

Onshore Grab Sample

Sample: DU-09-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 16' 29.1"
Longitude: 81° 23' 6.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	52.733 grams
Total Fines in Sample	0.554 grams
Total Percent Fines	1.04 %

Dry Sieving Summary

Total Sample Weight	52.158 grams
Total Digested Weight	51.060 grams
Total Carbonate Weight	1.098 grams
Total Silica %	97.89 %
Total Carbonate %	2.11 %
Carbonate/Silica Ratio	0.022

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-09-MB

Total Sample Mass: 52.158 grams

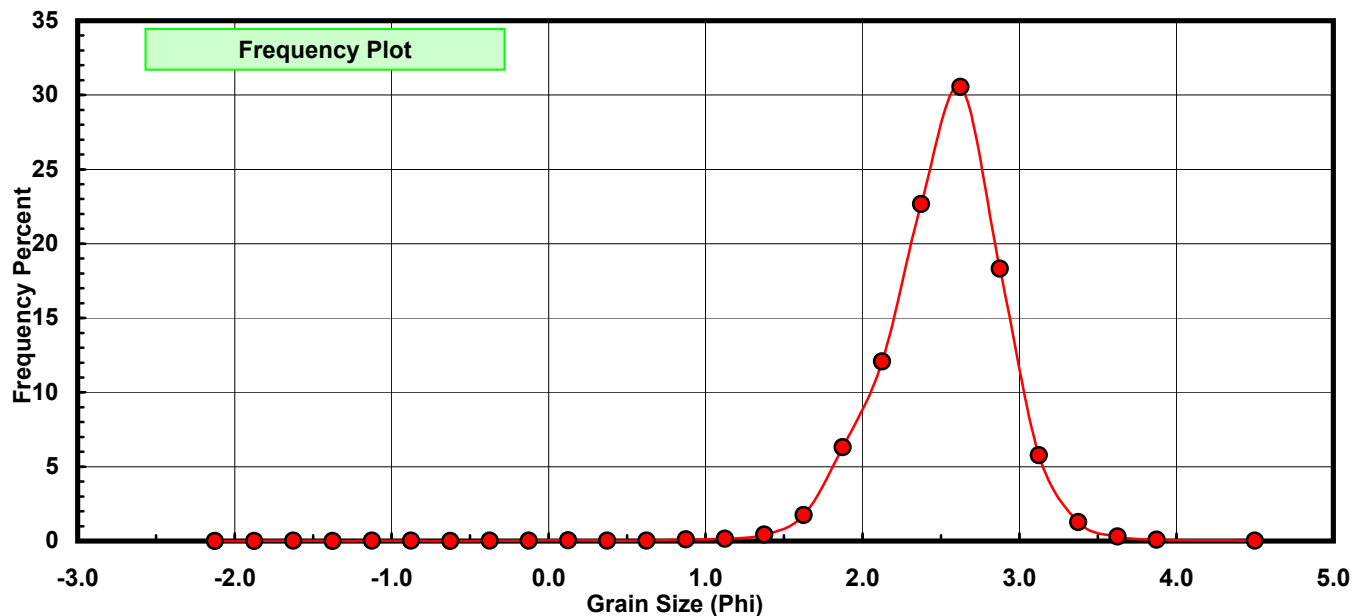
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.013	0.025	0.025
-1.25	-1.375	0.000	0.000	0.025
-1.00	-1.125	0.015	0.029	0.054
-0.75	-0.875	0.006	0.012	0.065
-0.50	-0.625	0.005	0.010	0.075
-0.25	-0.375	0.008	0.015	0.090
0.00	-0.125	0.009	0.017	0.107
0.25	0.125	0.018	0.035	0.142
0.50	0.375	0.016	0.031	0.173
0.75	0.625	0.016	0.031	0.203
1.00	0.875	0.053	0.102	0.305
1.25	1.125	0.084	0.161	0.466
1.50	1.375	0.226	0.433	0.899
1.75	1.625	0.906	1.737	2.636
2.00	1.875	3.285	6.298	8.934
2.25	2.125	6.303	12.084	21.019
2.50	2.375	11.826	22.673	43.692
2.75	2.625	15.935	30.551	74.244
3.00	2.875	9.552	18.314	92.557
3.25	3.125	3.010	5.771	98.328
3.50	3.375	0.659	1.263	99.592
3.75	3.625	0.154	0.295	99.887
4.00	3.875	0.047	0.090	99.977
5.00	4.500	0.012	0.023	100.000

