

Onshore Grab Sample

Sample: MT-03-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/16/08
Splits? N/A

County: Martin
Latitude: 27° 14' 12.8"
Longitude: 80° 11' 13.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	68.499 grams
Total Fines in Sample	0.074 grams
Total Percent Fines	0.11 %

Dry Sieving Summary

Total Sample Weight	68.450 grams
Total Digested Weight	29.229 grams
Total Carbonate Weight	39.221 grams
Total Silica %	42.70 %
Total Carbonate %	57.30 %
Carbonate/Silica Ratio	1.342

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-03-BB

Total Sample Mass: 68.450 grams

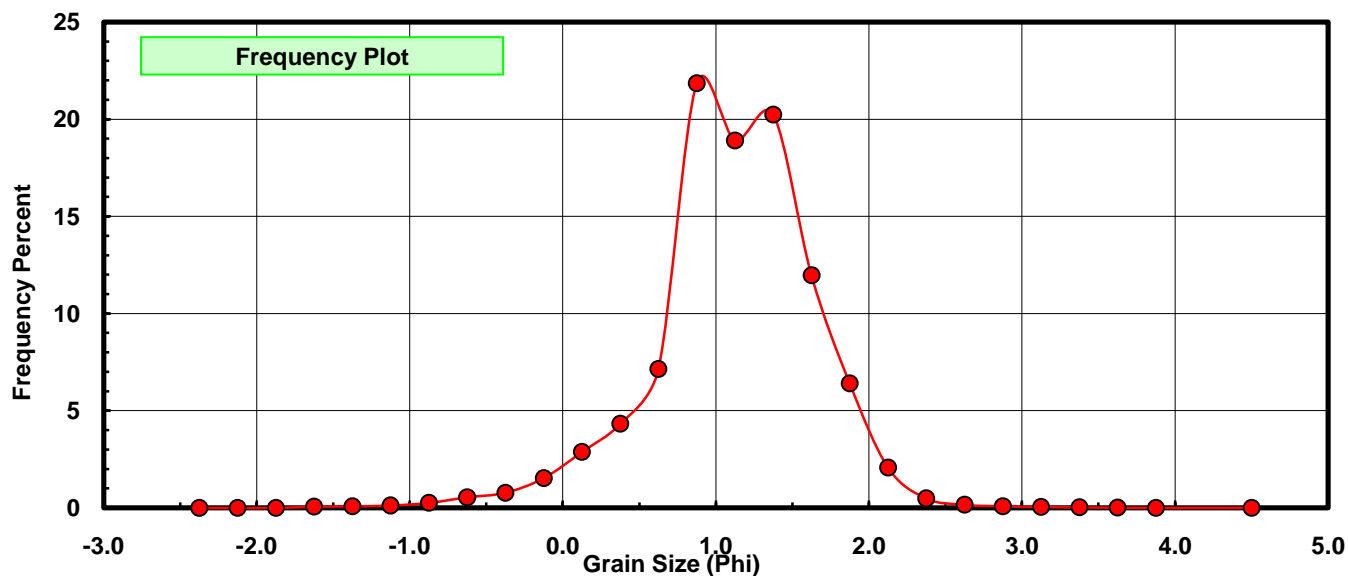
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.043	0.063	0.063
-1.25	-1.375	0.056	0.082	0.145
-1.00	-1.125	0.084	0.123	0.267
-0.75	-0.875	0.176	0.257	0.524
-0.50	-0.625	0.373	0.545	1.069
-0.25	-0.375	0.534	0.780	1.850
0.00	-0.125	1.047	1.530	3.379
0.25	0.125	1.968	2.875	6.254
0.50	0.375	2.962	4.327	10.581
0.75	0.625	4.894	7.150	17.731
1.00	0.875	14.962	21.858	39.589
1.25	1.125	12.941	18.906	58.495
1.50	1.375	13.856	20.243	78.738
1.75	1.625	8.190	11.965	90.703
2.00	1.875	4.381	6.400	97.103
2.25	2.125	1.420	2.075	99.178
2.50	2.375	0.332	0.485	99.663
2.75	2.625	0.109	0.159	99.822
3.00	2.875	0.056	0.082	99.904
3.25	3.125	0.033	0.048	99.952
3.50	3.375	0.018	0.026	99.978
3.75	3.625	0.010	0.015	99.993
4.00	3.875	0.001	0.001	99.994
5.00	4.50	0.004	0.006	100.000

