Onshore Grab Sample

Sample: DU-15-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 26' 57.1"
Longitude: 81° 24' 36.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	47.293	grams
Total Fines in Sample	0.237	grams
Total Percent Fines	0.50	%

Dry Sieving Summary

Total Sample Weight	47.115	grams
Total Digested Weight	46.664	grams
Total Carbonate Weight	0.451	grams
Total Silica %	99.04	%
Total Carbonate %	0.96	%
Carbonate/Silica Ratio	0.010	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-15-SS

Total Sample Mass: 47.115 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	0.000	0.000	0.000
1.00	0.875	0.005	0.011	0.011
1.25	1.125	0.014	0.030	0.040
1.50	1.375	0.037	0.079	0.119
1.75	1.625	0.137	0.291	0.410
2.00	1.875	0.720	1.528	1.938
2.25	2.125	2.686	5.701	7.639
2.50	2.375	8.701	18.468	26.106
2.75	2.625	16.171	34.322	60.429
3.00	2.875	13.120	27.847	88.275
3.25	3.125	4.680	9.933	98.209
3.50	3.375	0.665	1.411	99.620
3.75	3.625	0.132	0.280	99.900
4.00	3.875	0.037	0.079	99.979
5.00	4.500	0.010	0.021	100.000

Statistical Results			
Mean:	2.6684	phi	(0.1573 mm)
Standard Dev:	0.3076	phi-units	(0.808 mm)
Skewness:	-0.2160	dimensionless	
Kurtosis:	4.0609	dimensionless	
5th Moment:	-2.1254	dimensionless	
6th Moment:	43.0122	dimensionless	
RARD *	0.1153	dimensionless	
Median	2.5490	phi	(0.1709 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

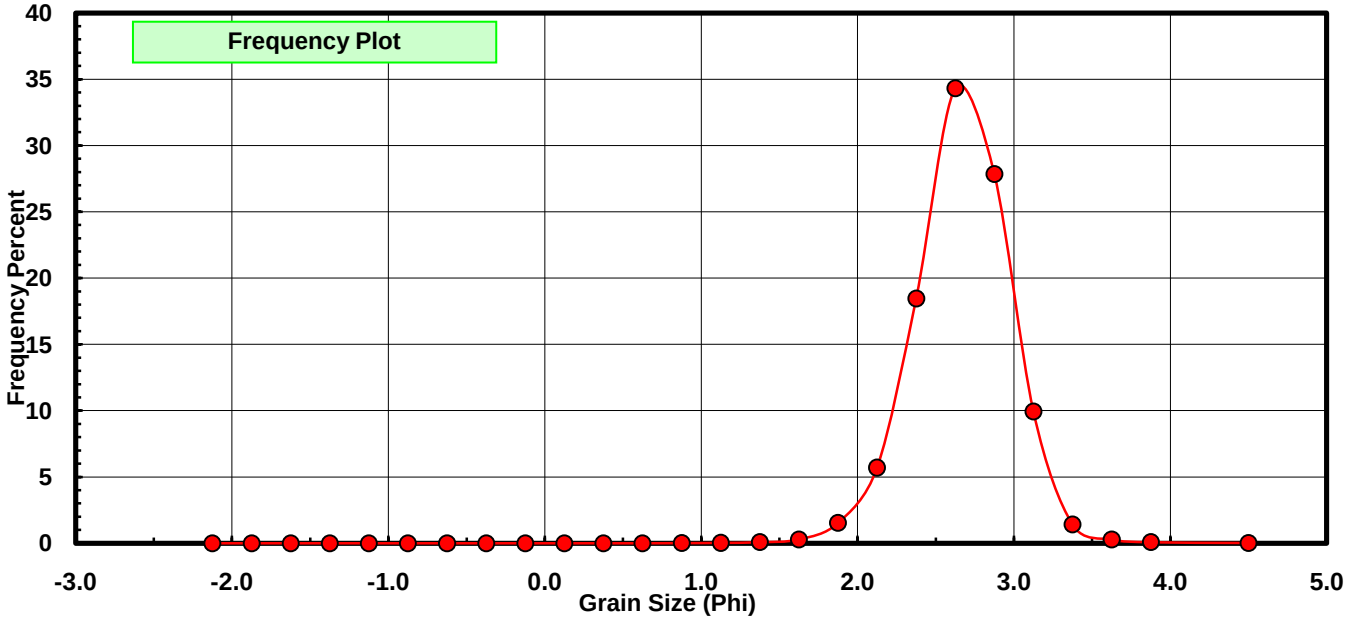
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

