Onshore Grab Sample

Sample: BY-12-BB
Sample Taken By: D. Phelps
Sample Collected On: 2/14/11
Splits? N/A

County: Bay
Latitude: 30° 11' 25.7" N
Longitude: 85° 49' 56.9" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	55.973	grams
Total Fines in Sample	0.010	grams
Total Percent Fines	0.02	%

Dry Sieving Summary

Total Sample Weight	55.611	grams
Total Digested Weight	55.000	grams
Total Carbonate Weight	0.611	grams
Total Silica %	98.90	%
Total Carbonate %	1.10	%
Carbonate/Silica Ratio	0.011	

General Comments:

Not Enough Carbonate Material to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BY-12-BB

Total Sample Mass: 55.611 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	0.000	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	0.044	0.079	0.079
0.00	-0.125	0.068	0.122	0.201
0.25	0.125	0.229	0.412	0.613
0.50	0.375	0.667	1.199	1.813
0.75	0.625	1.114	2.003	3.816
1.00	0.875	3.513	6.317	10.133
1.25	1.125	5.145	9.252	19.385
1.50	1.375	10.901	19.602	38.987
1.75	1.625	11.917	21.429	60.416
2.00	1.875	11.693	21.026	81.443
2.25	2.125	6.106	10.980	92.422
2.50	2.375	2.967	5.335	97.758
2.75	2.625	0.883	1.588	99.345
3.00	2.875	0.266	0.478	99.824
3.25	3.125	0.050	0.090	99.914
3.50	3.375	0.023	0.041	99.955
3.75	3.625	0.010	0.018	99.973
4.00	3.875	0.012	0.022	99.995
5.00	4.50	0.003	0.005	100.000

Statistical Results			
Mean:	1.6098	phi	(0.3276 mm)
Standard Dev:	0.4788	phi-units	(0.7176 mm)
Skewness:	-0.2422	dimensionless	
Kurtosis:	3.7118	dimensionless	
5th Moment:	-1.9261	dimensionless	
6th Moment:	29.0446	dimensionless	
RARD *	0.2974	dimensionless	
Median	1.5035	phi	(0.3527 mm)

* RARD = reciprocal absolute relative dispersion (see below)

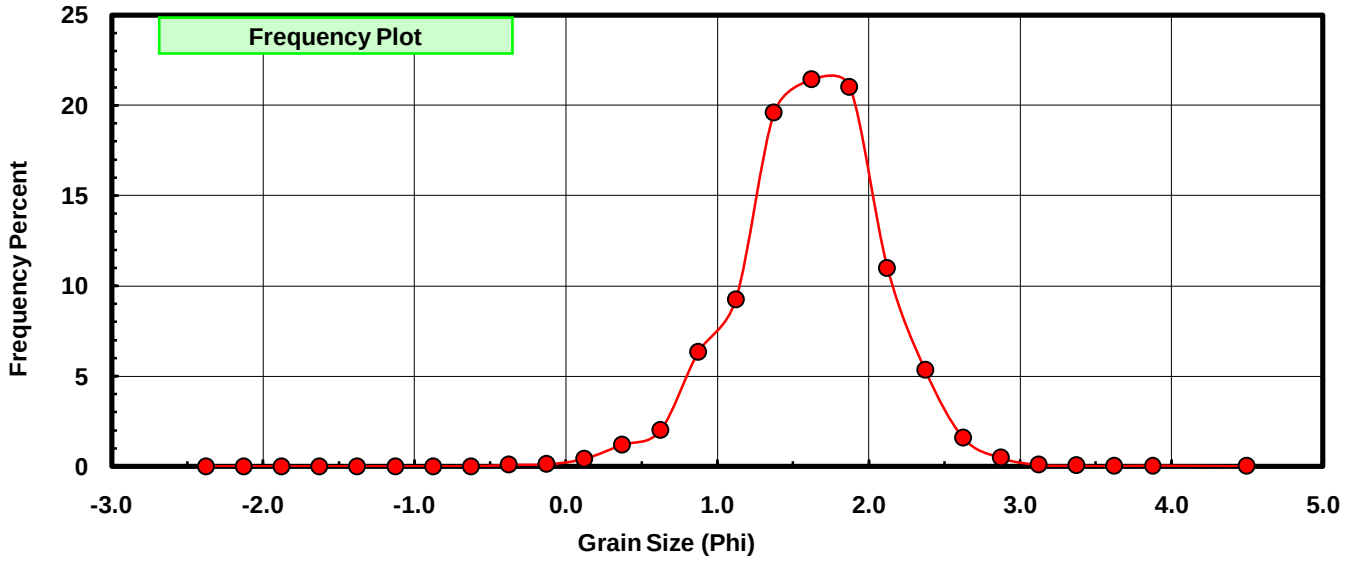
Statistical Explanation

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)



