

Onshore Grab Sample

Sample: DU-13-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 29' 39.3"
Longitude: 81° 24' 44.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 63.987 grams
Total Fines in Sample 0.267 grams
Total Percent Fines 0.42 %

Dry Sieving Summary

Total Sample Weight 63.627 grams
Total Digested Weight 62.661 grams
Total Carbonate Weight 0.966 grams
Total Silica % 98.48 %
Total Carbonate % 1.52 %
Carbonate/Silica Ratio 0.015

General Comments:

None

Description

Worked By: C. Fischler
Reviewed and Edited By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-13-BB

Total Sample Mass: 63.627 grams

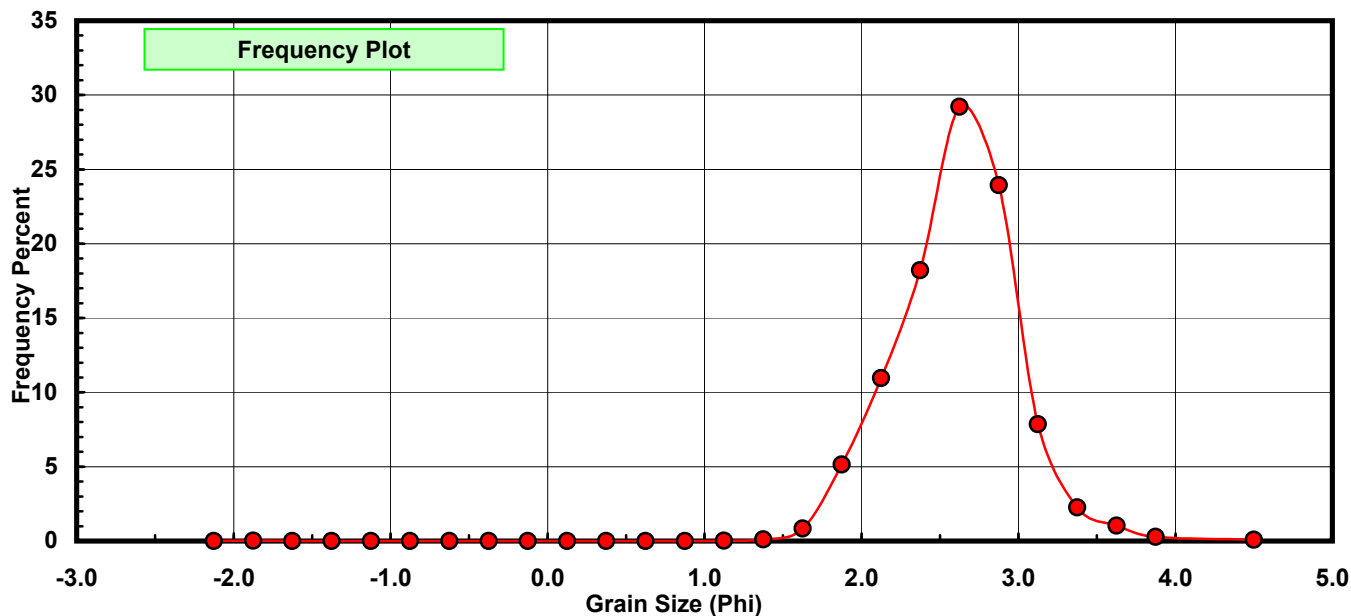
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.020	0.031	0.031
-1.50	-1.625	0.000	0.000	0.031
-1.25	-1.375	0.000	0.000	0.031
-1.00	-1.125	0.000	0.000	0.031
-0.75	-0.875	0.000	0.000	0.031
-0.50	-0.625	0.001	0.002	0.033
-0.25	-0.375	0.000	0.000	0.033
0.00	-0.125	0.000	0.000	0.033
0.25	0.125	0.003	0.005	0.038
0.50	0.375	0.001	0.002	0.039
0.75	0.625	0.005	0.008	0.047
1.00	0.875	0.004	0.006	0.053
1.25	1.125	0.018	0.028	0.082
1.50	1.375	0.074	0.116	0.198
1.75	1.625	0.530	0.833	1.031
2.00	1.875	3.271	5.141	6.172
2.25	2.125	6.977	10.965	17.137
2.50	2.375	11.588	18.212	35.350
2.75	2.625	18.587	29.212	64.562
3.00	2.875	15.233	23.941	88.503
3.25	3.125	4.997	7.854	96.357
3.50	3.375	1.439	2.262	98.619
3.75	3.625	0.653	1.026	99.645
4.00	3.875	0.173	0.272	99.917
5.00	4.500	0.053	0.083	100.000

