

Onshore Grab Sample

Sample: DU-11-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Duval
Latitude: 30° 30' 28.0"
Longitude: 81° 27' 14.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	54.034 grams
Total Fines in Sample	0.557 grams
Total Percent Fines	1.02 %

Dry Sieving Summary

Total Sample Weight	53.528 grams
Total Digested Weight	53.165 grams
Total Carbonate Weight	0.363 grams
Total Silica %	99.32 %
Total Carbonate %	0.68 %
Carbonate/Silica Ratio	0.007

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: DU-11-MB

Total Sample Mass: 53.528 grams

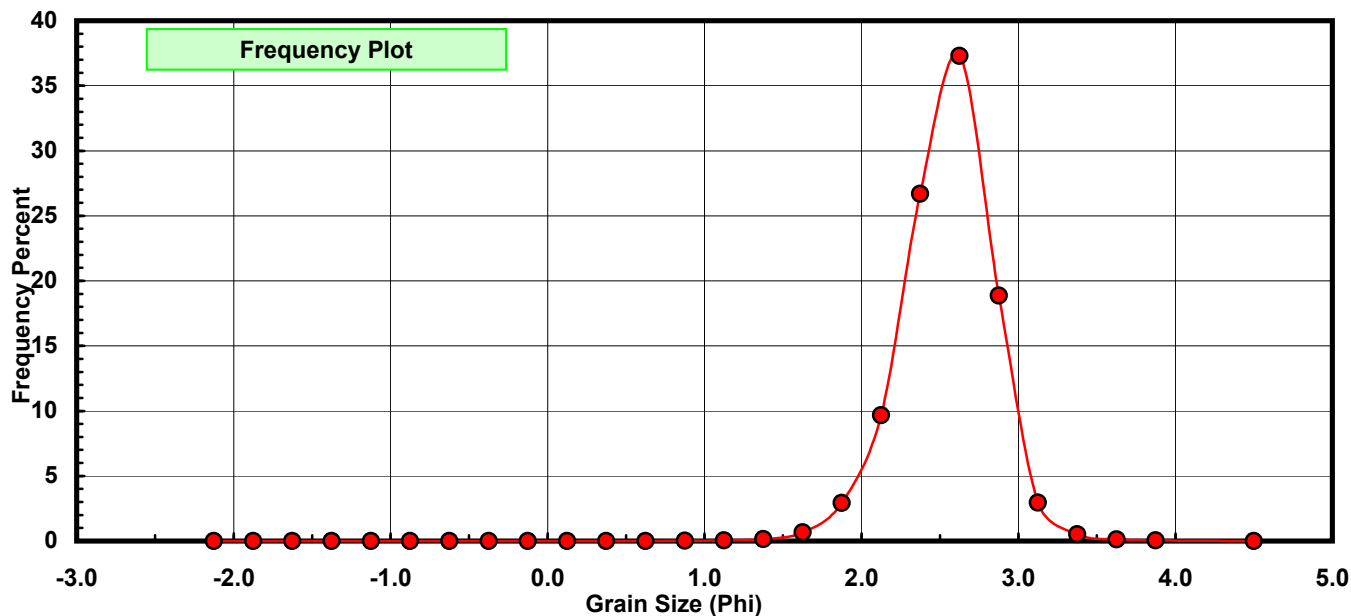
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.003	0.006	0.006
0.00	-0.125	0.004	0.007	0.013
0.25	0.125	0.005	0.009	0.022
0.50	0.375	0.004	0.007	0.030
0.75	0.625	0.005	0.009	0.039
1.00	0.875	0.007	0.013	0.052
1.25	1.125	0.022	0.041	0.093
1.50	1.375	0.080	0.149	0.243
1.75	1.625	0.359	0.671	0.914
2.00	1.875	1.561	2.916	3.830
2.25	2.125	5.170	9.658	13.488
2.50	2.375	14.293	26.702	40.190
2.75	2.625	19.967	37.302	77.492
3.00	2.875	10.104	18.876	96.368
3.25	3.125	1.574	2.941	99.309
3.50	3.375	0.278	0.519	99.828
3.75	3.625	0.070	0.131	99.959
4.00	3.875	0.020	0.037	99.996
5.00	4.500	0.002	0.004	100.000