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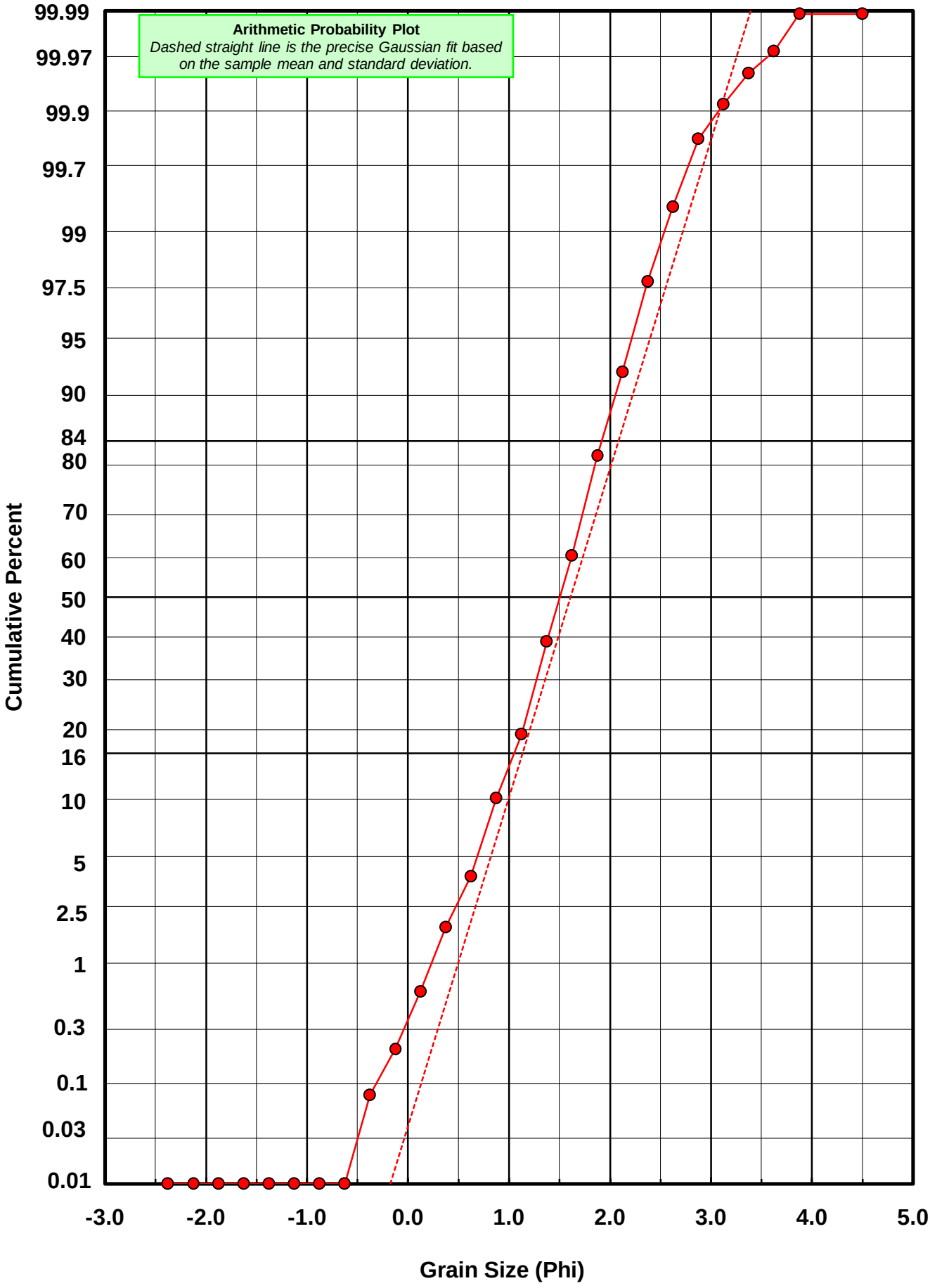
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)