Statistical Results			
Mean:	1.1126	phi	(0.4625 mm)
Standard Dev:	0.5396	phi-units	(0.688 mm)
Skewness:	-0.6311	dimensionless	
Kurtosis:	4.9859	dimensionless	
5th Moment:	-8.6441	dimensionless	
6th Moment:	57.3203	dimensionless	
RARD *	0.4850	dimensionless	
Median	1.0127	phi	(0.4956 mm)

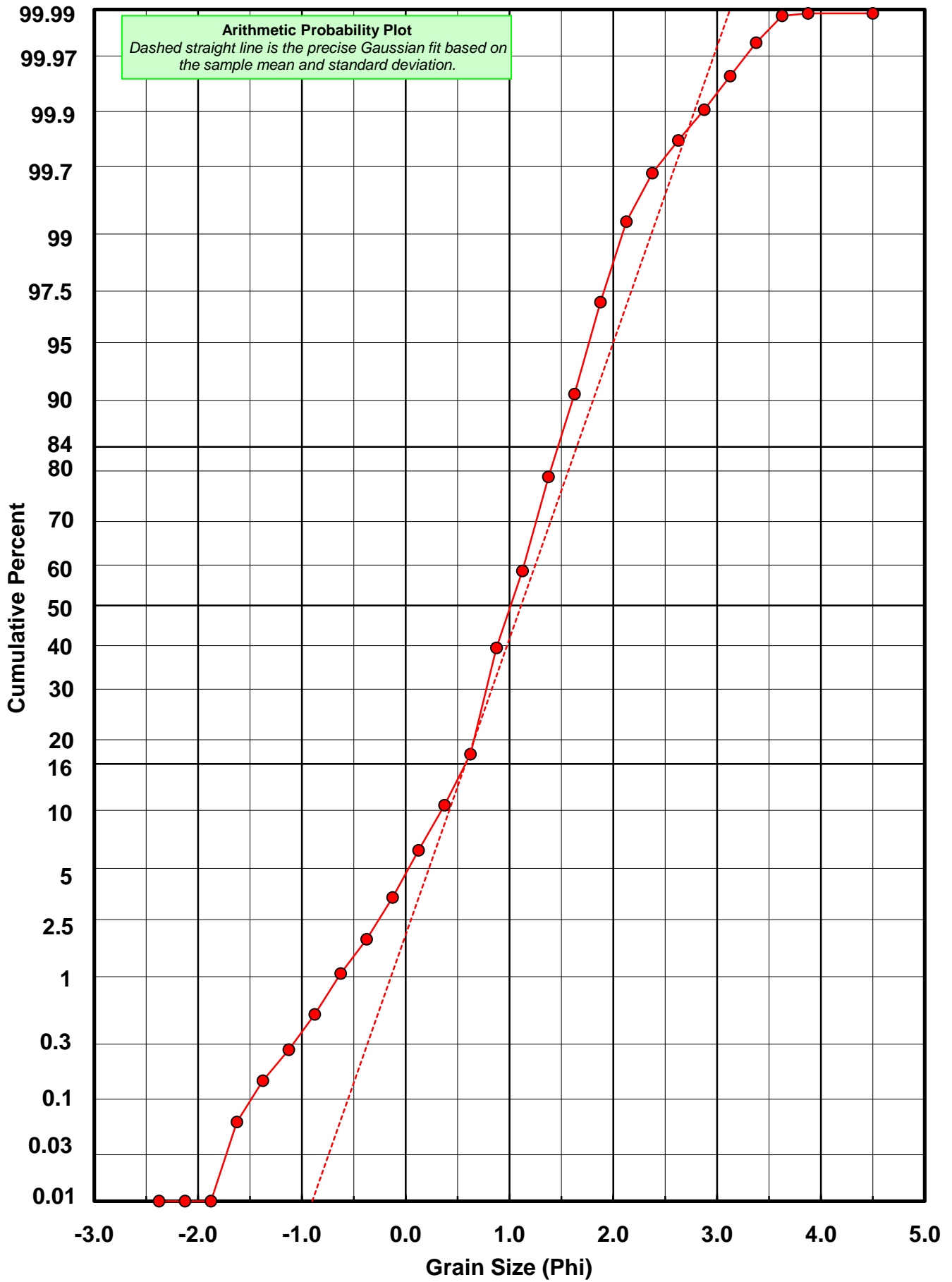
* RARD = reciprocal absolute relative dispersion (see below)

