Onshore Grab Sample

Sample: DU-05-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 19' 58.3"
Longitude: 81° 23' 42.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	53.792	grams
Total Fines in Sample	0.417	grams
Total Percent Fines	0.77	%

Dry Sieving Summary

Total Sample Weight	53.284	grams
Total Digested Weight	52.610	grams
Total Carbonate Weight	0.674	grams
Total Silica %	98.74	%
Total Carbonate %	1.26	%
Carbonate/Silica Ratio	0.013	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-05-MB

Total Sample Mass: 53.284 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	0.010	0.019	0.019
0.25	0.125	0.009	0.017	0.036
0.50	0.375	0.011	0.021	0.056
0.75	0.625	0.010	0.019	0.075
1.00	0.875	0.011	0.021	0.096
1.25	1.125	0.036	0.068	0.163
1.50	1.375	0.166	0.312	0.475
1.75	1.625	0.658	1.235	1.710
2.00	1.875	2.666	5.003	6.713
2.25	2.125	6.325	11.870	18.583
2.50	2.375	13.793	25.886	44.469
2.75	2.625	18.587	34.883	79.352
3.00	2.875	8.679	16.288	95.640
3.25	3.125	1.807	3.391	99.032
3.50	3.375	0.362	0.679	99.711
3.75	3.625	0.106	0.199	99.910
4.00	3.875	0.038	0.071	99.981
5.00	4.500	0.010	0.019	100.000

Statistical Results			
Mean:	2.5100	phi	(0.1756 mm)
Standard Dev:	0.3358	phi-units	(0.7923 mm)
Skewness:	-0.4909	dimensionless	
Kurtosis:	5.5135	dimensionless	
5th Moment:	-13.1500	dimensionless	
6th Moment:	122.2161	dimensionless	
RARD *	0.1338	dimensionless	
Median	2.4146	phi	(0.1876 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