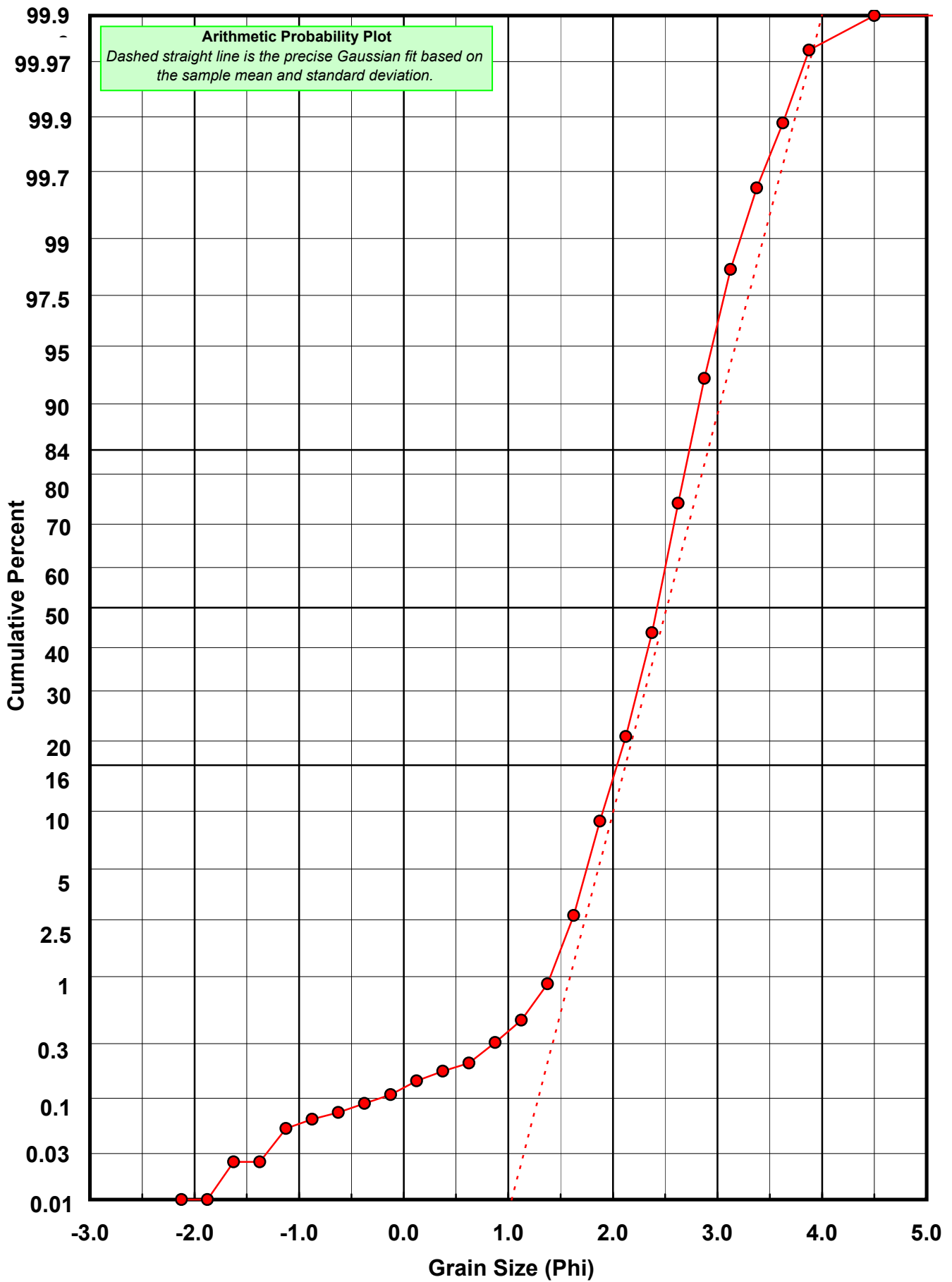
Statistical Results			
Mean:	2.5163	phi	(0.1748 mm)
Standard Dev:	0.3983	phi-units	(0.7587 mm)
Skewness:	-1.1274	dimensionless	
Kurtosis:	10.6707	dimensionless	
5th Moment:	-70.0248	dimensionless	
6th Moment:	648.2462	dimensionless	
RARD *	0.1583	dimensionless	
Median	2.4266	phi	(0.186 mm)

* 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)





Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: DU-09-MB

Total Carbonate Mass: 1.481 grams

% Carbonate: 2.1 %

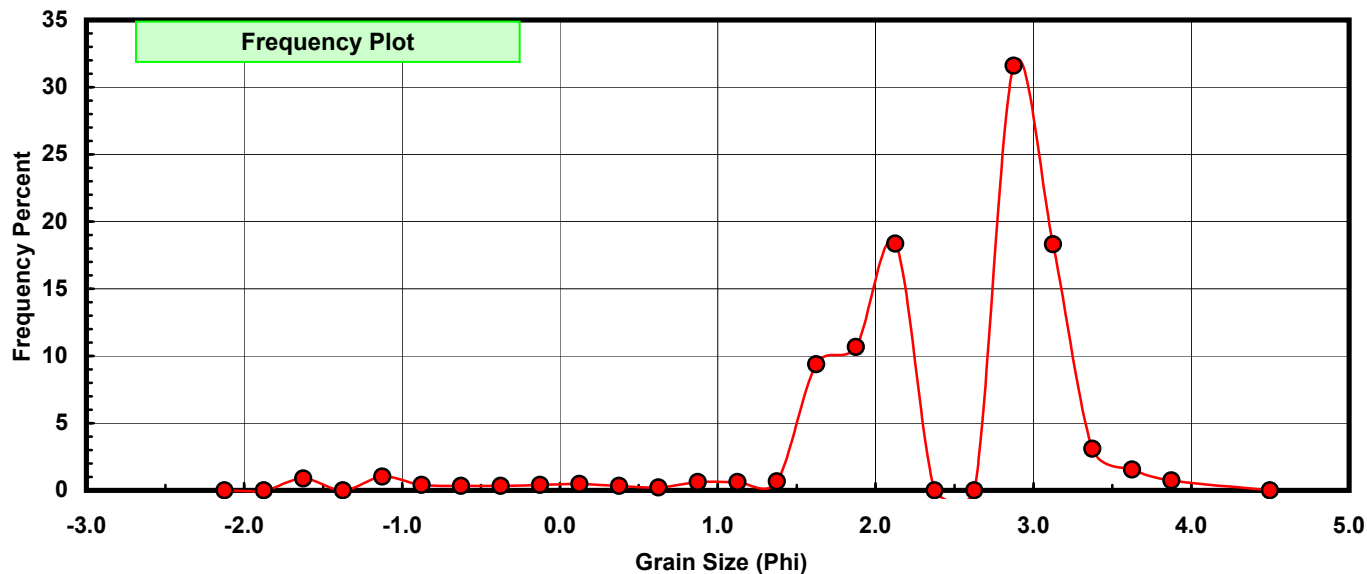
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.013	0.878	0.878
-1.25	-1.375	0.000	0.000	0.878
-1.00	-1.125	0.015	1.013	1.891
-0.75	-0.875	0.006	0.405	2.296
-0.50	-0.625	0.005	0.338	2.633
-0.25	-0.375	0.005	0.338	2.971
0.00	-0.125	0.006	0.405	3.376
0.25	0.125	0.007	0.473	3.849
0.50	0.375	0.005	0.338	4.186
0.75	0.625	0.003	0.203	4.389
1.00	0.875	0.009	0.608	4.997
1.25	1.125	0.009	0.608	5.604
1.50	1.375	0.010	0.675	6.280
1.75	1.625	0.139	9.386	15.665
2.00	1.875	0.158	10.668	26.334
2.25	2.125	0.272	18.366	44.700
2.50	2.375	0.000	0.000	44.700
2.75	2.625	0.000	0.000	44.700
3.00	2.875	0.468	31.600	76.300
3.25	3.125	0.271	18.298	94.598
3.50	3.375	0.046	3.106	97.704
3.75	3.625	0.023	1.553	99.257
4.00	3.875	0.011	0.743	100.000
5.00	4.500	0.000	0.000	100.000

