Onshore Grab Sample

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

County: Duval
Latitude: 30° 27' 49.8"
Longitude: 81° 24' 41.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	53.423	grams
Total Fines in Sample	0.040	grams
Total Percent Fines	0.07	%

Dry Sieving Summary

Total Sample Weight	53.400	grams
Total Digested Weight	52.105	grams
Total Carbonate Weight	1.295	grams
Total Silica %	97.57	%
Total Carbonate %	2.43	%
Carbonate/Silica Ratio	0.025	

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-BB

Total Sample Mass: 53.400 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	0.002	0.004	0.004
0.75	0.625	0.005	0.009	0.013
1.00	0.875	0.003	0.006	0.019
1.25	1.125	0.008	0.015	0.034
1.50	1.375	0.013	0.024	0.058
1.75	1.625	0.086	0.161	0.219
2.00	1.875	0.762	1.427	1.646
2.25	2.125	4.481	8.391	10.037
2.50	2.375	13.904	26.037	36.075
2.75	2.625	18.051	33.803	69.878
3.00	2.875	10.381	19.440	89.318
3.25	3.125	3.495	6.545	95.863
3.50	3.375	1.295	2.425	98.288
3.75	3.625	0.701	1.313	99.601
4.00	3.875	0.174	0.326	99.927
5.00	4.500	0.039	0.073	100.000

Statistical Results			
Mean:	2.6228	phi	(0.1624 mm)
Standard Dev:	0.3368	phi-units	(0.7918 mm)
Skewness:	0.5827	dimensionless	
Kurtosis:	4.7186	dimensionless	
5th Moment:	7.7191	dimensionless	
6th Moment:	58.5096	dimensionless	
RARD *	0.1284	dimensionless	
Median	2.4780	phi	(0.1795 mm)

* RARD = reciprocal absolute relative dispersion (see below)

