kurtosis:	2.9272	dimensionless	
5th Moment:	-3.4512	dimensionless	
6th Moment:	15.5883	dimensionless	
RARD *	0.7303	dimensionless	
Median	1.4174	phi	(0.3744 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

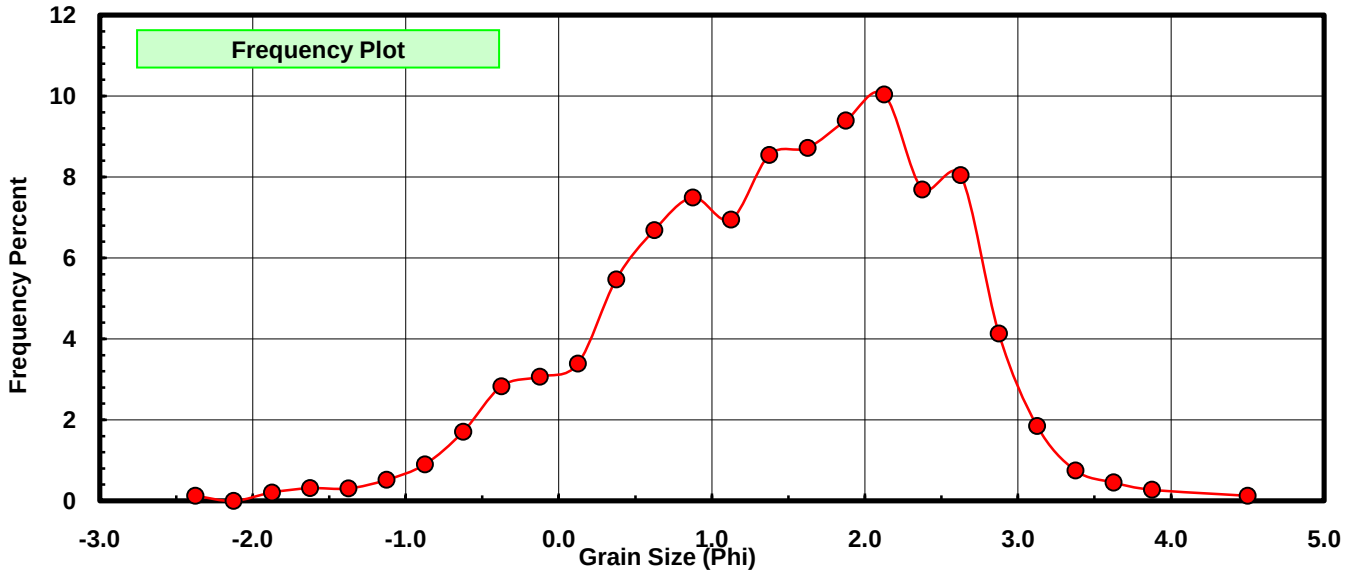
Statistical Explanation

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

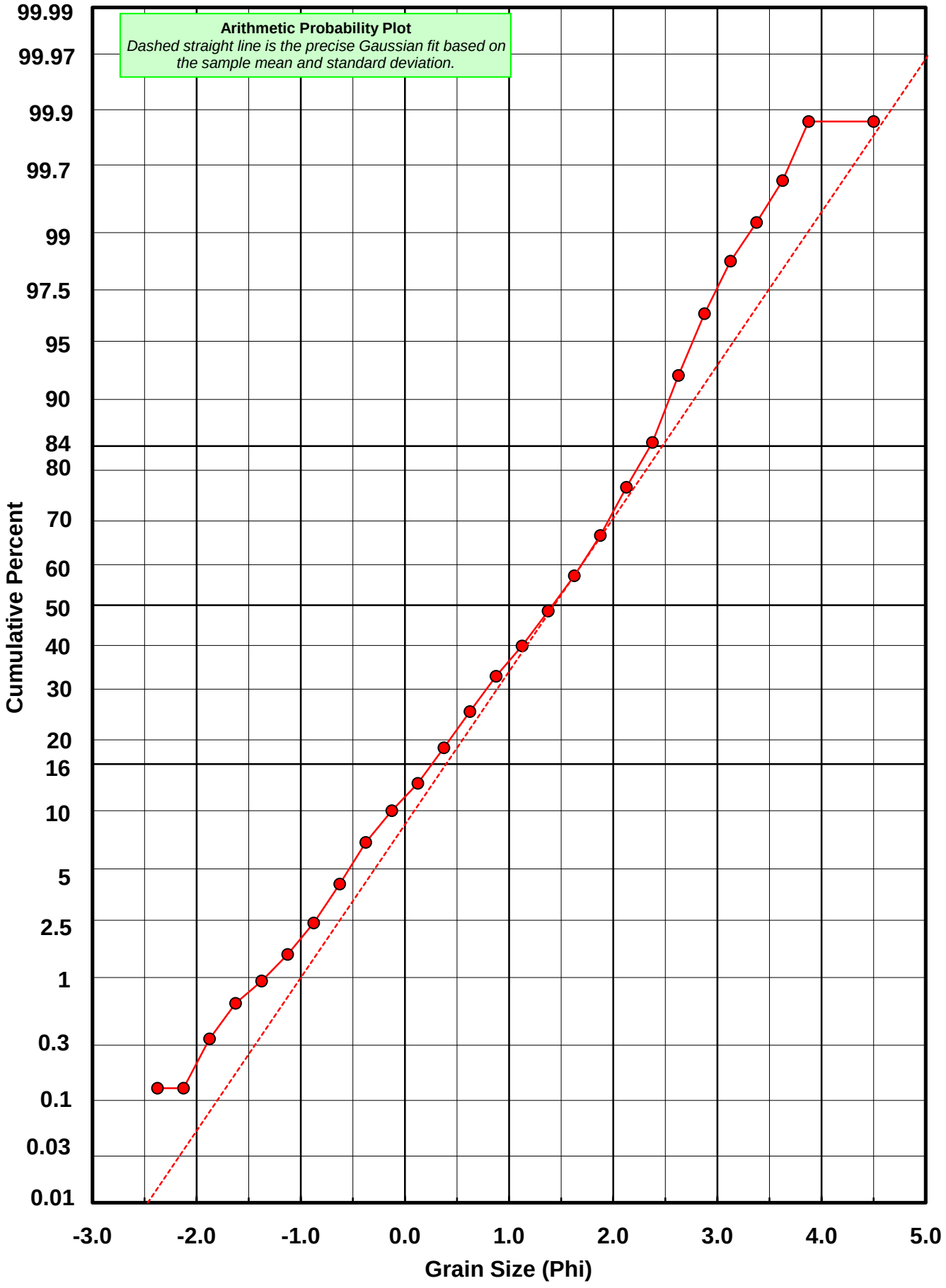
For Further Explanation, See Basillle et al. 2002

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)



DD-15-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)