Onshore Grab Sample

Sample: MT-04-BB
Sample Taken By: D. Phelps
Sample Collected On: 12/17/08
Splits? N/A

County: Martin
Latitude: 27° 13' 37.7"
Longitude: 80° 10' 52.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	51.126	grams
Total Fines in Sample	0.052	grams
Total Percent Fines	0.10	%

Dry Sieving Summary

Total Sample Weight	51.097	grams
Total Digested Weight	0.000	grams
Total Carbonate Weight	51.097	grams
Total Silica %	0.00	%
Total Carbonate %	100.00	%
Carbonate/Silica Ratio	#DIV/0!	

General Comments:

Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MT-04-BB

Total Sample Mass: 51.097 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	1.001	1.959	1.959
-2.00	-2.125	0.273	0.534	2.493
-1.75	-1.875	0.221	0.433	2.926
-1.50	-1.625	0.305	0.597	3.523
-1.25	-1.375	0.502	0.982	4.505
-1.00	-1.125	1.313	2.570	7.075
-0.75	-0.875	2.111	4.131	11.206
-0.50	-0.625	3.857	7.548	18.755
-0.25	-0.375	4.322	8.458	27.213
0.00	-0.125	4.466	8.740	35.953
0.25	0.125	5.063	9.909	45.862
0.50	0.375	5.102	9.985	55.847
0.75	0.625	5.650	11.057	66.904
1.00	0.875	7.128	13.950	80.854
1.25	1.125	4.271	8.359	89.213
1.50	1.375	3.061	5.991	95.203
1.75	1.625	1.369	2.679	97.882
2.00	1.875	0.705	1.380	99.262
2.25	2.125	0.235	0.460	99.722
2.50	2.375	0.063	0.123	99.845
2.75	2.625	0.025	0.049	99.894
3.00	2.875	0.020	0.039	99.933
3.25	3.125	0.016	0.031	99.965
3.50	3.375	0.010	0.020	99.984
3.75	3.625	0.006	0.012	99.996
4.00	3.875	0.001	0.002	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	0.2601	phi	(0.835 mm)
Standard Dev:	0.8857	phi-units	(0.5412 mm)
Skewness:	-0.5687	dimensionless	
Kurtosis:	3.4873	dimensionless	
5th Moment:	-5.1020	dimensionless	
6th Moment:	22.1571	dimensionless	
RARD *	3.4057	dimensionless	
Median	0.2286	phi	(0.8535 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

