Onshore Grab Sample

Sample: DU-10-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 15' 36.3"
Longitude: 81° 22' 56.5"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	55.427	grams
Total Fines in Sample	0.120	grams
Total Percent Fines	0.22	%

Dry Sieving Summary

Total Sample Weight	55.312	grams
Total Digested Weight	53.899	grams
Total Carbonate Weight	1.413	grams
Total Silica %	97.45	%
Total Carbonate %	2.55	%
Carbonate/Silica Ratio	0.026	

General Comments:

Post-Digestion: -1.50 phi is Organics Only

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-10-BB

Total Sample Mass: 55.312 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	0.024	0.043	0.043
-1.50	-1.625	0.000	0.000	0.043
-1.25	-1.375	0.000	0.000	0.043
-1.00	-1.125	0.000	0.000	0.043
-0.75	-0.875	0.000	0.000	0.043
-0.50	-0.625	0.003	0.005	0.049
-0.25	-0.375	0.005	0.009	0.058
0.00	-0.125	0.006	0.011	0.069
0.25	0.125	0.012	0.022	0.090
0.50	0.375	0.020	0.036	0.127
0.75	0.625	0.032	0.058	0.184
1.00	0.875	0.202	0.365	0.550
1.25	1.125	0.599	1.083	1.633
1.50	1.375	1.797	3.249	4.881
1.75	1.625	3.094	5.594	10.475
2.00	1.875	4.370	7.901	18.376
2.25	2.125	6.581	11.898	30.274
2.50	2.375	12.064	21.811	52.085
2.75	2.625	15.854	28.663	80.747
3.00	2.875	7.741	13.995	94.743
3.25	3.125	1.891	3.419	98.161
3.50	3.375	0.578	1.045	99.206
3.75	3.625	0.293	0.530	99.736
4.00	3.875	0.114	0.206	99.942
5.00	4.500	0.032	0.058	100.000

Statistical Results			
Mean:	2.3962	phi	(0.19 mm)
Standard Dev:	0.4818	phi-units	(0.7161 mm)
Skewness:	-0.8461	dimensionless	
Kurtosis:	6.5430	dimensionless	
5th Moment:	-28.9693	dimensionless	
6th Moment:	249.4444	dimensionless	
RARD *	0.2011	dimensionless	
Median	2.3511	phi	(0.196 mm)

* RARD = reciprocal absolute relative dispersion (see below)

