Onshore Grab Sample

Sample: BY-32-BB
Sample Taken By: D. Phelps
Sample Collected On: 1/31/11
Splits? N/A

County: Bay
Latitude: 30° 2' 5.5" N
Longitude: 85° 34' 40.9" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	51.276	grams
Total Fines in Sample	0.011	grams
Total Percent Fines	0.02	%

Dry Sieving Summary

Total Sample Weight	51.368	grams
Total Digested Weight	51.476	grams
Total Carbonate Weight	-0.108	grams
Total Silica %	100.21	%
Total Carbonate %	-0.21	%
Carbonate/Silica Ratio	-0.002	

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-32-BB

Total Sample Mass: 51.368 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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.028	0.055	0.055
0.50	0.375	0.056	0.109	0.164
0.75	0.625	0.266	0.518	0.681
1.00	0.875	0.718	1.398	2.079
1.25	1.125	2.588	5.038	7.117
1.50	1.375	6.345	12.352	19.469
1.75	1.625	11.004	21.422	40.891
2.00	1.875	13.171	25.640	66.532
2.25	2.125	12.153	23.659	90.190
2.50	2.375	4.248	8.270	98.460
2.75	2.625	0.661	1.287	99.747
3.00	2.875	0.087	0.169	99.916
3.25	3.125	0.026	0.051	99.967
3.50	3.375	0.010	0.019	99.986
3.75	3.625	0.003	0.006	99.992
4.00	3.875	0.003	0.006	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.8119	phi	(0.2848 mm)
Standard Dev:	0.3792	phi-units	(0.7689 mm)
Skewness:	-0.3714	dimensionless	
Kurtosis:	3.4451	dimensionless	
5th Moment:	-3.1235	dimensionless	
6th Moment:	27.6613	dimensionless	
RARD *	0.2093	dimensionless	
Median	1.7138	phi	(0.3049 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

