Onshore Grab Sample

Sample: DU-13-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 28' 39.4"
Longitude: 81° 24' 43.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	73.125	grams
Total Fines in Sample	0.452	grams
Total Percent Fines	0.61	%

Dry Sieving Summary

Total Sample Weight	72.653	grams
Total Digested Weight	71.208	grams
Total Carbonate Weight	1.445	grams
Total Silica %	98.01	%
Total Carbonate %	1.99	%
Carbonate/Silica Ratio	0.020	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-13-MB

Total Sample Mass: 72.653 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	0.003	0.004	0.004
0.50	0.375	0.003	0.004	0.008
0.75	0.625	0.005	0.007	0.015
1.00	0.875	0.006	0.008	0.023
1.25	1.125	0.012	0.017	0.040
1.50	1.375	0.045	0.062	0.102
1.75	1.625	0.346	0.476	0.578
2.00	1.875	2.635	3.627	4.205
2.25	2.125	8.524	11.732	15.937
2.50	2.375	20.206	27.812	43.749
2.75	2.625	26.714	36.769	80.518
3.00	2.875	9.995	13.757	94.276
3.25	3.125	2.475	3.407	97.682
3.50	3.375	0.901	1.240	98.922
3.75	3.625	0.584	0.804	99.726
4.00	3.875	0.156	0.215	99.941
5.00	4.500	0.043	0.059	100.000

Statistical Results			
Mean:	2.5359	phi	(0.1724 mm)
Standard Dev:	0.3245	phi-units	(0.7986 mm)
Skewness:	0.3943	dimensionless	
Kurtosis:	5.3476	dimensionless	
5th Moment:	7.8242	dimensionless	
6th Moment:	80.1532	dimensionless	
RARD *	0.1280	dimensionless	
Median	2.4175	phi	(0.1872 mm)

* RARD = reciprocal absolute relative dispersion (see below)