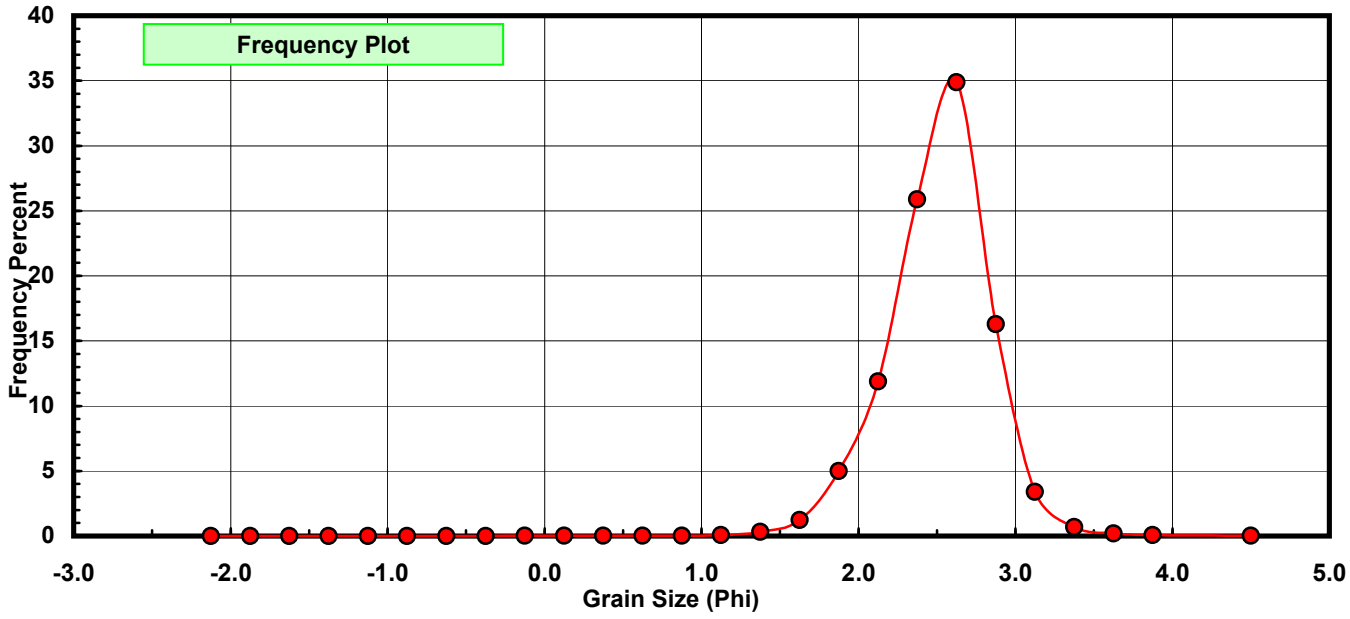
Statistical Explanation

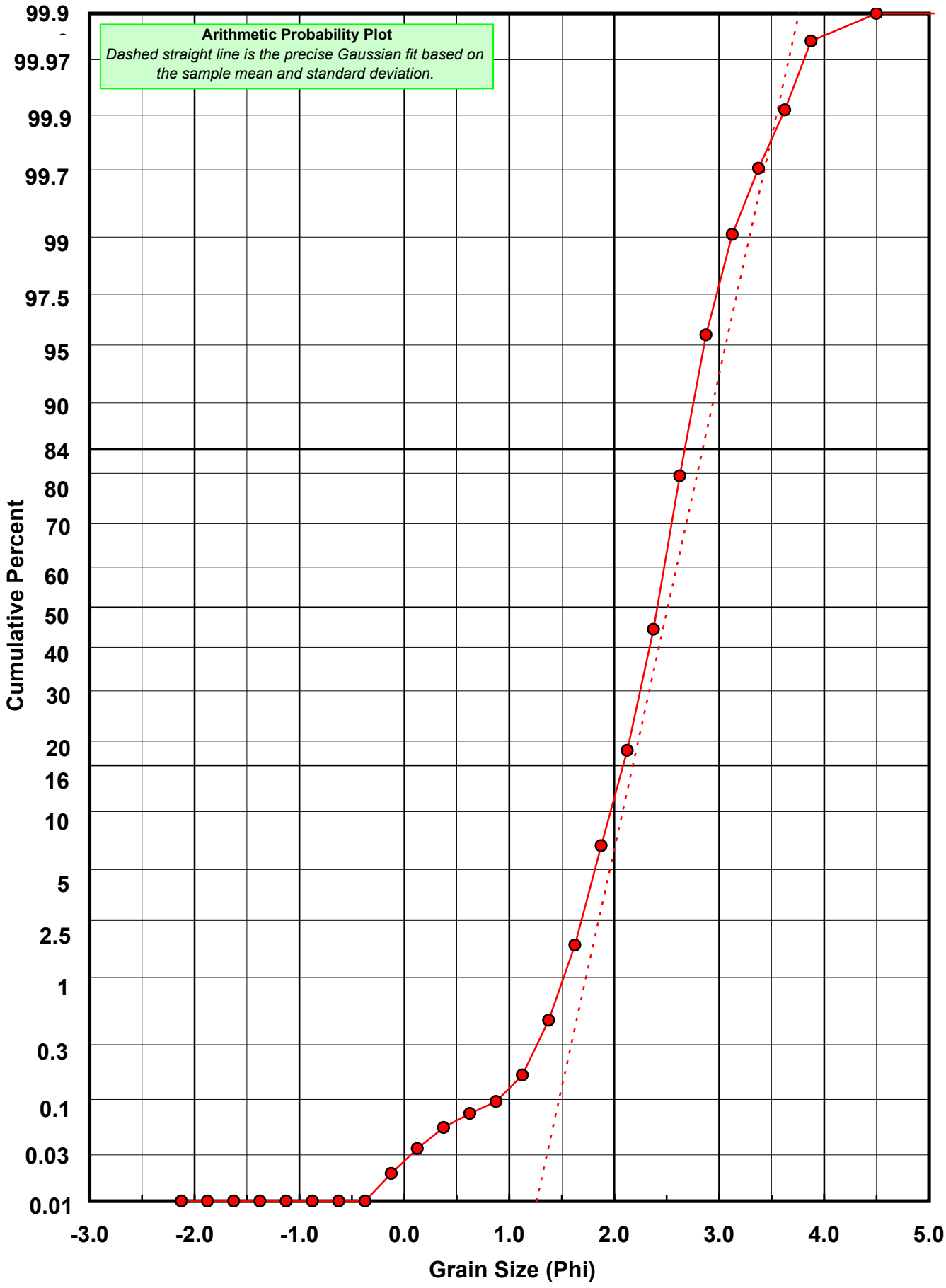
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-05-MB

