

Onshore Grab Sample

Sample: DD-01-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/28/09
Splits? N/A

County: Dade
Latitude: 25° 57' 48.1"
Longitude: 80° 07' 07.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 63.833 grams
Total Fines in Sample 0.080 grams
Total Percent Fines 0.13 %

Dry Sieving Summary

Total Sample Weight 63.795 grams
Total Digested Weight 15.227 grams
Total Carbonate Weight 48.568 grams
Total Silica % 23.87 %
Total Carbonate % 76.13 %
Carbonate/Silica Ratio 3.190

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DD-01-BB

Total Sample Mass: 63.795 grams

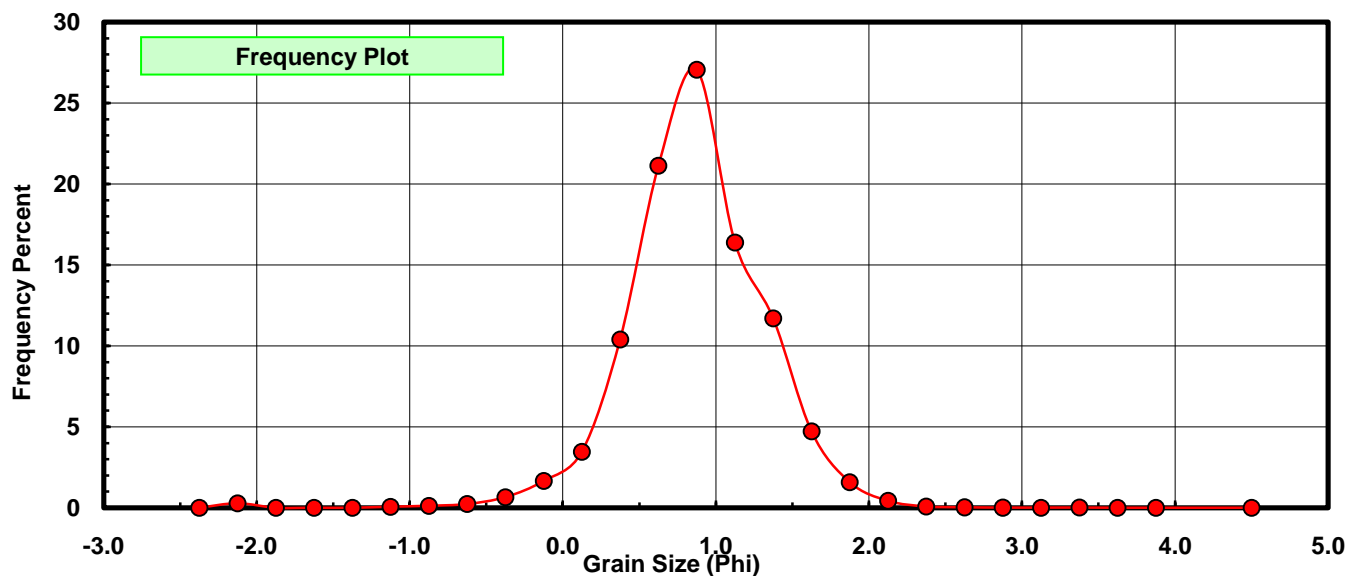
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.176	0.276	0.276
-1.75	-1.875	0.000	0.000	0.276
-1.50	-1.625	0.000	0.000	0.276
-1.25	-1.375	0.000	0.000	0.276
-1.00	-1.125	0.041	0.064	0.340
-0.75	-0.875	0.078	0.122	0.462
-0.50	-0.625	0.147	0.230	0.693
-0.25	-0.375	0.419	0.657	1.350
0.00	-0.125	1.057	1.657	3.007
0.25	0.125	2.209	3.463	6.469
0.50	0.375	6.636	10.402	16.871
0.75	0.625	13.477	21.125	37.997
1.00	0.875	17.262	27.059	65.055
1.25	1.125	10.448	16.377	81.433
1.50	1.375	7.464	11.700	93.133
1.75	1.625	3.012	4.721	97.854
2.00	1.875	1.009	1.582	99.436
2.25	2.125	0.272	0.426	99.862
2.50	2.375	0.052	0.082	99.944
2.75	2.625	0.018	0.028	99.972
3.00	2.875	0.006	0.009	99.981
3.25	3.125	0.005	0.008	99.989
3.50	3.375	0.007	0.011	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.50	0.000	0.000	100.000

