

Onshore Grab Sample

Sample: MT-19
Sample Taken By: D. Phelps
Sample Collected On: 12/18/08
Splits? N/A

County: Martin
Latitude: 27° 03' 14.9"
Longitude: 80° 06' 32.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 56.728 grams
Total Fines in Sample 0.221 grams
Total Percent Fines 0.39 %

Dry Sieving Summary

Total Sample Weight 56.444 grams
Total Digested Weight 10.981 grams
Total Carbonate Weight 45.463 grams
Total Silica % 19.45 %
Total Carbonate % 80.55 %
Carbonate/Silica Ratio 4.140

General Comments:

Pre-Digestion -2.25 phi: Large Shell ~5/8"

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-19

Total Sample Mass: 56.444 grams

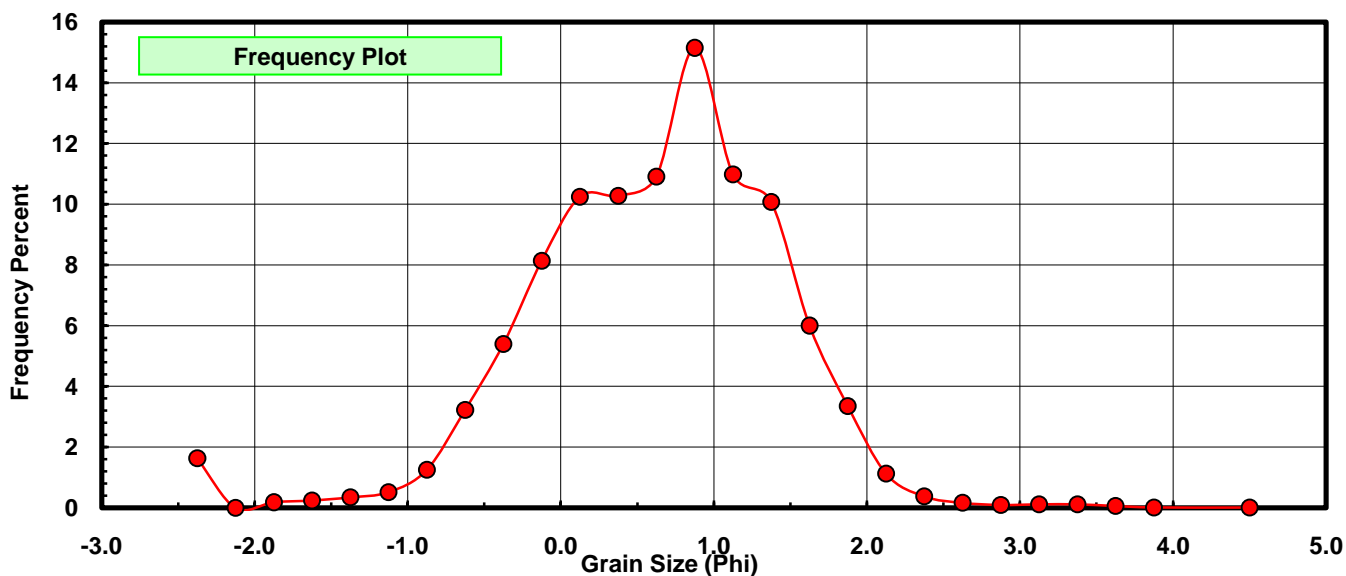
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.920	1.630	1.630
-2.00	-2.125	0.000	0.000	1.630
-1.75	-1.875	0.104	0.184	1.814
-1.50	-1.625	0.137	0.243	2.057
-1.25	-1.375	0.195	0.345	2.402
-1.00	-1.125	0.292	0.517	2.920
-0.75	-0.875	0.707	1.253	4.172
-0.50	-0.625	1.819	3.223	7.395
-0.25	-0.375	3.044	5.393	12.788
0.00	-0.125	4.590	8.132	20.920
0.25	0.125	5.784	10.247	31.167
0.50	0.375	5.803	10.281	41.448
0.75	0.625	6.158	10.910	52.358
1.00	0.875	8.552	15.151	67.509
1.25	1.125	6.199	10.983	78.492
1.50	1.375	5.686	10.074	88.566
1.75	1.625	3.388	6.002	94.568
2.00	1.875	1.893	3.354	97.922
2.25	2.125	0.635	1.125	99.047
2.50	2.375	0.212	0.376	99.422
2.75	2.625	0.093	0.165	99.587
3.00	2.875	0.054	0.096	99.683
3.25	3.125	0.065	0.115	99.798
3.50	3.375	0.066	0.117	99.915
3.75	3.625	0.034	0.060	99.975
4.00	3.875	0.008	0.014	99.989
5.00	4.50	0.006	0.011	100.000

