Onshore Grab Sample

Sample: DU-14-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 27' 49.6"
Longitude: 81° 24' 40.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	81.067	grams
Total Fines in Sample	0.610	grams
Total Percent Fines	0.75	%

Dry Sieving Summary

Total Sample Weight	80.570	grams
Total Digested Weight	79.051	grams
Total Carbonate Weight	1.519	grams
Total Silica %	98.11	%
Total Carbonate %	1.89	%
Carbonate/Silica Ratio	0.019	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-14-SS

Total Sample Mass: 80.570 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	0.013	0.016	0.016
-1.00	-1.125	0.000	0.000	0.016
-0.75	-0.875	0.000	0.000	0.016
-0.50	-0.625	0.006	0.007	0.024
-0.25	-0.375	0.000	0.000	0.024
0.00	-0.125	0.001	0.001	0.025
0.25	0.125	0.003	0.004	0.029
0.50	0.375	0.004	0.005	0.034
0.75	0.625	0.005	0.006	0.040
1.00	0.875	0.016	0.020	0.060
1.25	1.125	0.025	0.031	0.091
1.50	1.375	0.102	0.127	0.217
1.75	1.625	0.468	0.581	0.798
2.00	1.875	2.455	3.047	3.845
2.25	2.125	7.140	8.862	12.707
2.50	2.375	16.425	20.386	33.093
2.75	2.625	26.730	33.176	66.269
3.00	2.875	17.874	22.184	88.454
3.25	3.125	5.966	7.405	95.858
3.50	3.375	1.684	2.090	97.948
3.75	3.625	1.184	1.470	99.418
4.00	3.875	0.358	0.444	99.862
5.00	4.500	0.111	0.138	100.000

Statistical Results			
Mean:	2.6284	phi	(0.1617 mm)
Standard Dev:	0.3710	phi-units	(0.7733 mm)
Skewness:	0.0061	dimensionless	
Kurtosis:	7.3239	dimensionless	
5th Moment:	-23.4581	dimensionless	
6th Moment:	349.5274	dimensionless	
RARD *	0.1411	dimensionless	
Median	2.5024	phi	(0.1765 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