Statistical Results			
Mean:	0.8626	phi	(0.55 mm)
Standard Dev:	0.4667	phi-units	(0.7236 mm)
Skewness:	-0.7741	dimensionless	
Kurtosis:	7.8700	dimensionless	
5th Moment:	-31.2581	dimensionless	
6th Moment:	217.7910	dimensionless	
RARD *	0.5410	dimensionless	
Median	0.7359	phi	(0.6004 mm)

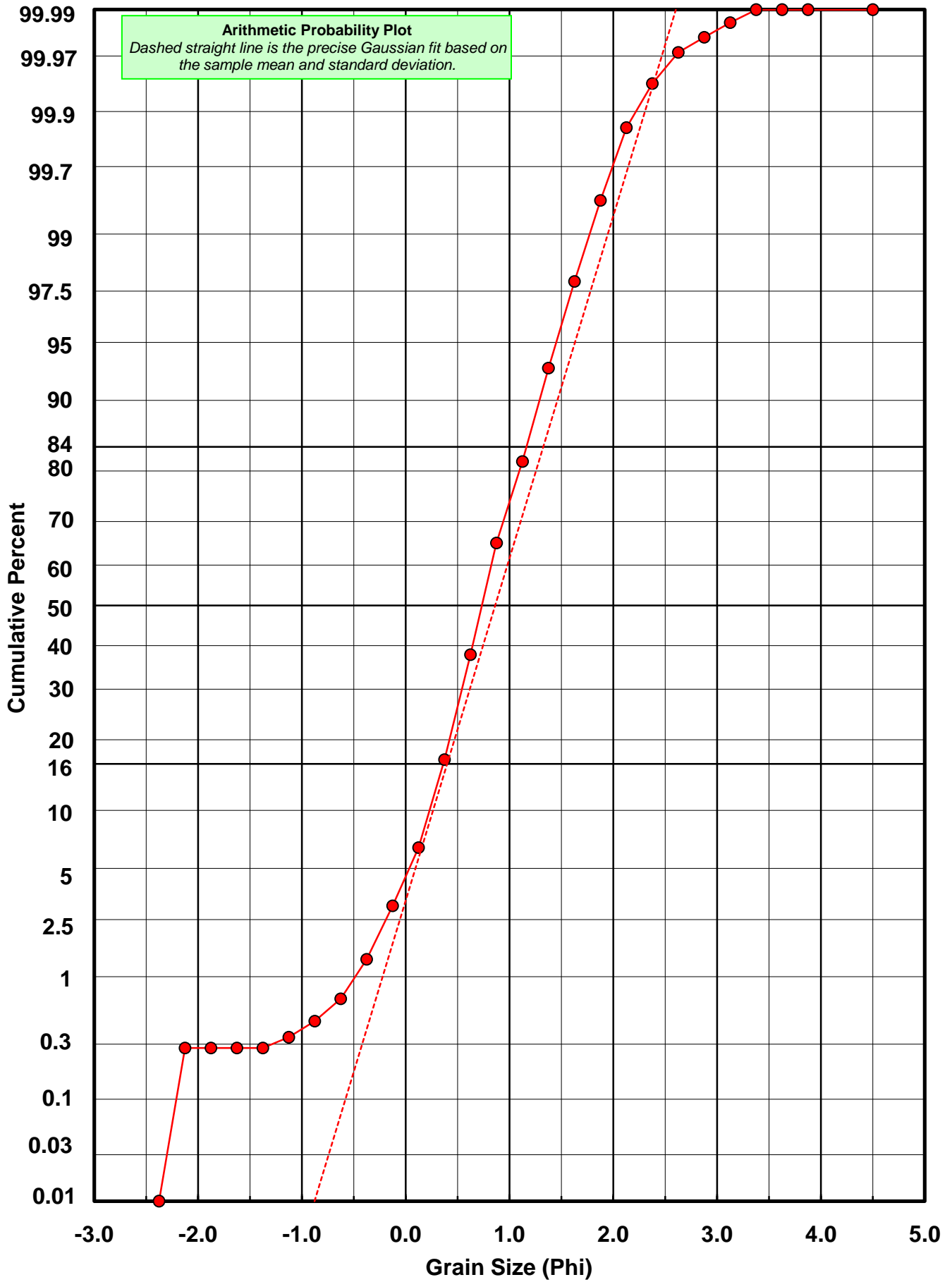
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille 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-01-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: DD-01-BB

