Onshore Grab Sample

Sample: DU-06-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 19' 6.0"
Longitude: 81° 23' 36.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	49.918	grams
Total Fines in Sample	0.039	grams
Total Percent Fines	0.08	%

Dry Sieving Summary

Total Sample Weight	49.862	grams
Total Digested Weight	49.568	grams
Total Carbonate Weight	0.294	grams
Total Silica %	99.41	%
Total Carbonate %	0.59	%
Carbonate/Silica Ratio	0.006	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-06-BB

Total Sample Mass: 49.862 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	0.003	0.006	0.006
0.00	-0.125	0.000	0.000	0.006
0.25	0.125	0.000	0.000	0.006
0.50	0.375	0.004	0.008	0.014
0.75	0.625	0.007	0.014	0.028
1.00	0.875	0.001	0.002	0.030
1.25	1.125	0.016	0.032	0.062
1.50	1.375	0.036	0.072	0.134
1.75	1.625	0.147	0.295	0.429
2.00	1.875	2.634	5.283	5.712
2.25	2.125	10.640	21.339	27.051
2.50	2.375	17.020	34.134	61.185
2.75	2.625	14.692	29.465	90.650
3.00	2.875	4.027	8.076	98.726
3.25	3.125	0.504	1.011	99.737
3.50	3.375	0.091	0.183	99.920
3.75	3.625	0.026	0.052	99.972
4.00	3.875	0.009	0.018	99.990
5.00	4.500	0.005	0.010	100.000

Statistical Results			
Mean:	2.4159	phi	(0.1874 mm)
Standard Dev:	0.2799	phi-units	(0.8236 mm)
Skewness:	-0.0630	dimensionless	
Kurtosis:	4.5891	dimensionless	
5th Moment:	-5.9835	dimensionless	
6th Moment:	124.6361	dimensionless	
RARD *	0.1159	dimensionless	
Median	2.2931	phi	(0.204 mm)

* RARD = reciprocal absolute relative dispersion (see below)