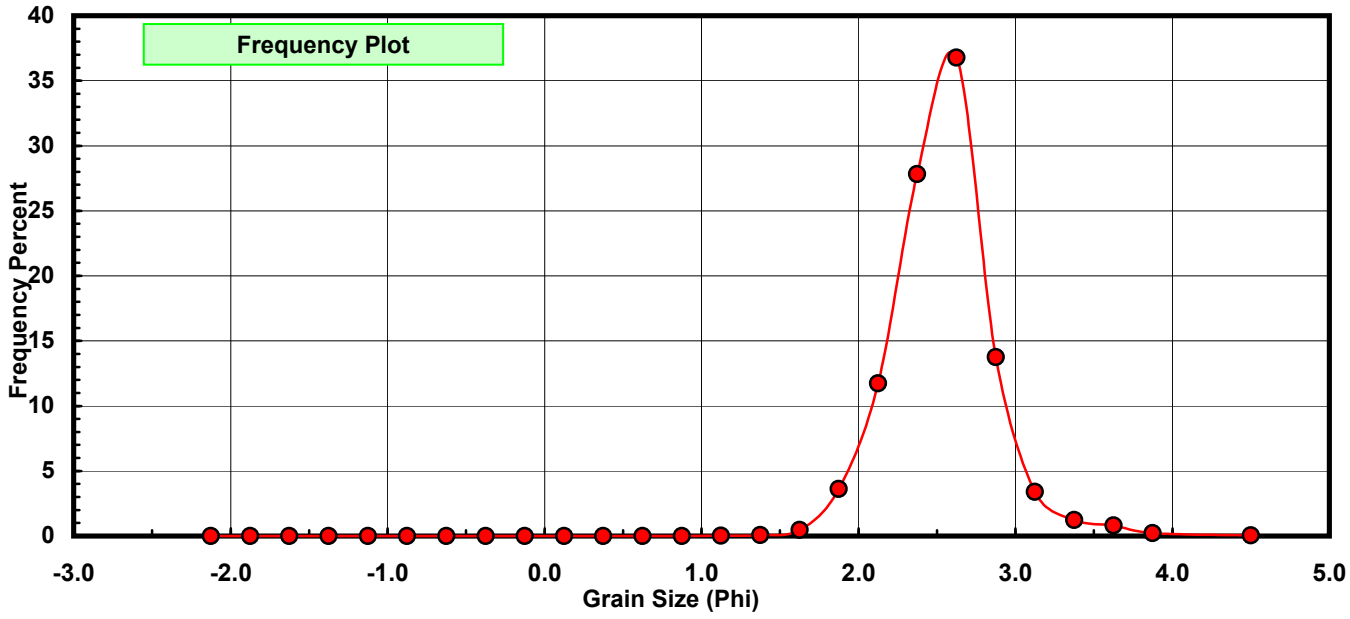
Statistical Explanation

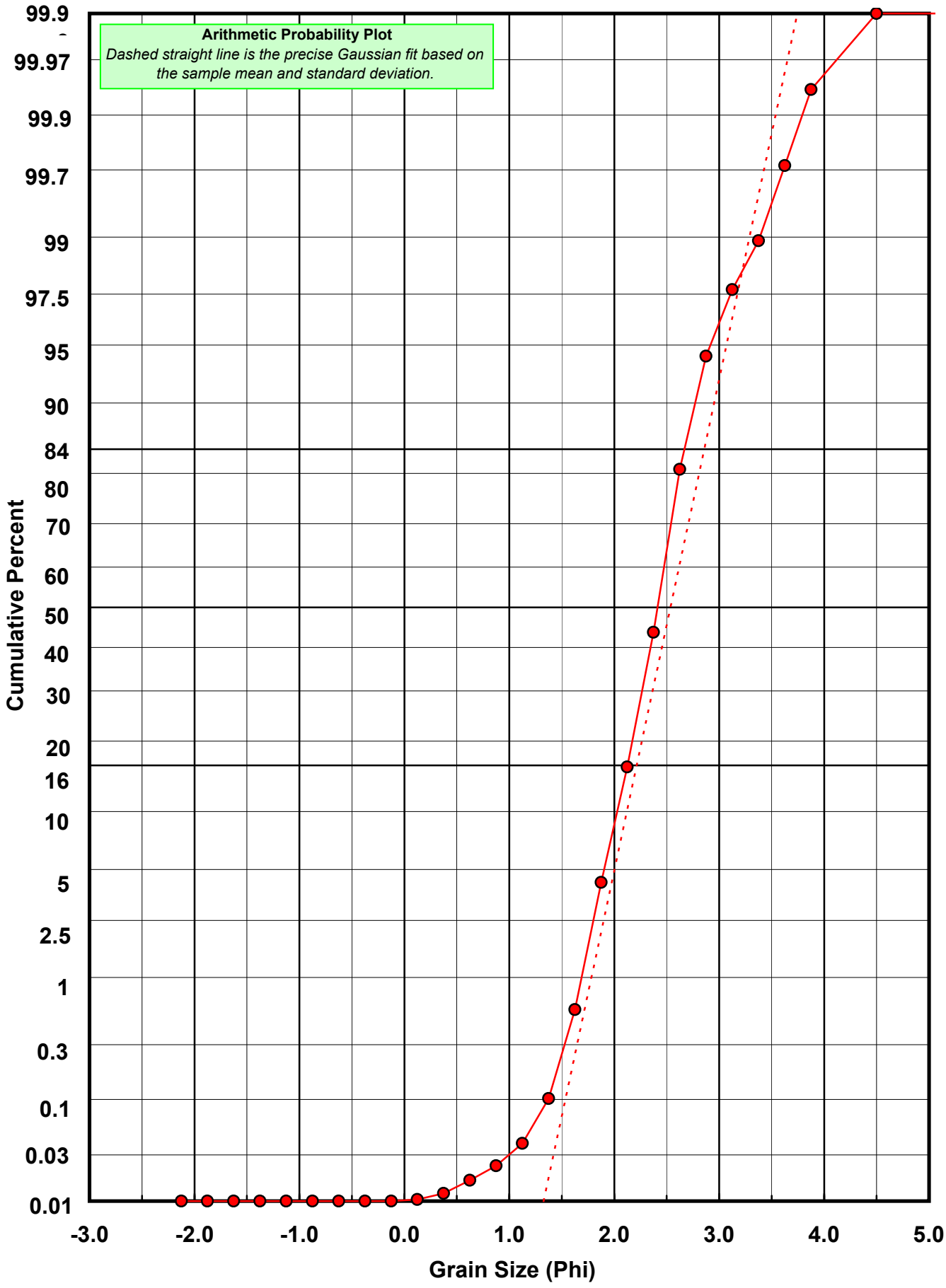
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-13-MB

