

Onshore Grab Sample

Sample: MT-09-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/17/08
Splits? N/A

County: Martin
Latitude: 27° 10' 14.6"
Longitude: 80° 09' 14.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 53.284 grams
Total Fines in Sample 0.083 grams
Total Percent Fines 0.16 %

Dry Sieving Summary

Total Sample Weight 53.273 grams
Total Digested Weight 25.031 grams
Total Carbonate Weight 28.242 grams
Total Silica % 46.99 %
Total Carbonate % 53.01 %
Carbonate/Silica Ratio 1.128

General Comments:

Location Data Estimated

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-09-BB

Total Sample Mass: 53.273 grams

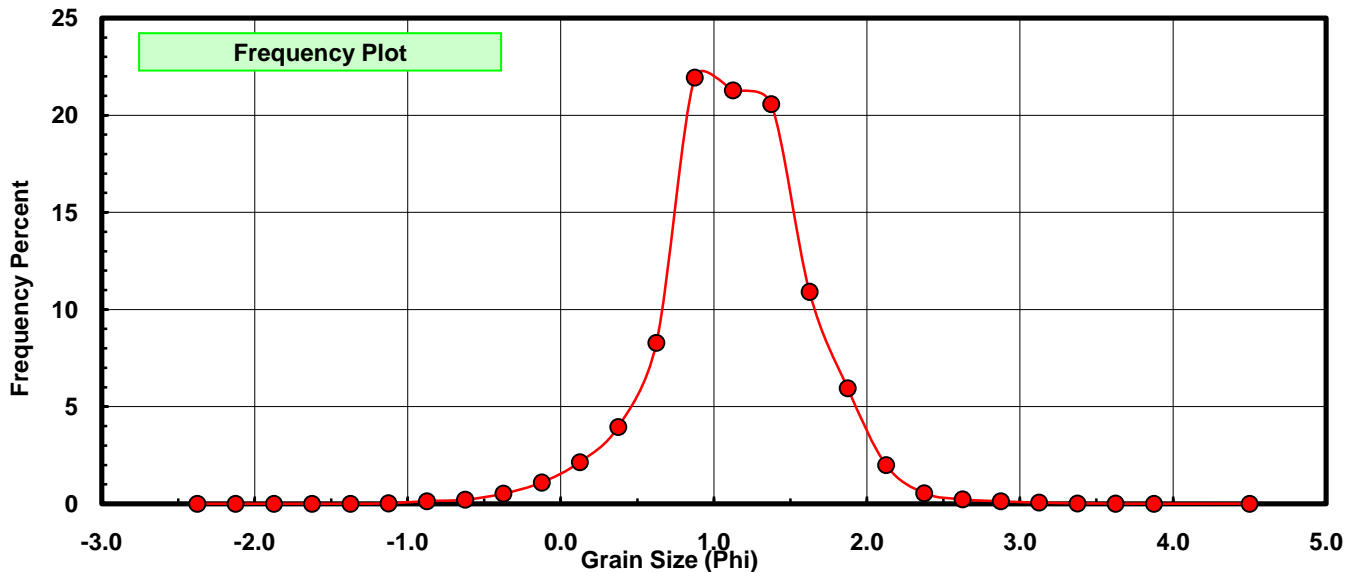
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.013	0.024	0.024
-0.75	-0.875	0.072	0.135	0.160
-0.50	-0.625	0.111	0.208	0.368
-0.25	-0.375	0.278	0.522	0.890
0.00	-0.125	0.583	1.094	1.984
0.25	0.125	1.144	2.147	4.132
0.50	0.375	2.108	3.957	8.089
0.75	0.625	4.412	8.282	16.370
1.00	0.875	11.690	21.944	38.314
1.25	1.125	11.338	21.283	59.597
1.50	1.375	10.956	20.566	80.163
1.75	1.625	5.812	10.910	91.072
2.00	1.875	3.163	5.937	97.010
2.25	2.125	1.064	1.997	99.007
2.50	2.375	0.290	0.544	99.551
2.75	2.625	0.121	0.227	99.778
3.00	2.875	0.067	0.126	99.904
3.25	3.125	0.031	0.058	99.962
3.50	3.375	0.012	0.023	99.985
3.75	3.625	0.004	0.008	99.992
4.00	3.875	0.001	0.002	99.994
5.00	4.50	0.003	0.006	100.000