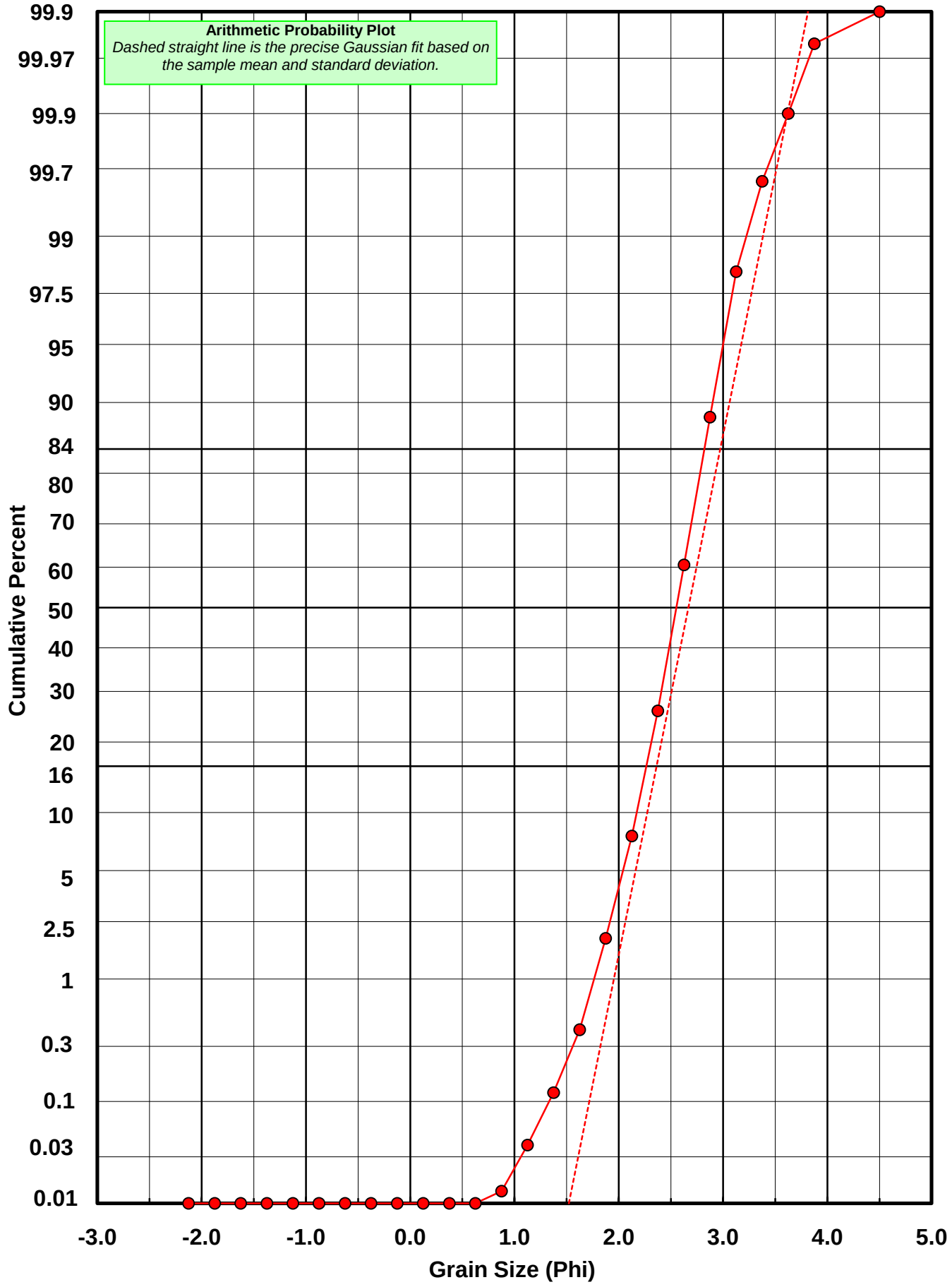
For Further Explanation, See Calculation Sheets