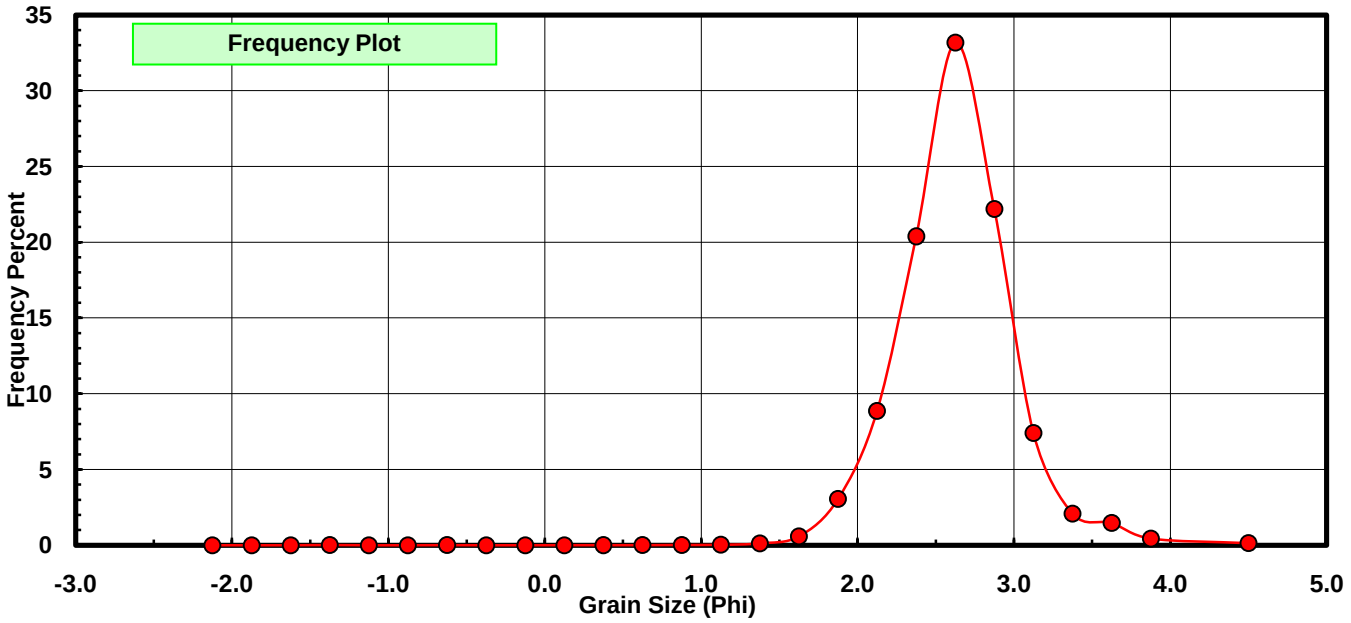
Statistical Explanation

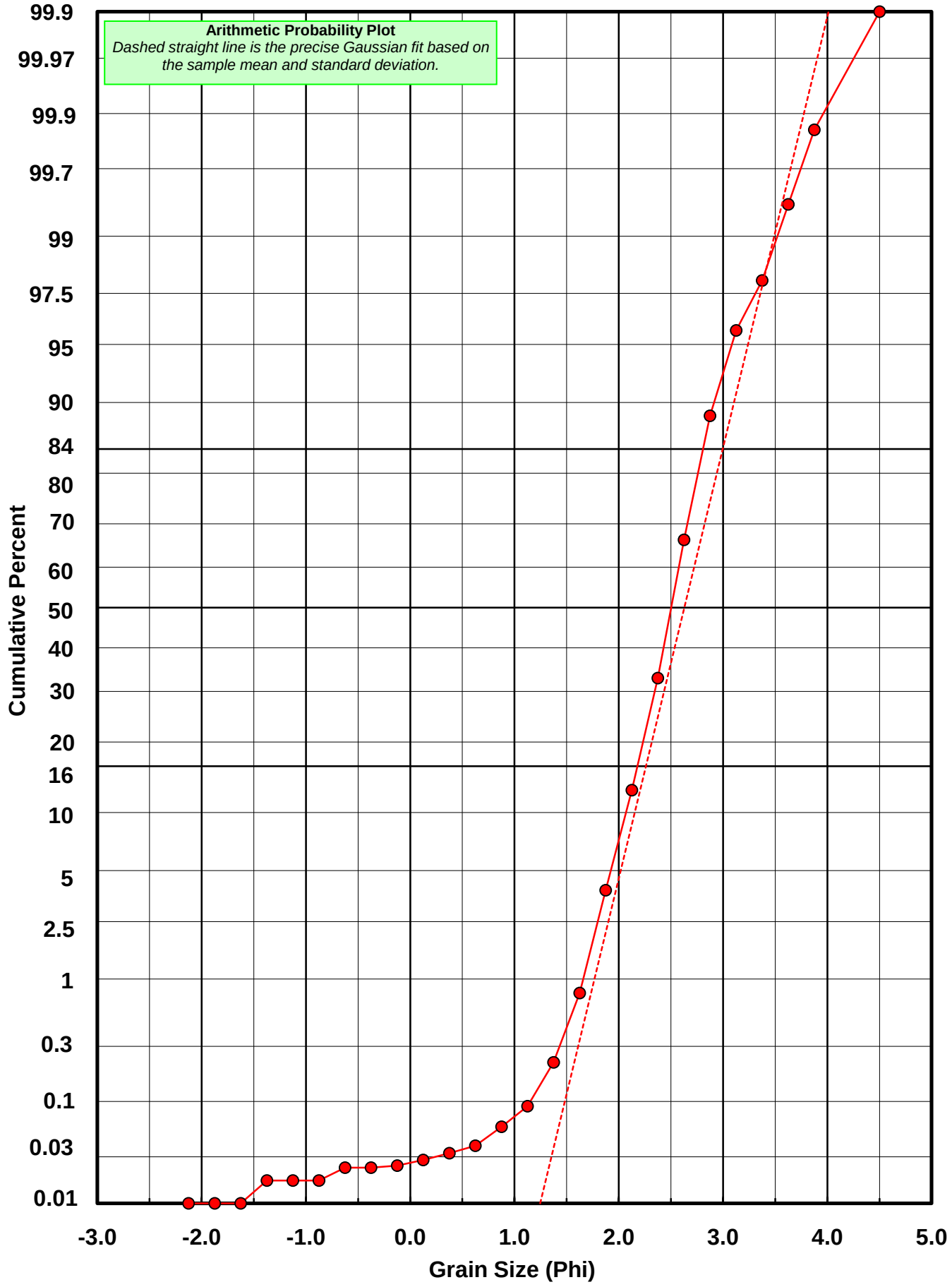
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-14-SS

