Onshore Grab Sample

Sample: DU-17-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 25' 2.2"
Longitude: 81° 24' 24.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	54.158	grams
Total Fines in Sample	0.039	grams
Total Percent Fines	0.07	%

Dry Sieving Summary

Total Sample Weight	54.132	grams
Total Digested Weight	53.400	grams
Total Carbonate Weight	0.732	grams
Total Silica %	98.65	%
Total Carbonate %	1.35	%
Carbonate/Silica Ratio	0.014	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-17-BB

Total Sample Mass: 54.132 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	0.000	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	0.000	0.000	0.000
0.50	0.375	0.000	0.000	0.000
0.75	0.625	0.003	0.006	0.006
1.00	0.875	0.002	0.004	0.009
1.25	1.125	0.006	0.011	0.020
1.50	1.375	0.005	0.009	0.030
1.75	1.625	0.018	0.033	0.063
2.00	1.875	0.130	0.240	0.303
2.25	2.125	0.734	1.356	1.659
2.50	2.375	4.024	7.434	9.093
2.75	2.625	14.873	27.475	36.568
3.00	2.875	20.896	38.602	75.170
3.25	3.125	10.814	19.977	95.147
3.50	3.375	2.142	3.957	99.104
3.75	3.625	0.329	0.608	99.712
4.00	3.875	0.130	0.240	99.952
5.00	4.500	0.026	0.048	100.000

Statistical Results			
Mean:	2.8331	phi	(0.1403 mm)
Standard Dev:	0.2764	phi-units	(0.8256 mm)
Skewness:	0.0196	dimensionless	
Kurtosis:	4.7027	dimensionless	
5th Moment:	0.1815	dimensionless	
6th Moment:	76.4295	dimensionless	
RARD *	0.0976	dimensionless	
Median	2.7120	phi	(0.1526 mm)

* RARD = reciprocal absolute relative dispersion (see below)