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-15-SS

Total Carbonate Mass: 1.308 grams

% Carbonate: 1.0 %

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	0.229	0.229
1.25	1.125	0.008	0.612	0.841
1.50	1.375	0.013	0.994	1.835
1.75	1.625	0.000	0.000	1.835
2.00	1.875	0.039	2.982	4.817
2.25	2.125	0.000	0.000	4.817
2.50	2.375	0.000	0.000	4.817
2.75	2.625	0.000	0.000	4.817
3.00	2.875	0.419	32.034	36.850
3.25	3.125	0.724	55.352	92.202
3.50	3.375	0.102	7.798	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:	2.9924	phi	(0.1257 mm)
Standard Dev:	0.3470	phi-units	(0.7862 mm)
Skewness:	-3.3533	dimensionless	
Kurtosis:	16.3385	dimensionless	
5th Moment:	-79.0715	dimensionless	
6th Moment:	402.2853	dimensionless	
RARD *	0.1160	dimensionless	
Median	2.9344	phi	(0.1308 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)
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1.0 to 1.33	Fair homogeneity
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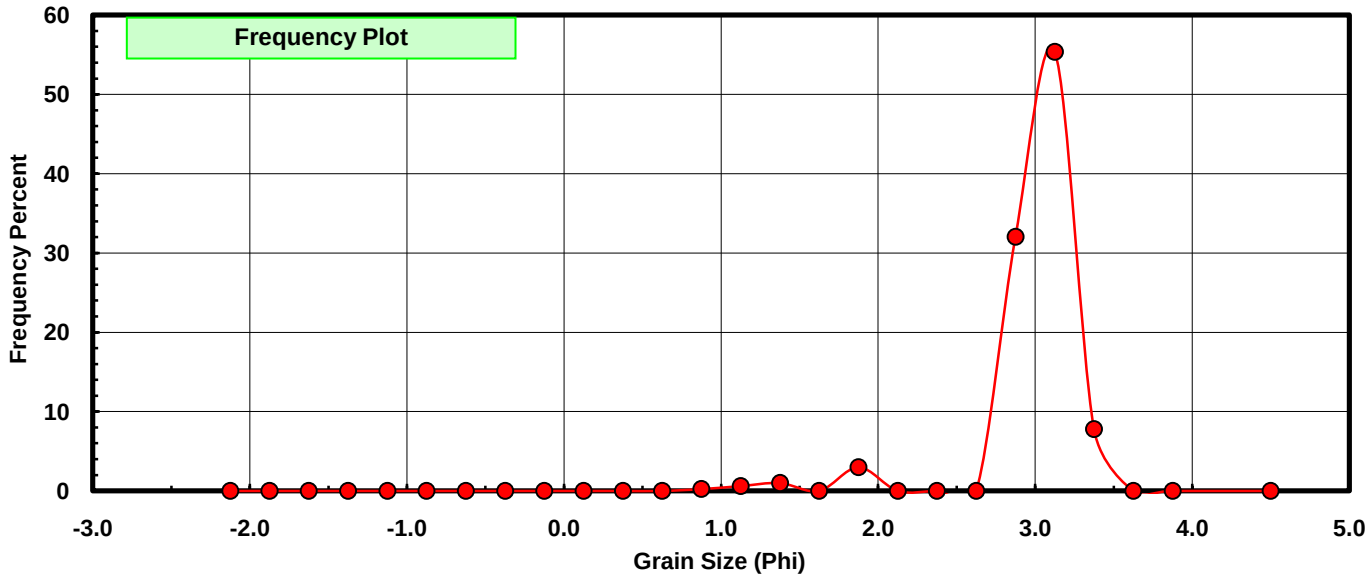

