Onshore Grab Sample

Sample: DU-04-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 20' 50.7"
Longitude: 81° 23' 45.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	71.14	grams
Total Fines in Sample	0.489	grams
Total Percent Fines	0.68	%

Dry Sieving Summary

Total Sample Weight	70.646	grams
Total Digested Weight	69.590	grams
Total Carbonate Weight	1.056	grams
Total Silica %	98.51	%
Total Carbonate %	1.49	%
Carbonate/Silica Ratio	0.015	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-04-SS

Total Sample Mass: 70.646 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	0.018	0.025	0.025
-0.50	-0.625	0.000	0.000	0.025
-0.25	-0.375	0.026	0.037	0.062
0.00	-0.125	0.031	0.044	0.106
0.25	0.125	0.061	0.086	0.193
0.50	0.375	0.060	0.085	0.277
0.75	0.625	0.102	0.144	0.422
1.00	0.875	0.261	0.369	0.791
1.25	1.125	0.306	0.433	1.224
1.50	1.375	0.546	0.773	1.997
1.75	1.625	1.138	1.611	3.608
2.00	1.875	2.989	4.231	7.839
2.25	2.125	7.125	10.085	17.925
2.50	2.375	15.350	21.728	39.653
2.75	2.625	22.083	31.259	70.911
3.00	2.875	13.933	19.722	90.634
3.25	3.125	5.101	7.221	97.854
3.50	3.375	1.236	1.750	99.604
3.75	3.625	0.243	0.344	99.948
4.00	3.875	0.028	0.040	99.987
5.00	4.500	0.009	0.013	100.000

Statistical Results			
Mean:	2.5423	phi	(0.1717 mm)
Standard Dev:	0.4213	phi-units	(0.7468 mm)
Skewness:	-1.2982	dimensionless	
Kurtosis:	8.4313	dimensionless	
5th Moment:	-37.3456	dimensionless	
6th Moment:	234.9441	dimensionless	
RARD *	0.1657	dimensionless	
Median	2.4578	phi	(0.182 mm)

* RARD = reciprocal absolute relative dispersion (see below)