Total Carbonate Mass: 3.928 grams

% Carbonate: 1.9 %

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	0.013	0.331	0.331
-1.00	-1.125	0.000	0.000	0.331
-0.75	-0.875	0.000	0.000	0.331
-0.50	-0.625	0.006	0.153	0.484
-0.25	-0.375	0.000	0.000	0.484
0.00	-0.125	0.001	0.025	0.509
0.25	0.125	0.003	0.076	0.586
0.50	0.375	0.004	0.102	0.687
0.75	0.625	0.000	0.000	0.687
1.00	0.875	0.011	0.280	0.967
1.25	1.125	0.005	0.127	1.095
1.50	1.375	0.012	0.305	1.400
1.75	1.625	0.000	0.000	1.400
2.00	1.875	0.123	3.131	4.532
2.25	2.125	0.000	0.000	4.532
2.50	2.375	0.000	0.000	4.532
2.75	2.625	0.525	13.366	17.897
3.00	2.875	1.806	45.978	63.875
3.25	3.125	1.197	30.474	94.348
3.50	3.375	0.180	4.582	98.931
3.75	3.625	0.027	0.687	99.618
4.00	3.875	0.015	0.382	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.8811	phi	(0.1357 mm)
Standard Dev:	0.4390	phi-units	(0.7377 mm)
Skewness:	-4.9348	dimensionless	
Kurtosis:	41.3941	dimensionless	
5th Moment:	-360.5037	dimensionless	
6th Moment:	3294.3638	dimensionless	
RARD *	0.1524	dimensionless	
Median	2.7996	phi	(0.1436 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
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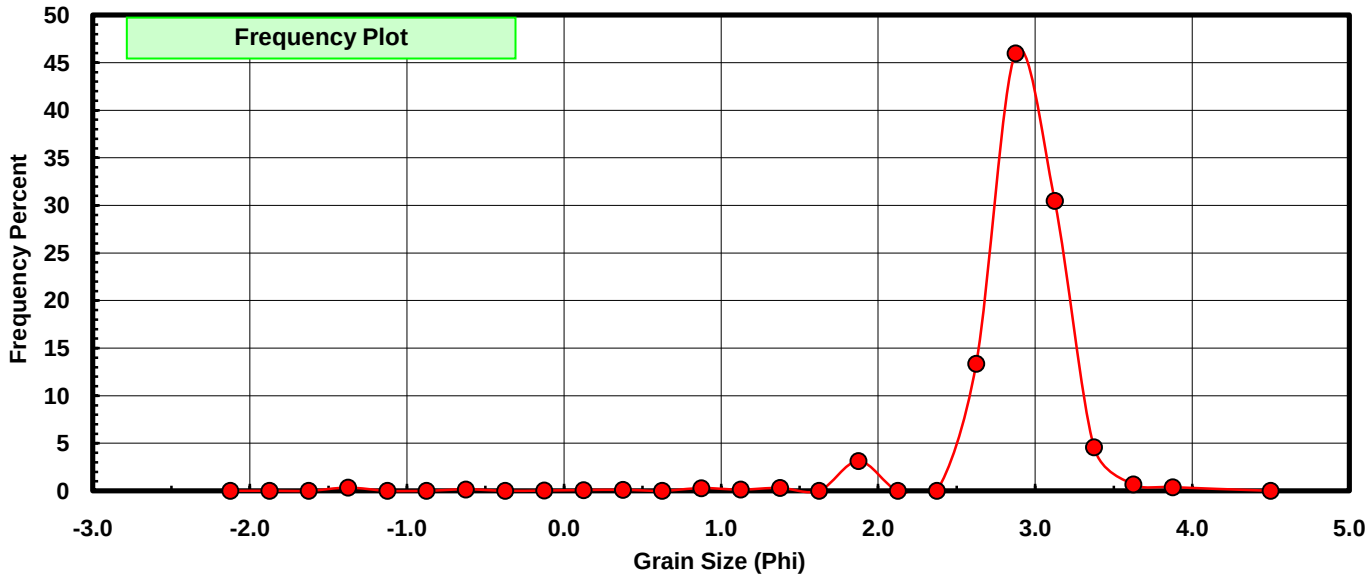