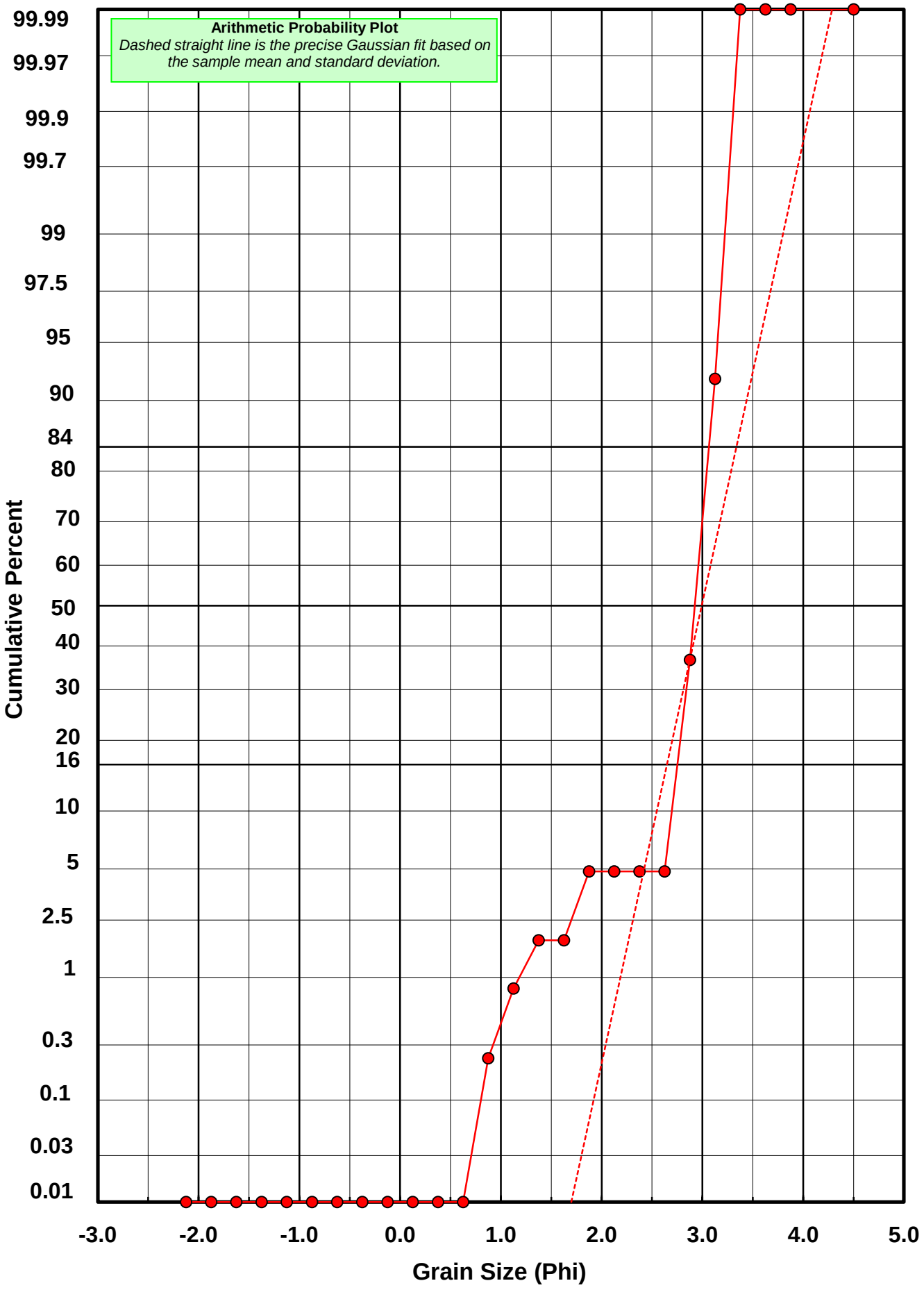
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-15-SS