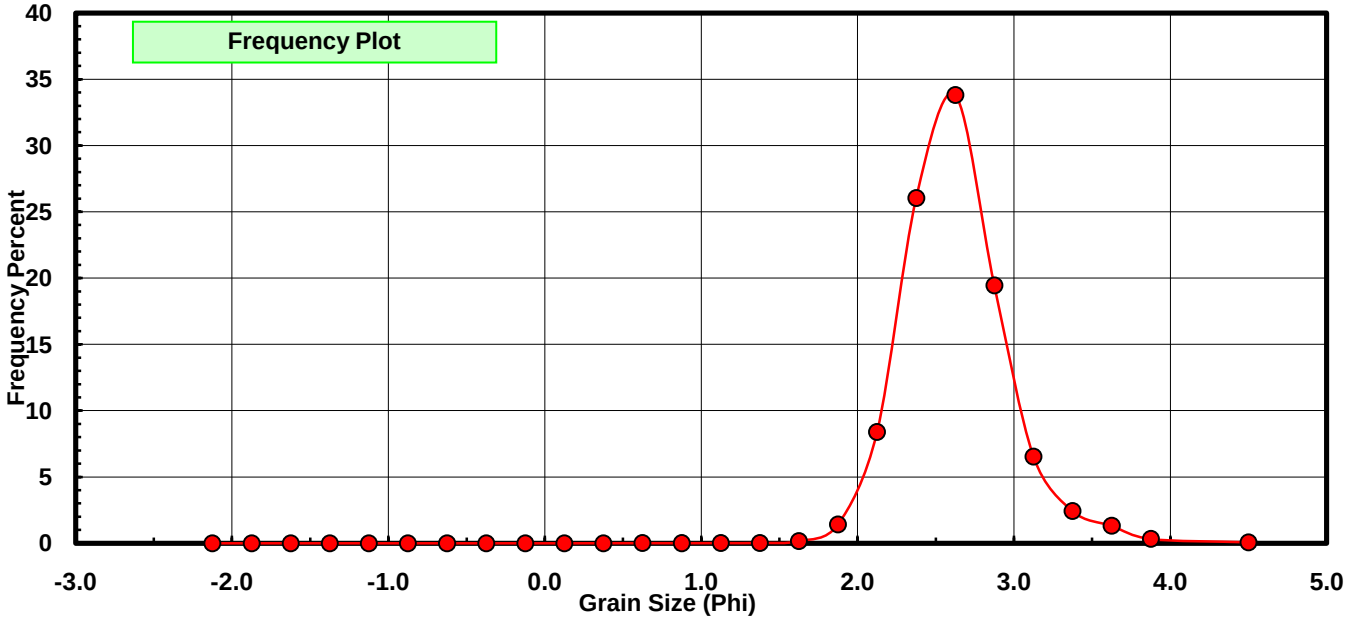
Statistical Explanation

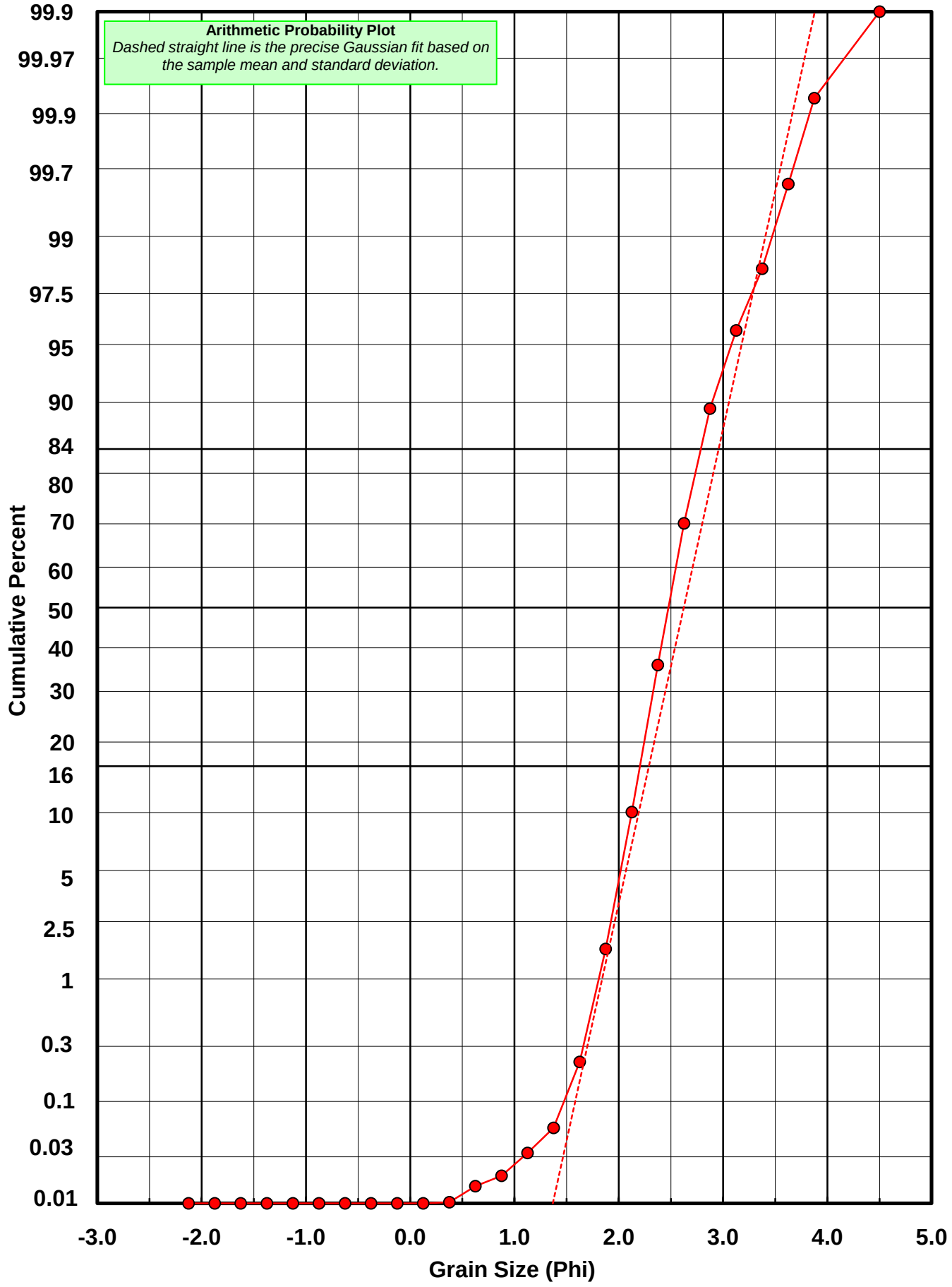
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-BB

