Onshore Grab Sample

Sample: DD-02-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/28/09
Splits? N/A

County: Dade
Latitude: 25° 56' 55.7"
Longitude: 80° 07' 10.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	54.431	grams
Total Fines in Sample	0.909	grams
Total Percent Fines	1.64	%

Dry Sieving Summary

Total Sample Weight	53.566	grams
Total Digested Weight	4.222	grams
Total Carbonate Weight	49.344	grams
Total Silica %	7.88	%
Total Carbonate %	92.12	%
Carbonate/Silica Ratio	11.687	

General Comments:

Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

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Total Sample Mass: 53.566 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.440	0.821	0.821
-2.00	-2.125	0.000	0.000	0.821
-1.75	-1.875	0.139	0.259	1.081
-1.50	-1.625	0.241	0.450	1.531
-1.25	-1.375	0.120	0.224	1.755
-1.00	-1.125	0.260	0.485	2.240
-0.75	-0.875	0.345	0.644	2.884
-0.50	-0.625	0.935	1.746	4.630
-0.25	-0.375	1.690	3.155	7.785
0.00	-0.125	2.351	4.389	12.174
0.25	0.125	2.673	4.990	17.164
0.50	0.375	4.777	8.918	26.082
0.75	0.625	5.675	10.594	36.676
1.00	0.875	6.138	11.459	48.135
1.25	1.125	4.814	8.987	57.122
1.50	1.375	6.115	11.416	68.538
1.75	1.625	5.277	9.851	78.389
2.00	1.875	4.244	7.923	86.312
2.25	2.125	3.062	5.716	92.029
2.50	2.375	1.602	2.991	95.019
2.75	2.625	1.256	2.345	97.364
3.00	2.875	0.649	1.212	98.576
3.25	3.125	0.372	0.694	99.270
3.50	3.375	0.157	0.293	99.563
3.75	3.625	0.131	0.245	99.808
4.00	3.875	0.071	0.133	99.940
5.00	4.50	0.032	0.060	100.000

Statistical Results			
Mean:	1.0360	phi	(0.4877 mm)
Standard Dev:	0.9502	phi-units	(0.5176 mm)
Skewness:	-0.3845	dimensionless	
Kurtosis:	4.0040	dimensionless	
5th Moment:	-5.2452	dimensionless	
6th Moment:	31.5540	dimensionless	
RARD *	0.9172	dimensionless	
Median	0.9269	phi	(0.526 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