Statistical Results			
Mean:	0.6071	phi	(0.6565 mm)
Standard Dev:	0.8375	phi-units	(0.5596 mm)
Skewness:	-0.6705	dimensionless	
Kurtosis:	4.7241	dimensionless	
5th Moment:	-8.6715	dimensionless	
6th Moment:	45.4190	dimensionless	
RARD *	1.3794	dimensionless	
Median	0.5710	phi	(0.6732 mm)

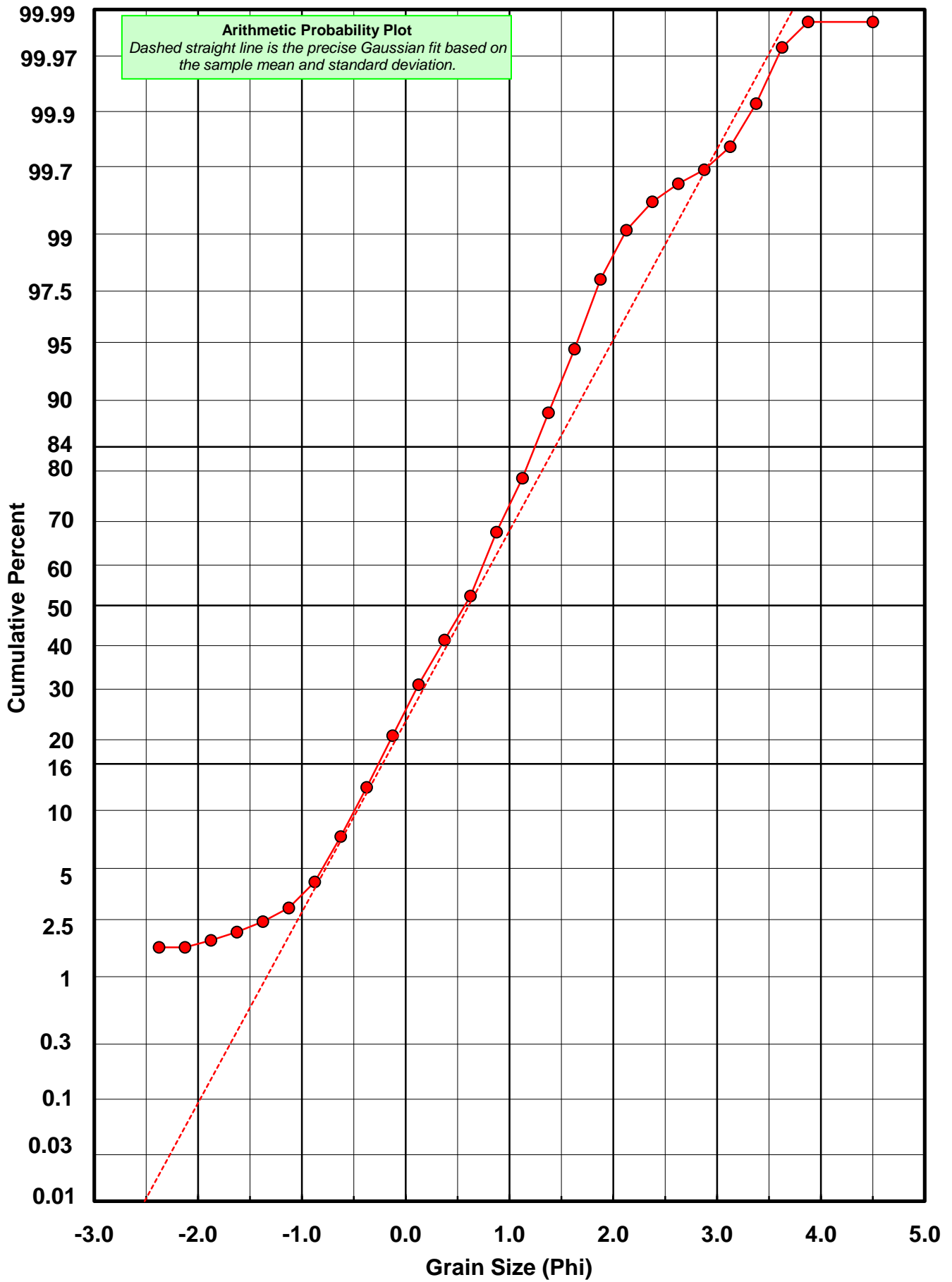
* RARD = reciprocal absolute relative dispersion (see below)