Total Carbonate Mass: 48.644 grams

% Carbonate: 76.1 %

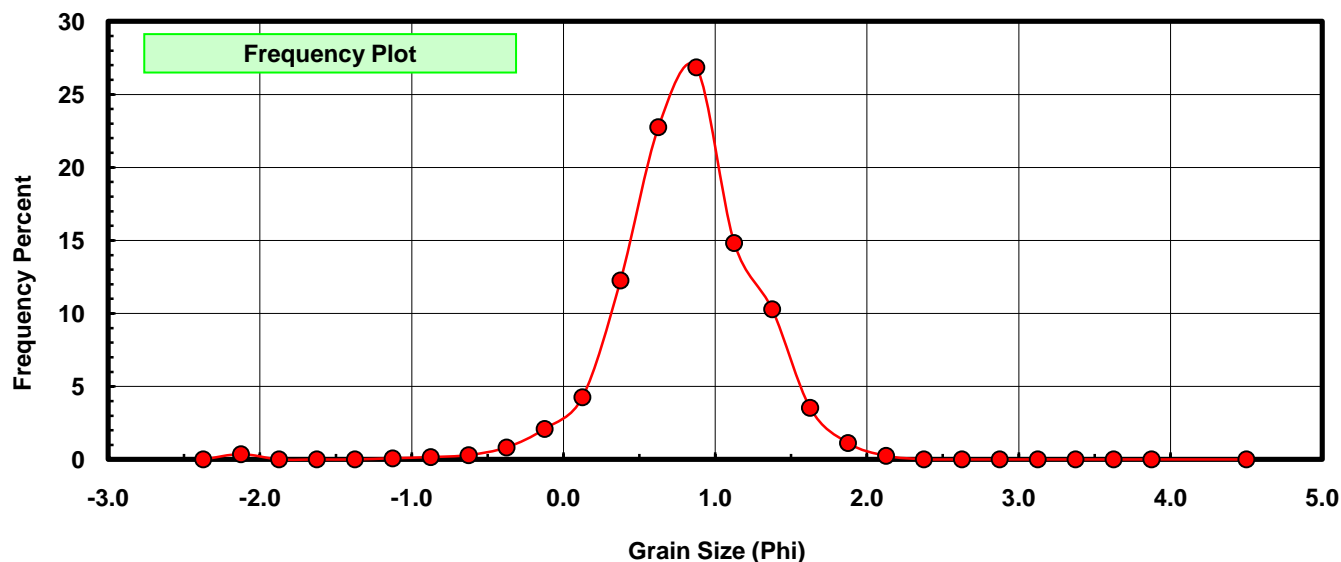
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.176	0.362	0.362
-1.75	-1.875	0.000	0.000	0.362
-1.50	-1.625	0.000	0.000	0.362
-1.25	-1.375	0.000	0.000	0.362
-1.00	-1.125	0.041	0.084	0.446
-0.75	-0.875	0.078	0.160	0.606
-0.50	-0.625	0.147	0.302	0.909
-0.25	-0.375	0.403	0.828	1.737
0.00	-0.125	1.019	2.095	3.832
0.25	0.125	2.077	4.270	8.102
0.50	0.375	5.960	12.252	20.354
0.75	0.625	11.071	22.759	43.113
1.00	0.875	13.060	26.848	69.961
1.25	1.125	7.213	14.828	84.789
1.50	1.375	5.002	10.283	95.072
1.75	1.625	1.718	3.532	98.604
2.00	1.875	0.548	1.127	99.731
2.25	2.125	0.122	0.251	99.981
2.50	2.375	0.009	0.019	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.8033	phi	(0.573 mm)
Standard Dev:	0.4693	phi-units	(0.7223 mm)
Skewness:	-1.0234	dimensionless	
Kurtosis:	8.4246	dimensionless	
5th Moment:	-37.4149	dimensionless	
6th Moment:	236.4927	dimensionless	
RARD *	0.5842	dimensionless	
Median	0.6891	phi	(0.6202 mm)