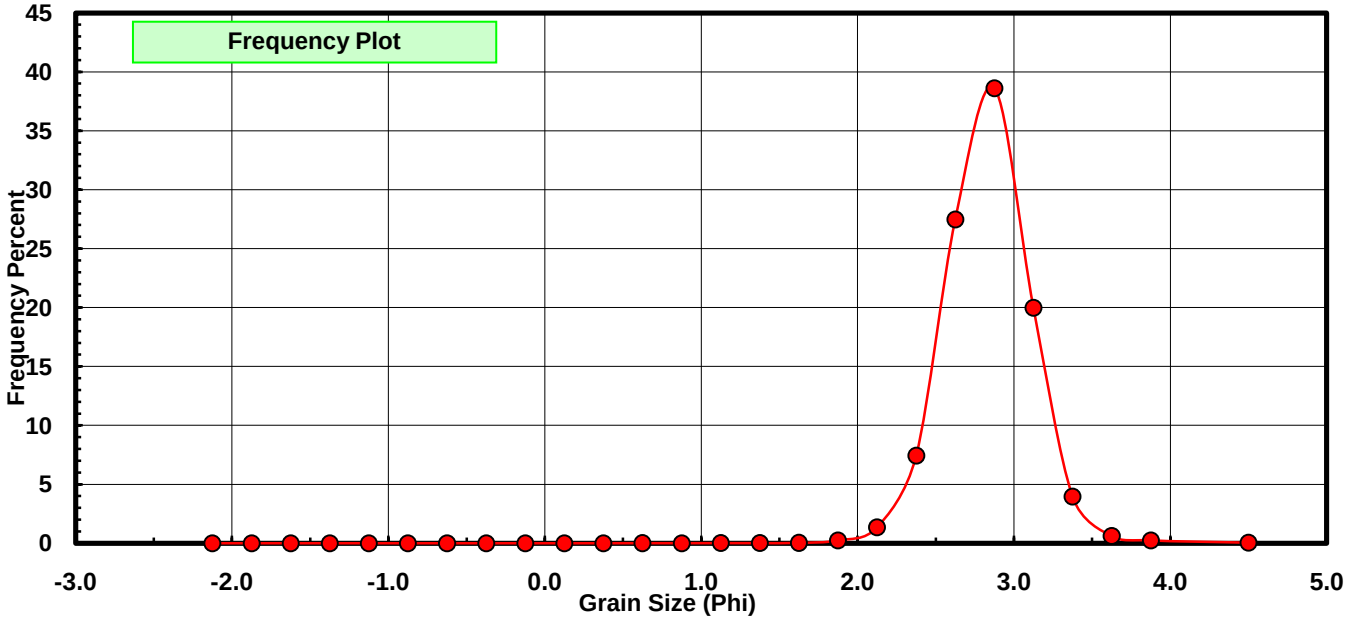
Statistical Explanation

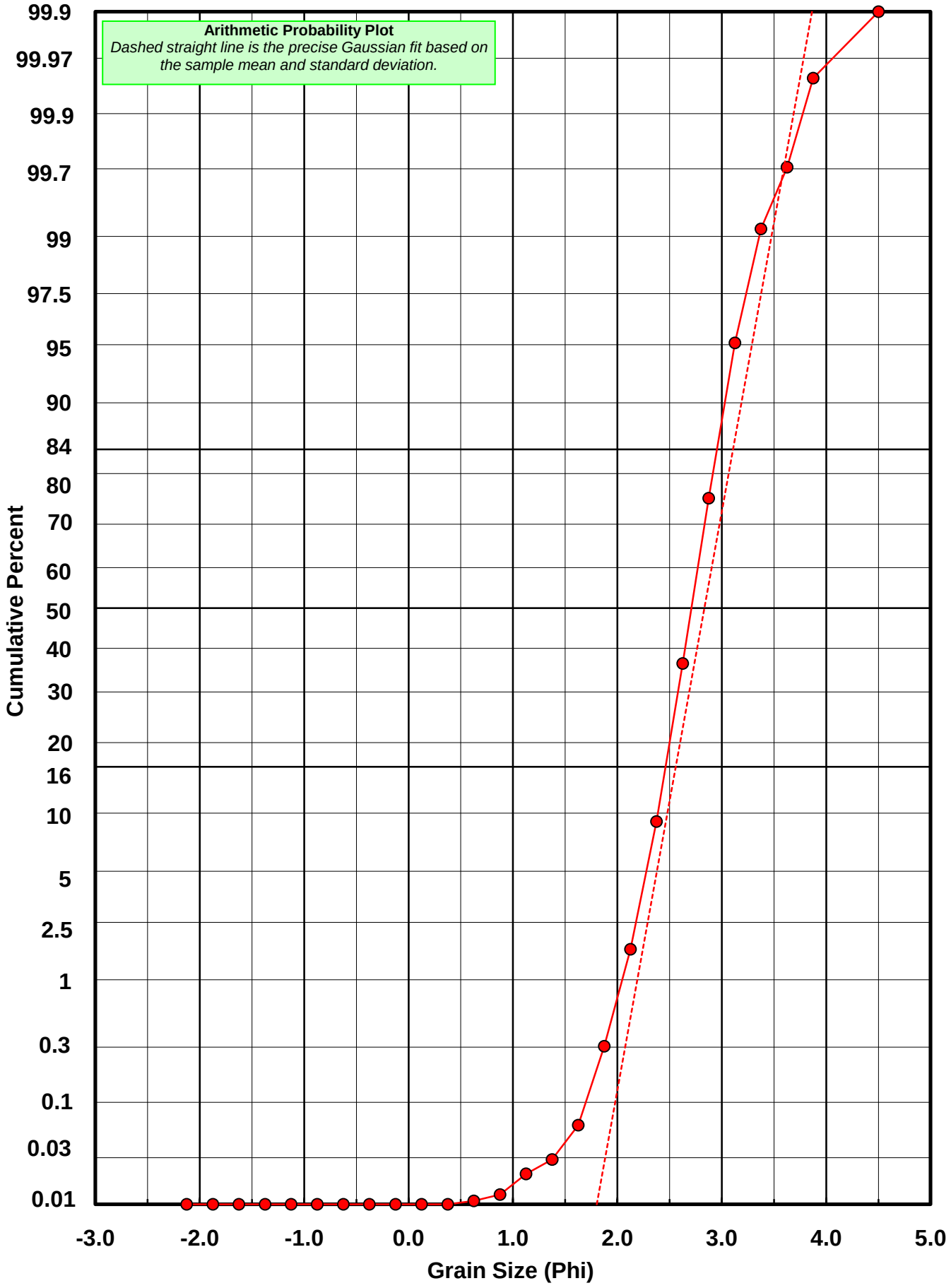
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-17-BB