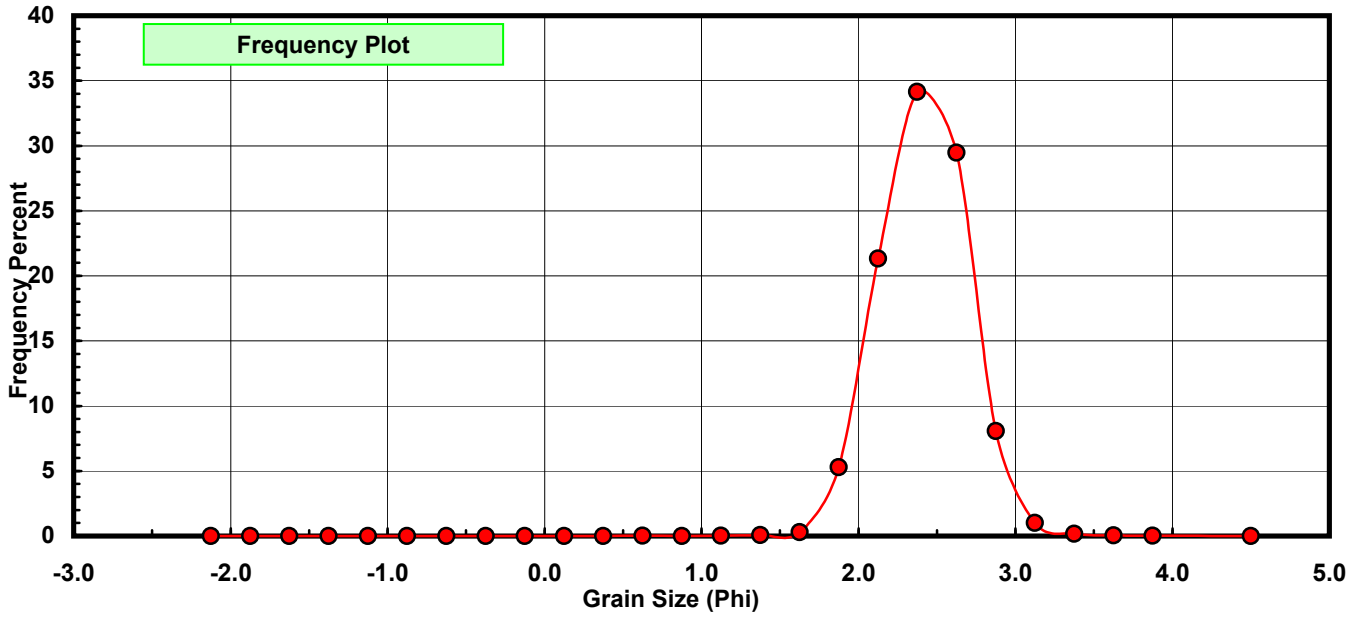
Statistical Explanation

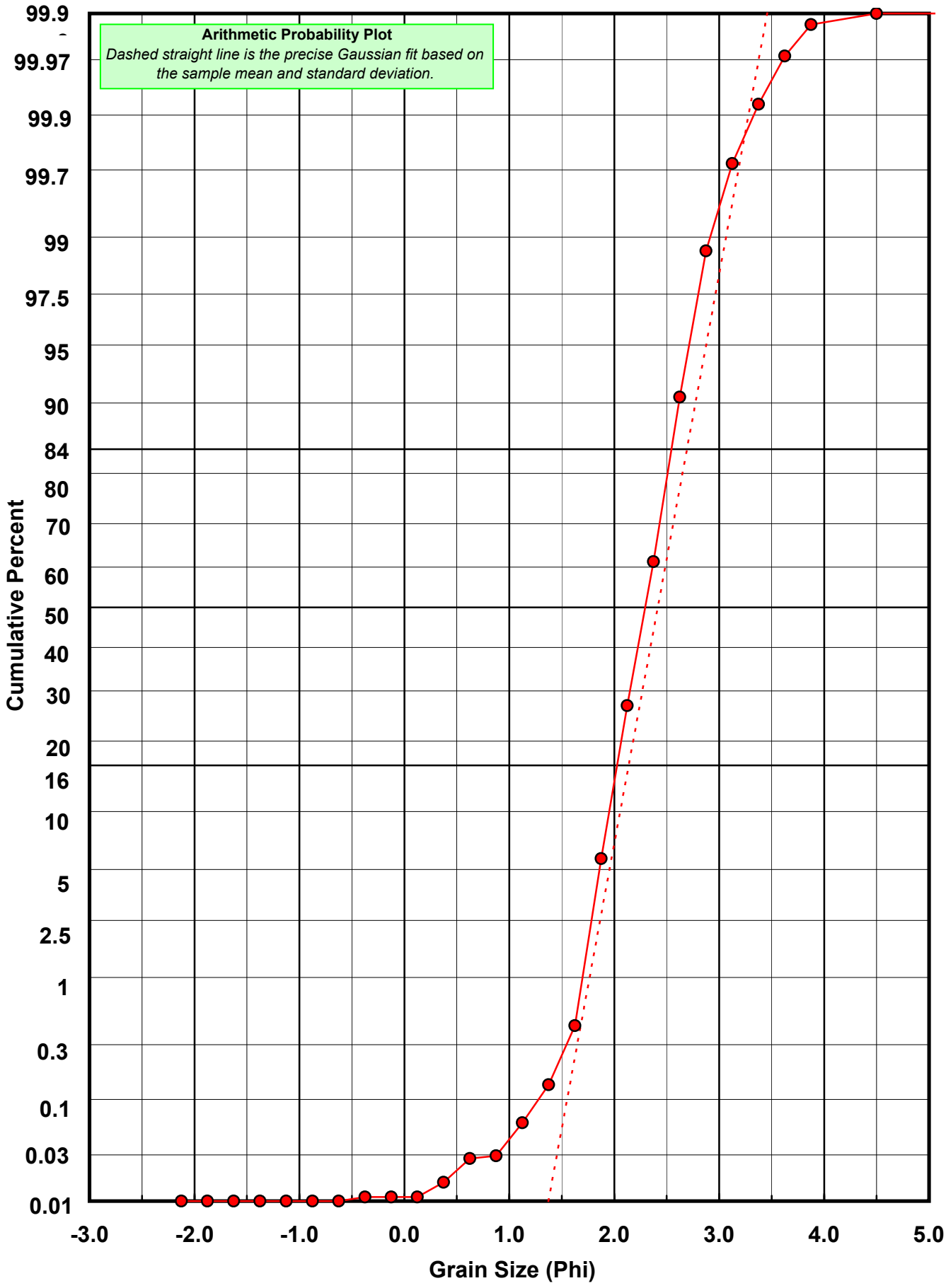
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-06-BB