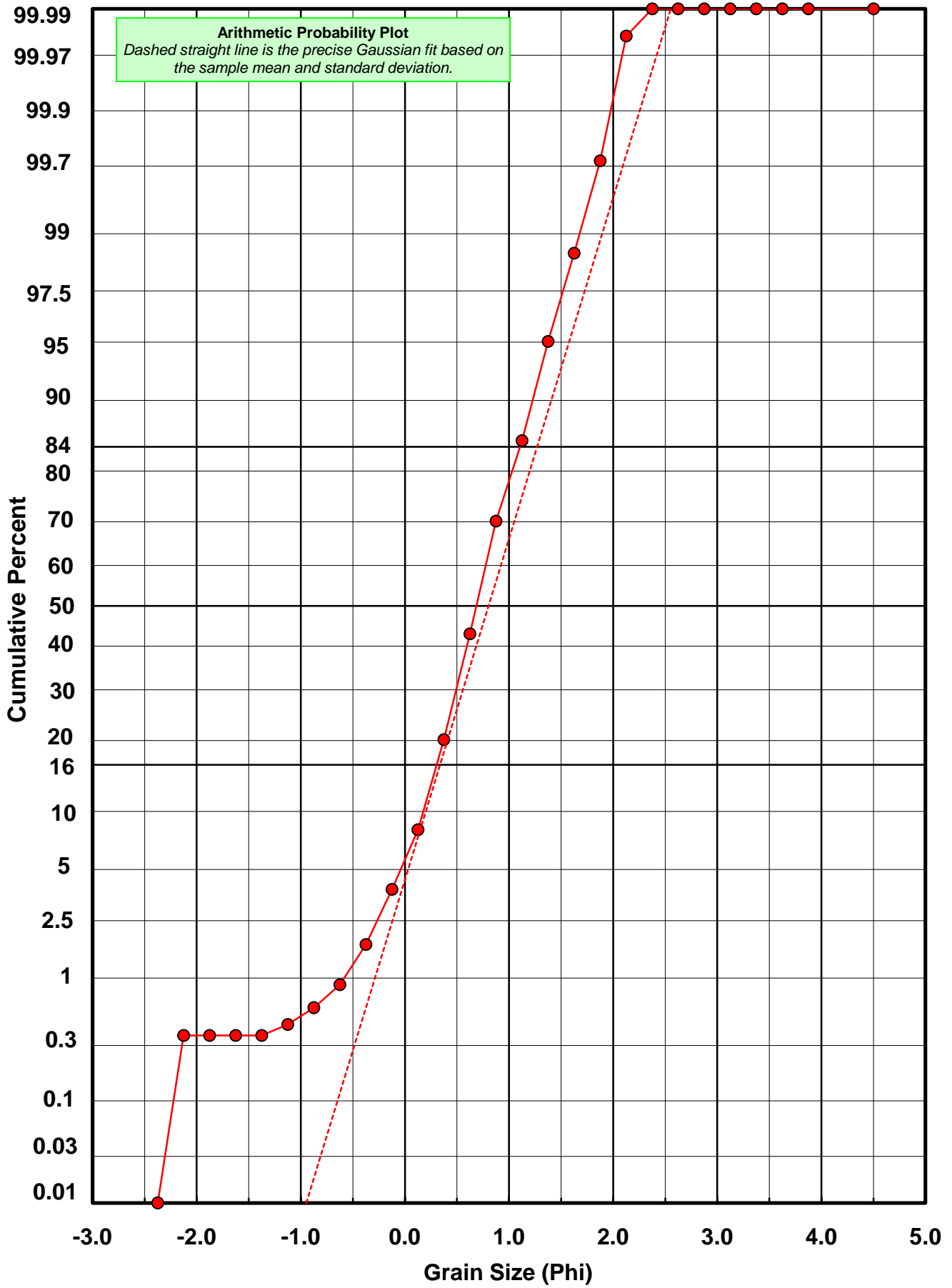
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille 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-01-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DD-01-BB