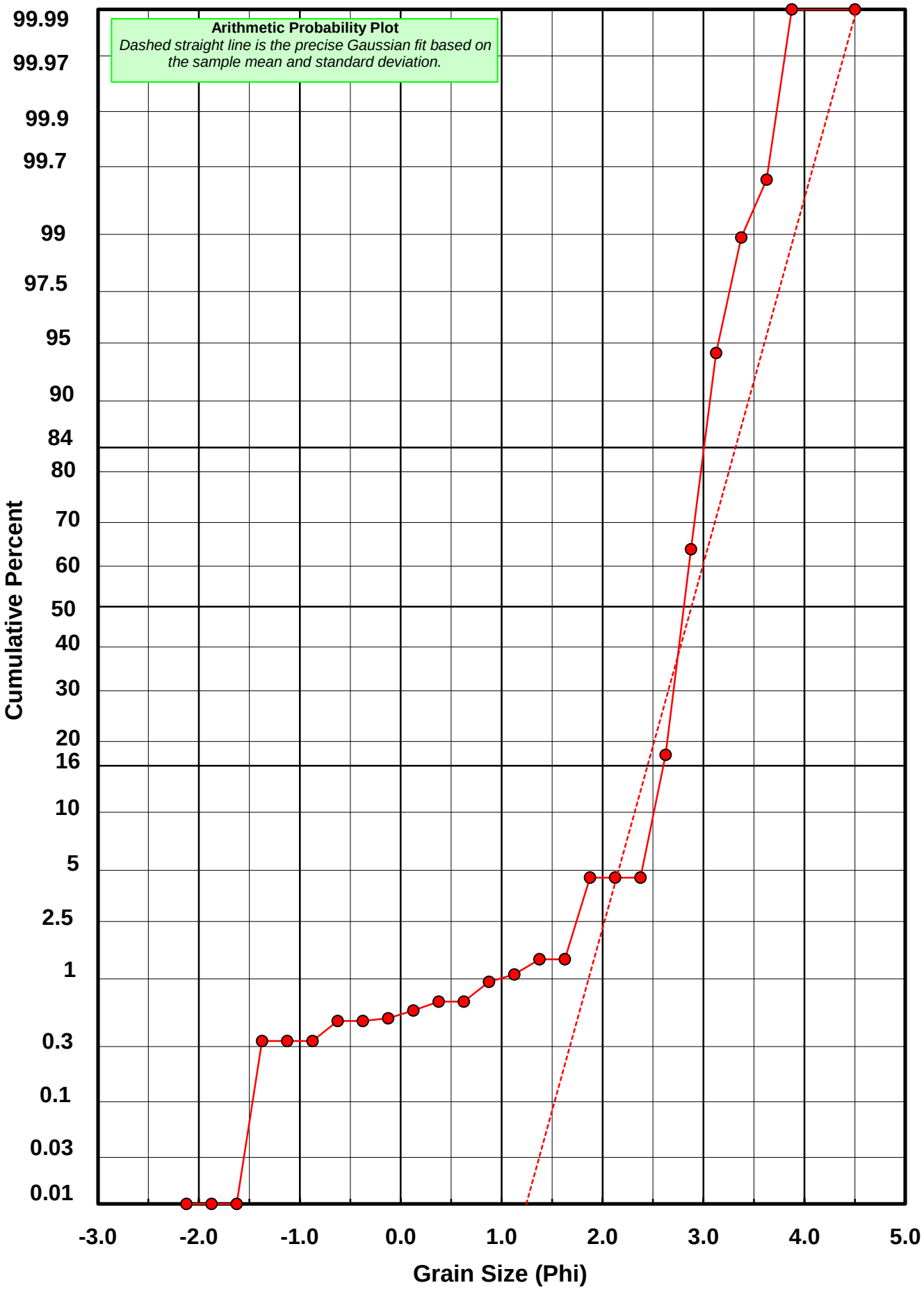
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-14-SS