Statistical Results			
Mean:	1.1342	phi	(0.4556 mm)
Standard Dev:	0.4900	phi-units	(0.712 mm)
Skewness:	-0.2105	dimensionless	
Kurtosis:	4.4314	dimensionless	
5th Moment:	-1.8372	dimensionless	
6th Moment:	44.3655	dimensionless	
RARD *	0.4321	dimensionless	
Median	1.0123	phi	(0.4958 mm)

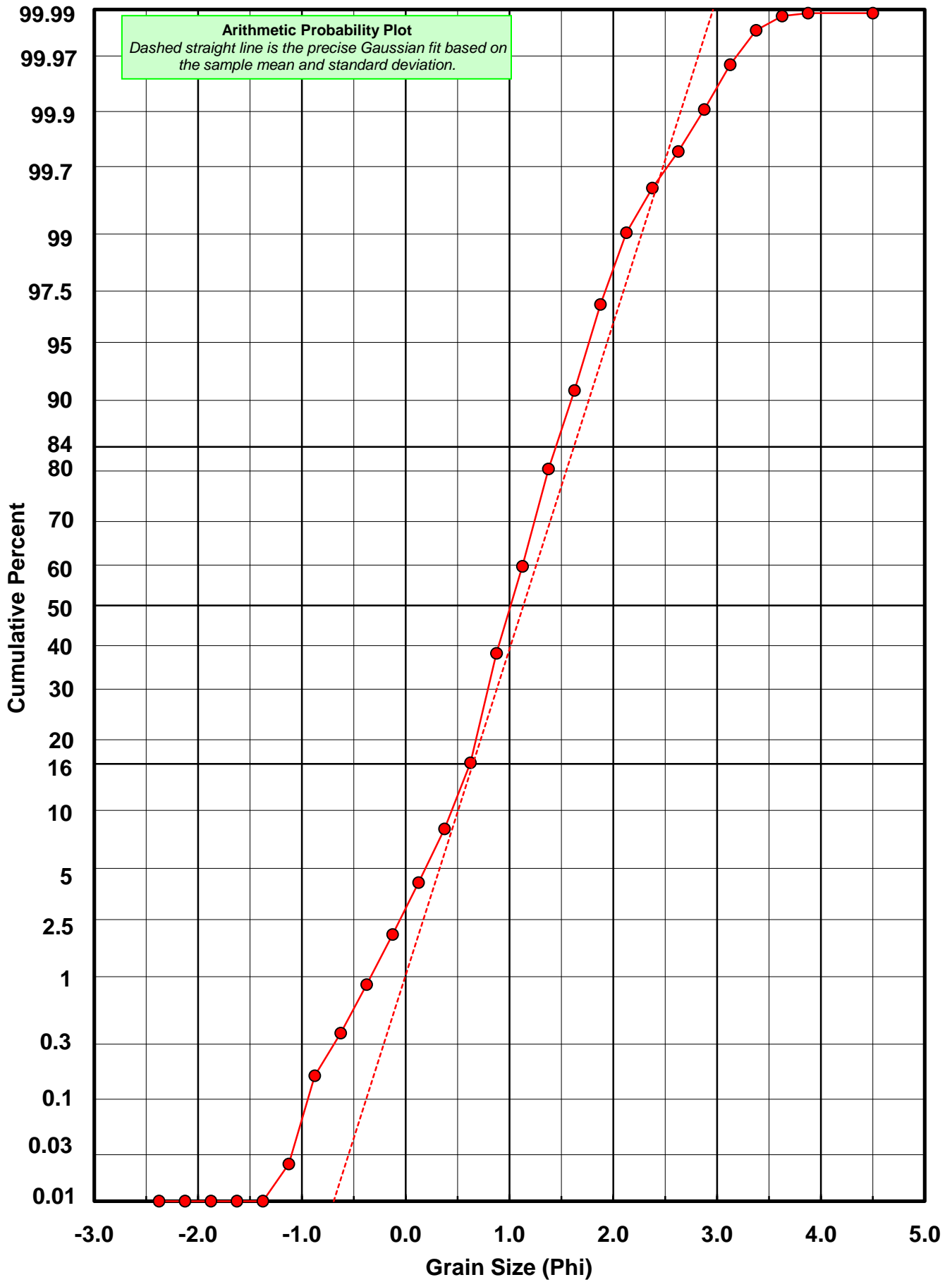
* RARD = reciprocal absolute relative dispersion (see below)