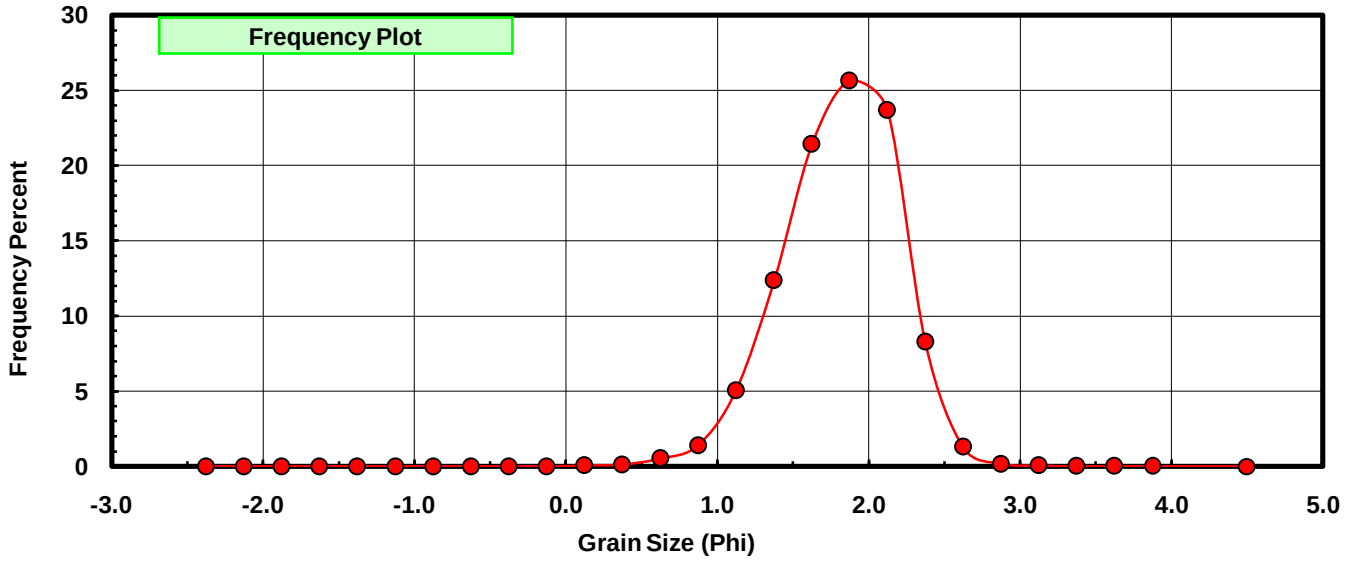
Statistical Explanation

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

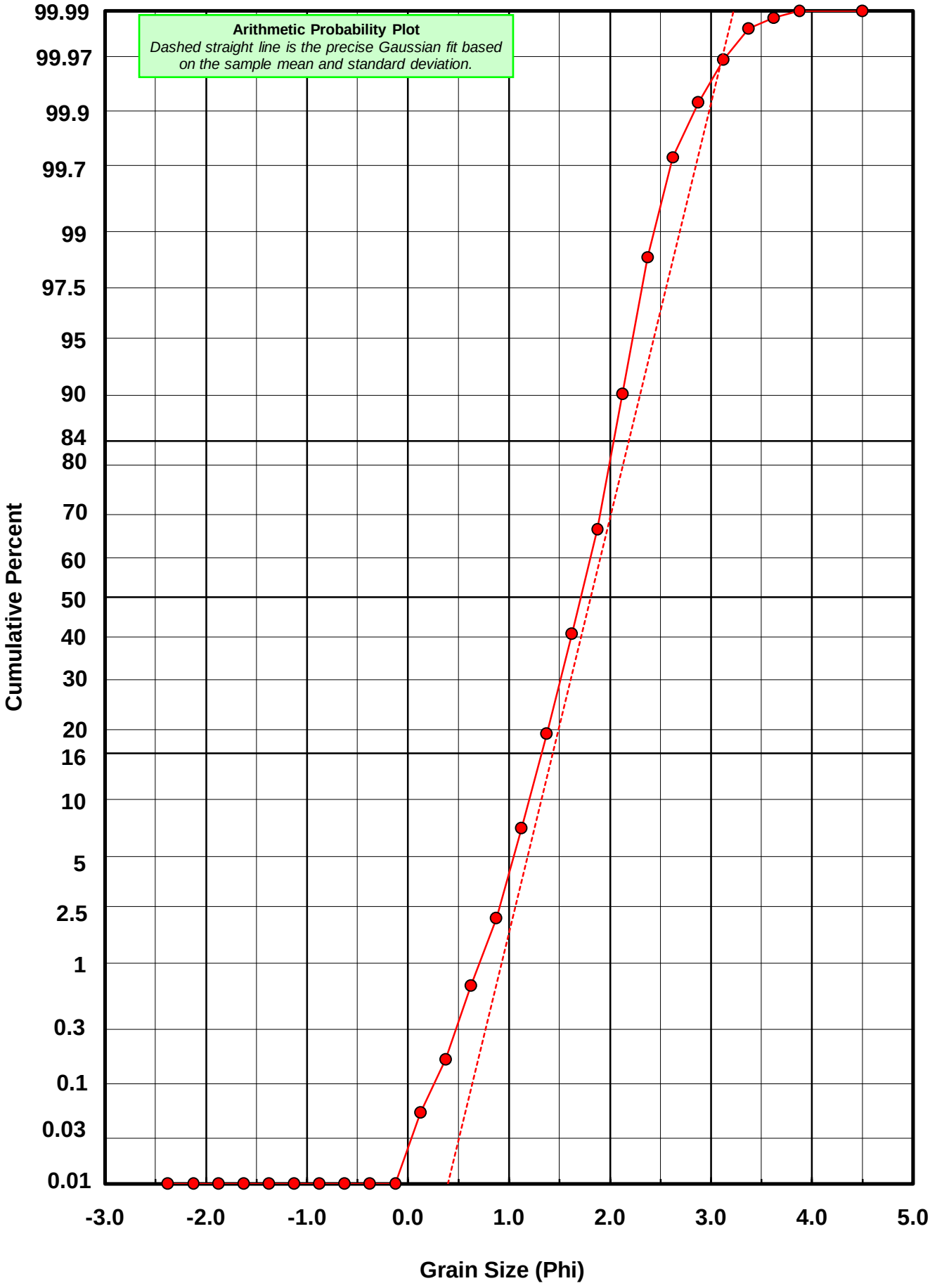
For Further Explanation, See Basillle et al. 2002

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)



BY-32-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)