Total Carbonate Mass: 1.792 grams

% Carbonate: 2.4 %

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	0.002	0.112	0.112
0.75	0.625	0.000	0.000	0.112
1.00	0.875	0.000	0.000	0.112
1.25	1.125	0.002	0.112	0.223
1.50	1.375	0.000	0.000	0.223
1.75	1.625	0.000	0.000	0.223
2.00	1.875	0.043	2.400	2.623
2.25	2.125	0.089	4.967	7.589
2.50	2.375	0.000	0.000	7.589
2.75	2.625	0.253	14.118	21.708
3.00	2.875	0.938	52.344	74.051
3.25	3.125	0.305	17.020	91.071
3.50	3.375	0.093	5.190	96.261
3.75	3.625	0.067	3.739	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:	2.8703	phi	(0.1368 mm)
Standard Dev:	0.3402	phi-units	(0.7899 mm)
Skewness:	-1.1172	dimensionless	
Kurtosis:	8.1486	dimensionless	
5th Moment:	-32.8859	dimensionless	
6th Moment:	219.5157	dimensionless	
RARD *	0.1185	dimensionless	
Median	2.7601	phi	(0.1476 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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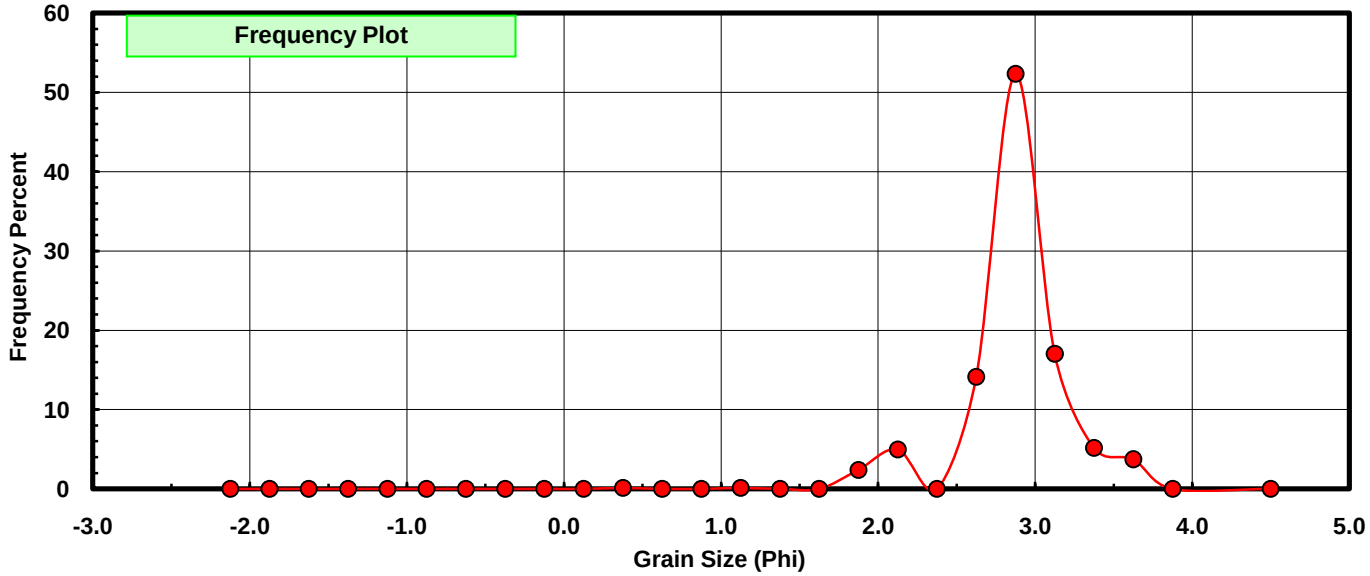