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)



MT-09-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: MT-09-BB

Total Carbonate Mass: 28.305 grams

% Carbonate: 53.0 %

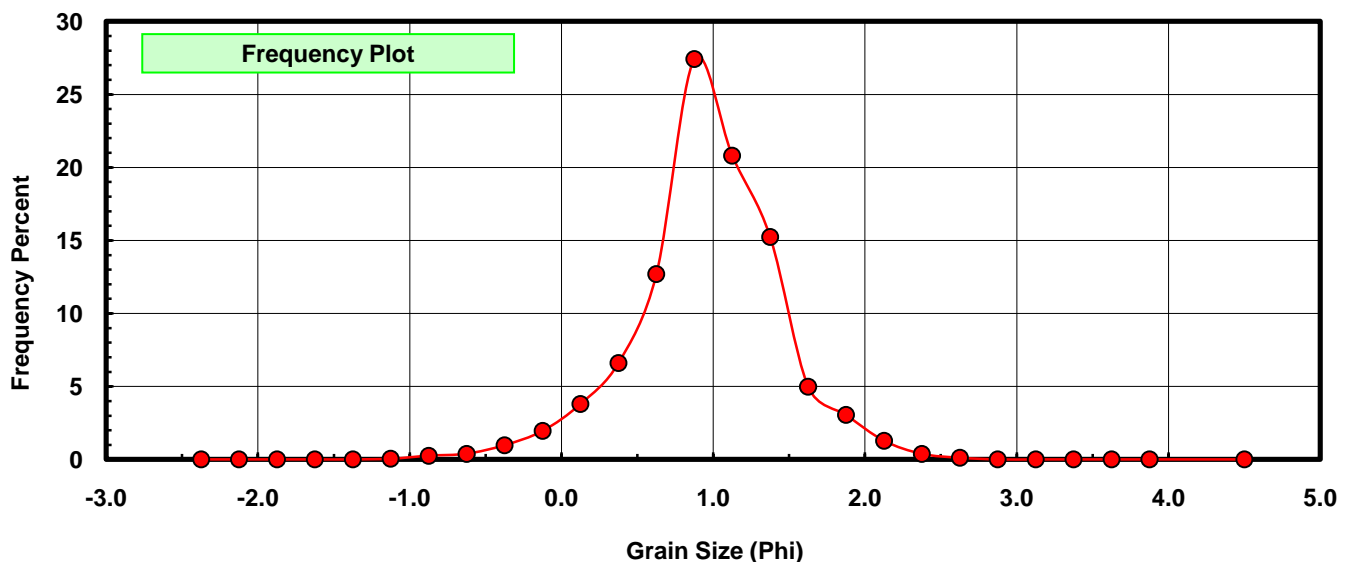
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.013	0.046	0.046
-0.75	-0.875	0.072	0.254	0.300
-0.50	-0.625	0.111	0.392	0.692
-0.25	-0.375	0.278	0.982	1.675
0.00	-0.125	0.553	1.954	3.628
0.25	0.125	1.076	3.801	7.430
0.50	0.375	1.870	6.607	14.036
0.75	0.625	3.593	12.694	26.730
1.00	0.875	7.760	27.416	54.146
1.25	1.125	5.891	20.813	74.958
1.50	1.375	4.312	15.234	90.193
1.75	1.625	1.410	4.981	95.174
2.00	1.875	0.864	3.052	98.226
2.25	2.125	0.362	1.279	99.505
2.50	2.375	0.108	0.382	99.887
2.75	2.625	0.032	0.113	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:	0.9584	phi	(0.5146 mm)
Standard Dev:	0.4924	phi-units	(0.7108 mm)
Skewness:	-0.3205	dimensionless	
Kurtosis:	4.0827	dimensionless	
5th Moment:	-3.8841	dimensionless	
6th Moment:	29.7434	dimensionless	
RARD *	0.5137	dimensionless	
Median	0.8372	phi	(0.5597 mm)