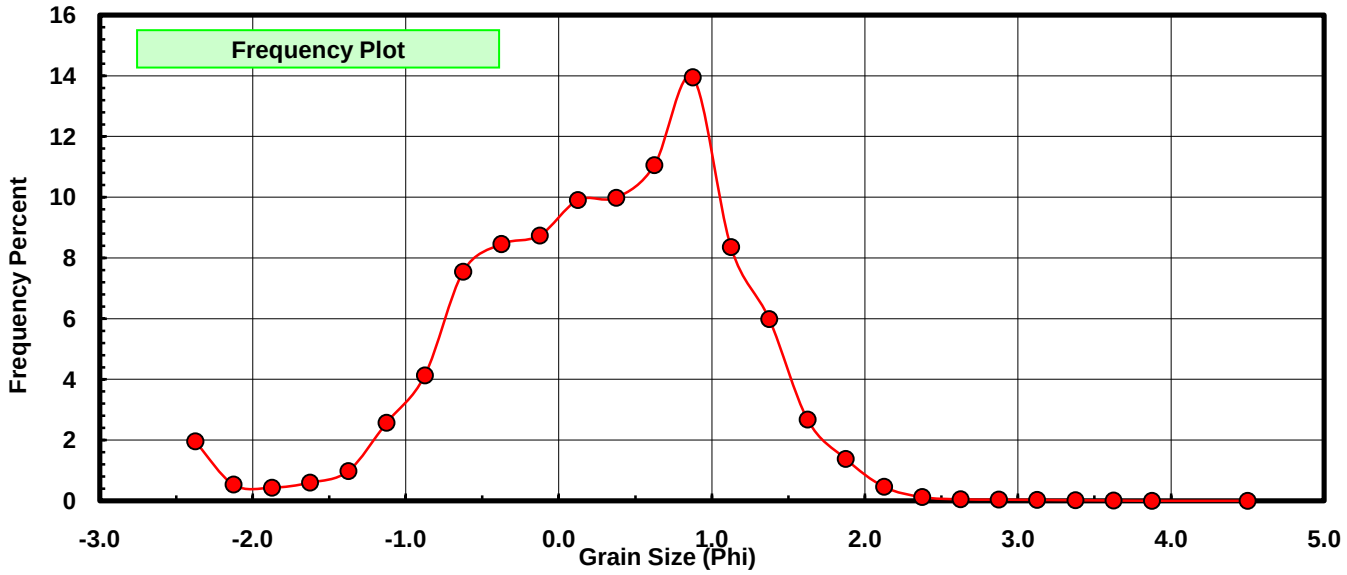
Statistical Explanation

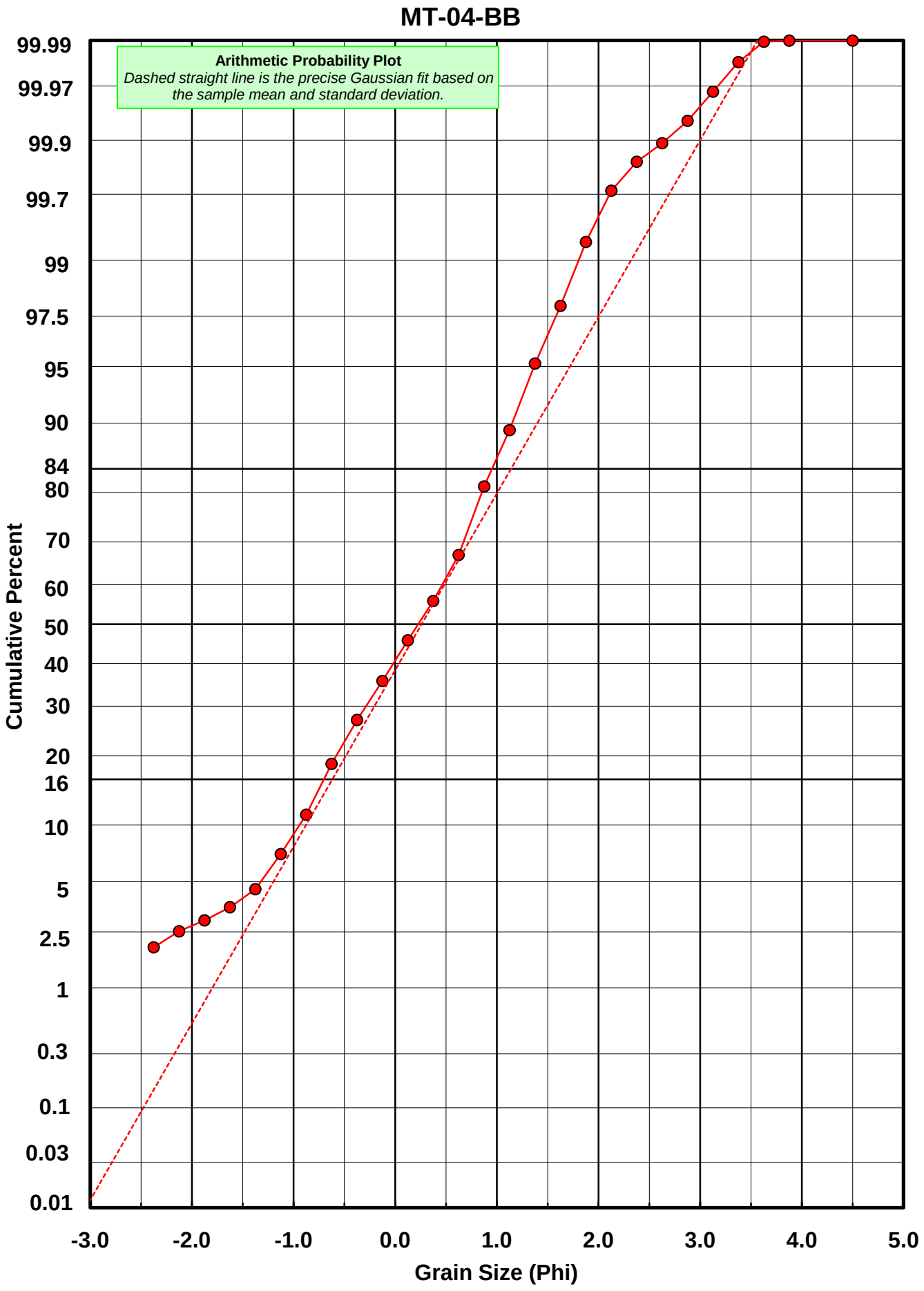
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




MT-04-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)