Total Carbonate Mass: 2.185 grams

% Carbonate: 1.3 %

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	0.010	0.458	0.458
0.25	0.125	0.009	0.412	0.870
0.50	0.375	0.005	0.229	1.098
0.75	0.625	0.005	0.229	1.327
1.00	0.875	0.003	0.137	1.465
1.25	1.125	0.000	0.000	1.465
1.50	1.375	0.010	0.458	1.922
1.75	1.625	0.003	0.137	2.059
2.00	1.875	0.029	1.327	3.387
2.25	2.125	0.000	0.000	3.387
2.50	2.375	0.000	0.000	3.387
2.75	2.625	0.549	25.126	28.513
3.00	2.875	1.146	52.449	80.961
3.25	3.125	0.350	16.018	96.979
3.50	3.375	0.060	2.746	99.725
3.75	3.625	0.000	0.000	99.725
4.00	3.875	0.006	0.275	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.8082	phi	(0.1428 mm)
Standard Dev:	0.4004	phi-units	(0.7577 mm)
Skewness:	-4.3045	dimensionless	
Kurtosis:	28.9556	dimensionless	
5th Moment:	-189.2276	dimensionless	
6th Moment:	1287.6170	dimensionless	
RARD *	0.1426	dimensionless	
Median	2.7274	phi	(0.151 mm)

* RARD = reciprocal absolute relative dispersion (see below)