Total Carbonate Mass: 0.793 grams

% Carbonate: 0.6 %

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	0.003	0.378	0.378
0.00	-0.125	0.000	0.000	0.378
0.25	0.125	0.000	0.000	0.378
0.50	0.375	0.000	0.000	0.378
0.75	0.625	0.004	0.504	0.883
1.00	0.875	0.000	0.000	0.883
1.25	1.125	0.012	1.513	2.396
1.50	1.375	0.029	3.657	6.053
1.75	1.625	0.038	4.792	10.845
2.00	1.875	0.000	0.000	10.845
2.25	2.125	0.000	0.000	10.845
2.50	2.375	0.000	0.000	10.845
2.75	2.625	0.410	51.702	62.547
3.00	2.875	0.281	35.435	97.982
3.25	3.125	0.016	2.018	100.000
3.50	3.375	0.000	0.000	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:	2.5859	phi	(0.1666 mm)
Standard Dev:	0.4680	phi-units	(0.723 mm)
Skewness:	-2.7235	dimensionless	
Kurtosis:	11.6337	dimensionless	
5th Moment:	-55.2822	dimensionless	
6th Moment:	298.6601	dimensionless	
RARD *	0.1810	dimensionless	
Median	2.5643	phi	(0.1691 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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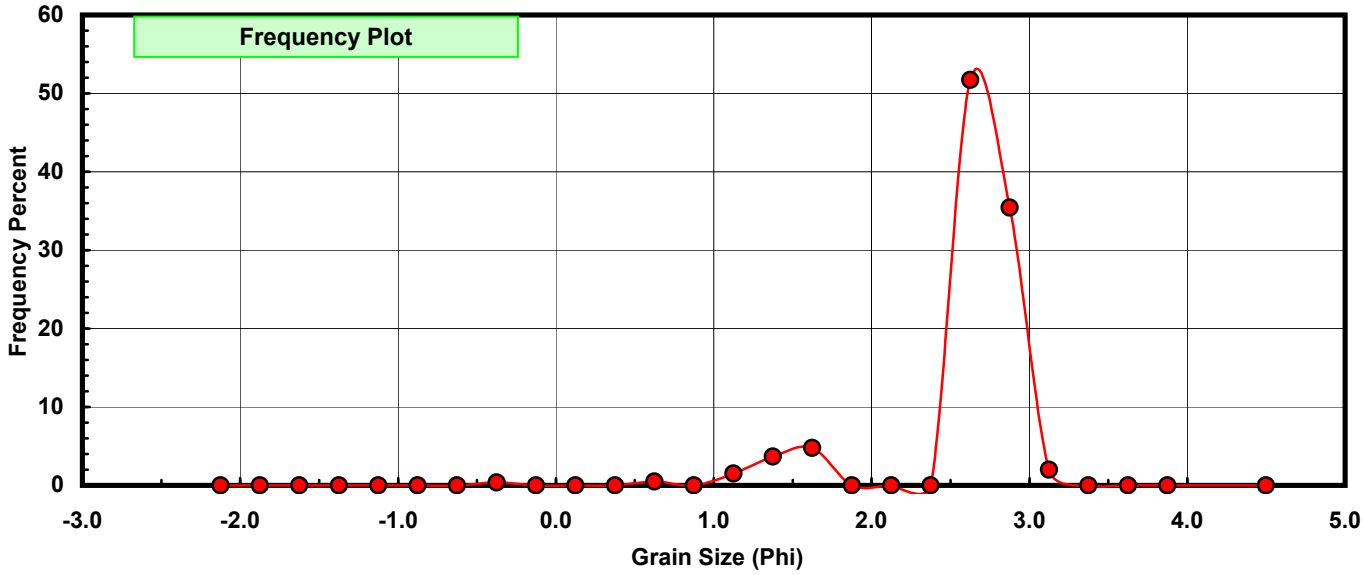

