Onshore Grab Sample

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

County: Duval
Latitude: 30° 29' 38.6"
Longitude: 81° 26' 15.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	45.974	grams
Total Fines in Sample	0.175	grams
Total Percent Fines	0.38	%

Dry Sieving Summary

Total Sample Weight	45.701	grams
Total Digested Weight	45.443	grams
Total Carbonate Weight	0.258	grams
Total Silica %	99.44	%
Total Carbonate %	0.56	%
Carbonate/Silica Ratio	0.006	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-12

Total Sample Mass: 45.701 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	0.000	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	0.002	0.004	0.004
-0.75	-0.875	0.010	0.022	0.026
-0.50	-0.625	0.003	0.007	0.033
-0.25	-0.375	0.000	0.000	0.033
0.00	-0.125	0.001	0.002	0.035
0.25	0.125	0.001	0.002	0.037
0.50	0.375	0.004	0.009	0.046
0.75	0.625	0.007	0.015	0.061
1.00	0.875	0.015	0.033	0.094
1.25	1.125	0.022	0.048	0.142
1.50	1.375	0.053	0.116	0.258
1.75	1.625	0.267	0.584	0.842
2.00	1.875	1.406	3.077	3.919
2.25	2.125	5.156	11.282	15.201
2.50	2.375	13.274	29.045	44.246
2.75	2.625	16.915	37.012	81.259
3.00	2.875	7.162	15.671	96.930
3.25	3.125	1.089	2.383	99.313
3.50	3.375	0.199	0.435	99.748
3.75	3.625	0.082	0.179	99.928
4.00	3.875	0.024	0.053	99.980
5.00	4.500	0.009	0.020	100.000

Statistical Results			
Mean:	2.5197	phi	(0.1744 mm)
Standard Dev:	0.3020	phi-units	(0.8112 mm)
Skewness:	-0.7190	dimensionless	
Kurtosis:	10.1472	dimensionless	
5th Moment:	-65.0549	dimensionless	
6th Moment:	766.2554	dimensionless	
RARD *	0.1198	dimensionless	
Median	2.4139	phi	(0.1877 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

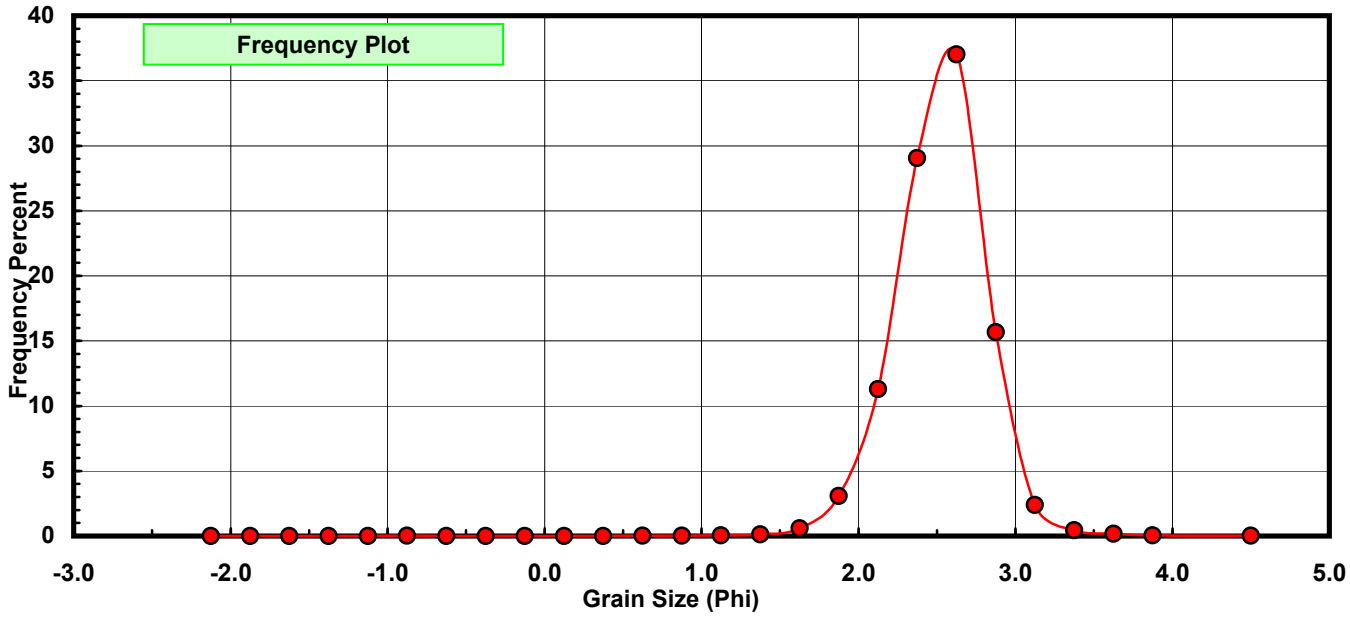
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