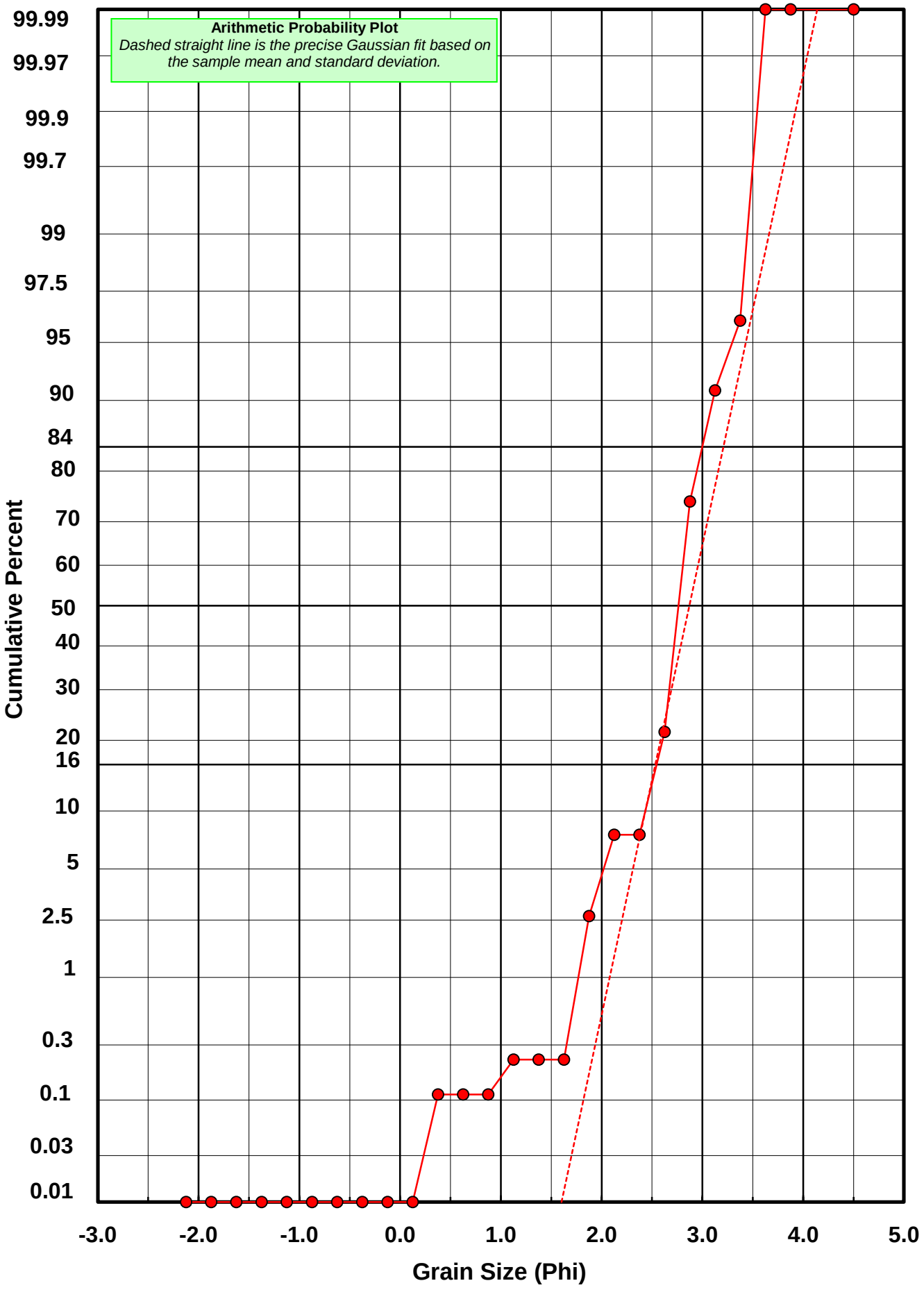
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-14-BB