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-03-BB



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: MT-03-BB

Total Carbonate Mass: 39.278 grams

% Carbonate: 57.3 %

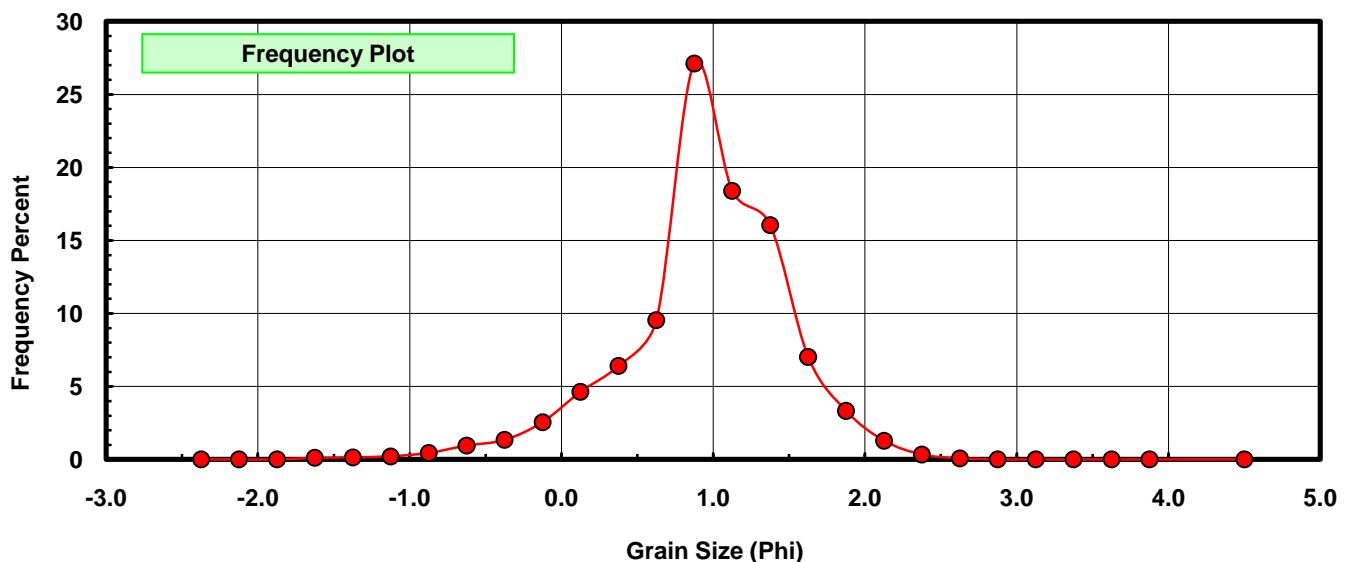
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.043	0.109	0.109
-1.25	-1.375	0.056	0.143	0.252
-1.00	-1.125	0.084	0.214	0.466
-0.75	-0.875	0.176	0.448	0.914
-0.50	-0.625	0.373	0.950	1.864
-0.25	-0.375	0.525	1.337	3.200
0.00	-0.125	1.005	2.559	5.759
0.25	0.125	1.821	4.636	10.395
0.50	0.375	2.516	6.406	16.801
0.75	0.625	3.748	9.542	26.343
1.00	0.875	10.652	27.120	53.462
1.25	1.125	7.228	18.402	71.865
1.50	1.375	6.308	16.060	87.925
1.75	1.625	2.762	7.032	94.956
2.00	1.875	1.308	3.330	98.287
2.25	2.125	0.506	1.288	99.575
2.50	2.375	0.132	0.336	99.911
2.75	2.625	0.033	0.084	99.995
3.00	2.875	0.000	0.000	99.995
3.25	3.125	0.000	0.000	99.995
3.50	3.375	0.000	0.000	99.995
3.75	3.625	0.000	0.000	99.995
4.00	3.875	0.000	0.000	99.995
5.00	4.500	0.002	0.005	100.000