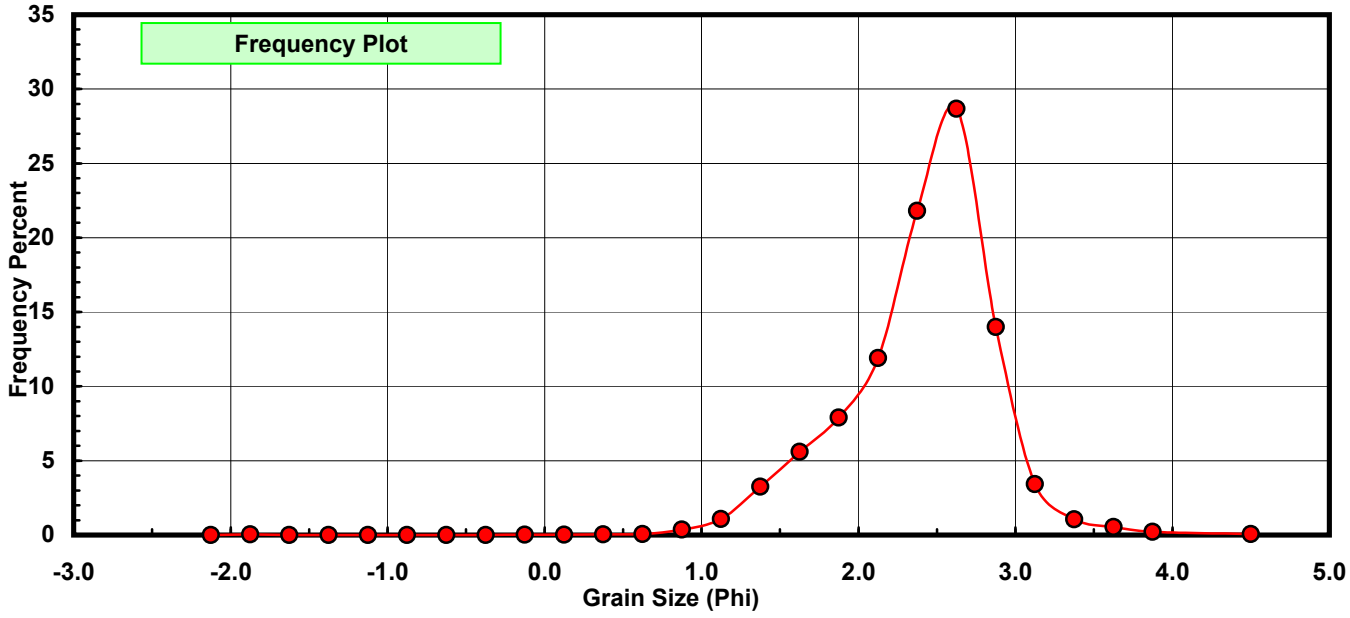
Statistical Explanation

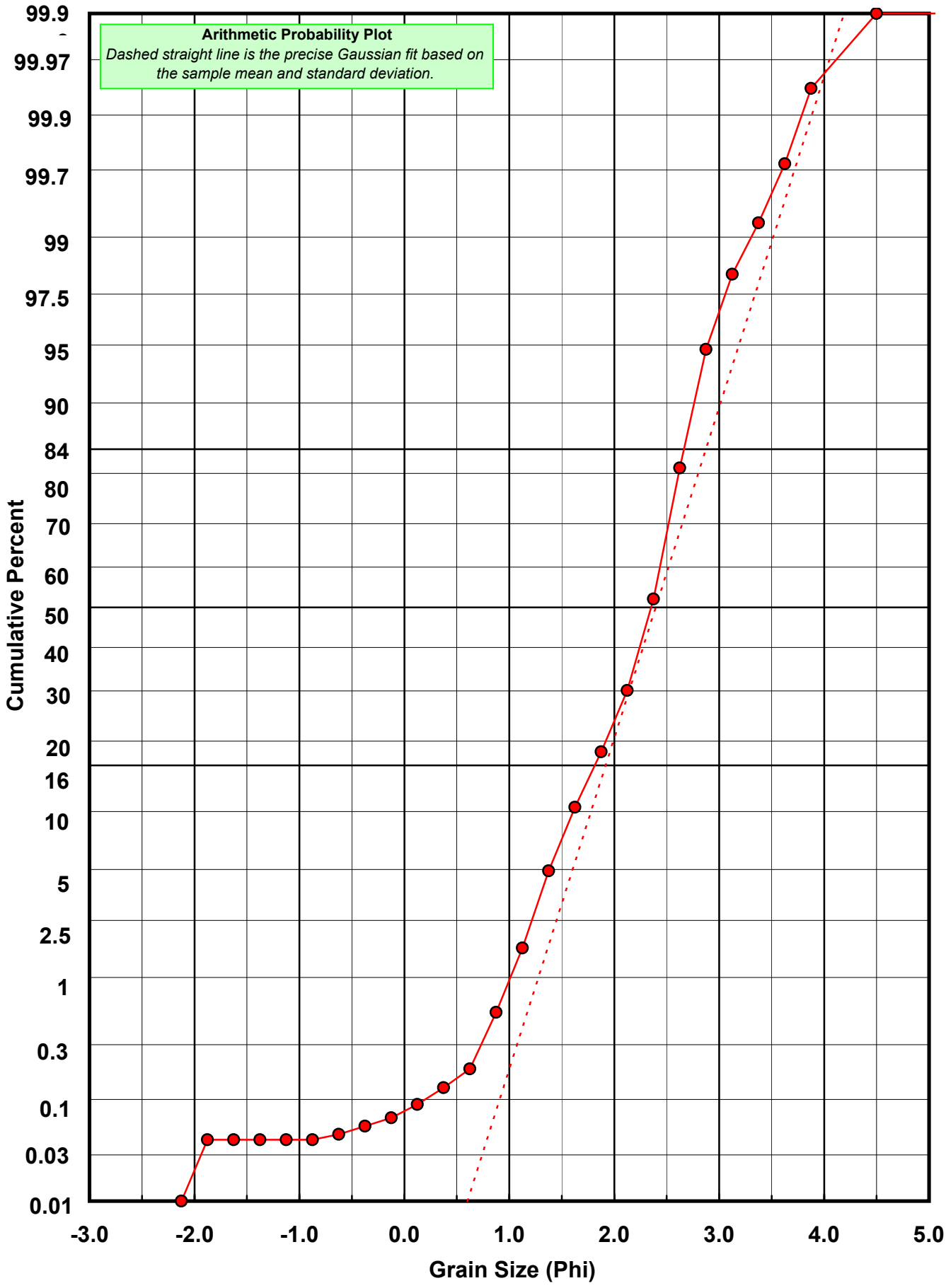
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-10-BB