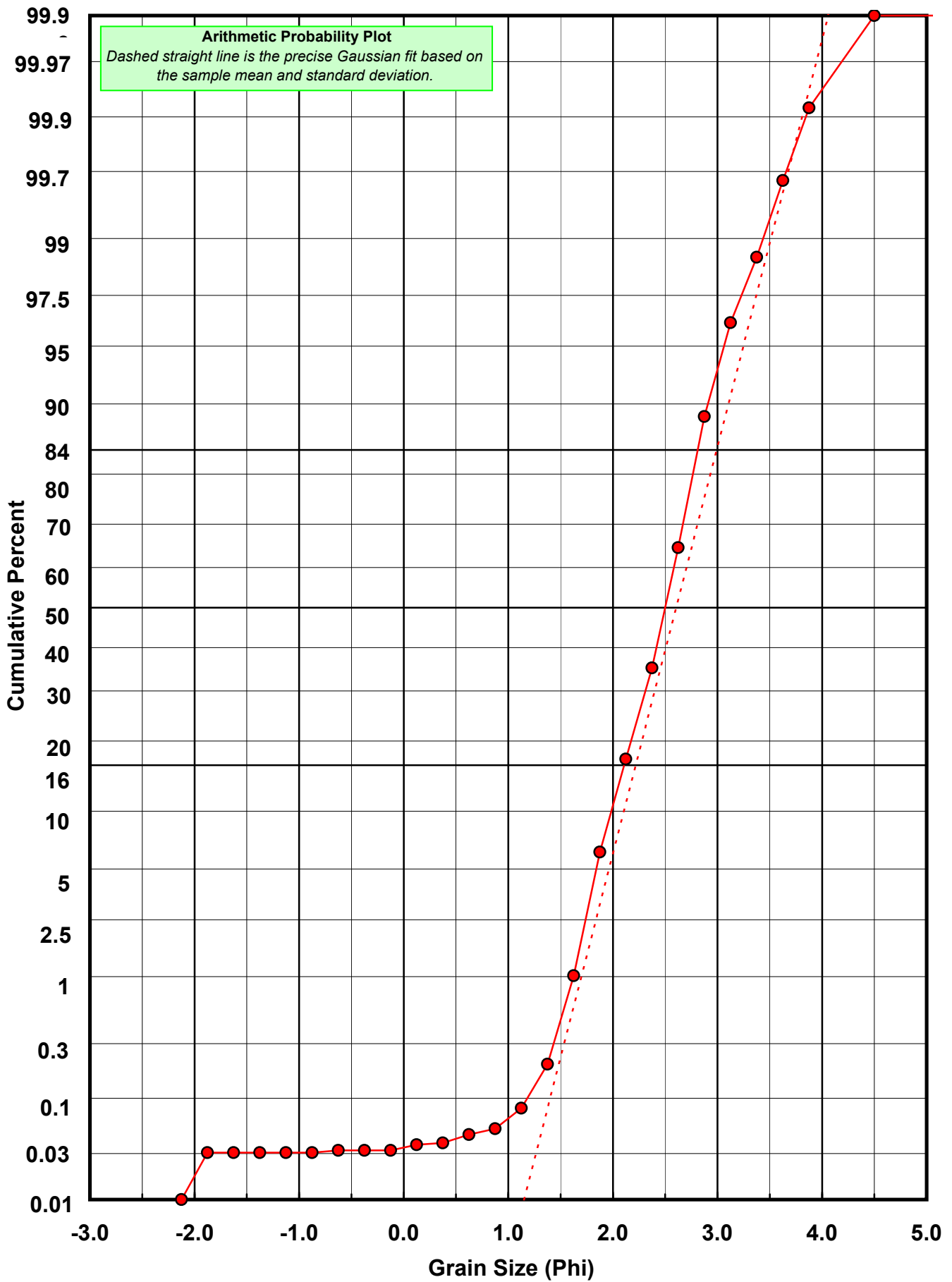
Statistical Results			
Mean:	2.6053	phi	(0.1643 mm)
Standard Dev:	0.3907	phi-units	(0.7627 mm)
Skewness:	-0.4736	dimensionless	
Kurtosis:	9.1013	dimensionless	
5th Moment:	-62.2394	dimensionless	
6th Moment:	762.4159	dimensionless	
RARD *	0.1500	dimensionless	
Median	2.5004	phi	(0.1767 mm)

* 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 Calculation Sheets	
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)





Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: DU-13-BB

Total Carbonate Mass: 1.910 grams

% Carbonate: 1.5 %

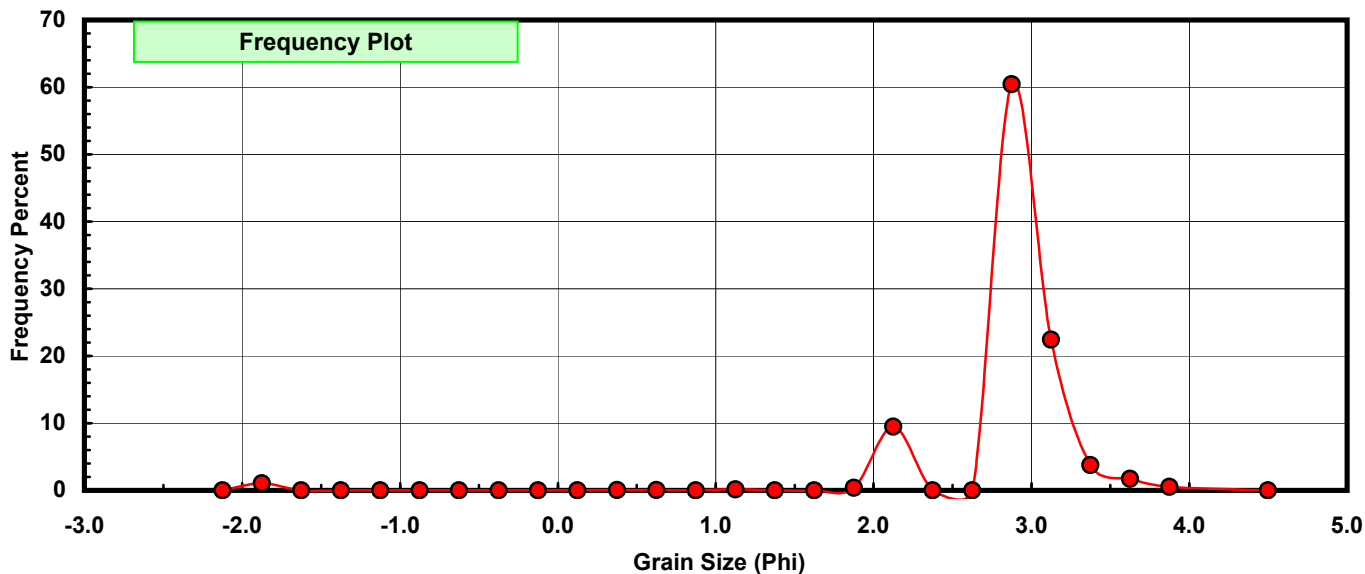
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.020	1.047	1.047
-1.50	-1.625	0.000	0.000	1.047
-1.25	-1.375	0.000	0.000	1.047
-1.00	-1.125	0.000	0.000	1.047
-0.75	-0.875	0.000	0.000	1.047
-0.50	-0.625	0.000	0.000	1.047
-0.25	-0.375	0.000	0.000	1.047
0.00	-0.125	0.000	0.000	1.047
0.25	0.125	0.000	0.000	1.047
0.50	0.375	0.001	0.052	1.099
0.75	0.625	0.001	0.052	1.152
1.00	0.875	0.000	0.000	1.152
1.25	1.125	0.003	0.157	1.309
1.50	1.375	0.000	0.000	1.309
1.75	1.625	0.000	0.000	1.309
2.00	1.875	0.007	0.366	1.675
2.25	2.125	0.181	9.476	11.152
2.50	2.375	0.000	0.000	11.152
2.75	2.625	0.000	0.000	11.152
3.00	2.875	1.154	60.419	71.571
3.25	3.125	0.428	22.408	93.979
3.50	3.375	0.072	3.770	97.749
3.75	3.625	0.033	1.728	99.476
4.00	3.875	0.010	0.524	100.000
5.00	4.500	0.000	0.000	100.000