Total Carbonate Mass: 1.600 grams

% Carbonate: 1.4 %

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	0.000	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	0.000	0.000	0.000
0.50	0.375	0.000	0.000	0.000
0.75	0.625	0.003	0.188	0.188
1.00	0.875	0.000	0.000	0.188
1.25	1.125	0.001	0.063	0.250
1.50	1.375	0.000	0.000	0.250
1.75	1.625	0.000	0.000	0.250
2.00	1.875	0.028	1.750	2.000
2.25	2.125	0.000	0.000	2.000
2.50	2.375	0.000	0.000	2.000
2.75	2.625	0.000	0.000	2.000
3.00	2.875	0.147	9.187	11.187
3.25	3.125	1.136	71.000	82.188
3.50	3.375	0.285	17.813	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:	3.1188	phi	(0.1151 mm)
Standard Dev:	0.2417	phi-units	(0.8458 mm)
Skewness:	-4.6791	dimensionless	
Kurtosis:	36.7575	dimensionless	
5th Moment:	-306.3587	dimensionless	
6th Moment:	2786.9195	dimensionless	
RARD *	0.0775	dimensionless	
Median	3.0117	phi	(0.124 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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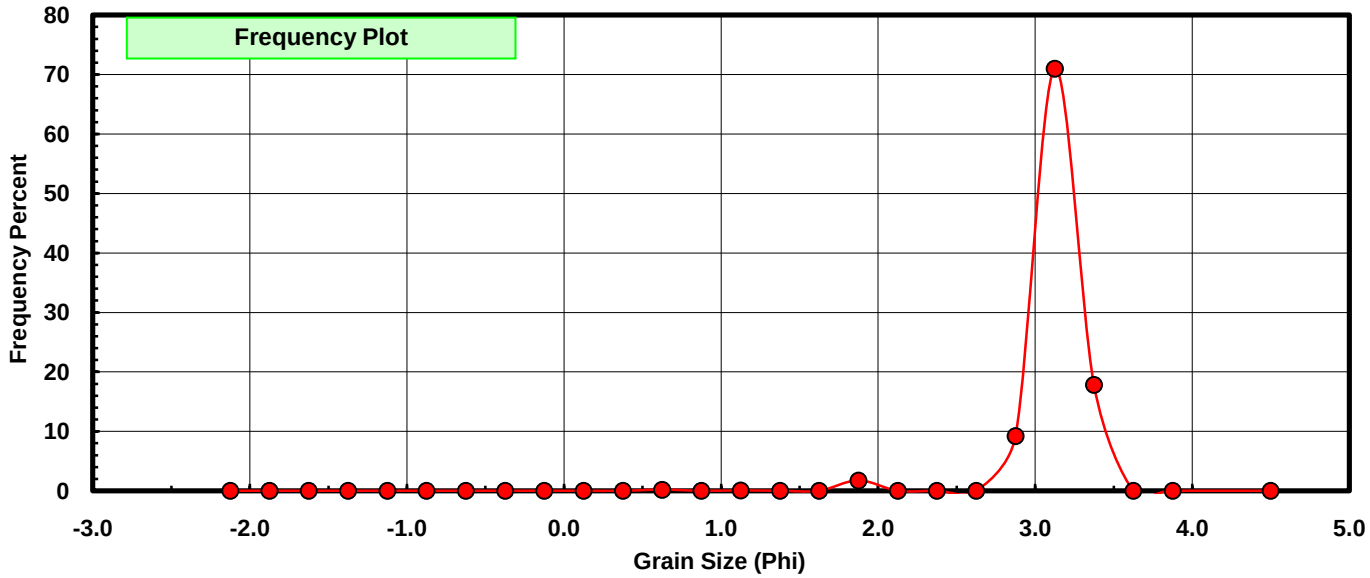
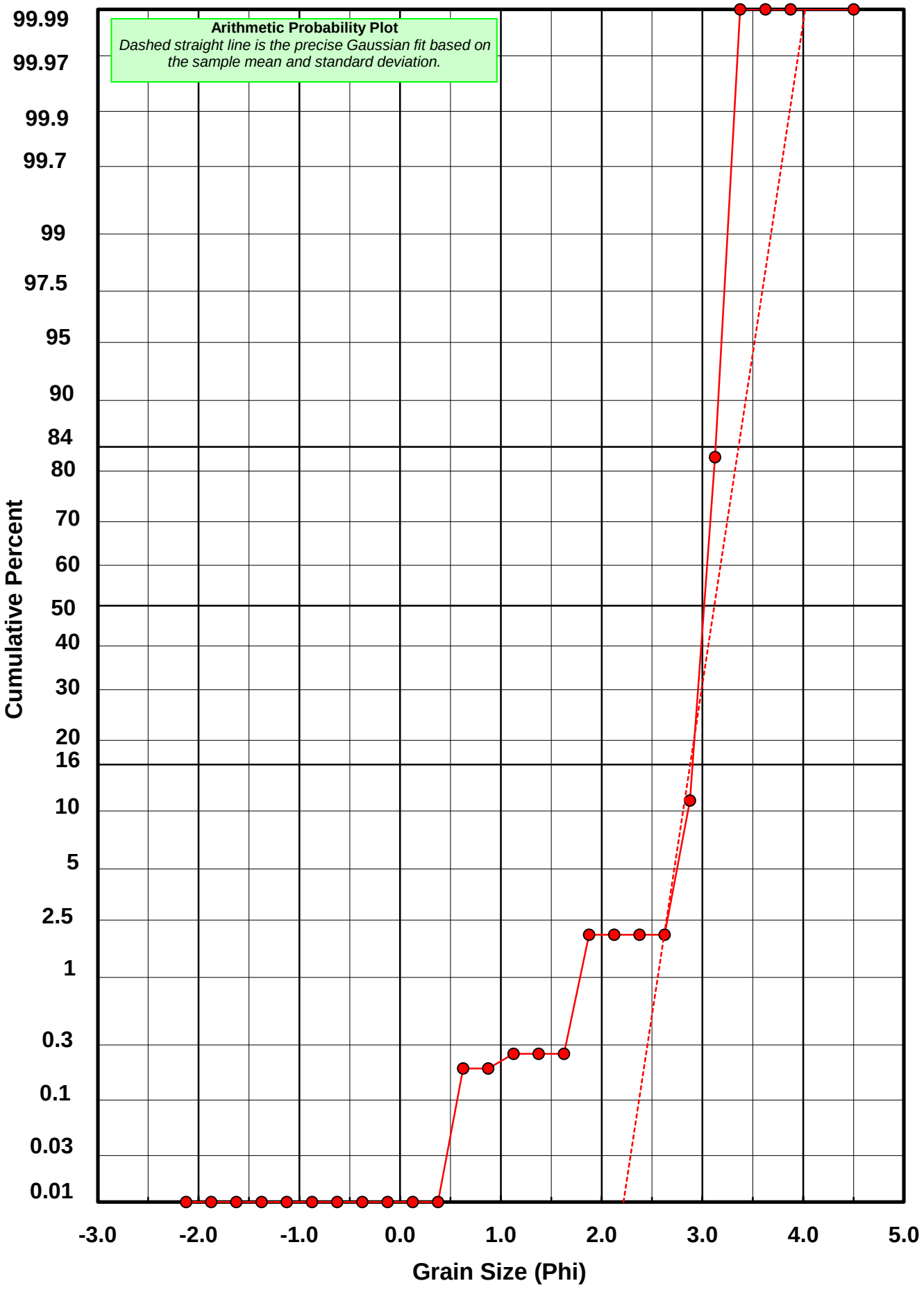
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)