Total Carbonate Mass: 2.112 grams

% Carbonate: 2.6 %

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	0.024	1.136	1.136
-1.50	-1.625	0.000	0.000	1.136
-1.25	-1.375	0.000	0.000	1.136
-1.00	-1.125	0.000	0.000	1.136
-0.75	-0.875	0.000	0.000	1.136
-0.50	-0.625	0.003	0.142	1.278
-0.25	-0.375	0.002	0.095	1.373
0.00	-0.125	0.001	0.047	1.420
0.25	0.125	0.005	0.237	1.657
0.50	0.375	0.008	0.379	2.036
0.75	0.625	0.004	0.189	2.225
1.00	0.875	0.018	0.852	3.078
1.25	1.125	0.006	0.284	3.362
1.50	1.375	0.088	4.167	7.528
1.75	1.625	0.077	3.646	11.174
2.00	1.875	0.159	7.528	18.703
2.25	2.125	0.000	0.000	18.703
2.50	2.375	0.000	0.000	18.703
2.75	2.625	0.340	16.098	34.801
3.00	2.875	0.943	44.650	79.451
3.25	3.125	0.364	17.235	96.686
3.50	3.375	0.052	2.462	99.148
3.75	3.625	0.003	0.142	99.290
4.00	3.875	0.015	0.710	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6093	phi	(0.1639 mm)
Standard Dev:	0.7565	phi-units	(0.5919 mm)
Skewness:	-3.0920	dimensionless	
Kurtosis:	16.3420	dimensionless	
5th Moment:	-89.5326	dimensionless	
6th Moment:	515.0074	dimensionless	
RARD *	0.2899	dimensionless	
Median	2.7101	phi	(0.1528 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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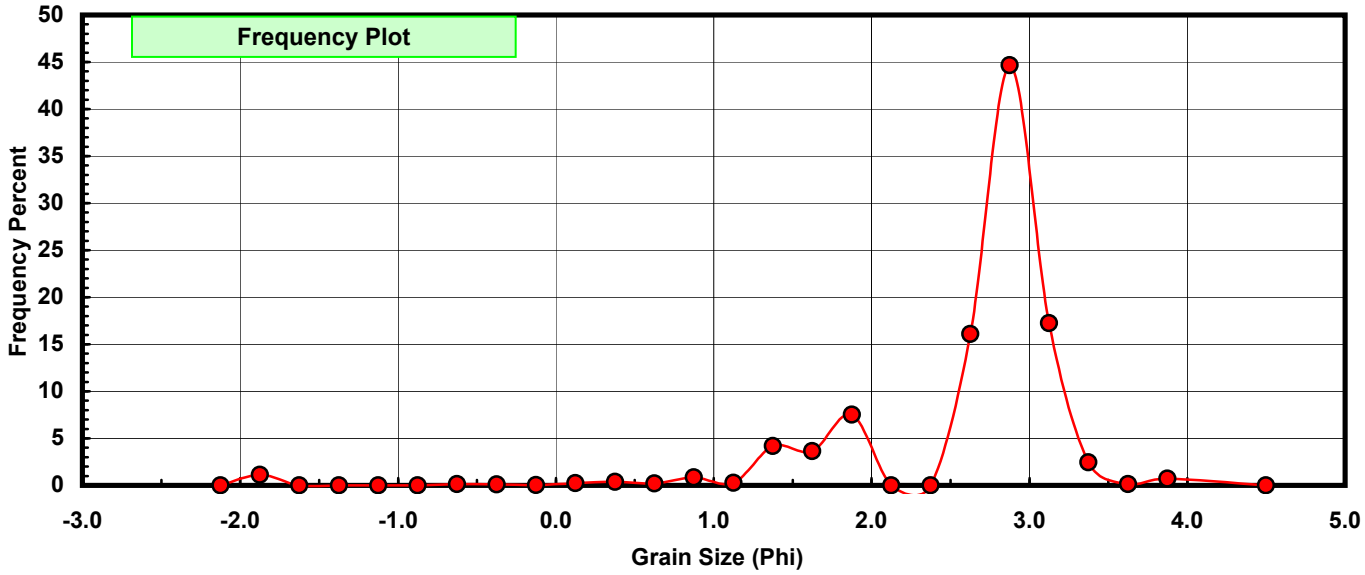