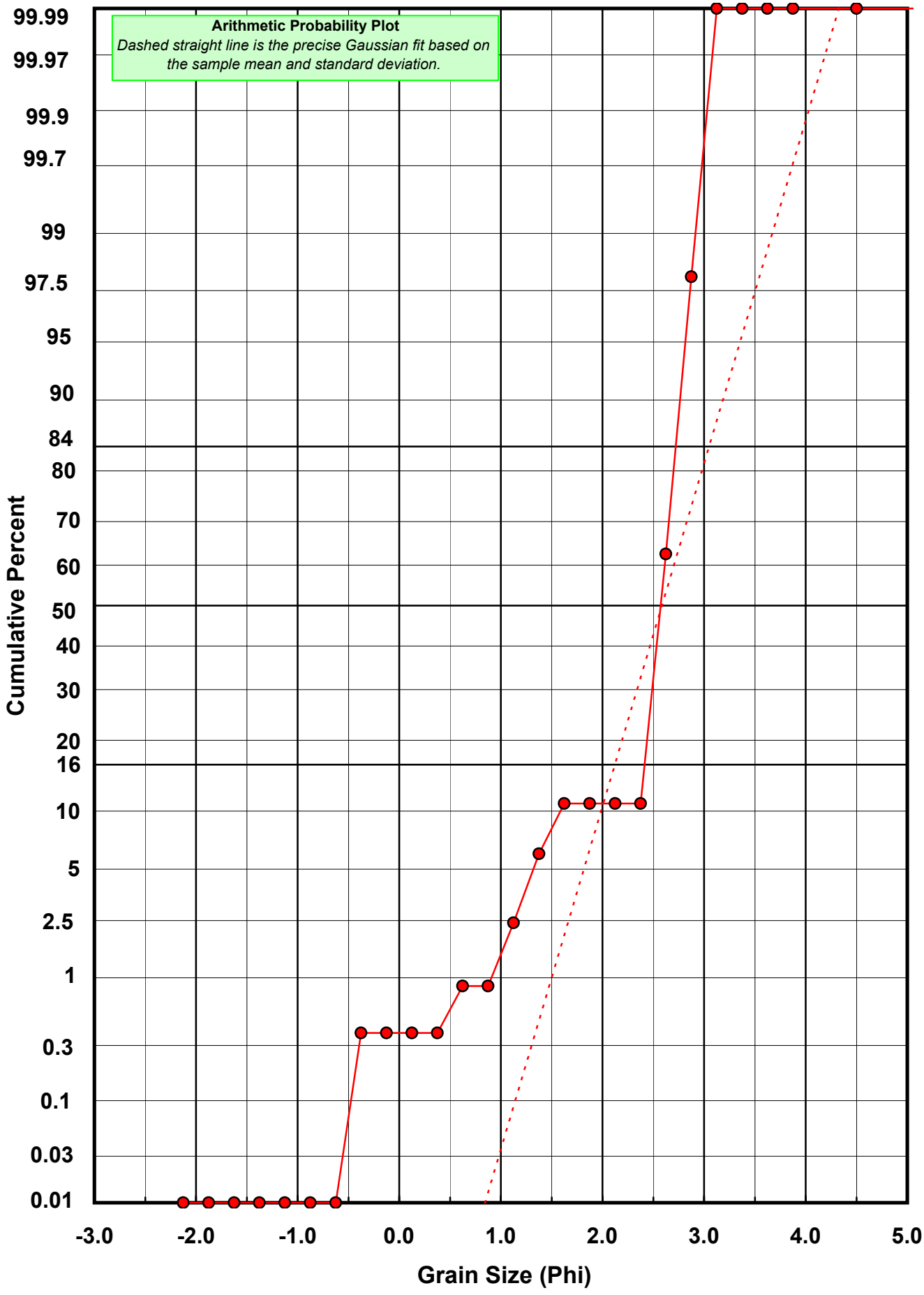
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-06-BB