Total Digested Mass: 46.653 grams

% Silica: 99.0 %

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	0.002	0.004	0.004
1.25	1.125	0.006	0.013	0.017
1.50	1.375	0.024	0.051	0.069
1.75	1.625	0.142	0.304	0.373
2.00	1.875	0.681	1.460	1.833
2.25	2.125	2.720	5.830	7.663
2.50	2.375	9.062	19.424	27.087
2.75	2.625	16.594	35.569	62.656
3.00	2.875	12.701	27.224	89.881
3.25	3.125	3.956	8.480	98.360
3.50	3.375	0.563	1.207	99.567
3.75	3.625	0.143	0.307	99.874
4.00	3.875	0.059	0.126	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6565	phi	(0.1586 mm)
Standard Dev:	0.3003	phi-units	(0.8121 mm)
Skewness:	-0.1545	dimensionless	
Kurtosis:	3.8576	dimensionless	
5th Moment:	-1.6294	dimensionless	
6th Moment:	32.0068	dimensionless	
RARD *	0.1130	dimensionless	
Median	2.5360	phi	(0.1724 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation

Calculations based on the Method of Moments
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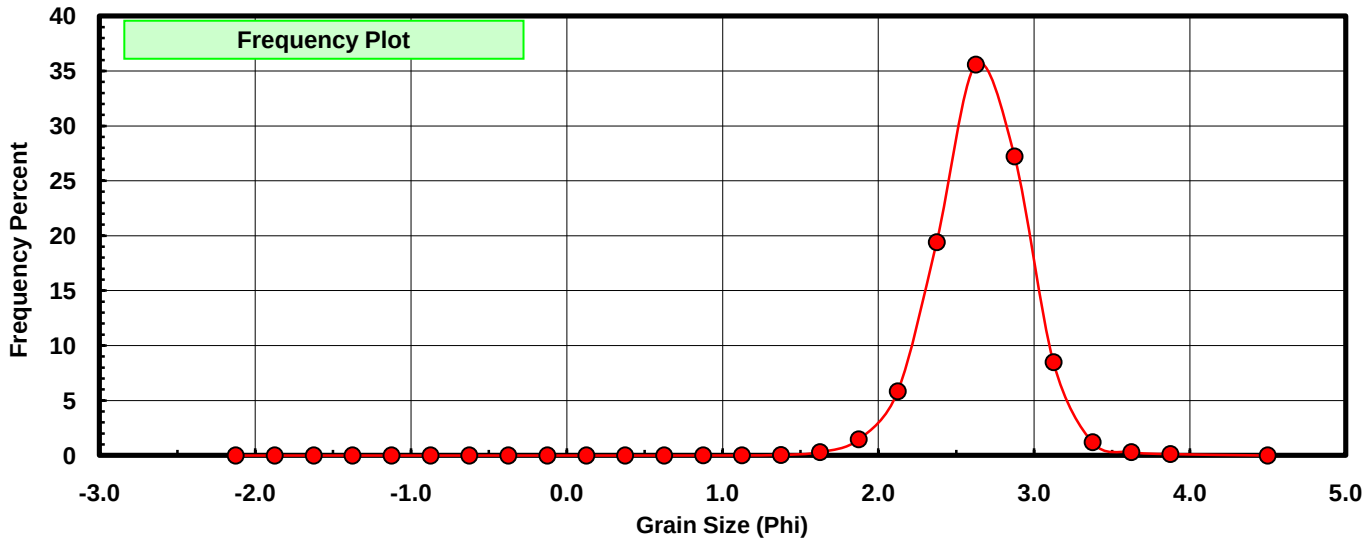