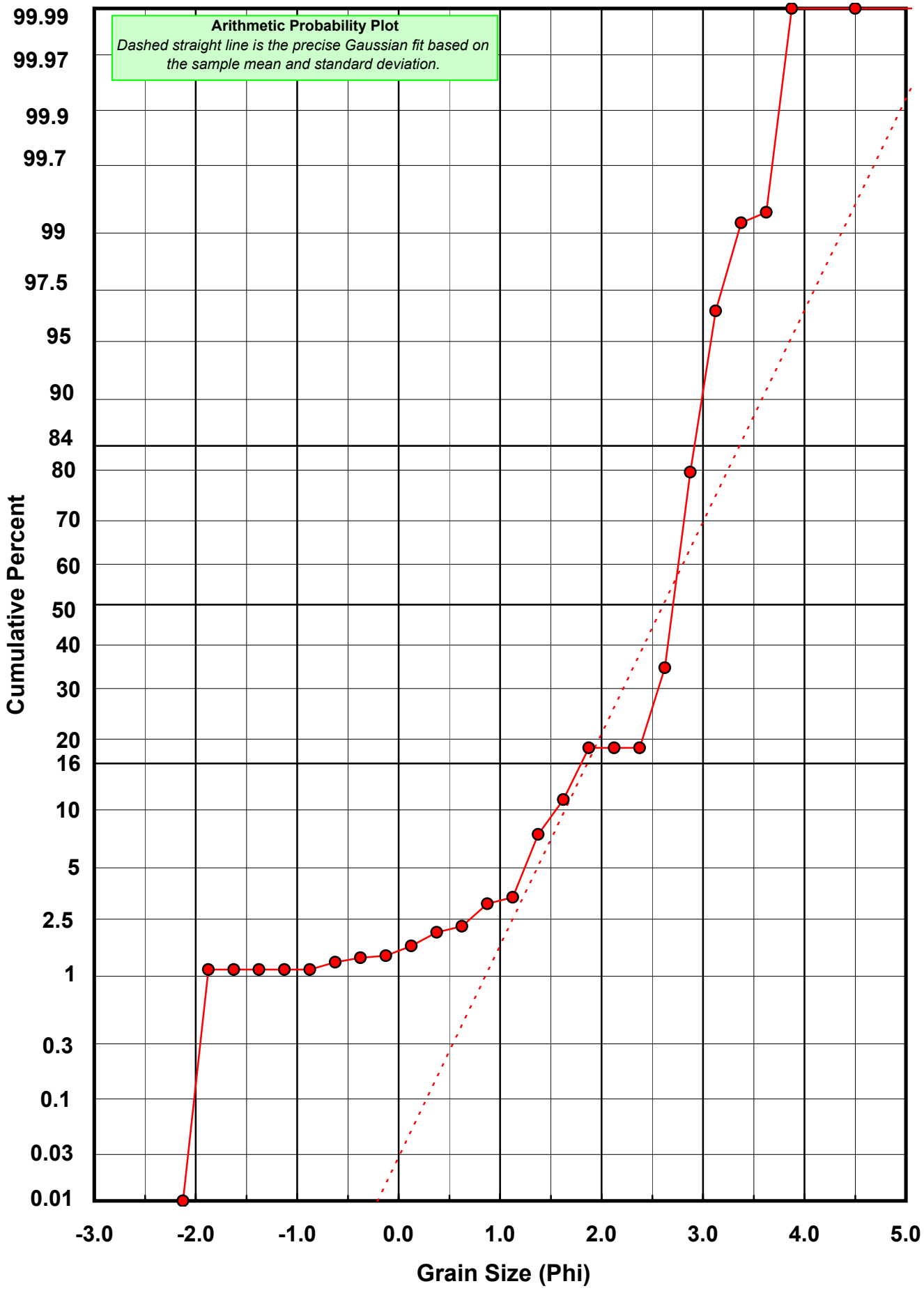
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-10-BB