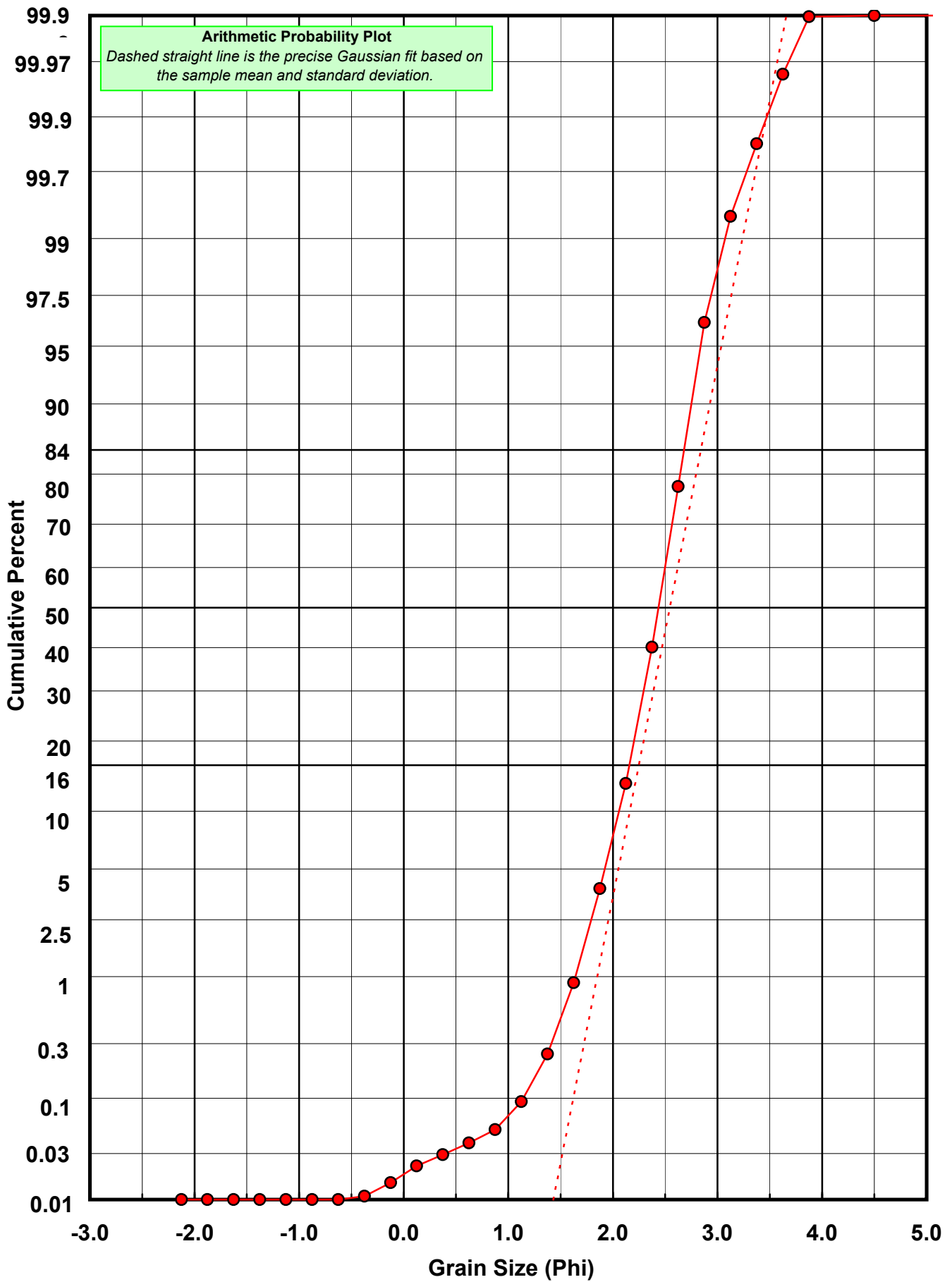
Statistical Results			
Mean:	2.5453	phi	(0.1713 mm)
Standard Dev:	0.2990	phi-units	(0.8128 mm)
Skewness:	-0.5261	dimensionless	
Kurtosis:	5.7288	dimensionless	
5th Moment:	-18.5967	dimensionless	
6th Moment:	170.5791	dimensionless	
RARD *	0.1175	dimensionless	
Median	2.4407	phi	(0.1842 mm)