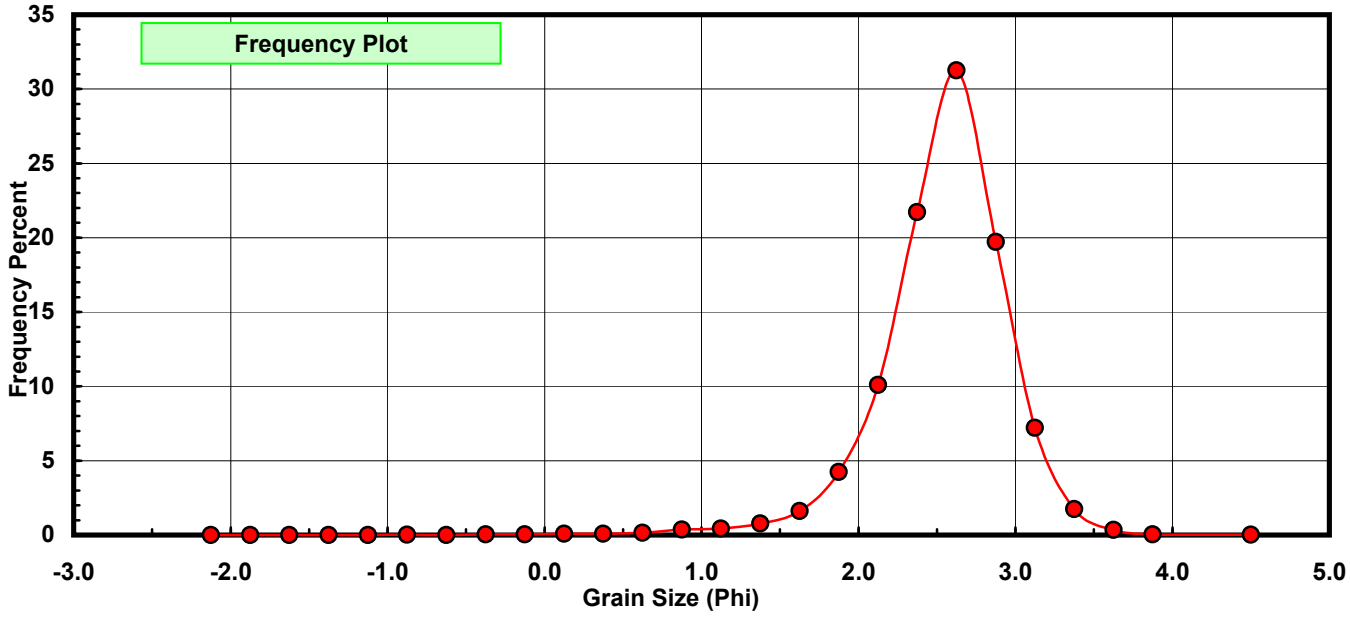
Statistical Explanation

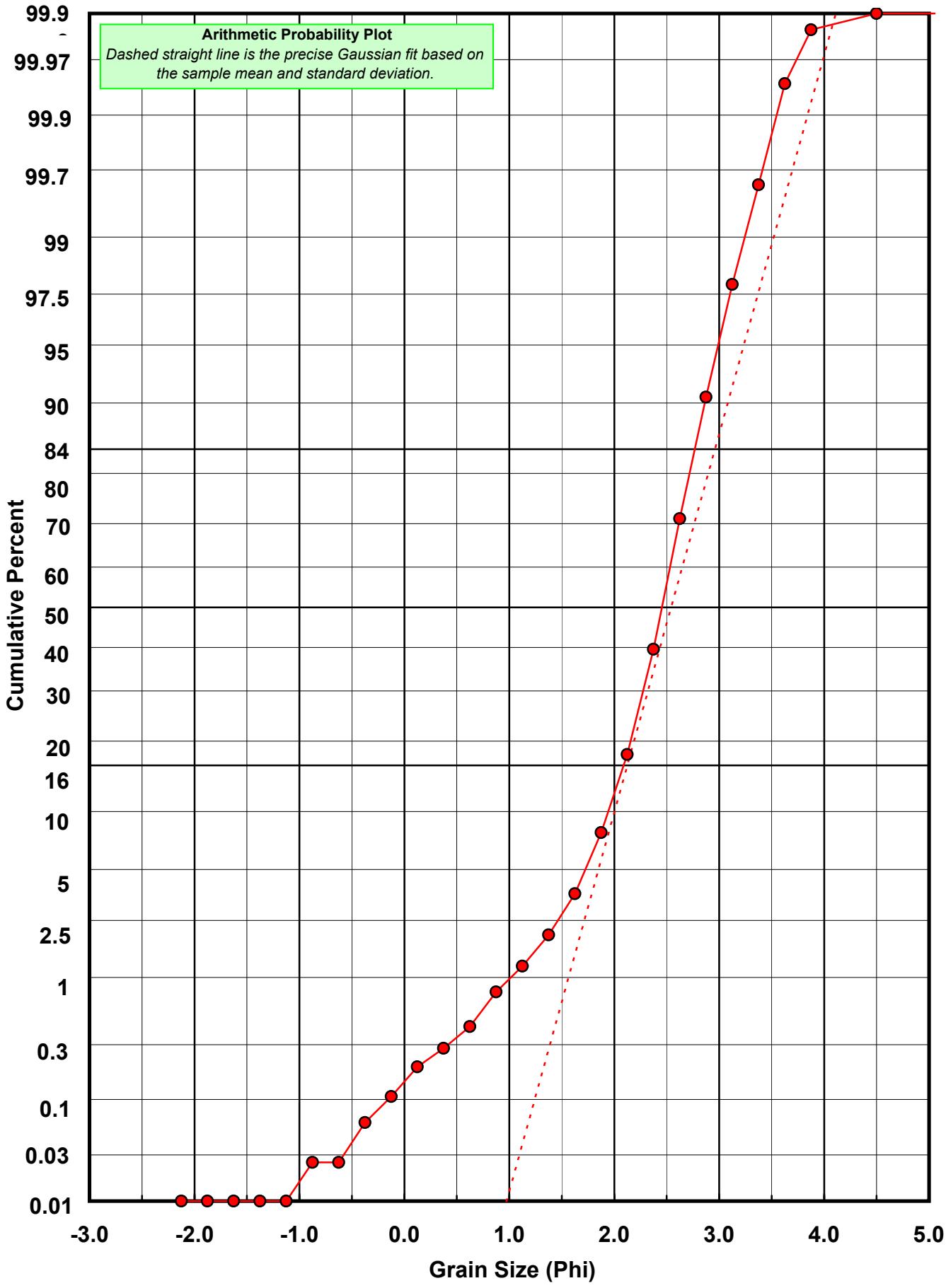
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-04-SS

