Onshore Grab Sample

Sample: BY-20
Sample Taken By: D. Phelps
Sample Collected On: 2/14/11
Splits? N/A

County: Bay
Latitude: 30° 7' 21.3" N
Longitude: 85° 44' 1.2" W
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	44.911	grams
Total Fines in Sample	0.122	grams
Total Percent Fines	0.27	%

Dry Sieving Summary

Total Sample Weight	45.005	grams
Total Digested Weight	43.920	grams
Total Carbonate Weight	1.085	grams
Total Silica %	97.59	%
Total Carbonate %	2.41	%
Carbonate/Silica Ratio	0.025	

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-20

Total Sample Mass: 45.005 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	0.906	2.013	2.013
0.25	0.125	0.019	0.042	2.055
0.50	0.375	0.031	0.069	2.124
0.75	0.625	0.069	0.153	2.278
1.00	0.875	0.240	0.533	2.811
1.25	1.125	1.402	3.115	5.926
1.50	1.375	1.508	3.351	9.277
1.75	1.625	2.779	6.175	15.452
2.00	1.875	7.276	16.167	31.619
2.25	2.125	10.317	22.924	54.543
2.50	2.375	13.275	29.497	84.040
2.75	2.625	6.160	13.687	97.727
3.00	2.875	0.956	2.124	99.851
3.25	3.125	0.042	0.093	99.944
3.50	3.375	0.012	0.027	99.971
3.75	3.625	0.003	0.007	99.978
4.00	3.875	0.007	0.016	99.993
5.00	4.50	0.003	0.007	100.000

Statistical Results			
Mean:	2.1010	phi	(0.2331 mm)
Standard Dev:	0.5151	phi-units	(0.6998 mm)
Skewness:	-1.9064	dimensionless	
Kurtosis:	8.6128	dimensionless	
5th Moment:	-32.7993	dimensionless	
6th Moment:	141.6928	dimensionless	
RARD *	0.2452	dimensionless	
Median	2.0755	phi	(0.2373 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