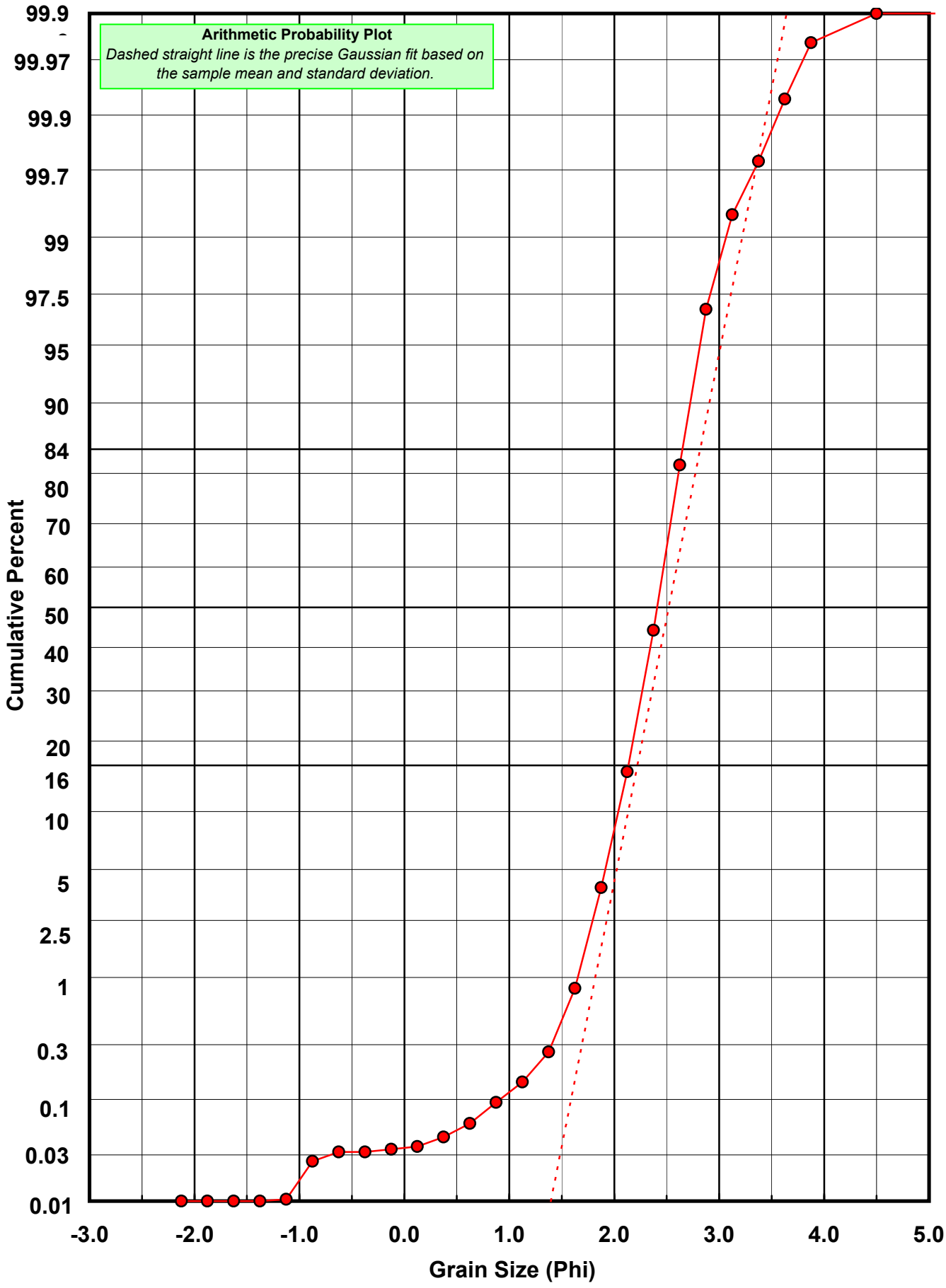
For Further Explanation, See Calculation Sheets