Total Carbonate Mass: 1.631 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	0.000	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	0.018	1.104	1.104
-0.50	-0.625	0.000	0.000	1.104
-0.25	-0.375	0.020	1.226	2.330
0.00	-0.125	0.027	1.655	3.985
0.25	0.125	0.042	2.575	6.560
0.50	0.375	0.029	1.778	8.338
0.75	0.625	0.039	2.391	10.730
1.00	0.875	0.078	4.782	15.512
1.25	1.125	0.047	2.882	18.394
1.50	1.375	0.060	3.679	22.072
1.75	1.625	0.088	5.395	27.468
2.00	1.875	0.000	0.000	27.468
2.25	2.125	0.450	27.590	55.058
2.50	2.375	0.527	32.311	87.370
2.75	2.625	0.080	4.905	92.275
3.00	2.875	0.000	0.000	92.275
3.25	3.125	0.042	2.575	94.850
3.50	3.375	0.075	4.598	99.448
3.75	3.625	0.008	0.490	99.939
4.00	3.875	0.001	0.061	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.9593	phi	(0.2572 mm)
Standard Dev:	0.8510	phi-units	(0.5544 mm)
Skewness:	-1.1251	dimensionless	
Kurtosis:	4.2909	dimensionless	
5th Moment:	-8.9892	dimensionless	
6th Moment:	29.2802	dimensionless	
RARD *	0.4344	dimensionless	
Median	2.0792	phi	(0.2367 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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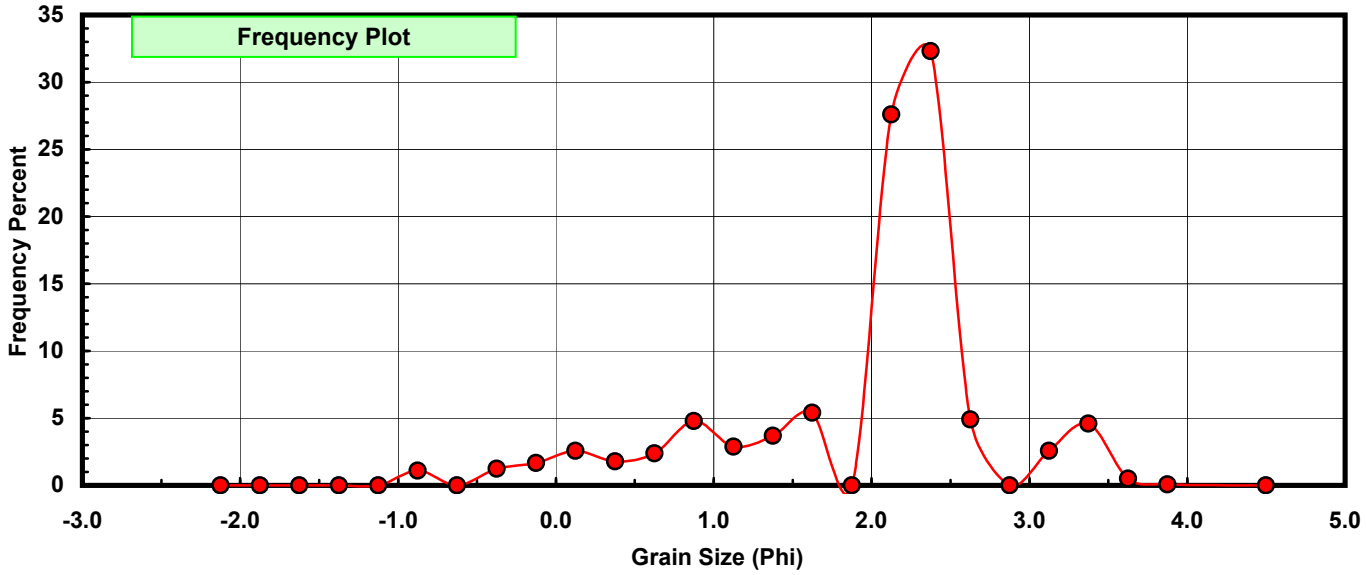
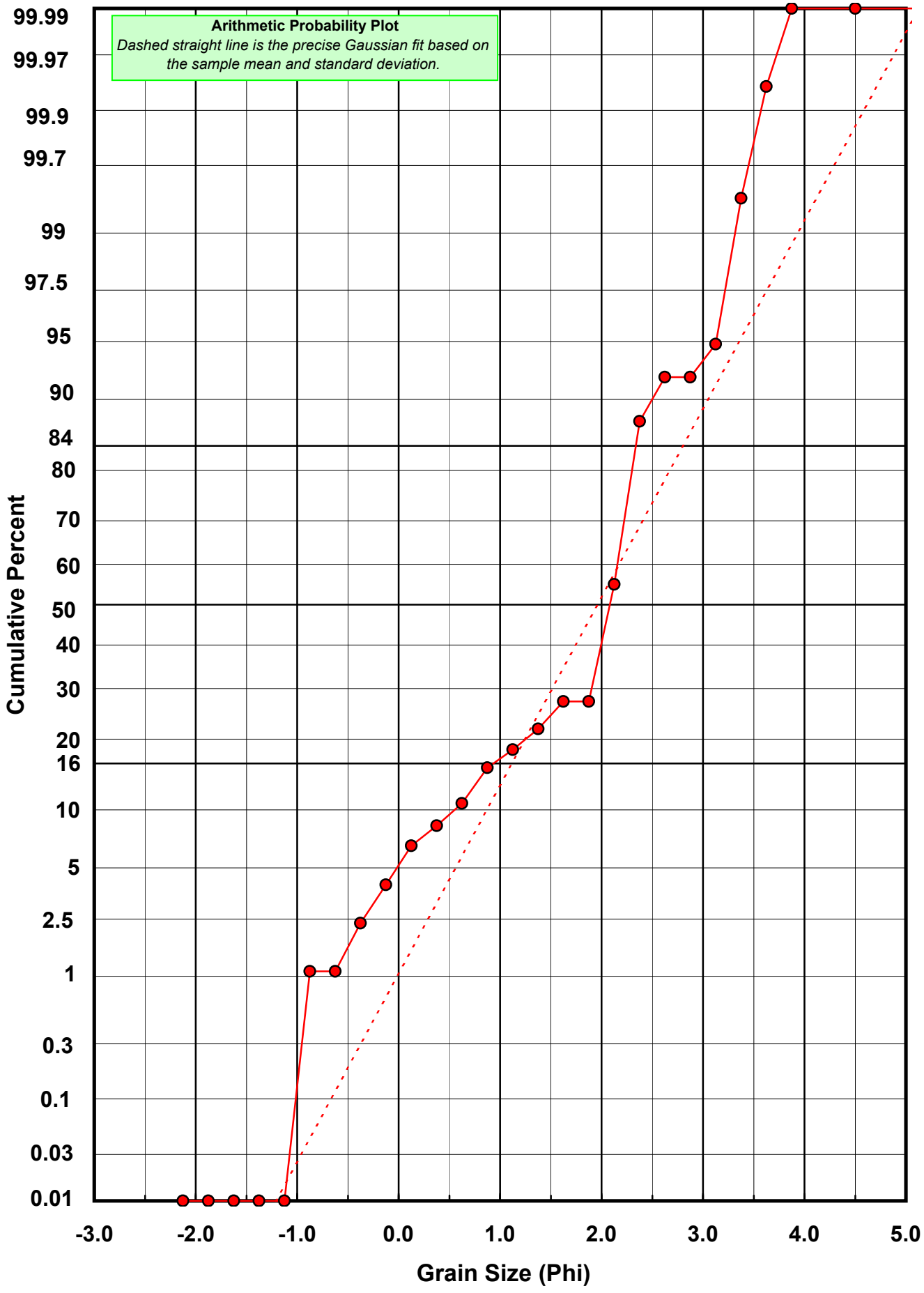
0.5 to 1.0	Good homogeneity
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)