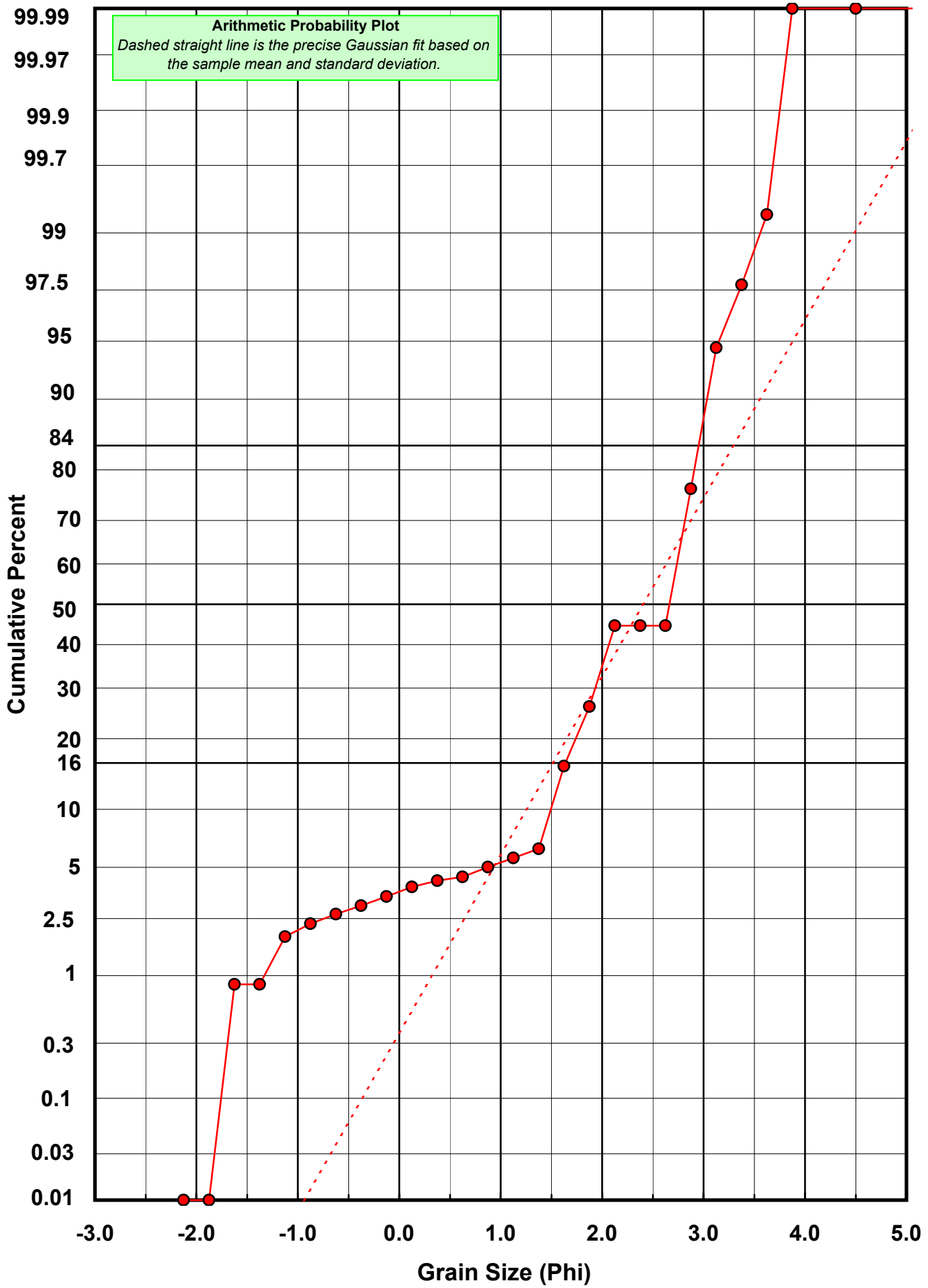
Statistical Results			
Mean:	2.4045	phi	(0.1889 mm)
Standard Dev:	0.8979	phi-units	(0.5367 mm)
Skewness:	-1.9546	dimensionless	
Kurtosis:	8.4242	dimensionless	
5th Moment:	-31.9521	dimensionless	
6th Moment:	131.1521	dimensionless	
RARD *	0.3734	dimensionless	
Median	2.6669	phi	(0.1575 mm)

* 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)





Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-09-MB

Total Digested Mass: 51.049 grams

% Silica: 97.9 %

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	0.003	0.006	0.012
0.25	0.125	0.011	0.022	0.033
0.50	0.375	0.011	0.022	0.055
0.75	0.625	0.013	0.025	0.080
1.00	0.875	0.044	0.086	0.167
1.25	1.125	0.075	0.147	0.313
1.50	1.375	0.216	0.423	0.737
1.75	1.625	0.767	1.502	2.239
2.00	1.875	3.127	6.125	8.365
2.25	2.125	6.031	11.814	20.179
2.50	2.375	12.100	23.703	43.881
2.75	2.625	16.045	31.431	75.312
3.00	2.875	9.084	17.795	93.107
3.25	3.125	2.739	5.365	98.472
3.50	3.375	0.613	1.201	99.673
3.75	3.625	0.131	0.257	99.929
4.00	3.875	0.036	0.071	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5186	phi	(0.1745 mm)
Standard Dev:	0.3703	phi-units	(0.7736 mm)
Skewness:	-0.5067	dimensionless	
Kurtosis:	4.7096	dimensionless	
5th Moment:	-11.2376	dimensionless	
6th Moment:	76.8211	dimensionless	
RARD *	0.1470	dimensionless	
Median	2.4237	phi	(0.1864 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)
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> 1.33	Poor homogeneity (e.g., glacial)