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)




Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.9
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)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: DU-12

Total Carbonate Mass: 1.550 grams

% Carbonate: 0.6 %

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	0.002	0.129	0.129
-0.75	-0.875	0.000	0.000	0.129
-0.50	-0.625	0.003	0.194	0.323
-0.25	-0.375	0.000	0.000	0.323
0.00	-0.125	0.000	0.000	0.323
0.25	0.125	0.000	0.000	0.323
0.50	0.375	0.000	0.000	0.323
0.75	0.625	0.000	0.000	0.323
1.00	0.875	0.008	0.516	0.839
1.25	1.125	0.006	0.387	1.226
1.50	1.375	0.003	0.194	1.419
1.75	1.625	0.000	0.000	1.419
2.00	1.875	0.000	0.000	1.419
2.25	2.125	0.552	35.613	37.032
2.50	2.375	0.976	62.968	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.2611	phi	(0.2086 mm)
Standard Dev:	0.2492	phi-units	(0.8413 mm)
Skewness:	-7.5815	dimensionless	
Kurtosis:	85.7537	dimensionless	
5th Moment:	########	dimensionless	
6th Moment:	########	dimensionless	
RARD *	0.1102	dimensionless	
Median	2.1765	phi	(0.2212 mm)

* RARD = reciprocal absolute relative dispersion (see below)