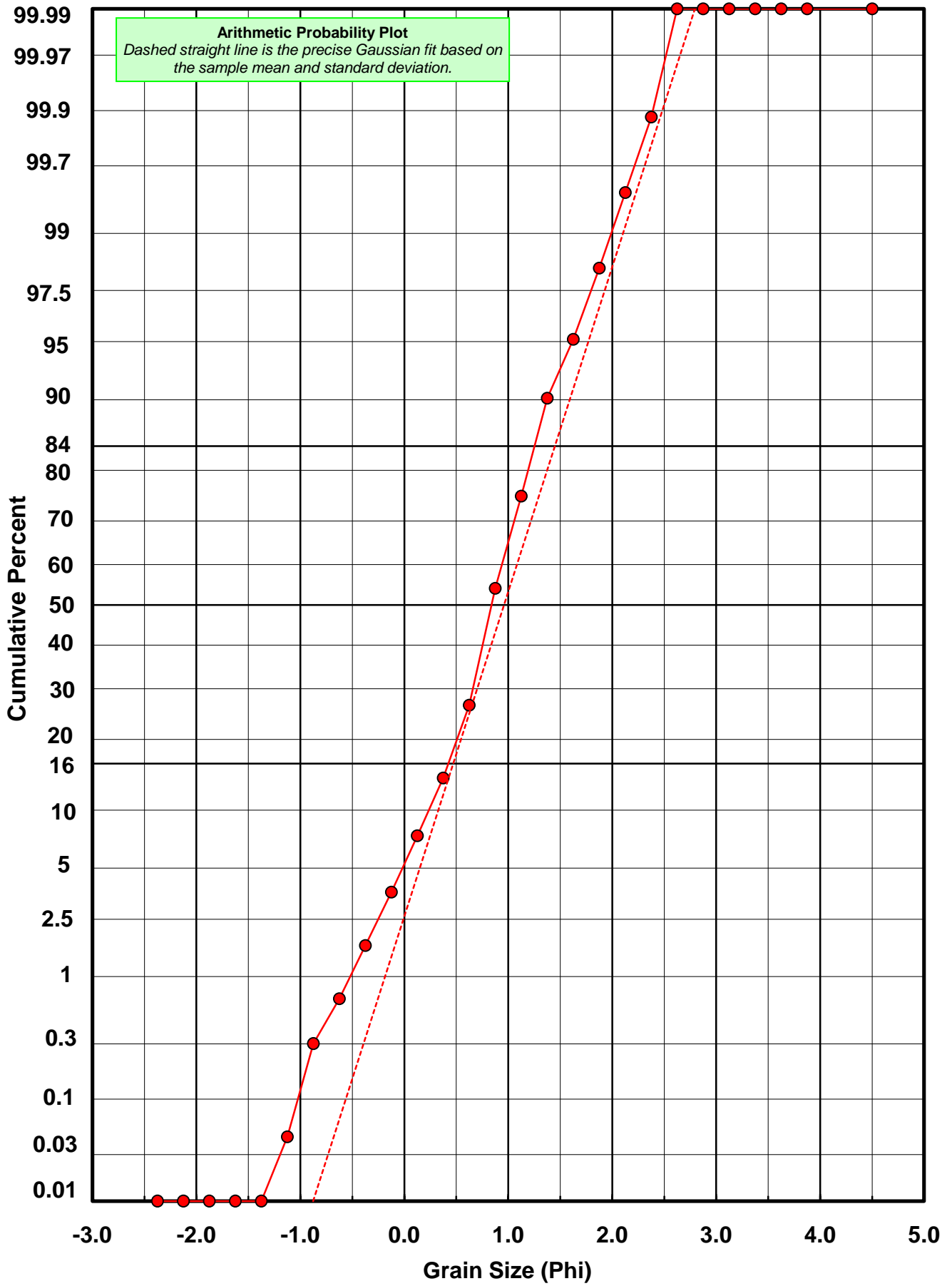
* RARD = reciprocal absolute relative dispersion (see below)

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 $mm = 2^{(-\phi)}$	

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MT-09-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-09-BB