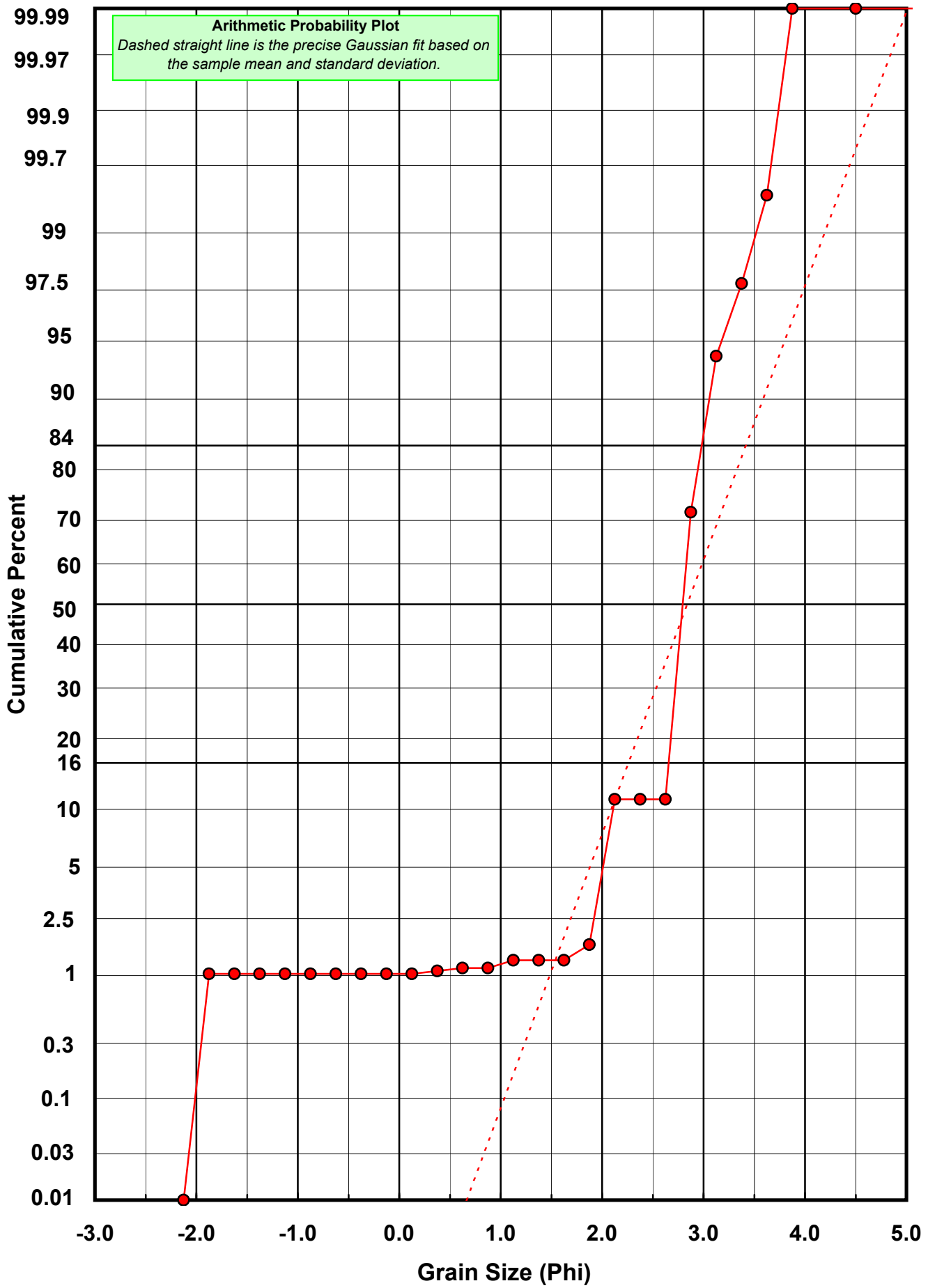
Statistical Results			
Mean:	2.8384	phi	(0.1398 mm)
Standard Dev:	0.5840	phi-units	(0.6671 mm)
Skewness:	-5.6755	dimensionless	
Kurtosis:	45.2207	dimensionless	
5th Moment:	-360.2768	dimensionless	
6th Moment:	2901.6158	dimensionless	
RARD *	0.2057	dimensionless	
Median	2.7857	phi	(0.145 mm)

* 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 Calculation Sheets	
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)





Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-13-BB

Total Digested Mass: 62.612 grams

% Silica: 98.5 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-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	0.002	0.003	0.003
-0.25	-0.375	0.000	0.000	0.003
0.00	-0.125	0.000	0.000	0.003
0.25	0.125	0.004	0.006	0.010
0.50	0.375	0.000	0.000	0.010
0.75	0.625	0.004	0.006	0.016
1.00	0.875	0.004	0.006	0.022
1.25	1.125	0.015	0.024	0.046
1.50	1.375	0.076	0.121	0.168
1.75	1.625	0.595	0.950	1.118
2.00	1.875	3.264	5.213	6.331
2.25	2.125	6.796	10.854	17.185
2.50	2.375	12.167	19.432	36.618
2.75	2.625	18.887	30.165	66.783
3.00	2.875	14.079	22.486	89.269
3.25	3.125	4.569	7.297	96.566
3.50	3.375	1.367	2.183	98.749
3.75	3.625	0.620	0.990	99.740
4.00	3.875	0.163	0.260	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5934	phi	(0.1657 mm)
Standard Dev:	0.3762	phi-units	(0.7705 mm)
Skewness:	-0.0794	dimensionless	
Kurtosis:	3.6848	dimensionless	
5th Moment:	-1.9958	dimensionless	
6th Moment:	38.7274	dimensionless	
RARD *	0.1451	dimensionless	
Median	2.4859	phi	(0.1785 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 Calculation Sheets	
Millimeter data calculated by $mm = 2^{(-phi)}$	

Reciprocal Absolute Relative Dispersion (RARD) Scale	
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