Total Digested Mass: 53.865 grams

% Silica: 97.4 %

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	0.011	0.020	0.020
-1.25	-1.375	0.000	0.000	0.020
-1.00	-1.125	0.000	0.000	0.020
-0.75	-0.875	0.000	0.000	0.020
-0.50	-0.625	0.000	0.000	0.020
-0.25	-0.375	0.003	0.006	0.026
0.00	-0.125	0.005	0.009	0.035
0.25	0.125	0.007	0.013	0.048
0.50	0.375	0.012	0.022	0.071
0.75	0.625	0.028	0.052	0.123
1.00	0.875	0.184	0.342	0.464
1.25	1.125	0.593	1.101	1.565
1.50	1.375	1.709	3.173	4.738
1.75	1.625	3.017	5.601	10.339
2.00	1.875	4.211	7.818	18.157
2.25	2.125	6.643	12.333	30.489
2.50	2.375	12.688	23.555	54.044
2.75	2.625	15.514	28.802	82.846
3.00	2.875	6.798	12.620	95.466
3.25	3.125	1.527	2.835	98.301
3.50	3.375	0.526	0.977	99.278
3.75	3.625	0.290	0.538	99.816
4.00	3.875	0.099	0.184	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.3852	phi	(0.1914 mm)
Standard Dev:	0.4631	phi-units	(0.7254 mm)
Skewness:	-0.7135	dimensionless	
Kurtosis:	4.9344	dimensionless	
5th Moment:	-15.1834	dimensionless	
6th Moment:	116.7709	dimensionless	
RARD *	0.1942	dimensionless	
Median	2.3321	phi	(0.1986 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

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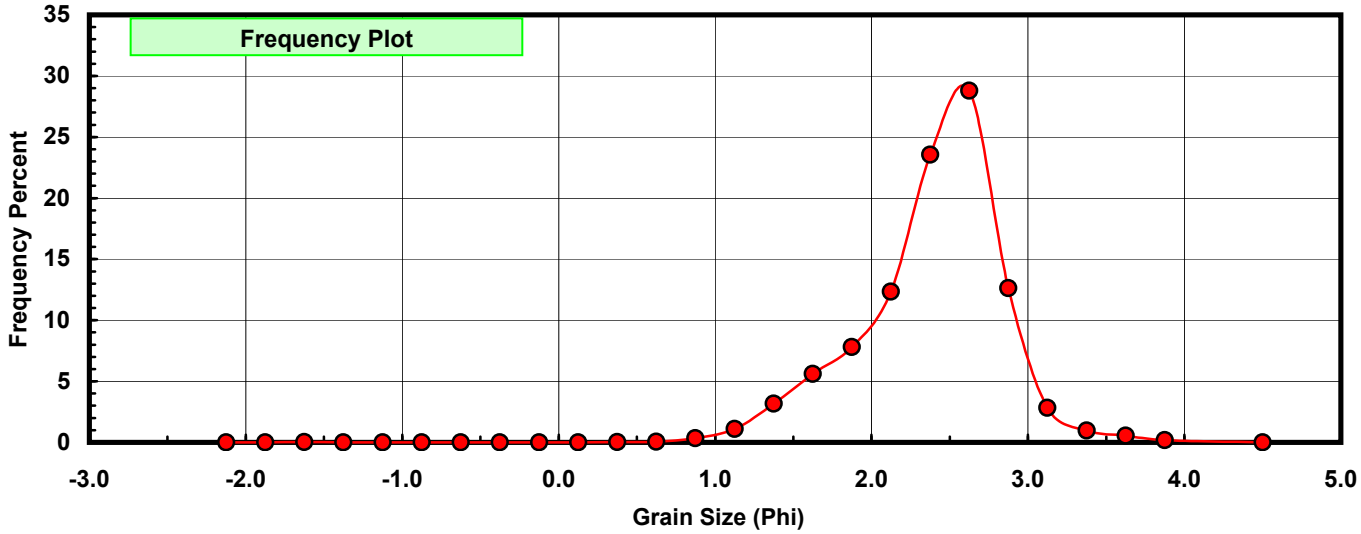