Total Carbonate Mass: 2.288 grams

% Carbonate: 2.0 %

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	0.003	0.131	0.131
0.50	0.375	0.000	0.000	0.131
0.75	0.625	0.000	0.000	0.131
1.00	0.875	0.003	0.131	0.262
1.25	1.125	0.003	0.131	0.393
1.50	1.375	0.009	0.393	0.787
1.75	1.625	0.018	0.787	1.573
2.00	1.875	0.028	1.224	2.797
2.25	2.125	0.155	6.774	9.572
2.50	2.375	0.000	0.000	9.572
2.75	2.625	0.759	33.173	42.745
3.00	2.875	0.747	32.649	75.393
3.25	3.125	0.487	21.285	96.678
3.50	3.375	0.016	0.699	97.378
3.75	3.625	0.060	2.622	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:	2.7811	phi	(0.1455 mm)
Standard Dev:	0.3639	phi-units	(0.7771 mm)
Skewness:	-1.3714	dimensionless	
Kurtosis:	9.1313	dimensionless	
5th Moment:	-41.3247	dimensionless	
6th Moment:	268.0149	dimensionless	
RARD *	0.1308	dimensionless	
Median	2.6806	phi	(0.156 mm)

* RARD = reciprocal absolute relative dispersion (see below)

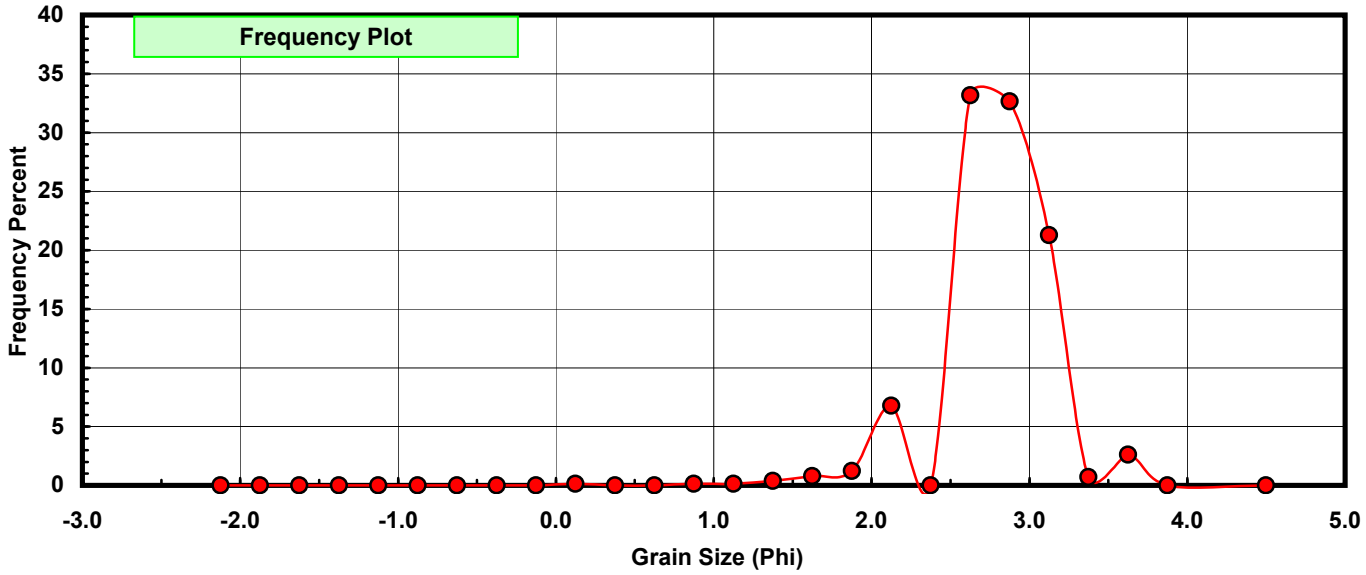
Statistical Explanation

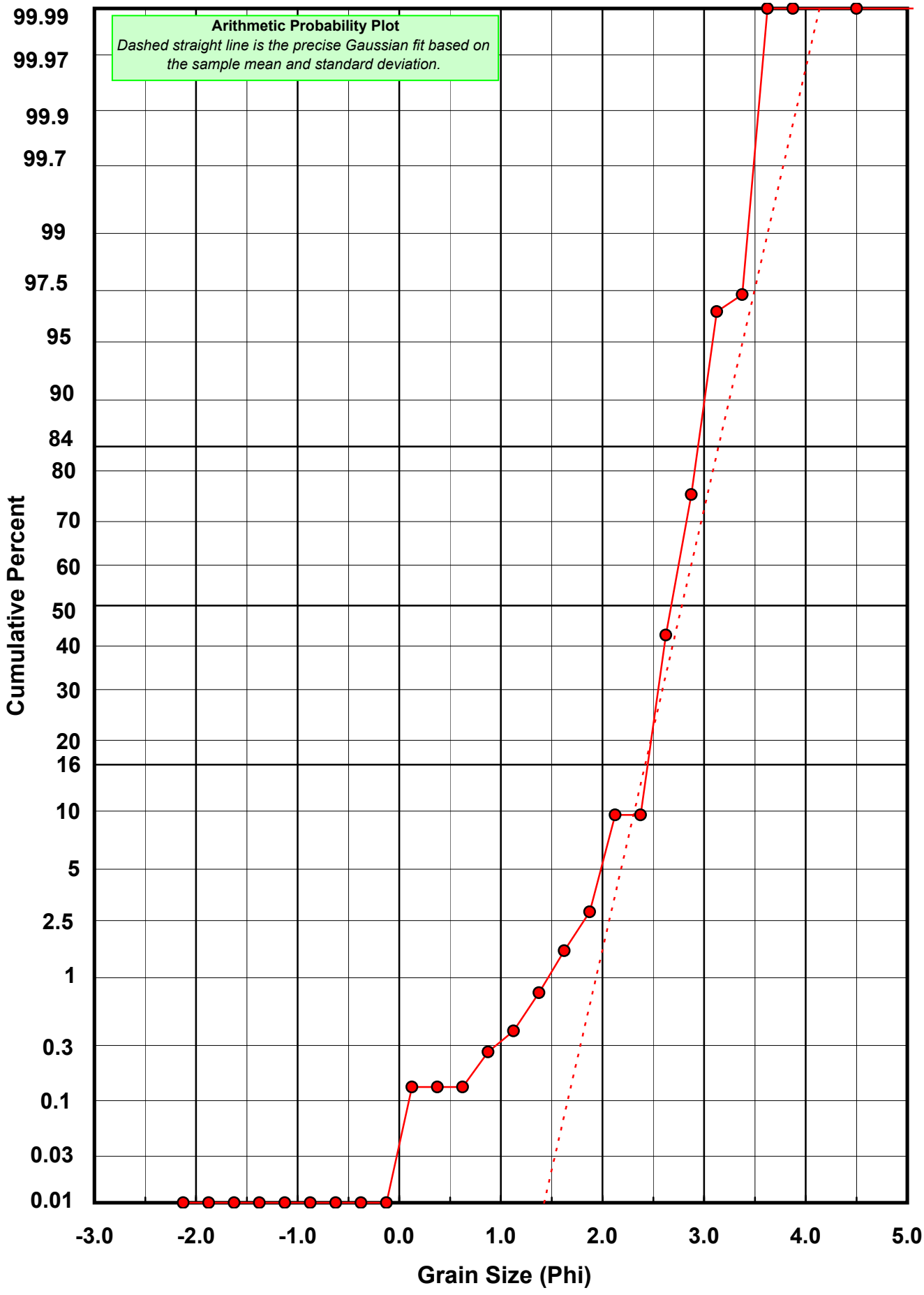
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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
99.99
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-13-MB