Total Digested Mass: 49.563 grams

% Silica: 99.4 %

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	0.004	0.008	0.008
0.75	0.625	0.003	0.006	0.014
1.00	0.875	0.002	0.004	0.018
1.25	1.125	0.004	0.008	0.026
1.50	1.375	0.007	0.014	0.040
1.75	1.625	0.109	0.220	0.260
2.00	1.875	2.786	5.621	5.881
2.25	2.125	10.874	21.940	27.821
2.50	2.375	17.124	34.550	62.371
2.75	2.625	14.282	28.816	91.187
3.00	2.875	3.746	7.558	98.745
3.25	3.125	0.488	0.985	99.730
3.50	3.375	0.094	0.190	99.919
3.75	3.625	0.030	0.061	99.980
4.00	3.875	0.010	0.020	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4100	phi	(0.1882 mm)
Standard Dev:	0.2755	phi-units	(0.8261 mm)
Skewness:	0.0597	dimensionless	
Kurtosis:	3.5610	dimensionless	
5th Moment:	-0.0466	dimensionless	
6th Moment:	42.6570	dimensionless	
RARD *	0.1143	dimensionless	
Median	2.2855	phi	(0.2051 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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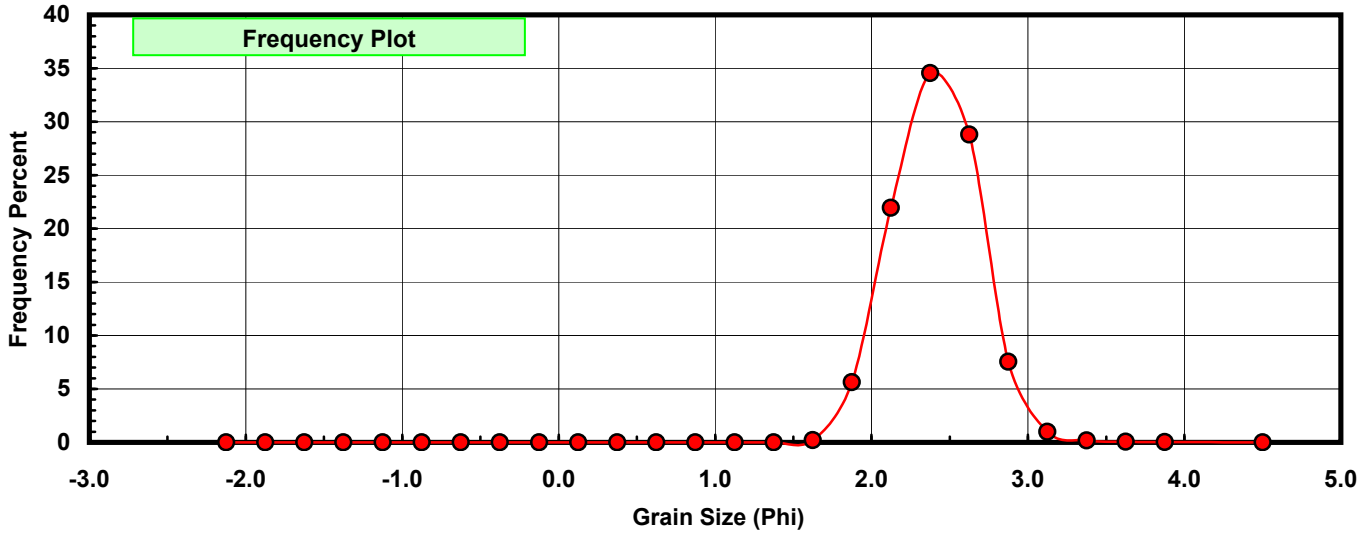