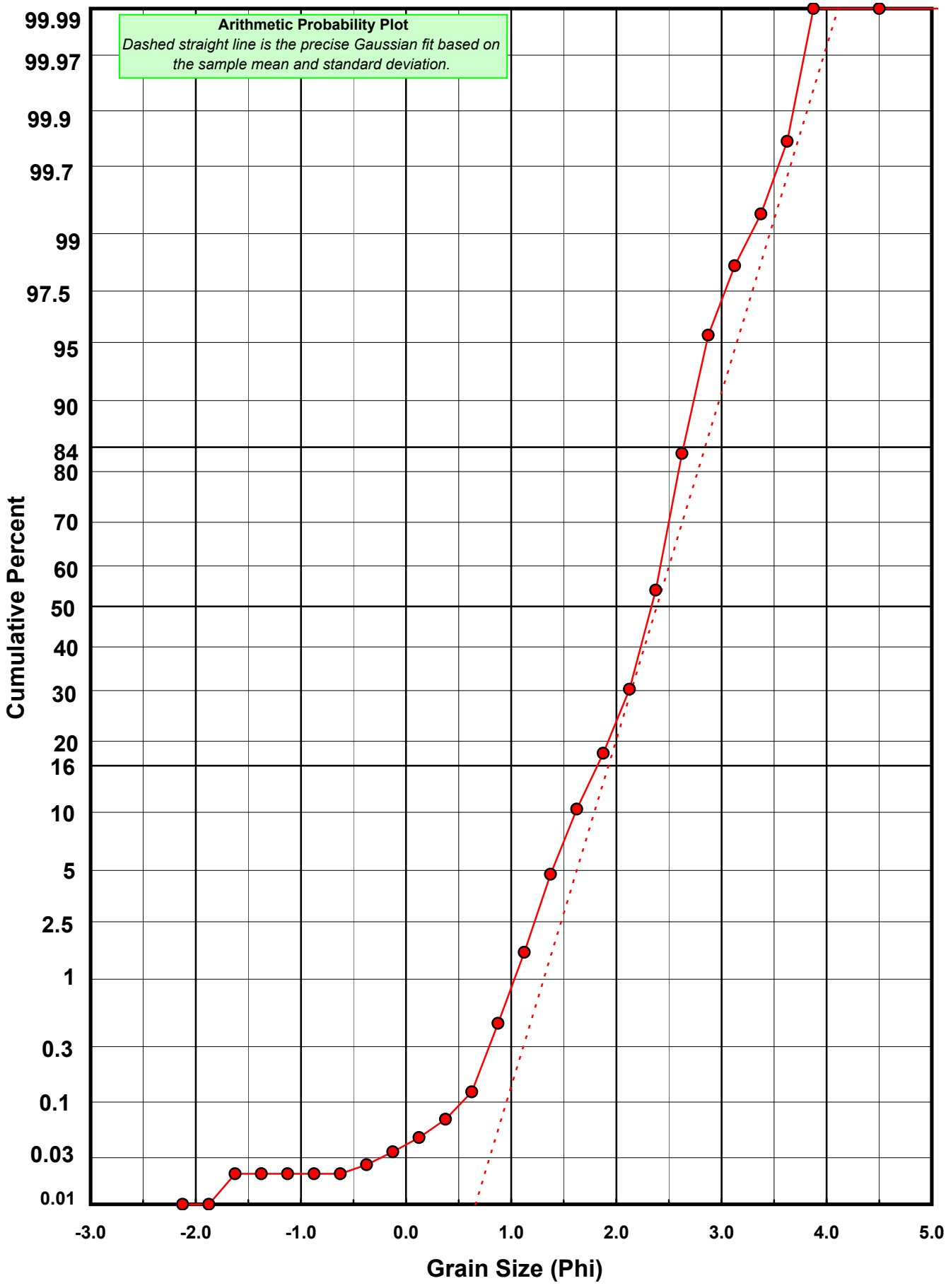
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Grain Size (Phi)