Total Digested Mass: 71.168 grams

% Silica: 98.0 %

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	0.008	0.011	0.011
0.75	0.625	0.005	0.007	0.018
1.00	0.875	0.003	0.004	0.022
1.25	1.125	0.009	0.013	0.035
1.50	1.375	0.036	0.051	0.086
1.75	1.625	0.328	0.461	0.547
2.00	1.875	2.607	3.663	4.210
2.25	2.125	8.369	11.759	15.969
2.50	2.375	20.976	29.474	45.443
2.75	2.625	25.955	36.470	81.913
3.00	2.875	9.248	12.995	94.908
3.25	3.125	1.988	2.793	97.701
3.50	3.375	0.885	1.244	98.945
3.75	3.625	0.524	0.736	99.681
4.00	3.875	0.227	0.319	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5263	phi	(0.1736 mm)
Standard Dev:	0.3181	phi-units	(0.8021 mm)
Skewness:	0.3789	dimensionless	
Kurtosis:	5.0629	dimensionless	
5th Moment:	5.2581	dimensionless	
6th Moment:	60.1964	dimensionless	
RARD *	0.1259	dimensionless	
Median	2.4062	phi	(0.1886 mm)

* RARD = reciprocal absolute relative dispersion (see below)

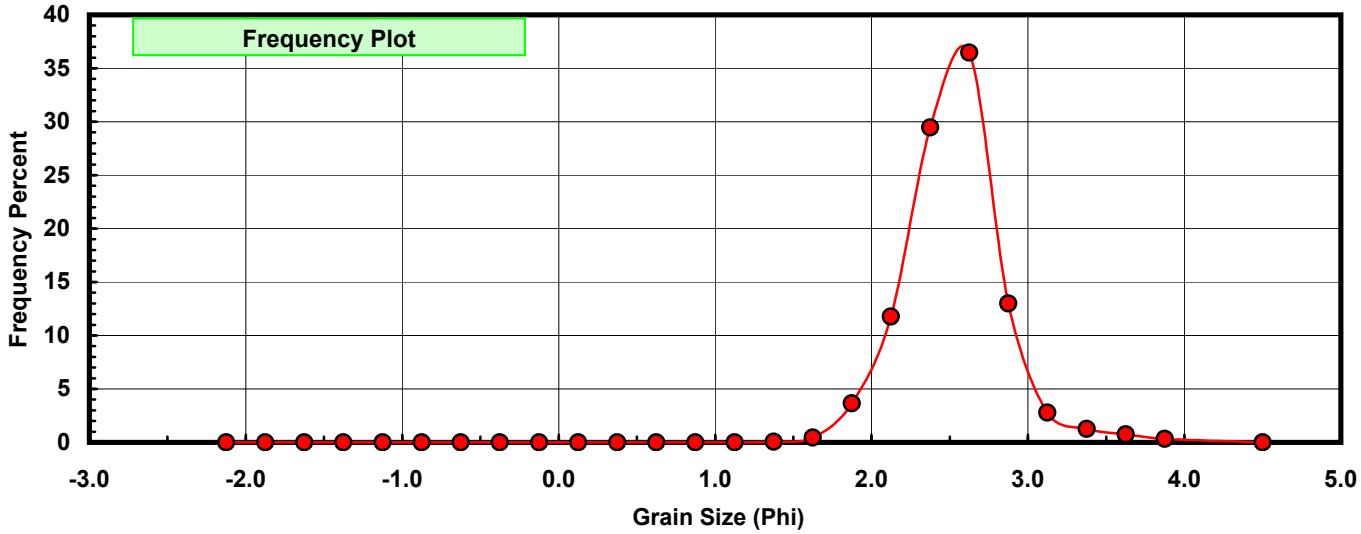
Statistical Explanation

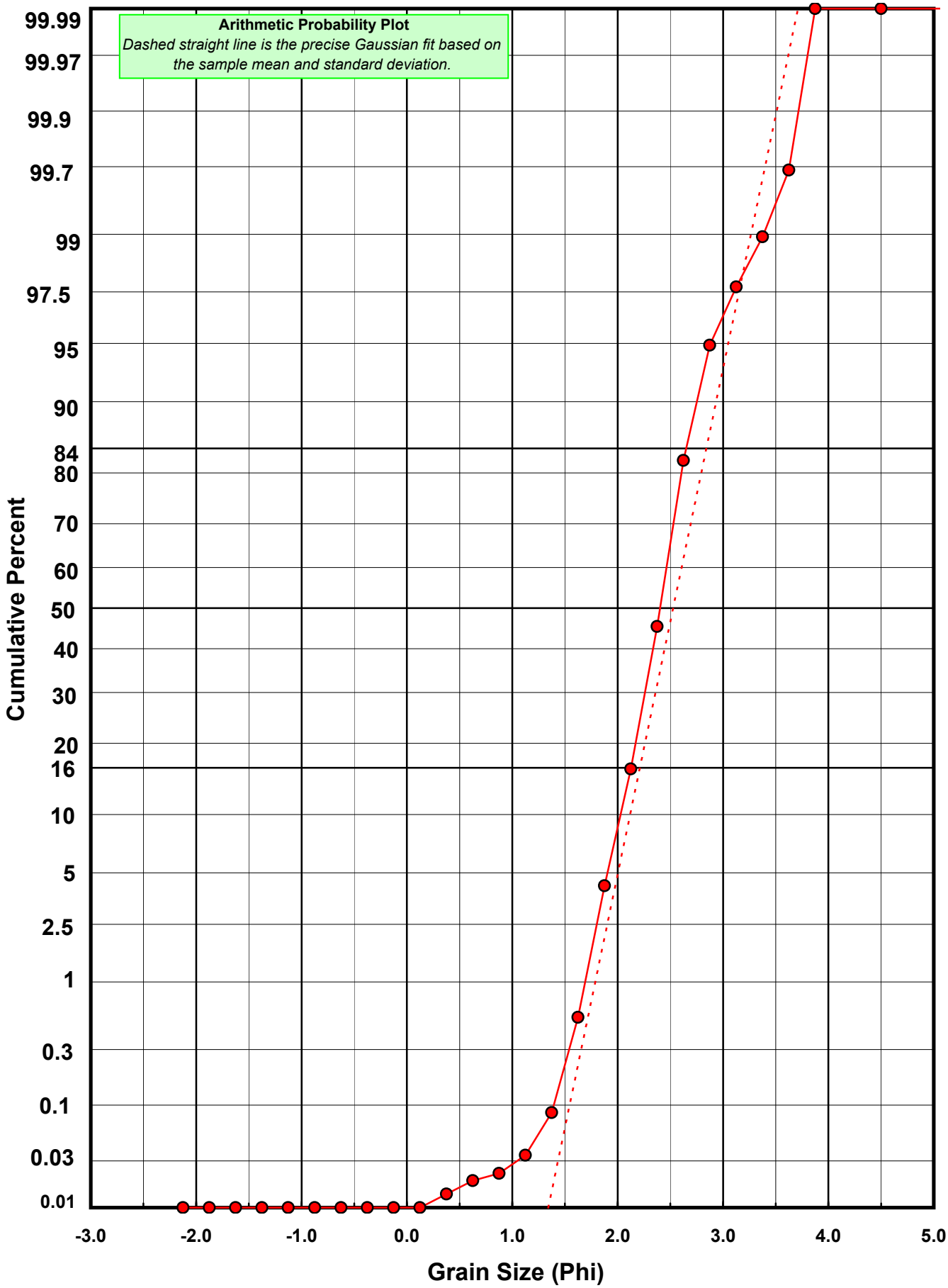
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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
99.99
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)