Statistical Results			
Mean:	0.9449	phi	(0.5195 mm)
Standard Dev:	0.5574	phi-units	(0.6795 mm)
Skewness:	-0.7213	dimensionless	
Kurtosis:	4.6502	dimensionless	
5th Moment:	-8.8670	dimensionless	
6th Moment:	46.2199	dimensionless	
RARD *	0.5899	dimensionless	
Median	0.8431	phi	(0.5575 mm)

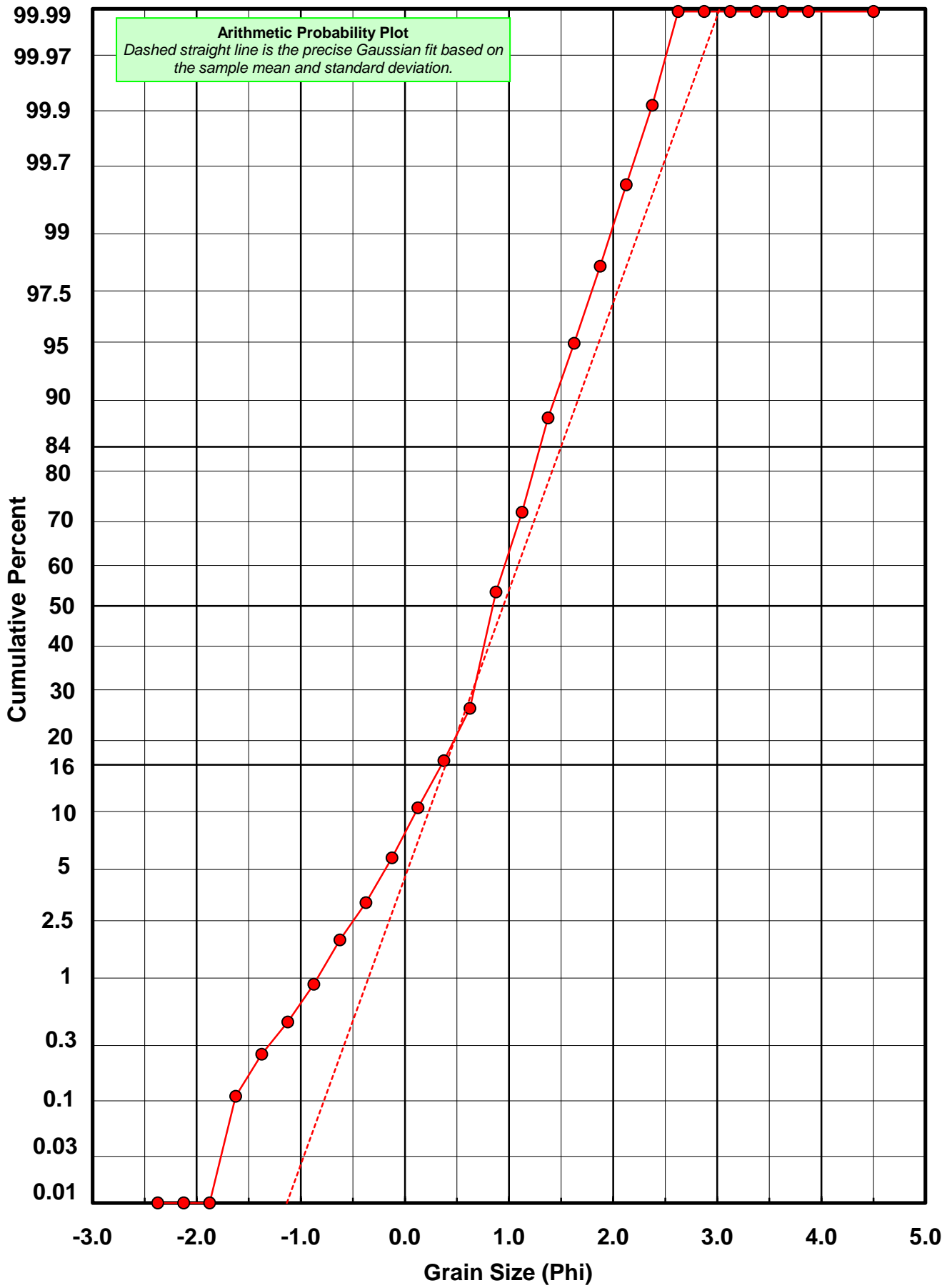
* RARD = reciprocal absolute relative dispersion (see below)