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-04-SS

Total Digested Mass: 69.584 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	0.000	0.000	0.000
-0.25	-0.375	0.006	0.009	0.009
0.00	-0.125	0.004	0.006	0.014
0.25	0.125	0.019	0.027	0.042
0.50	0.375	0.031	0.045	0.086
0.75	0.625	0.063	0.091	0.177
1.00	0.875	0.183	0.263	0.440
1.25	1.125	0.259	0.372	0.812
1.50	1.375	0.486	0.698	1.510
1.75	1.625	1.050	1.509	3.019
2.00	1.875	3.000	4.311	7.331
2.25	2.125	6.675	9.593	16.923
2.50	2.375	14.823	21.302	38.226
2.75	2.625	22.003	31.621	69.847
3.00	2.875	14.500	20.838	90.685
3.25	3.125	5.059	7.270	97.955
3.50	3.375	1.161	1.668	99.623
3.75	3.625	0.235	0.338	99.961
4.00	3.875	0.027	0.039	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5584	phi	(0.1698 mm)
Standard Dev:	0.3939	phi-units	(0.7611 mm)
Skewness:	-0.9069	dimensionless	
Kurtosis:	5.8715	dimensionless	
5th Moment:	-18.4441	dimensionless	
6th Moment:	100.4175	dimensionless	
RARD *	0.1540	dimensionless	
Median	2.4681	phi	(0.1807 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

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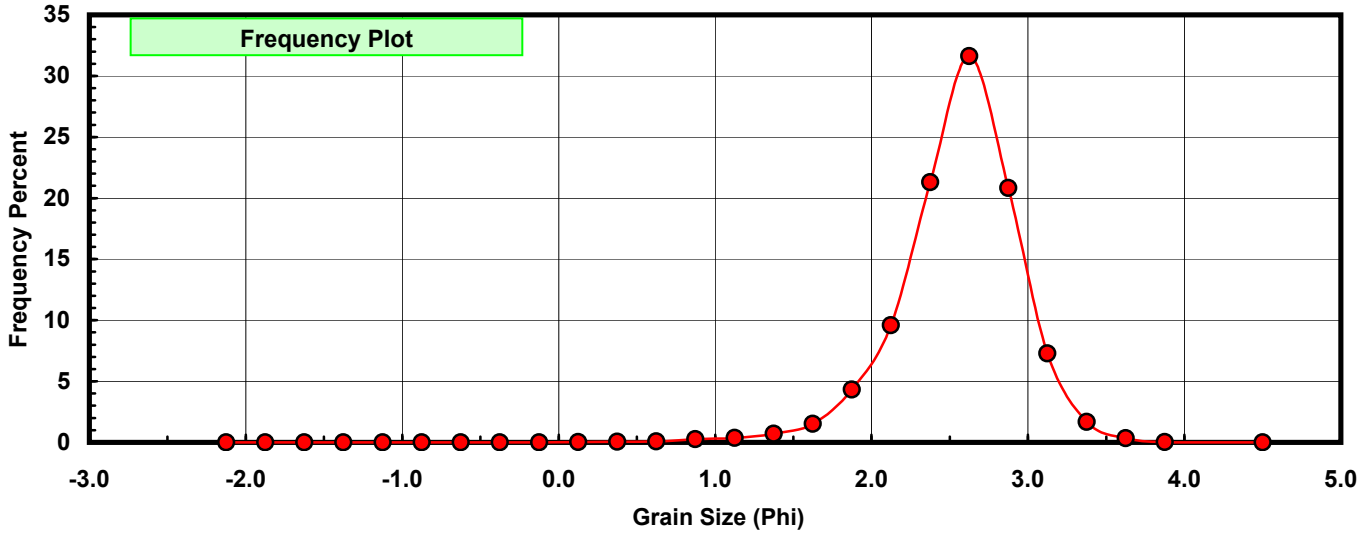