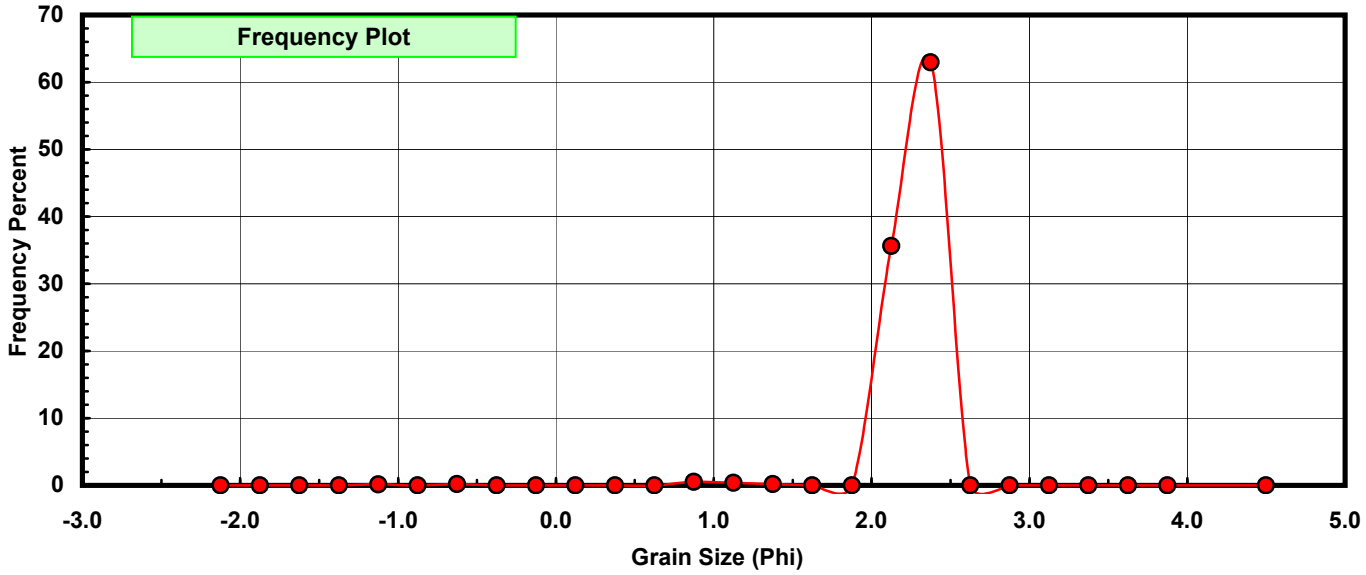
Statistical Explanation

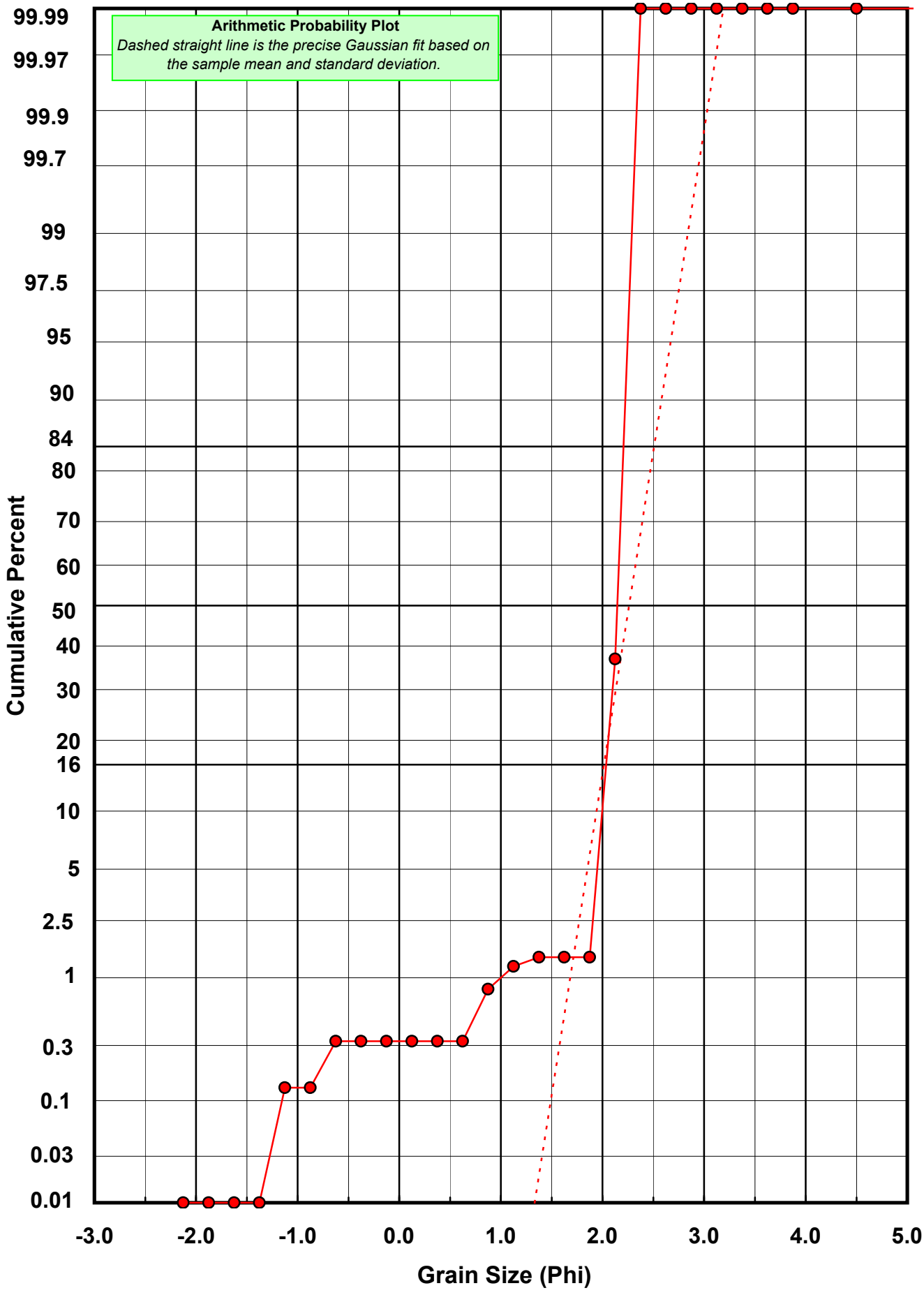
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