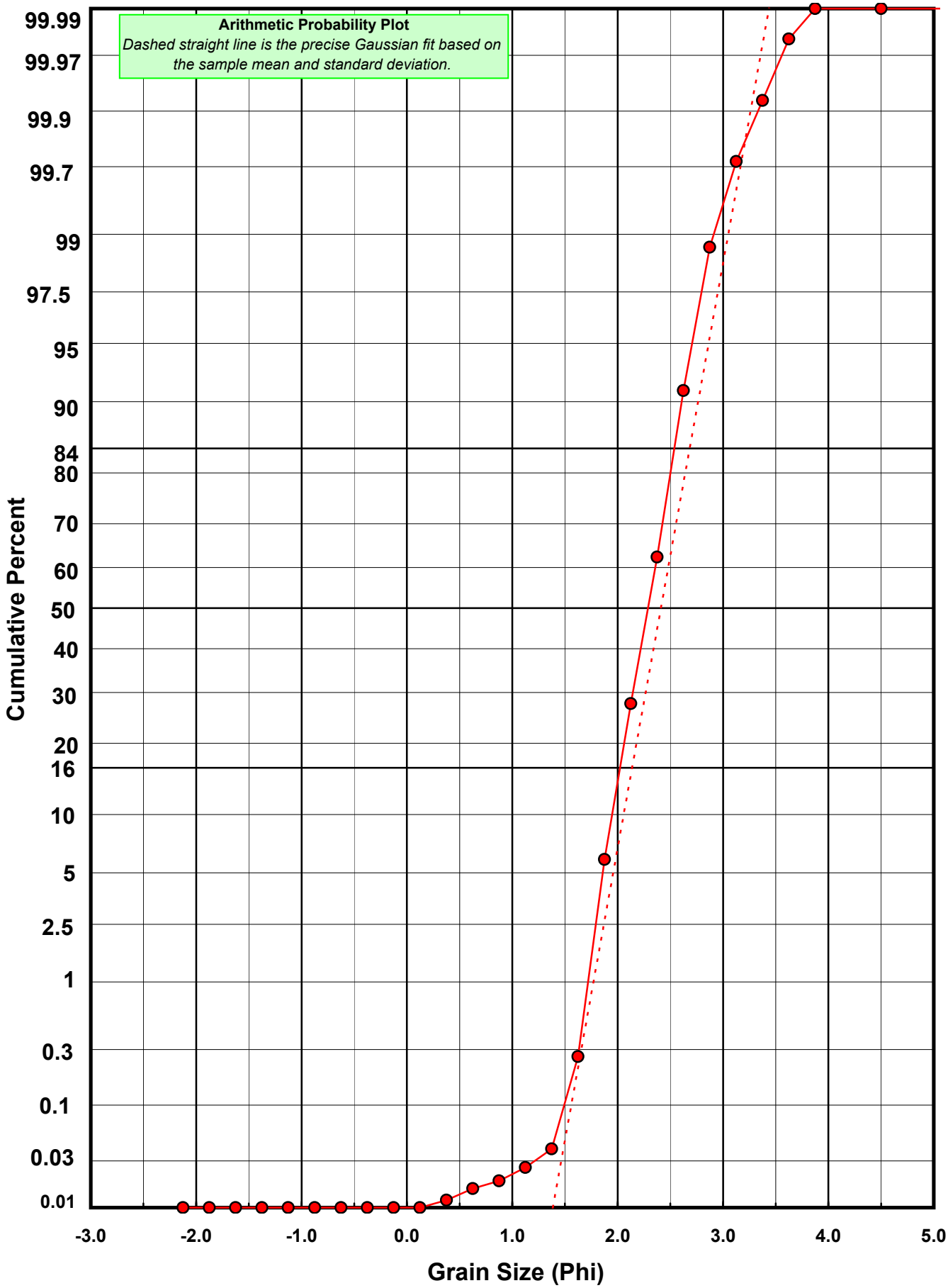
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-2.0
-1.0
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5.0
Grain Size (Phi)