Total Digested Mass: 52.068 grams

% Silica: 97.6 %

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	0.005	0.010	0.010
1.00	0.875	0.004	0.008	0.017
1.25	1.125	0.006	0.012	0.029
1.50	1.375	0.017	0.033	0.061
1.75	1.625	0.101	0.194	0.255
2.00	1.875	0.719	1.381	1.636
2.25	2.125	4.392	8.435	10.071
2.50	2.375	14.371	27.600	37.672
2.75	2.625	17.798	34.182	71.854
3.00	2.875	9.443	18.136	89.990
3.25	3.125	3.190	6.127	96.117
3.50	3.375	1.202	2.309	98.425
3.75	3.625	0.634	1.218	99.643
4.00	3.875	0.186	0.357	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6105	phi	(0.1637 mm)
Standard Dev:	0.3297	phi-units	(0.7957 mm)
Skewness:	0.5457	dimensionless	
Kurtosis:	4.3149	dimensionless	
5th Moment:	5.2068	dimensionless	
6th Moment:	39.0299	dimensionless	
RARD *	0.1263	dimensionless	
Median	2.4652	phi	(0.1811 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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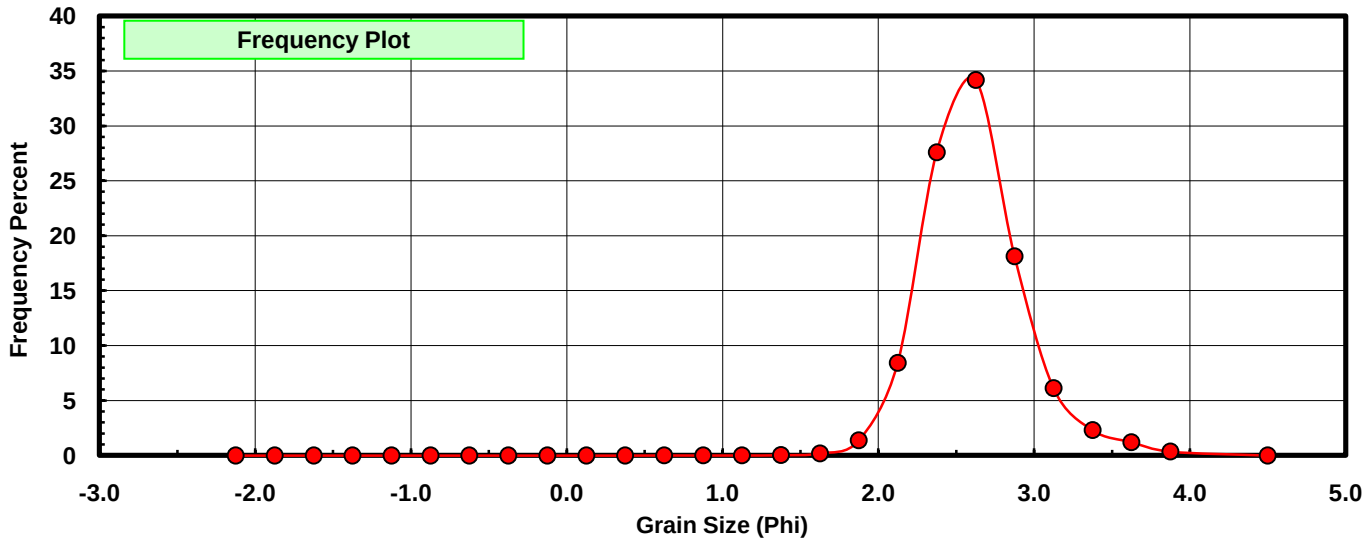