Total Digested Mass: 78.948 grams

% Silica: 98.1 %

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	0.006	0.008	0.008
1.00	0.875	0.005	0.006	0.014
1.25	1.125	0.020	0.025	0.039
1.50	1.375	0.090	0.114	0.153
1.75	1.625	0.508	0.643	0.797
2.00	1.875	2.332	2.954	3.751
2.25	2.125	7.501	9.501	13.252
2.50	2.375	18.440	23.357	36.609
2.75	2.625	26.205	33.193	69.802
3.00	2.875	16.068	20.353	90.154
3.25	3.125	4.769	6.041	96.195
3.50	3.375	1.504	1.905	98.100
3.75	3.625	1.157	1.466	99.566
4.00	3.875	0.343	0.434	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6039	phi	(0.1645 mm)
Standard Dev:	0.3541	phi-units	(0.7824 mm)
Skewness:	0.2578	dimensionless	
Kurtosis:	4.1876	dimensionless	
5th Moment:	2.8792	dimensionless	
6th Moment:	33.0631	dimensionless	
RARD *	0.1360	dimensionless	
Median	2.4759	phi	(0.1798 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation

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

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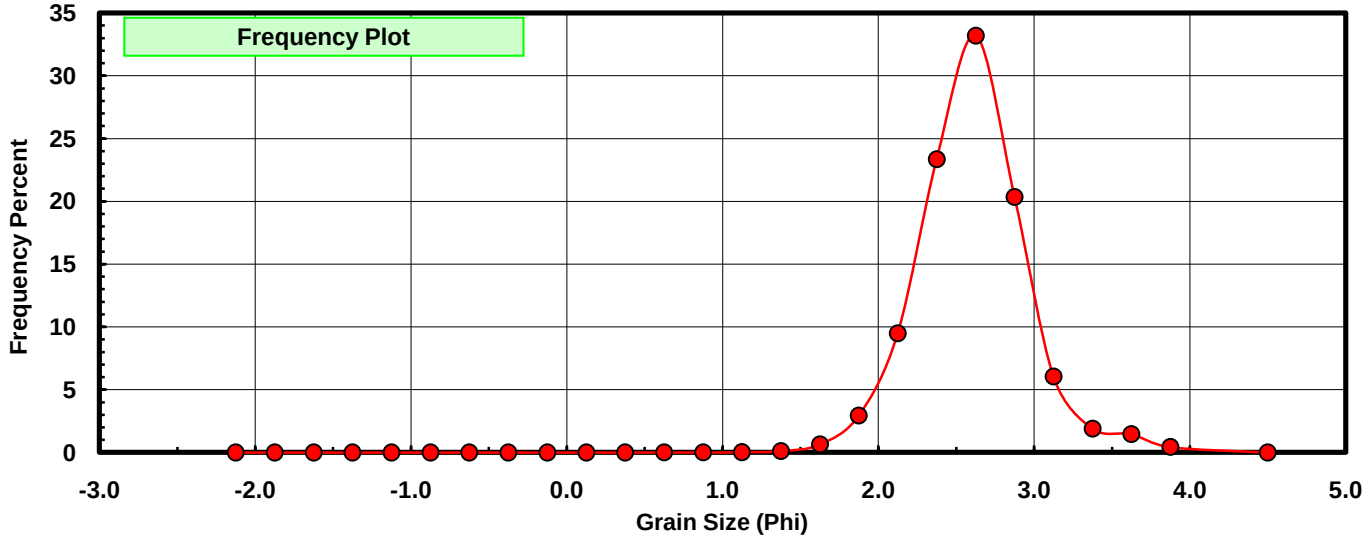