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-19



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: MT-19

Total Carbonate Mass: 45.697 grams

% Carbonate: 80.5 %

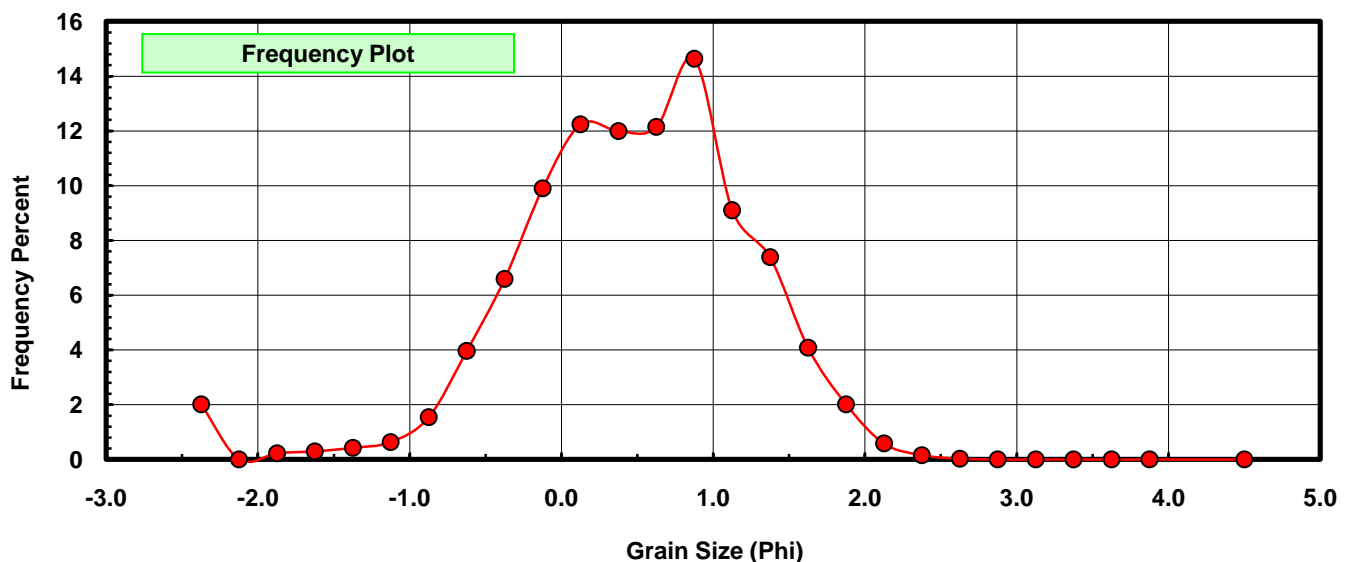
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.920	2.013	2.013
-2.00	-2.125	0.000	0.000	2.013
-1.75	-1.875	0.104	0.228	2.241
-1.50	-1.625	0.137	0.300	2.541
-1.25	-1.375	0.195	0.427	2.967
-1.00	-1.125	0.292	0.639	3.606
-0.75	-0.875	0.707	1.547	5.154
-0.50	-0.625	1.811	3.963	9.117
-0.25	-0.375	3.012	6.591	15.708
0.00	-0.125	4.525	9.902	25.610
0.25	0.125	5.594	12.242	37.852
0.50	0.375	5.483	11.999	49.850
0.75	0.625	5.551	12.147	61.998
1.00	0.875	6.689	14.638	76.635
1.25	1.125	4.160	9.103	85.739
1.50	1.375	3.376	7.388	93.126
1.75	1.625	1.864	4.079	97.206
2.00	1.875	0.923	2.020	99.225
2.25	2.125	0.267	0.584	99.810
2.50	2.375	0.073	0.160	99.969
2.75	2.625	0.014	0.031	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:	0.4441	phi	(0.7351 mm)
Standard Dev:	0.8064	phi-units	(0.5718 mm)
Skewness:	-0.8368	dimensionless	
Kurtosis:	4.6853	dimensionless	
5th Moment:	-11.1719	dimensionless	
6th Moment:	43.4980	dimensionless	
RARD *	1.8160	dimensionless	
Median	0.3781	phi	(0.7695 mm)