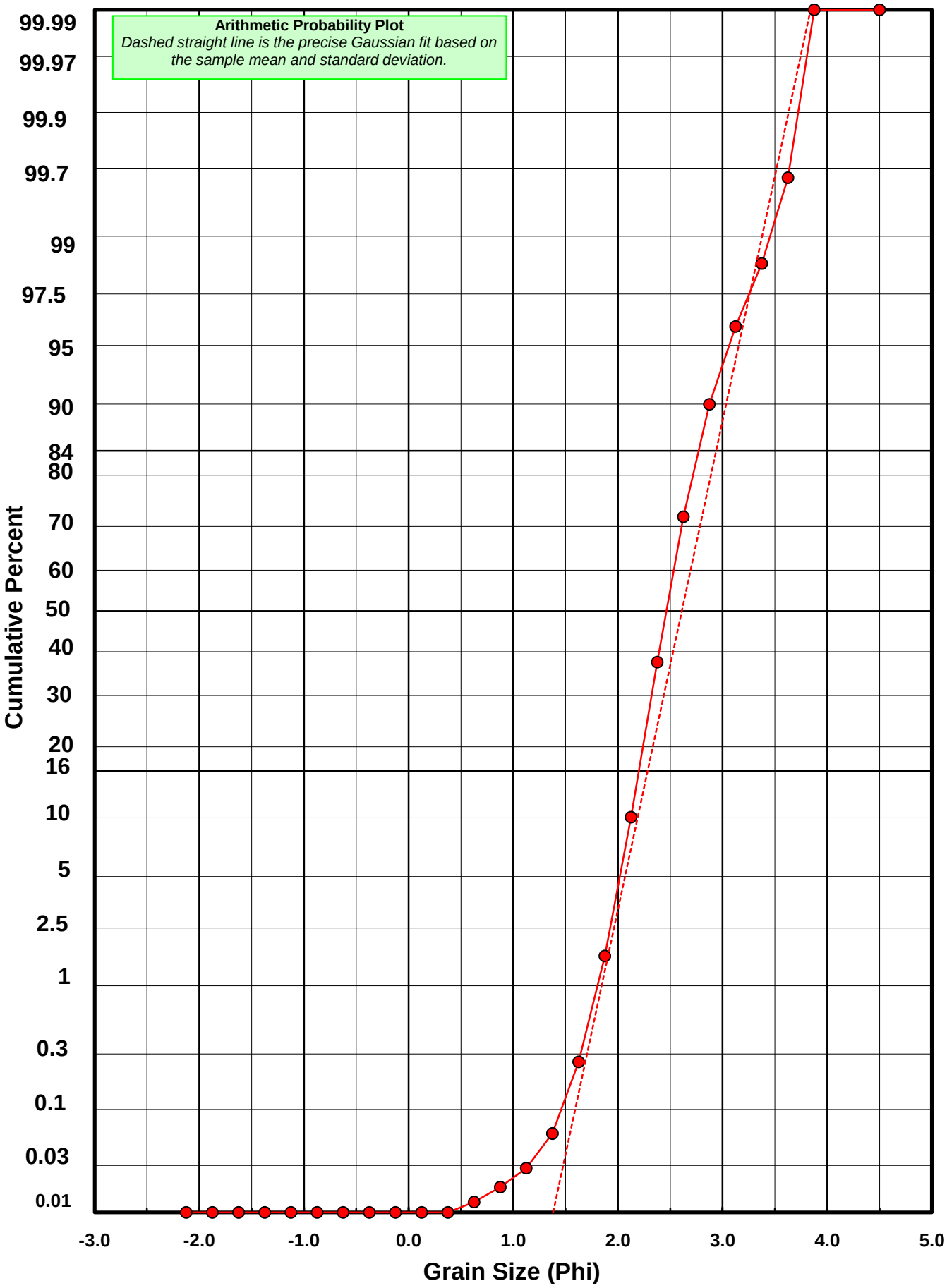
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0.03
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-2.0
-1.0
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Grain Size (Phi)