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-17-BB

Total Digested Mass: 53.373 grams

% Silica: 98.6 %

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	0.000	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	0.000	0.000	0.000
0.50	0.375	0.000	0.000	0.000
0.75	0.625	0.000	0.000	0.000
1.00	0.875	0.003	0.006	0.006
1.25	1.125	0.005	0.009	0.015
1.50	1.375	0.005	0.009	0.024
1.75	1.625	0.019	0.036	0.060
2.00	1.875	0.102	0.191	0.251
2.25	2.125	0.751	1.407	1.658
2.50	2.375	4.618	8.652	10.310
2.75	2.625	15.056	28.209	38.519
3.00	2.875	20.749	38.875	77.395
3.25	3.125	9.678	18.133	95.528
3.50	3.375	1.857	3.479	99.007
3.75	3.625	0.389	0.729	99.736
4.00	3.875	0.141	0.264	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.8187	phi	(0.1417 mm)
Standard Dev:	0.2746	phi-units	(0.8267 mm)
Skewness:	0.0262	dimensionless	
Kurtosis:	4.0401	dimensionless	
5th Moment:	-0.8316	dimensionless	
6th Moment:	41.7892	dimensionless	
RARD *	0.0974	dimensionless	
Median	2.6988	phi	(0.154 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)

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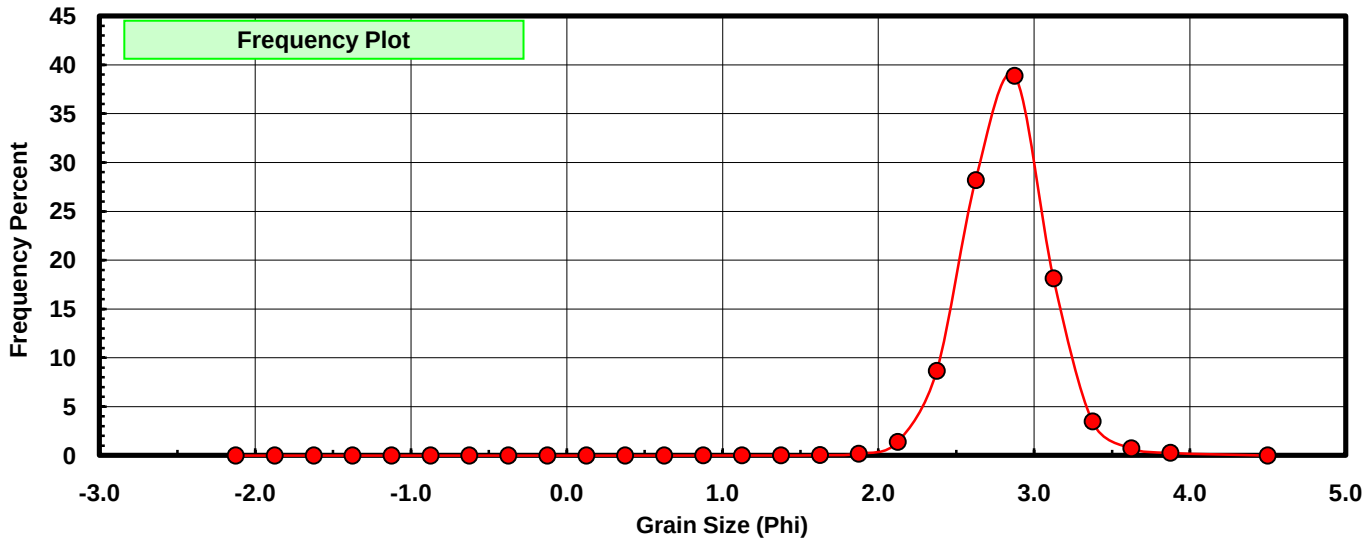