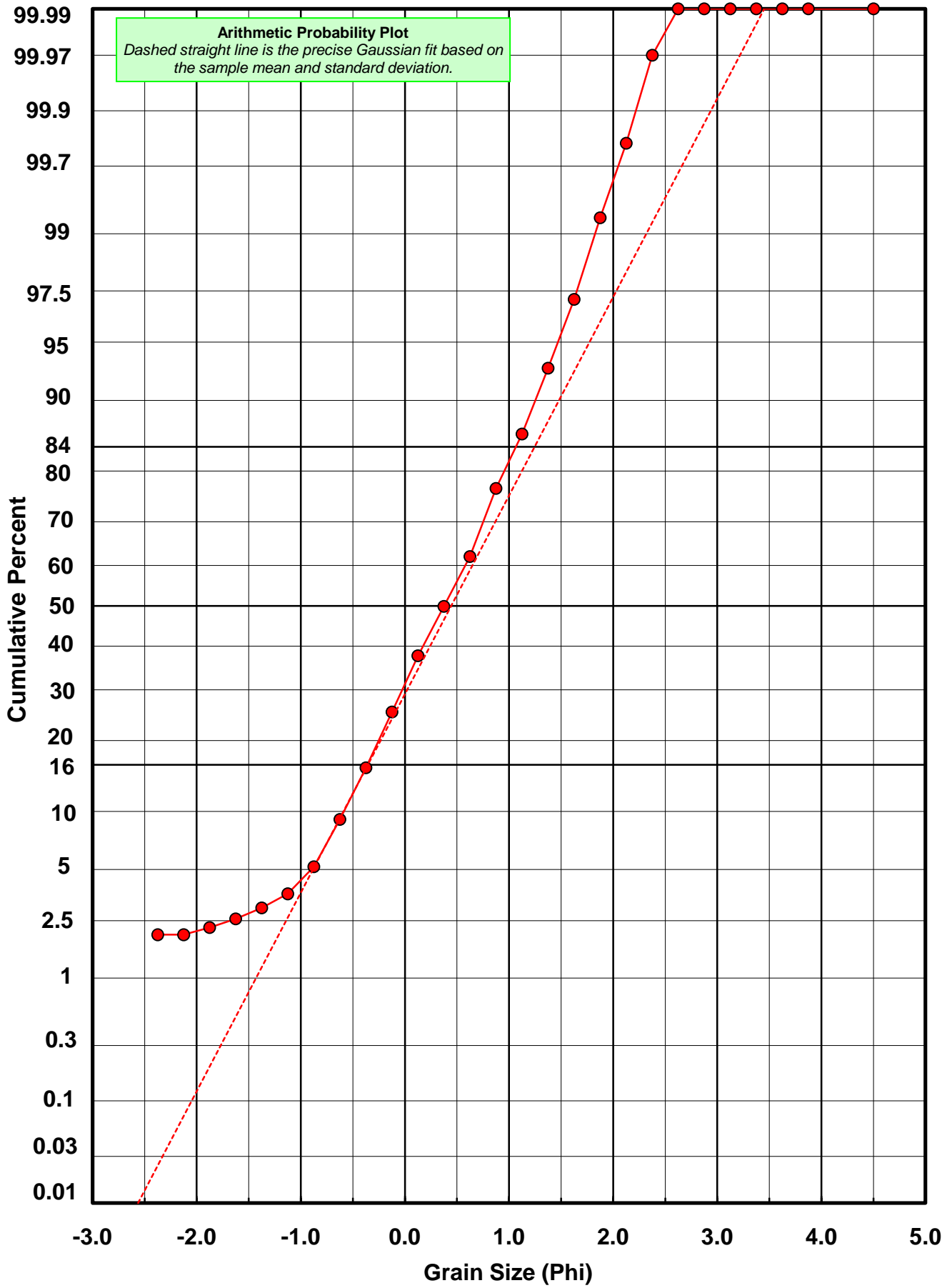
* RARD = reciprocal absolute relative dispersion (see below)