* 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-11-MB

Total Carbonate Mass: 2.243 grams

% Carbonate: 0.7 %

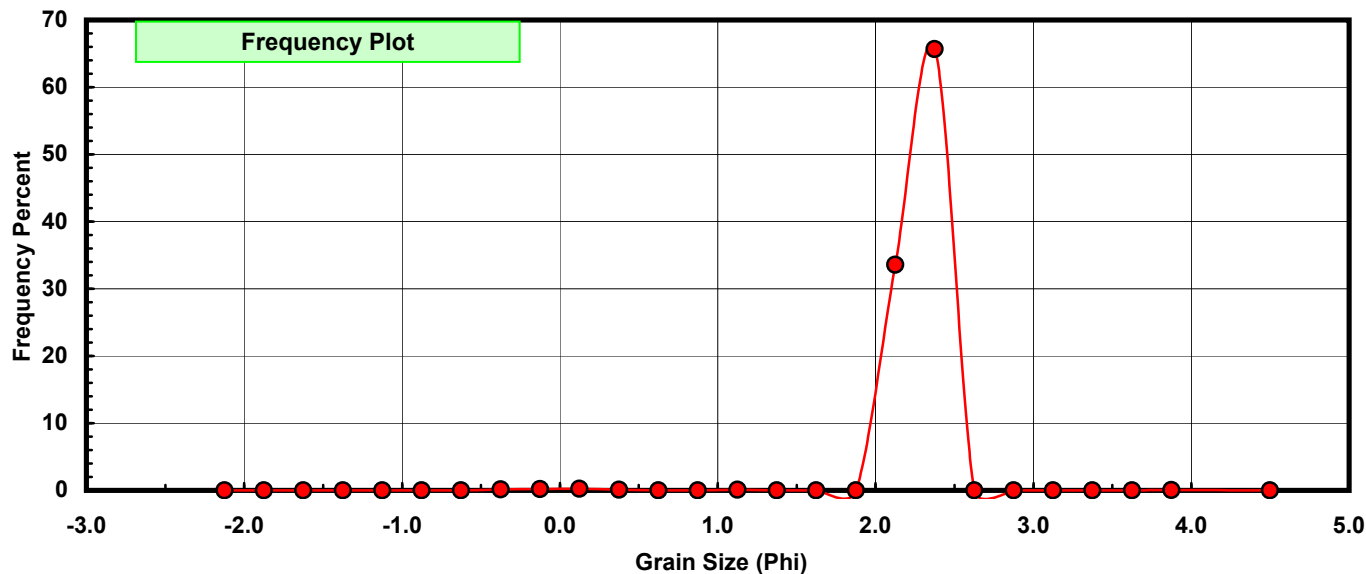
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.000
-0.25	-0.375	0.003	0.134	0.134
0.00	-0.125	0.004	0.178	0.312
0.25	0.125	0.005	0.223	0.535
0.50	0.375	0.002	0.089	0.624
0.75	0.625	0.000	0.000	0.624
1.00	0.875	0.000	0.000	0.624
1.25	1.125	0.002	0.089	0.713
1.50	1.375	0.000	0.000	0.713
1.75	1.625	0.000	0.000	0.713
2.00	1.875	0.000	0.000	0.713
2.25	2.125	0.753	33.571	34.284
2.50	2.375	1.473	65.671	99.955
2.75	2.625	0.000	0.000	99.955
3.00	2.875	0.000	0.000	99.955
3.25	3.125	0.000	0.000	99.955
3.50	3.375	0.000	0.000	99.955
3.75	3.625	0.000	0.000	99.955
4.00	3.875	0.001	0.045	100.000
5.00	4.500	0.000	0.000	100.000