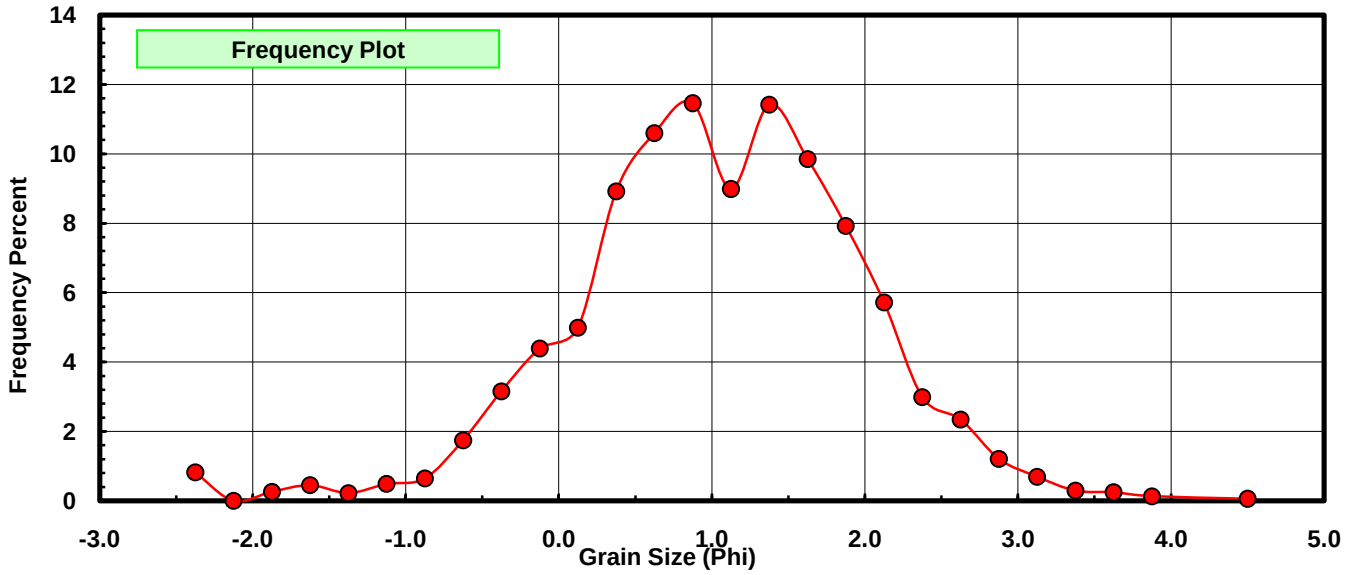
Statistical Explanation

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

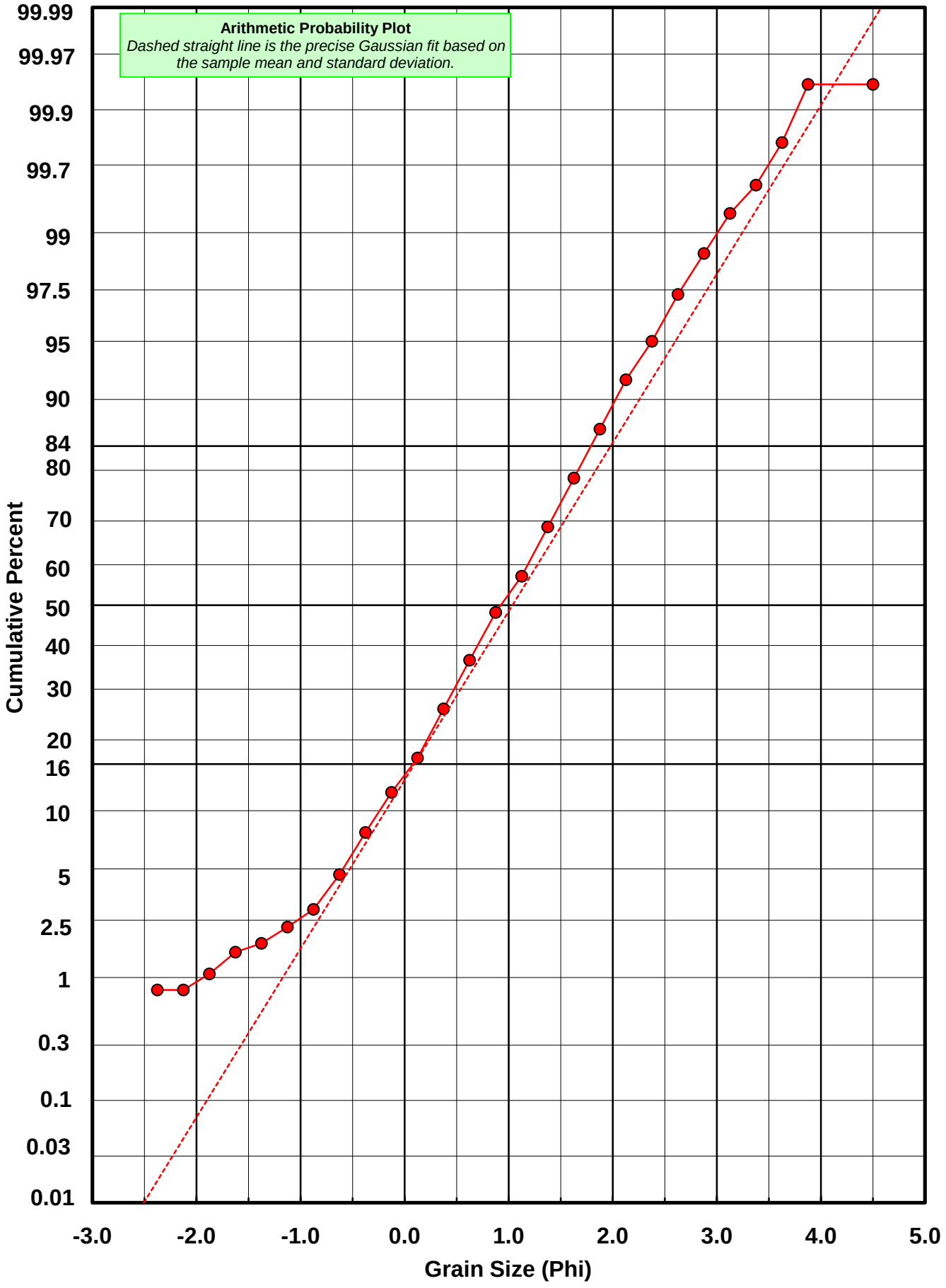
For Further Explanation, See Basillle et al. 2002

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-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)