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Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
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Millimeter data calculated by $mm = 2^{(-\phi)}$	

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Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-19

Total Digested Mass: 10.981 grams

% Silica: 19.5 %

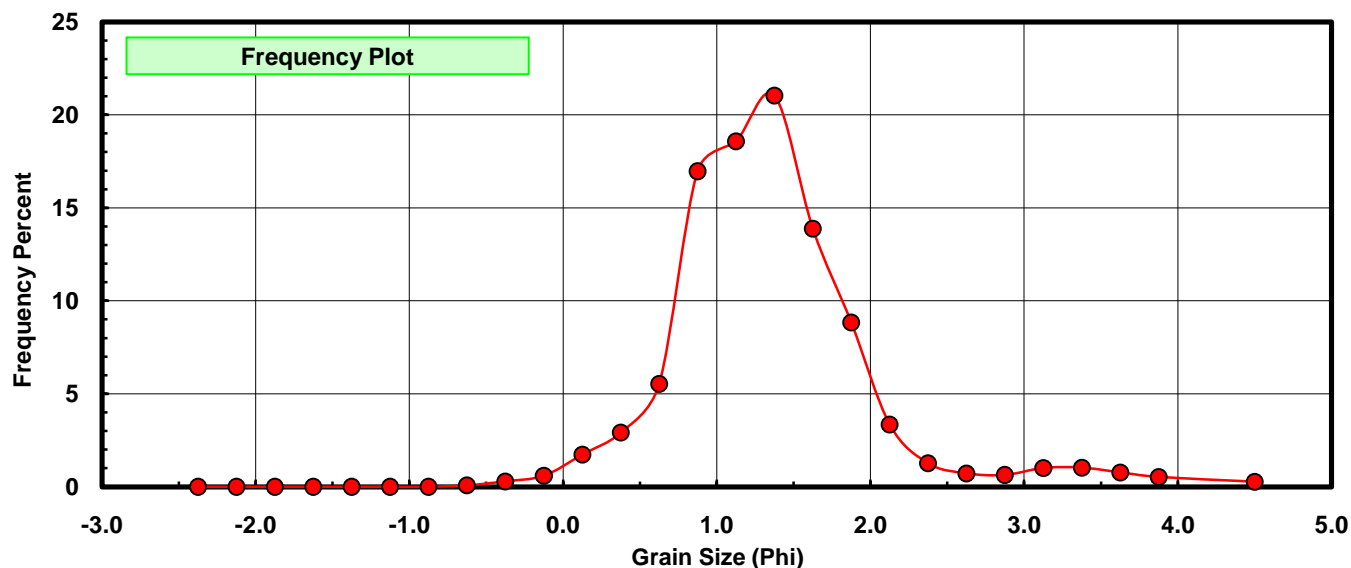
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.008	0.073	0.073
-0.25	-0.375	0.032	0.291	0.364
0.00	-0.125	0.065	0.592	0.956
0.25	0.125	0.190	1.730	2.686
0.50	0.375	0.320	2.914	5.601
0.75	0.625	0.607	5.528	11.128
1.00	0.875	1.863	16.966	28.094
1.25	1.125	2.039	18.568	46.662
1.50	1.375	2.310	21.036	67.699
1.75	1.625	1.524	13.879	81.577
2.00	1.875	0.970	8.833	90.411
2.25	2.125	0.368	3.351	93.762
2.50	2.375	0.139	1.266	95.028
2.75	2.625	0.079	0.719	95.747
3.00	2.875	0.070	0.637	96.385
3.25	3.125	0.111	1.011	97.396
3.50	3.375	0.113	1.029	98.425
3.75	3.625	0.085	0.774	99.199
4.00	3.875	0.058	0.528	99.727
5.00	4.500	0.030	0.273	100.000

Statistical Results			
Mean:	1.3487	phi	(0.3926 mm)
Standard Dev:	0.6835	phi-units	(0.6227 mm)
Skewness:	1.1986	dimensionless	
Kurtosis:	6.0893	dimensionless	
5th Moment:	17.0034	dimensionless	
6th Moment:	70.8366	dimensionless	
RARD *	0.5068	dimensionless	
Median	1.1647	phi	(0.4461 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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