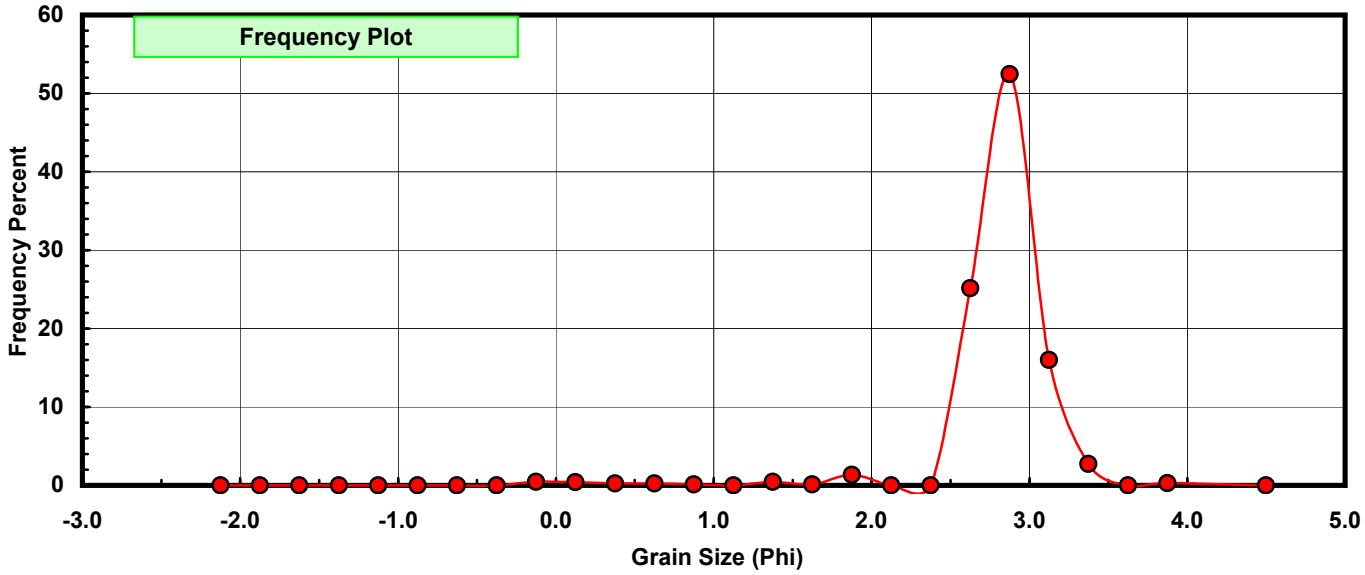
Statistical Explanation

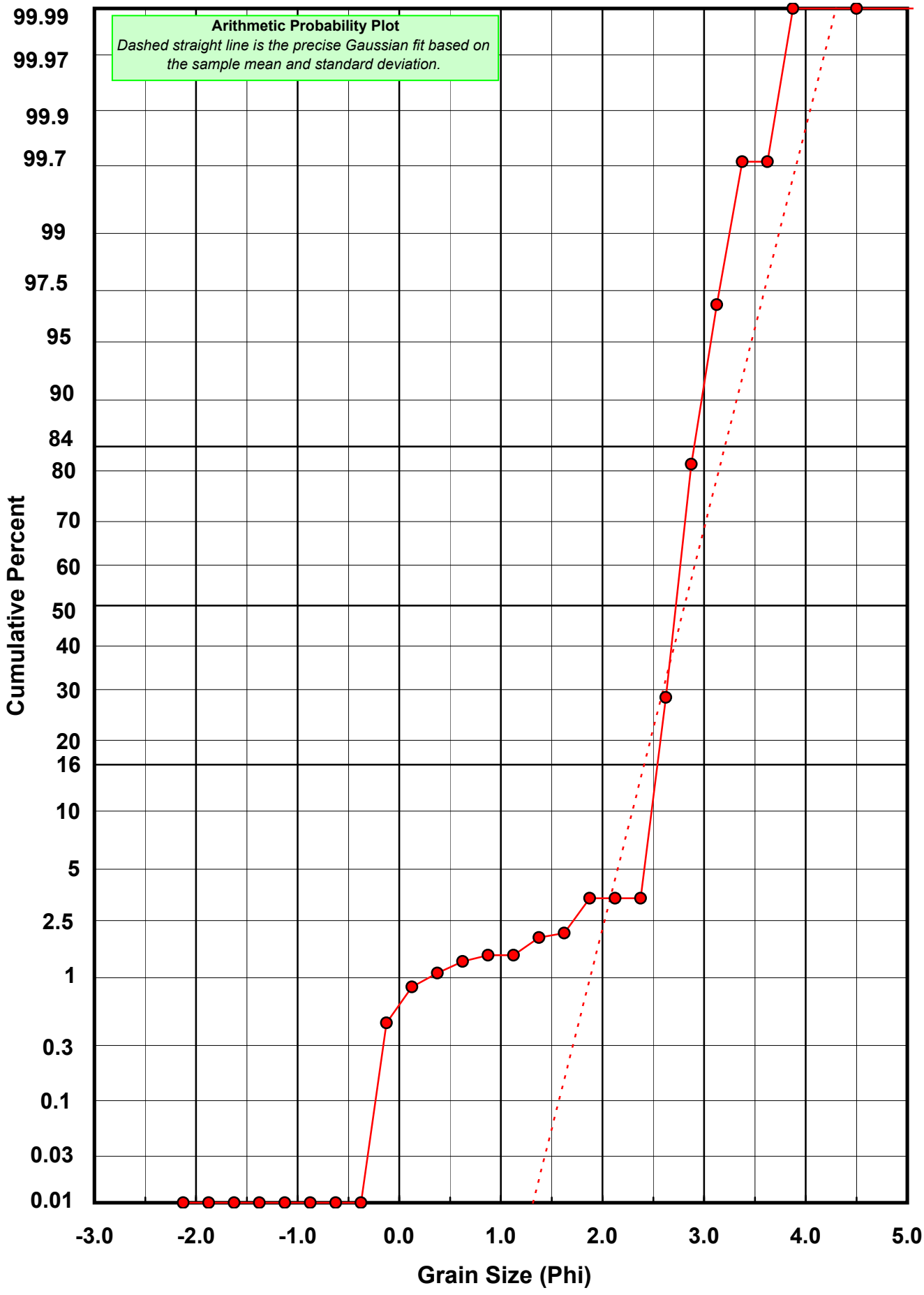
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-05-MB