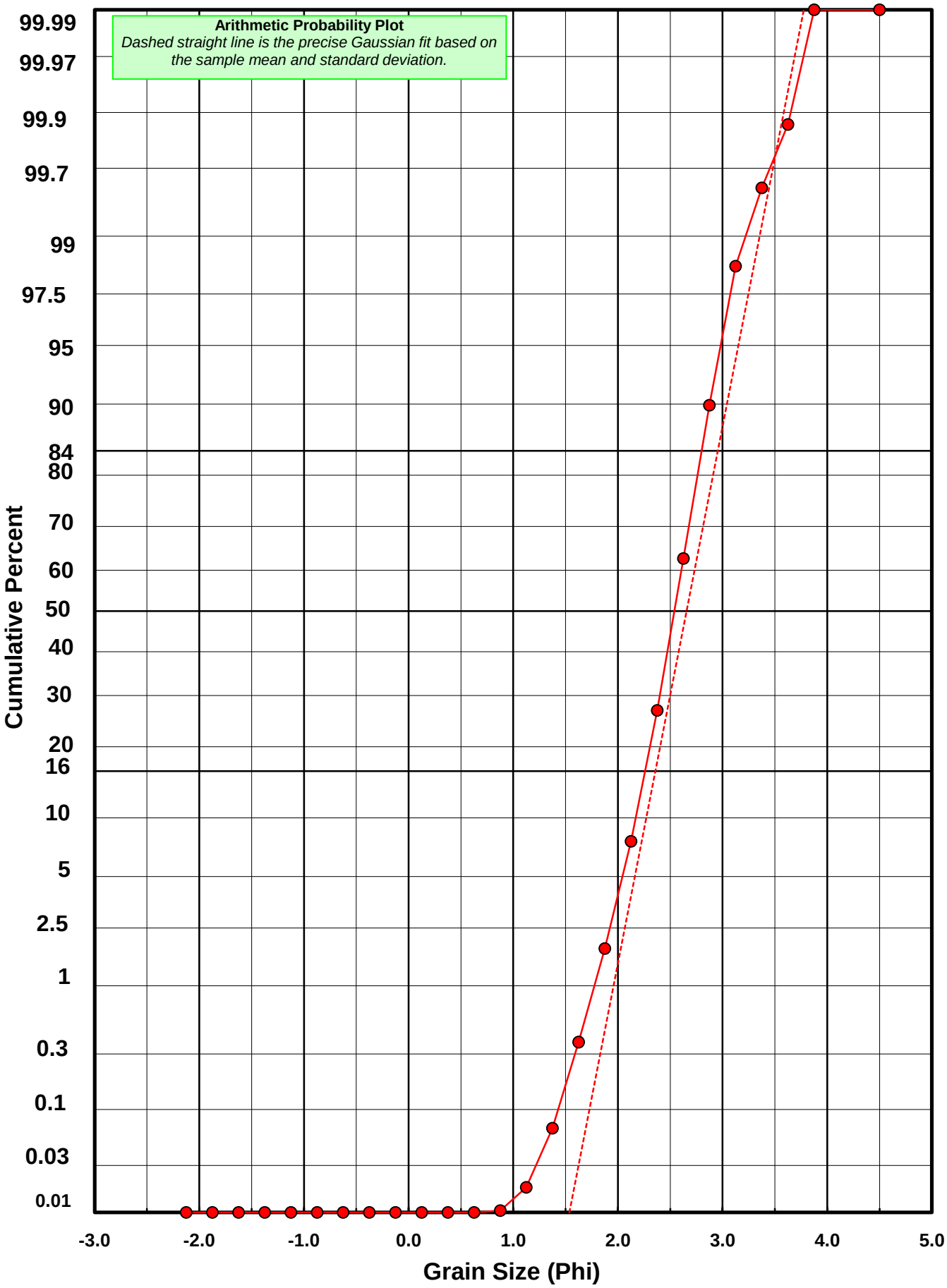
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10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)