Total Digested Mass: 15.227 grams

% Silica: 23.9 %

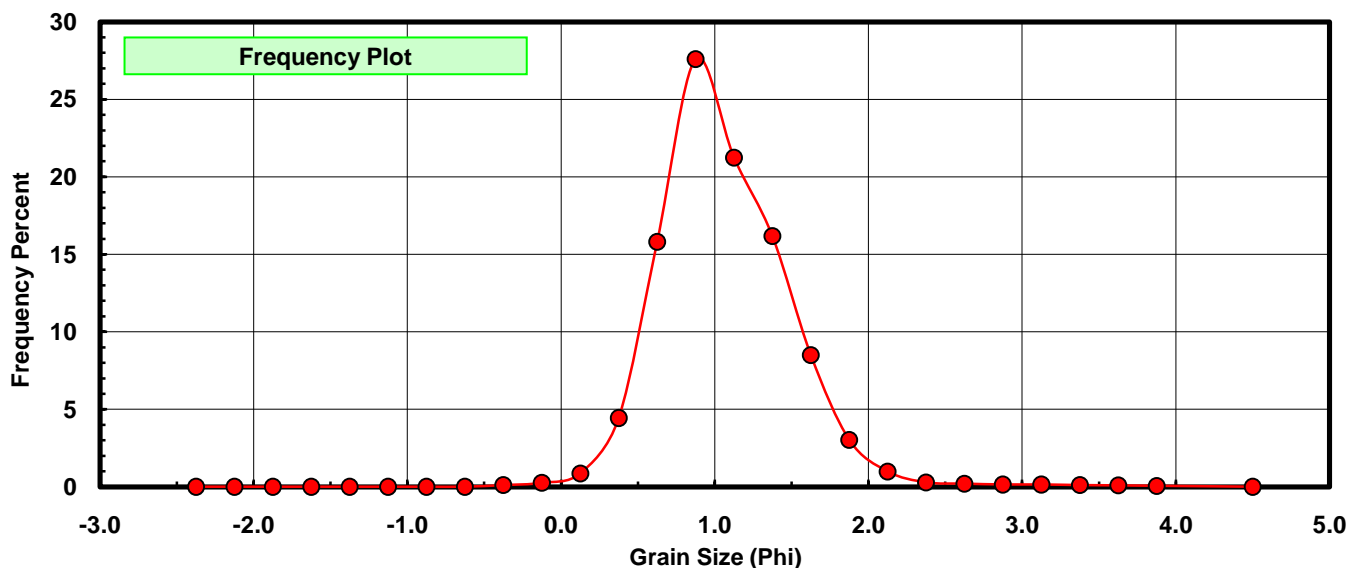
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.016	0.105	0.105
0.00	-0.125	0.038	0.250	0.355
0.25	0.125	0.132	0.867	1.222
0.50	0.375	0.676	4.439	5.661
0.75	0.625	2.406	15.801	21.462
1.00	0.875	4.202	27.596	49.058
1.25	1.125	3.235	21.245	70.303
1.50	1.375	2.462	16.169	86.471
1.75	1.625	1.294	8.498	94.969
2.00	1.875	0.461	3.028	97.997
2.25	2.125	0.150	0.985	98.982
2.50	2.375	0.043	0.282	99.264
2.75	2.625	0.030	0.197	99.461
3.00	2.875	0.022	0.144	99.606
3.25	3.125	0.022	0.144	99.750
3.50	3.375	0.016	0.105	99.856
3.75	3.625	0.013	0.085	99.941
4.00	3.875	0.009	0.059	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.0638	phi	(0.4784 mm)
Standard Dev:	0.4454	phi-units	(0.7344 mm)
Skewness:	0.9595	dimensionless	
Kurtosis:	6.3463	dimensionless	
5th Moment:	23.1573	dimensionless	
6th Moment:	130.4589	dimensionless	
RARD *	0.4186	dimensionless	
Median	0.8861	phi	(0.5411 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 Basille 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-01-BB