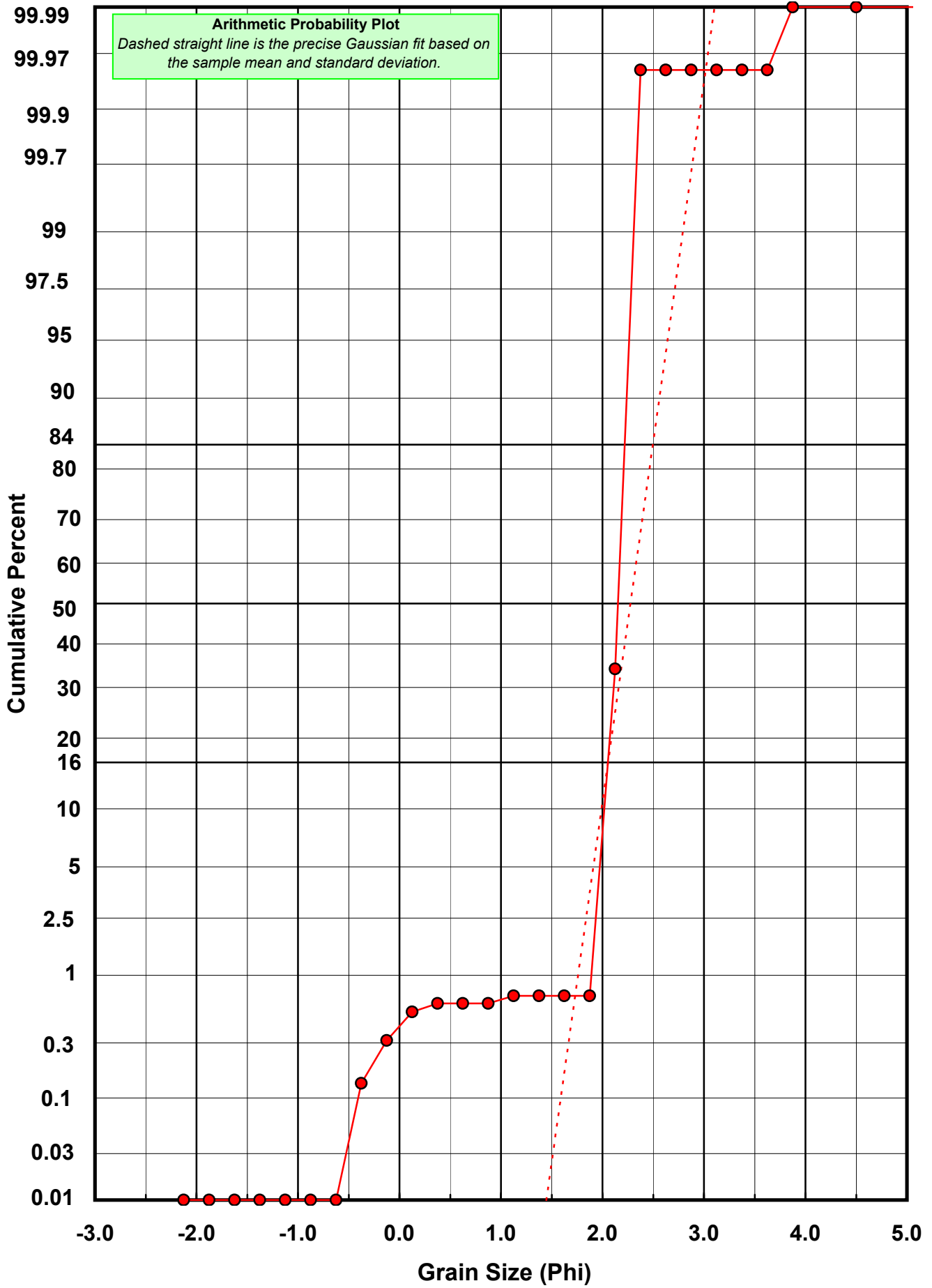
Statistical Results			
Mean:	2.2757	phi	(0.2065 mm)
Standard Dev:	0.2228	phi-units	(0.8569 mm)
Skewness:	-7.0480	dimensionless	
Kurtosis:	76.8622	dimensionless	
5th Moment:	-800.2169	dimensionless	
6th Moment:	8815.0128	dimensionless	
RARD *	0.0979	dimensionless	
Median	2.1848	phi	(0.2199 mm)

* 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-11-MB

Total Digested Mass: 53.159 grams

% Silica: 99.3 %

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	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.002	0.004	0.004
0.75	0.625	0.009	0.017	0.021
1.00	0.875	0.007	0.013	0.034
1.25	1.125	0.020	0.038	0.071
1.50	1.375	0.080	0.150	0.222
1.75	1.625	0.372	0.700	0.922
2.00	1.875	1.597	3.004	3.926
2.25	2.125	4.417	8.309	12.235
2.50	2.375	12.820	24.116	36.351
2.75	2.625	20.387	38.351	74.702
3.00	2.875	11.147	20.969	95.671
3.25	3.125	1.891	3.557	99.229
3.50	3.375	0.314	0.591	99.819
3.75	3.625	0.077	0.145	99.964
4.00	3.875	0.019	0.036	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5671	phi	(0.1687 mm)
Standard Dev:	0.2998	phi-units	(0.8124 mm)
Skewness:	-0.4782	dimensionless	
Kurtosis:	4.4971	dimensionless	
5th Moment:	-7.5675	dimensionless	
6th Moment:	55.5816	dimensionless	
RARD *	0.1168	dimensionless	
Median	2.4640	phi	(0.1812 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)