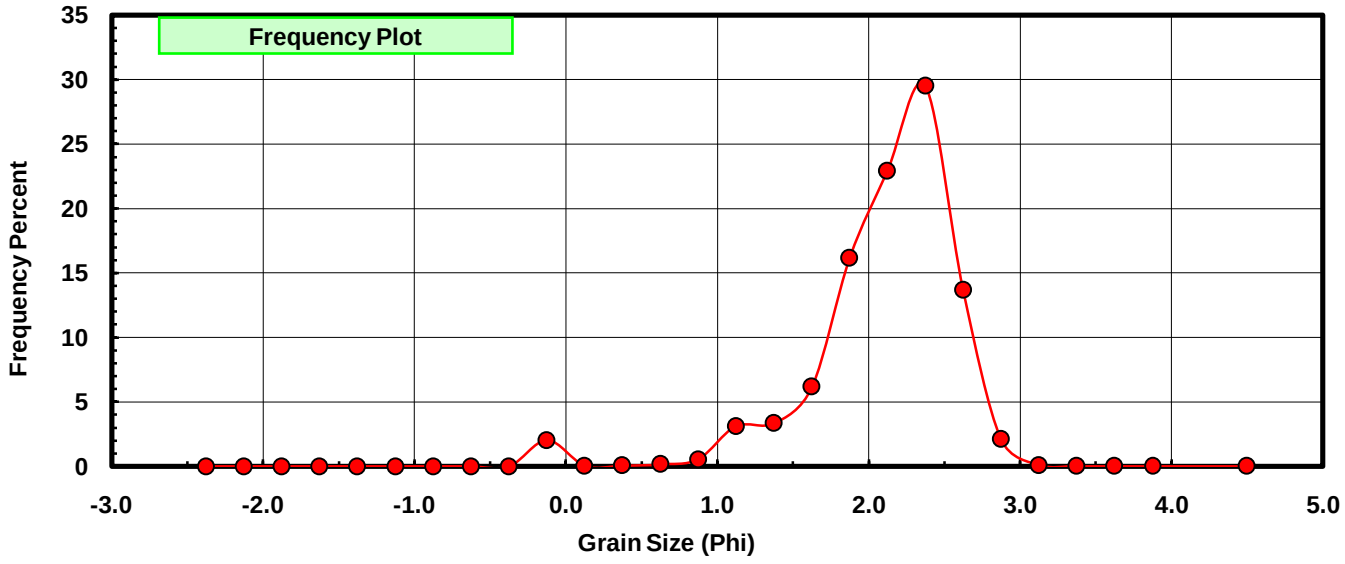
Statistical Explanation

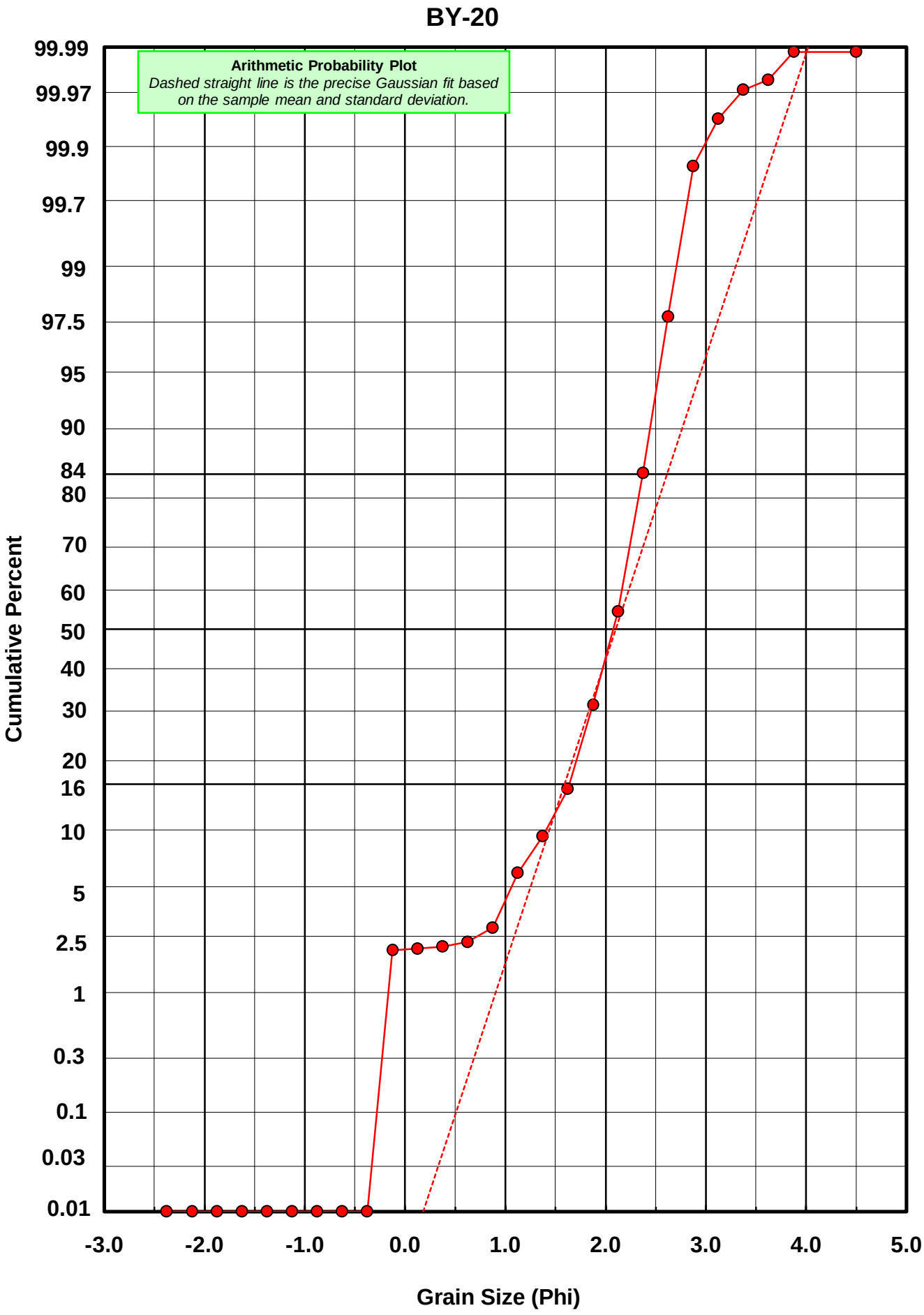
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-20
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)