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	
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Millimeter data calculated by $mm = 2^{(-\phi)}$	

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MT-03-BB



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-03-BB

Total Digested Mass: 29.229 grams

% Silica: 42.7 %

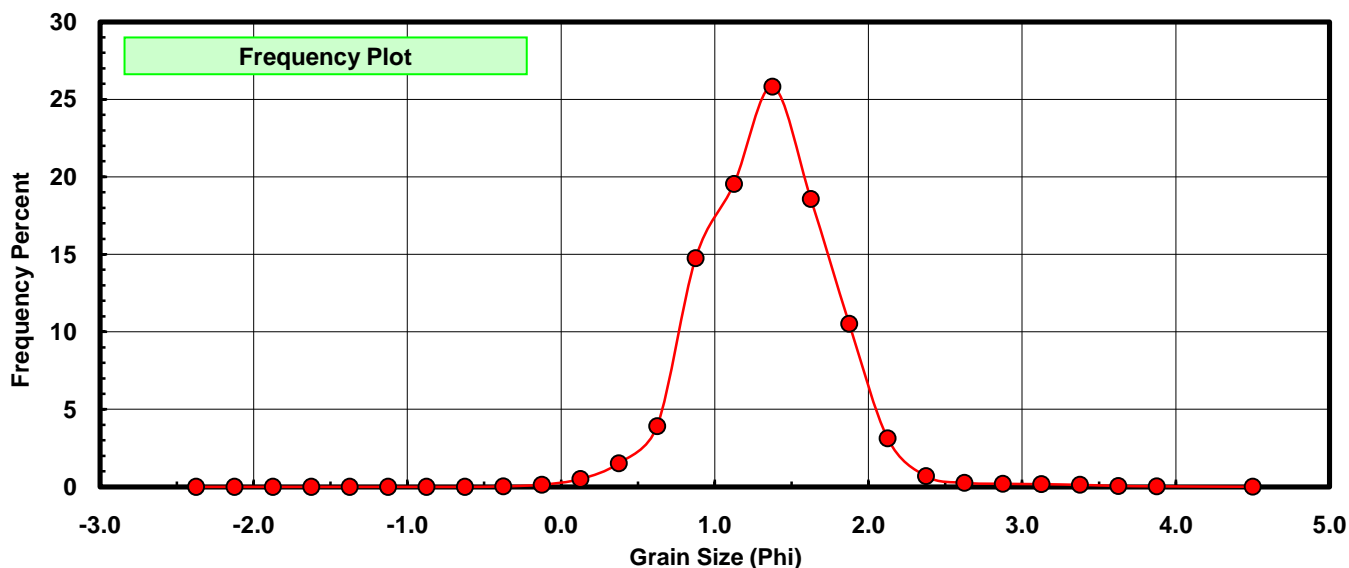
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.009	0.031	0.031
0.00	-0.125	0.042	0.144	0.174
0.25	0.125	0.147	0.503	0.677
0.50	0.375	0.446	1.526	2.203
0.75	0.625	1.146	3.921	6.124
1.00	0.875	4.310	14.746	20.870
1.25	1.125	5.713	19.546	40.415
1.50	1.375	7.548	25.824	66.239
1.75	1.625	5.428	18.571	84.810
2.00	1.875	3.073	10.514	95.323
2.25	2.125	0.914	3.127	98.450
2.50	2.375	0.200	0.684	99.134
2.75	2.625	0.076	0.260	99.394
3.00	2.875	0.058	0.198	99.593
3.25	3.125	0.051	0.174	99.767
3.50	3.375	0.038	0.130	99.897
3.75	3.625	0.018	0.062	99.959
4.00	3.875	0.010	0.034	99.993
5.00	4.500	0.002	0.007	100.000

Statistical Results			
Mean:	1.3424	phi	(0.3944 mm)
Standard Dev:	0.4373	phi-units	(0.7385 mm)
Skewness:	0.3783	dimensionless	
Kurtosis:	4.9880	dimensionless	
5th Moment:	10.8836	dimensionless	
6th Moment:	74.9534	dimensionless	
RARD *	0.3258	dimensionless	
Median	1.2178	phi	(0.4299 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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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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