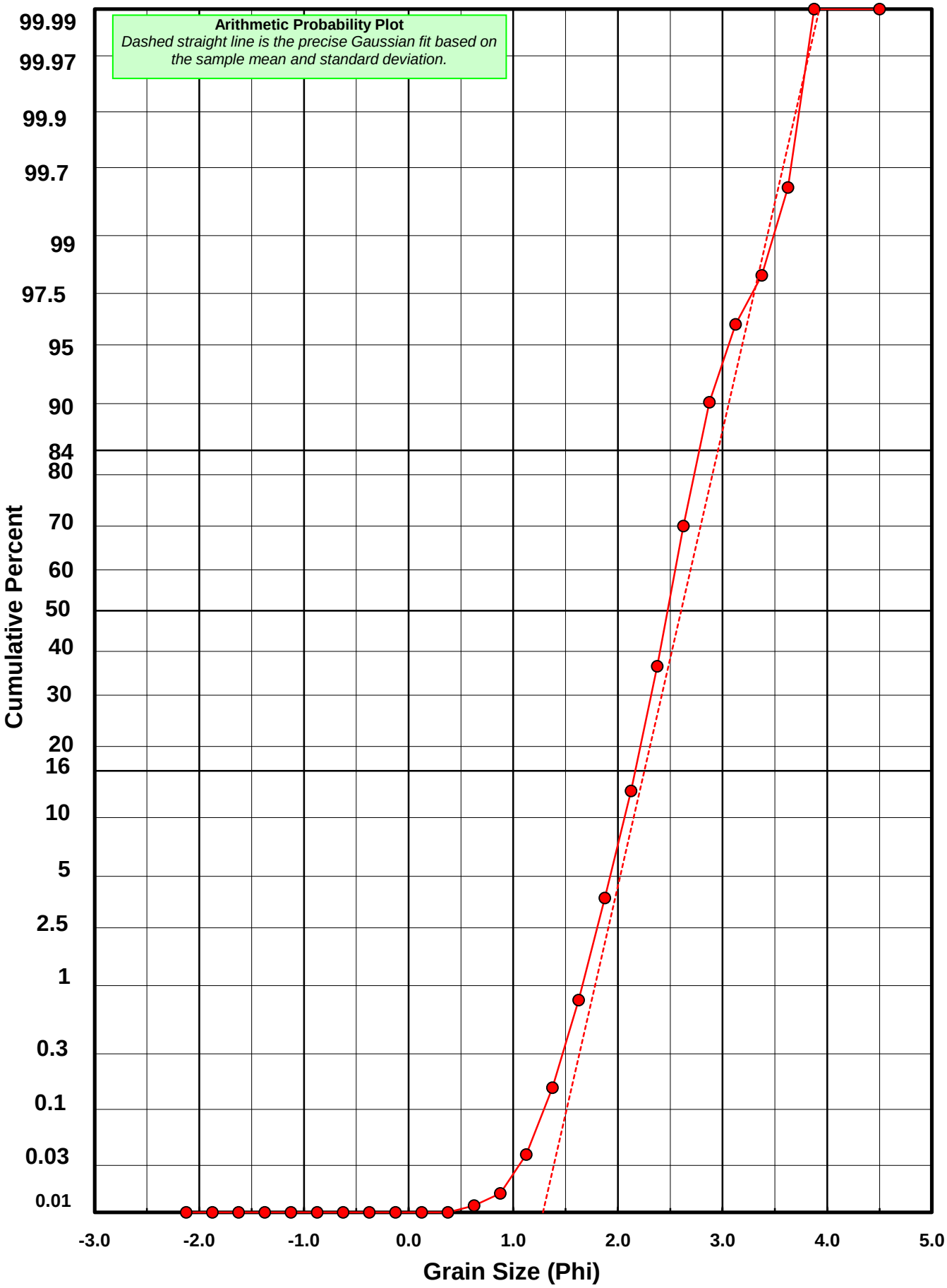
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-2.0
-1.0
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Grain Size (Phi)