Total Digested Mass: 52.600 grams

% Silica: 98.7 %

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	0.006	0.011	0.011
0.75	0.625	0.005	0.010	0.021
1.00	0.875	0.008	0.015	0.036
1.25	1.125	0.039	0.074	0.110
1.50	1.375	0.156	0.297	0.407
1.75	1.625	0.655	1.245	1.652
2.00	1.875	2.637	5.013	6.665
2.25	2.125	6.786	12.901	19.567
2.50	2.375	14.840	28.213	47.779
2.75	2.625	18.038	34.293	82.072
3.00	2.875	7.533	14.321	96.394
3.25	3.125	1.457	2.770	99.163
3.50	3.375	0.302	0.574	99.738
3.75	3.625	0.106	0.202	99.939
4.00	3.875	0.032	0.061	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.4911	phi	(0.1779 mm)
Standard Dev:	0.3231	phi-units	(0.7994 mm)
Skewness:	-0.3157	dimensionless	
Kurtosis:	4.2113	dimensionless	
5th Moment:	-4.2558	dimensionless	
6th Moment:	44.2452	dimensionless	
RARD *	0.1297	dimensionless	
Median	2.3912	phi	(0.1906 mm)

* RARD = reciprocal absolute relative dispersion (see below)

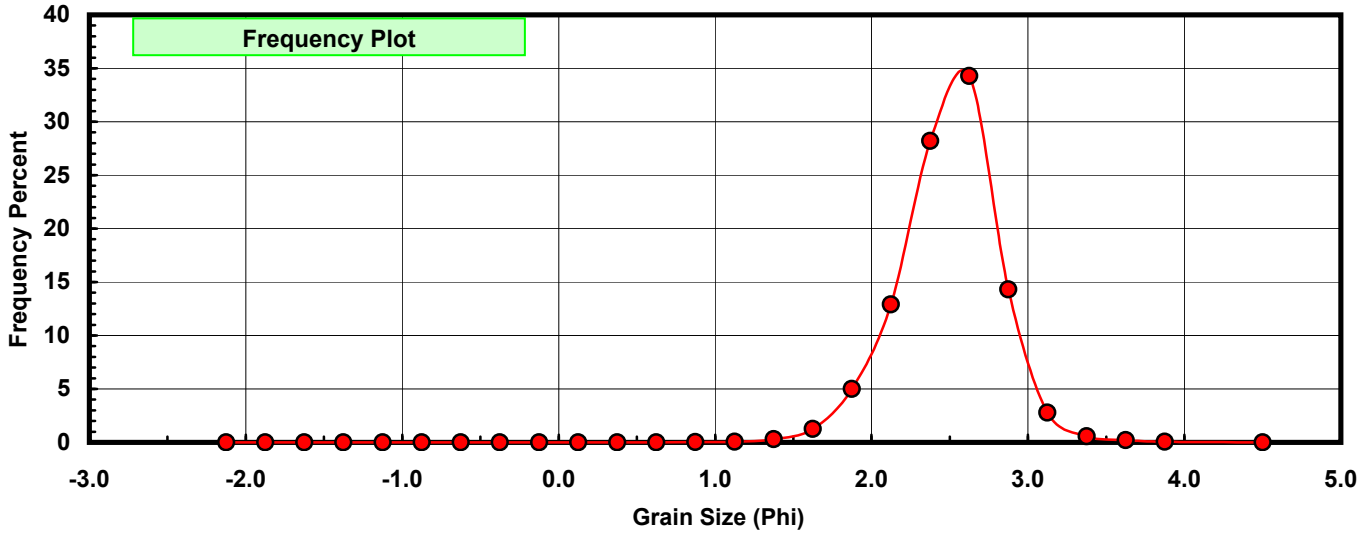
Statistical Explanation

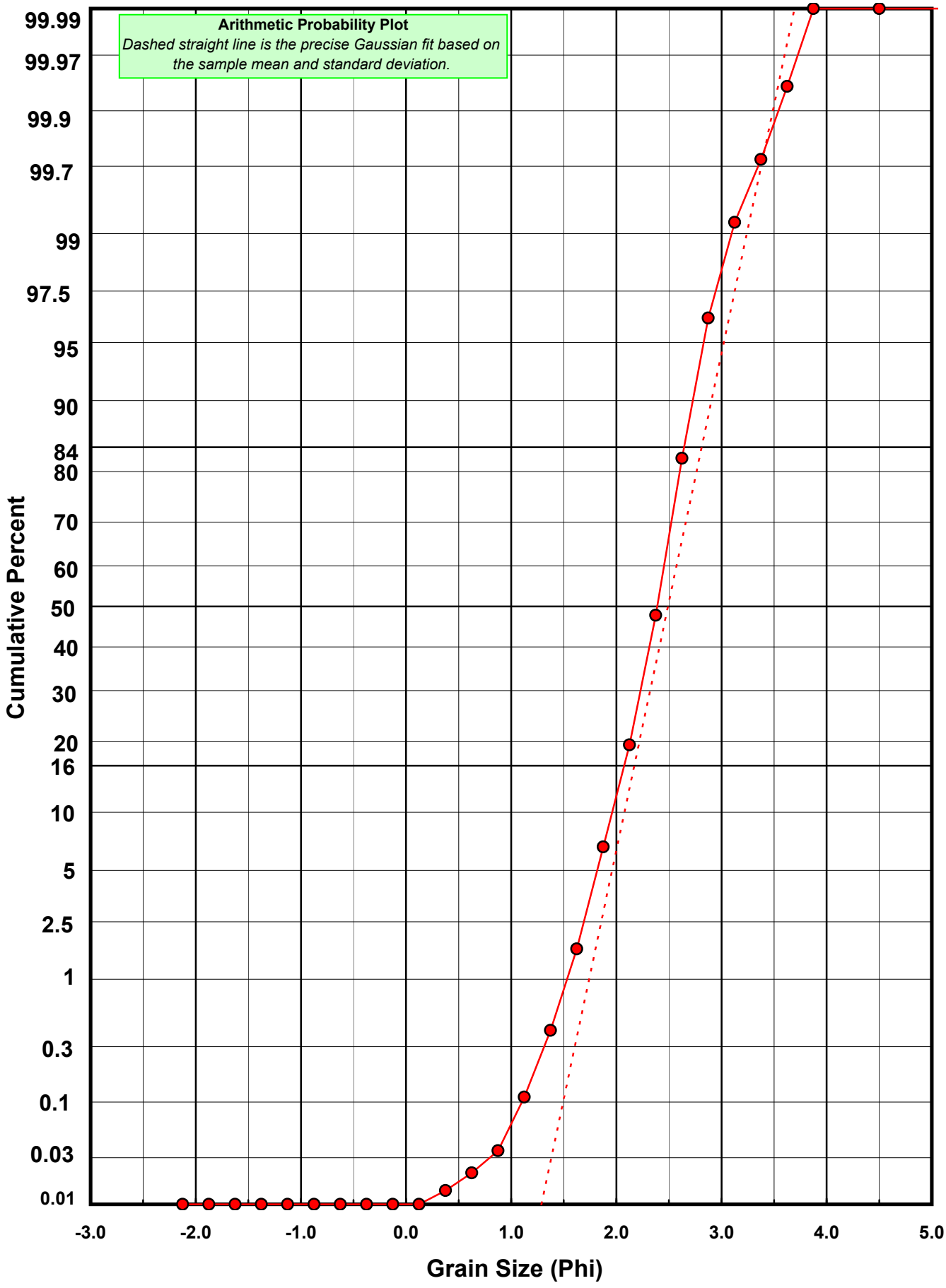
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)