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)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-12

Total Digested Mass: 45.434 grams

% Silica: 99.4 %

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	0.013	0.029	0.029
-0.50	-0.625	0.000	0.000	0.029
-0.25	-0.375	0.000	0.000	0.029
0.00	-0.125	0.004	0.009	0.037
0.25	0.125	0.007	0.015	0.053
0.50	0.375	0.004	0.009	0.062
0.75	0.625	0.008	0.018	0.079
1.00	0.875	0.007	0.015	0.095
1.25	1.125	0.016	0.035	0.130
1.50	1.375	0.050	0.110	0.240
1.75	1.625	0.276	0.607	0.847
2.00	1.875	1.477	3.251	4.098
2.25	2.125	4.604	10.133	14.232
2.50	2.375	12.298	27.068	41.299
2.75	2.625	17.254	37.976	79.275
3.00	2.875	7.907	17.403	96.679
3.25	3.125	1.158	2.549	99.227
3.50	3.375	0.218	0.480	99.707
3.75	3.625	0.101	0.222	99.930
4.00	3.875	0.032	0.070	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5348	phi	(0.1726 mm)
Standard Dev:	0.3051	phi-units	(0.8094 mm)
Skewness:	-0.8240	dimensionless	
Kurtosis:	9.8817	dimensionless	
5th Moment:	-65.3664	dimensionless	
6th Moment:	703.6368	dimensionless	
RARD *	0.1204	dimensionless	
Median	2.4323	phi	(0.1853 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
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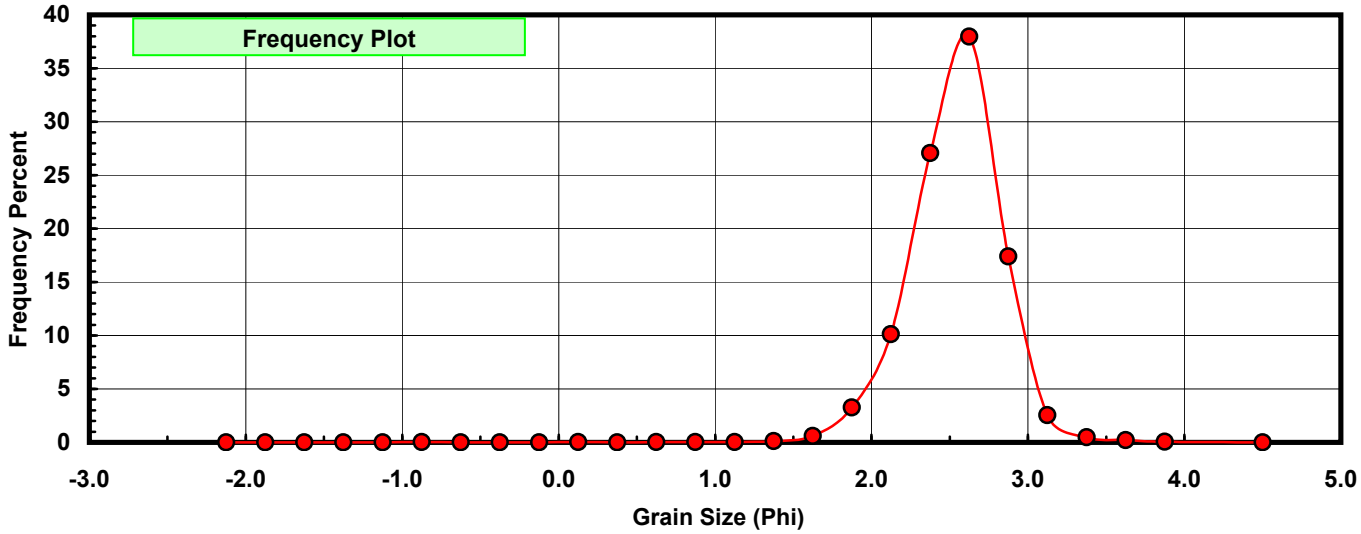