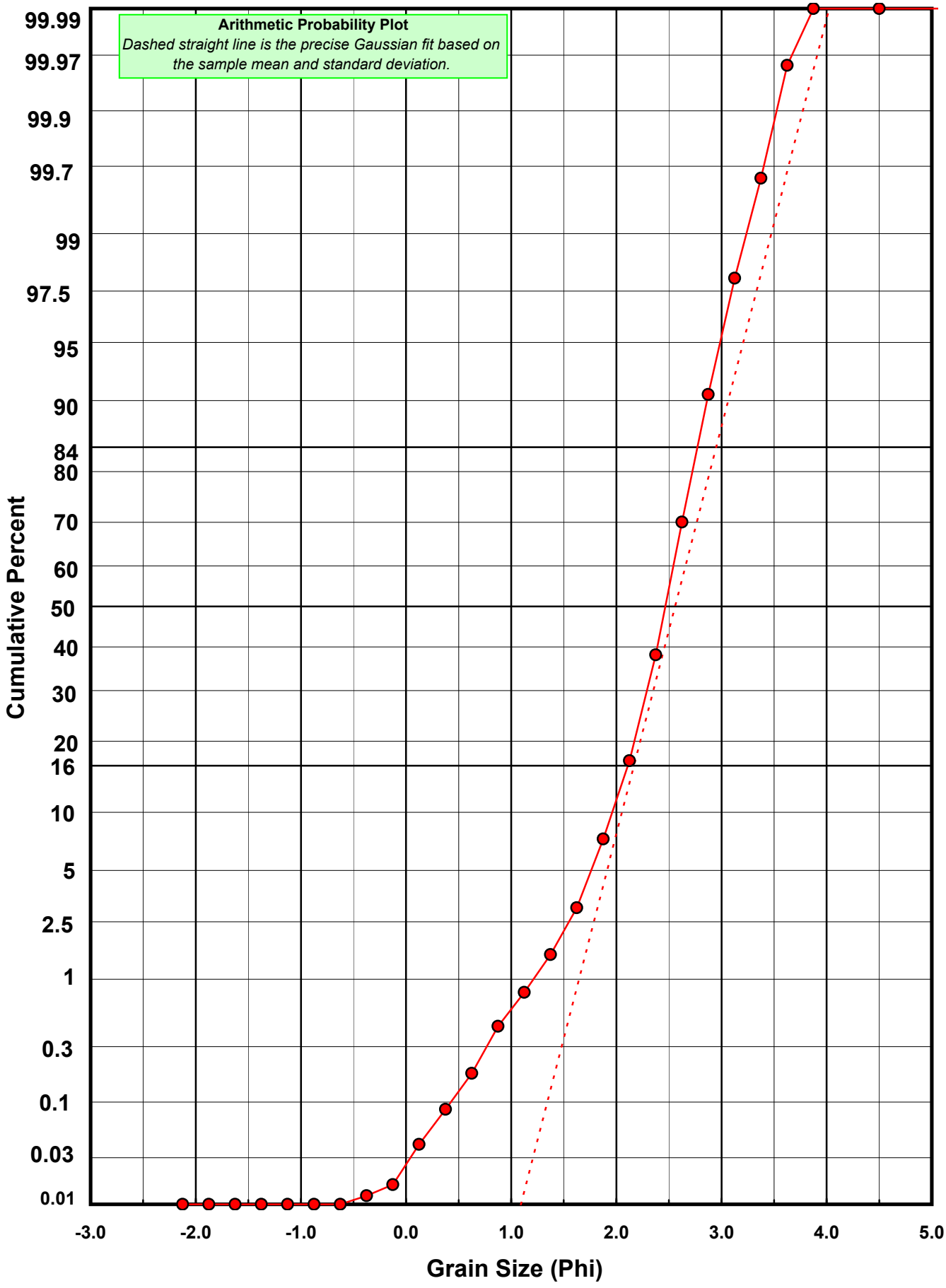
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0.1
0.03
0.01
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-2.0
-1.0
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Grain Size (Phi)