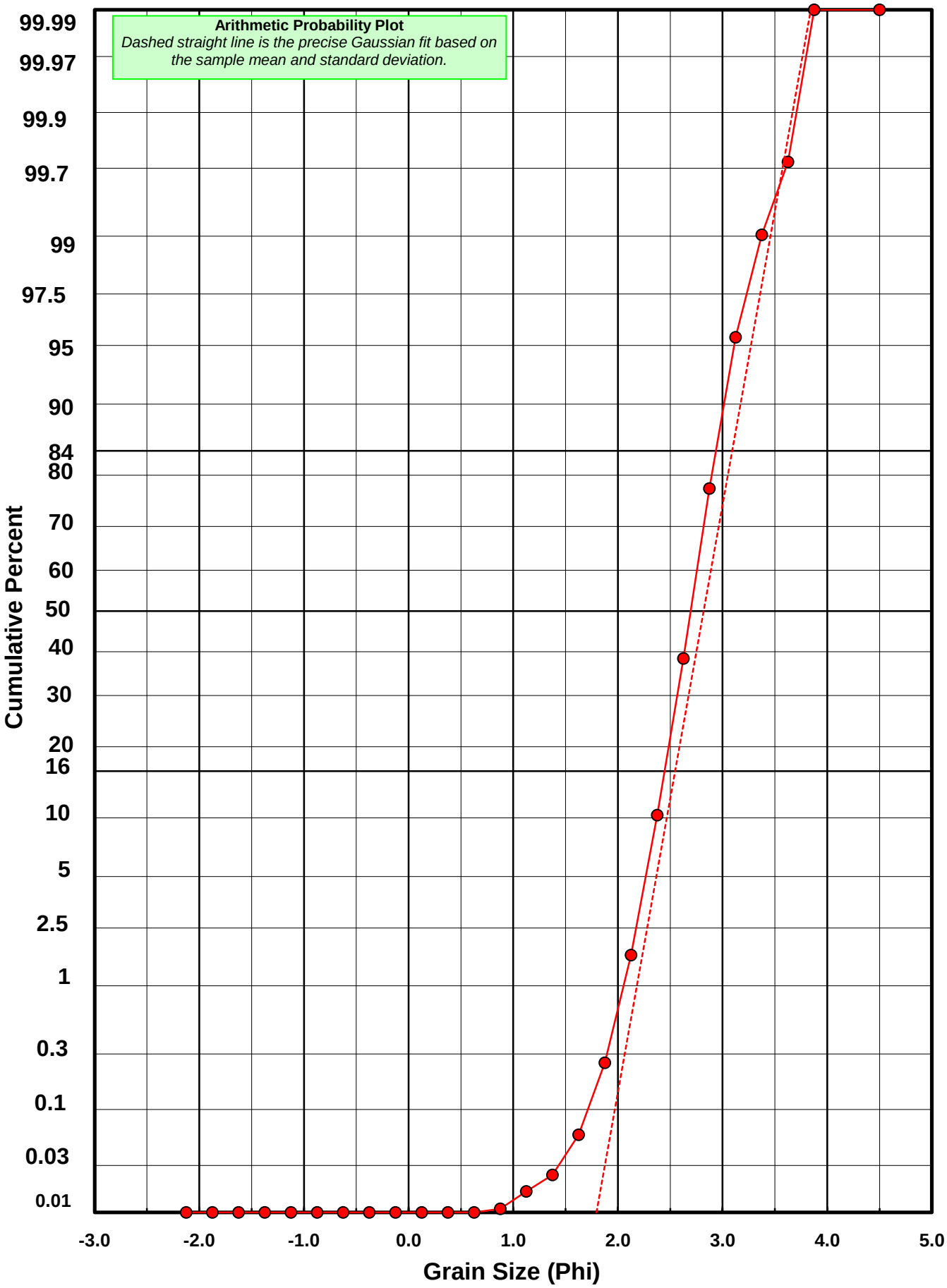
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0.03
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-2.0
-1.0
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3.0
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Grain Size (Phi)