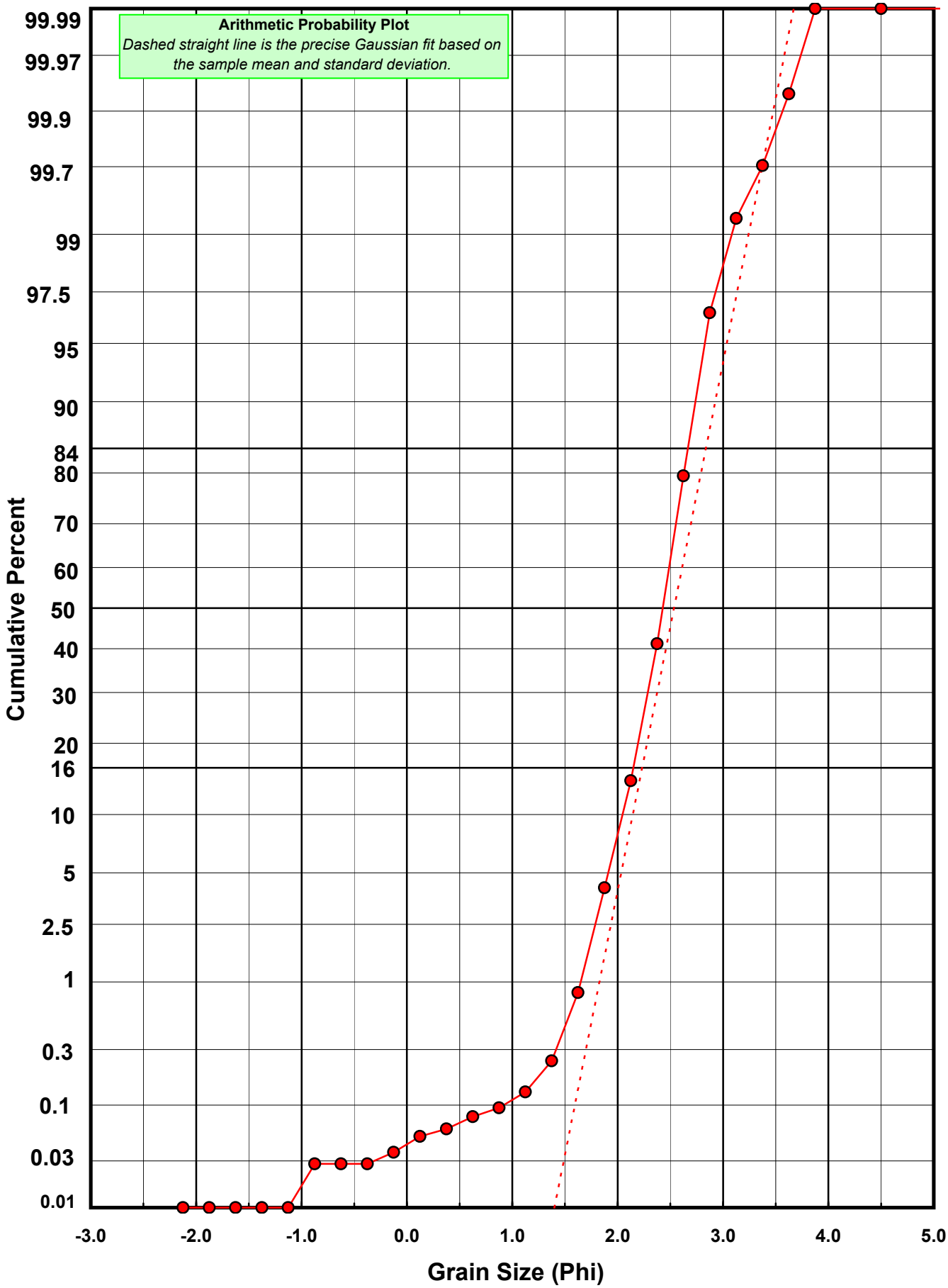
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-2.0
-1.0
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Grain Size (Phi)