Total Digested Mass: 25.031 grams

% Silica: 47.0 %

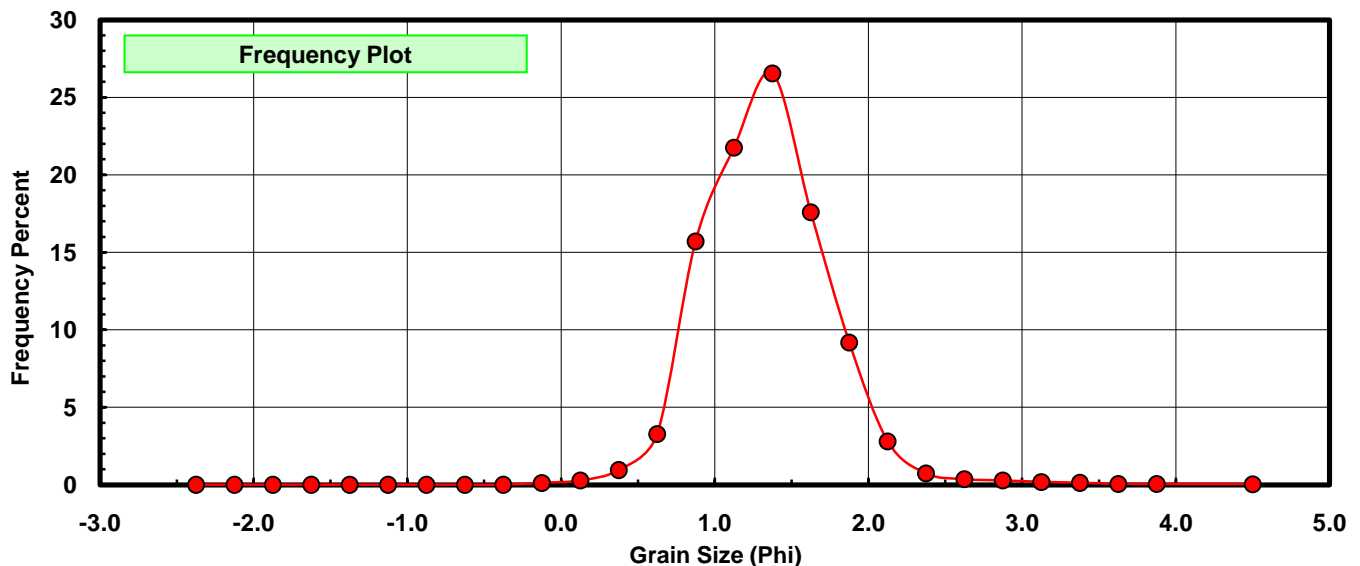
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.000	0.000	0.000
0.00	-0.125	0.030	0.120	0.120
0.25	0.125	0.068	0.272	0.392
0.50	0.375	0.238	0.951	1.342
0.75	0.625	0.819	3.272	4.614
1.00	0.875	3.930	15.701	20.315
1.25	1.125	5.447	21.761	42.076
1.50	1.375	6.644	26.543	68.619
1.75	1.625	4.402	17.586	86.205
2.00	1.875	2.299	9.185	95.390
2.25	2.125	0.702	2.805	98.194
2.50	2.375	0.182	0.727	98.921
2.75	2.625	0.089	0.356	99.277
3.00	2.875	0.068	0.272	99.549
3.25	3.125	0.046	0.184	99.732
3.50	3.375	0.031	0.124	99.856
3.75	3.625	0.015	0.060	99.916
4.00	3.875	0.011	0.044	99.960
5.00	4.500	0.010	0.040	100.000

Statistical Results			
Mean:	1.3390	phi	(0.3953 mm)
Standard Dev:	0.4274	phi-units	(0.7436 mm)
Skewness:	0.7794	dimensionless	
Kurtosis:	6.3379	dimensionless	
5th Moment:	22.7176	dimensionless	
6th Moment:	145.7802	dimensionless	
RARD *	0.3192	dimensionless	
Median	1.1996	phi	(0.4354 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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For Further Explanation, See Basille et al. 2002	
Millimeter data calculated by $mm = 2^{(-phi)}$	

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