Onshore Grab Sample

Sample: NA-14-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Nassau
Latitude: 30° 31' 20.4"
Longitude: 81° 26' 12.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	62.923	grams
Total Fines in Sample	0.061	grams
Total Percent Fines	0.10	%

Dry Sieving Summary

Total Sample Weight	62.769	grams
Total Digested Weight	62.193	grams
Total Carbonate Weight	0.576	grams
Total Silica %	99.08	%
Total Carbonate %	0.92	%
Carbonate/Silica Ratio	0.009	

General Comments:

Pre-Disgestion: -1.00, -0.75, -0.25 phi are Organics Only; Post-Digestion: -1.25 through -0.50, 0.25 phi are Organics Only

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-14-BB

Total Sample Mass: 62.769 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	0.019	0.030	0.030
-1.25	-1.375	0.014	0.022	0.053
-1.00	-1.125	0.001	0.002	0.054
-0.75	-0.875	0.001	0.002	0.056
-0.50	-0.625	0.003	0.005	0.061
-0.25	-0.375	0.001	0.002	0.062
0.00	-0.125	0.003	0.005	0.067
0.25	0.125	0.009	0.014	0.081
0.50	0.375	0.009	0.014	0.096
0.75	0.625	0.006	0.010	0.105
1.00	0.875	0.026	0.041	0.147
1.25	1.125	0.076	0.121	0.268
1.50	1.375	0.226	0.360	0.628
1.75	1.625	0.725	1.155	1.783
2.00	1.875	2.229	3.551	5.334
2.25	2.125	5.056	8.055	13.389
2.50	2.375	11.394	18.152	31.541
2.75	2.625	22.094	35.199	66.740
3.00	2.875	15.596	24.847	91.587
3.25	3.125	4.447	7.085	98.671
3.50	3.375	0.592	0.943	99.614
3.75	3.625	0.156	0.249	99.863
4.00	3.875	0.067	0.107	99.970
5.00	4.500	0.019	0.030	100.000

Statistical Results			
Mean:	2.5996	phi	(0.165 mm)
Standard Dev:	0.3610	phi-units	(0.7786 mm)
Skewness:	-1.4358	dimensionless	
Kurtosis:	14.2988	dimensionless	
5th Moment:	-120.0313	dimensionless	
6th Moment:	1326.8264	dimensionless	
RARD *	0.1389	dimensionless	
Median	2.5061	phi	(0.176 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

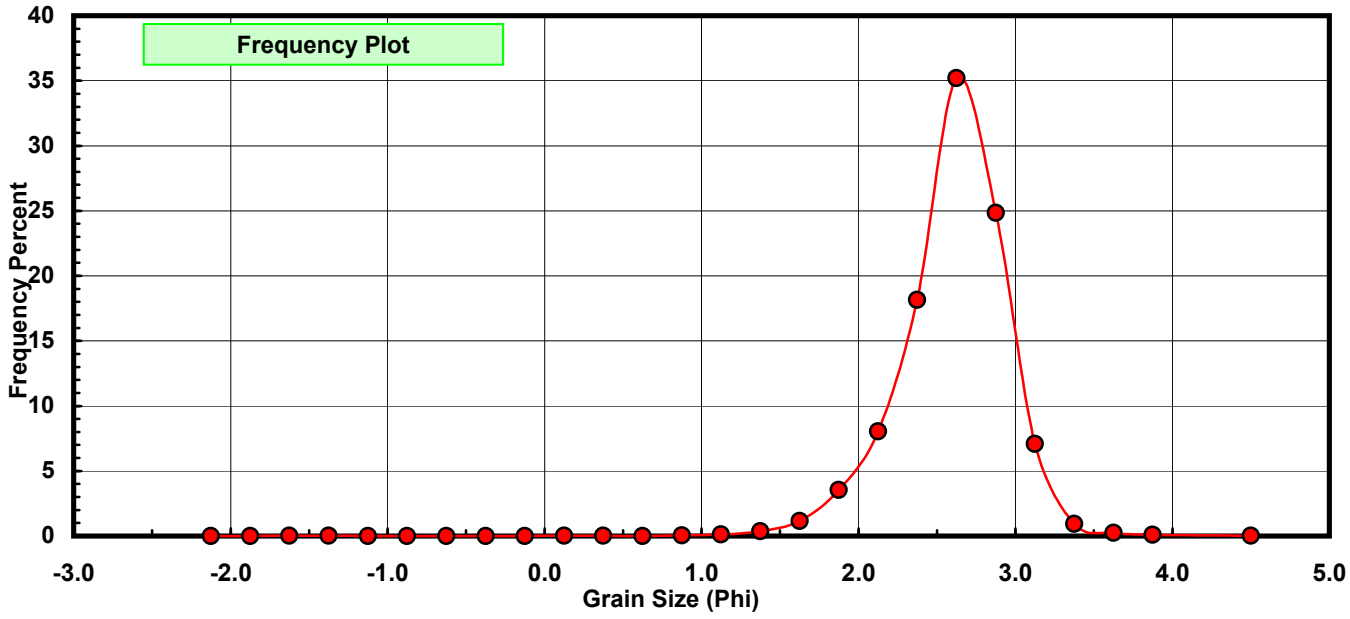
Statistical Explanation

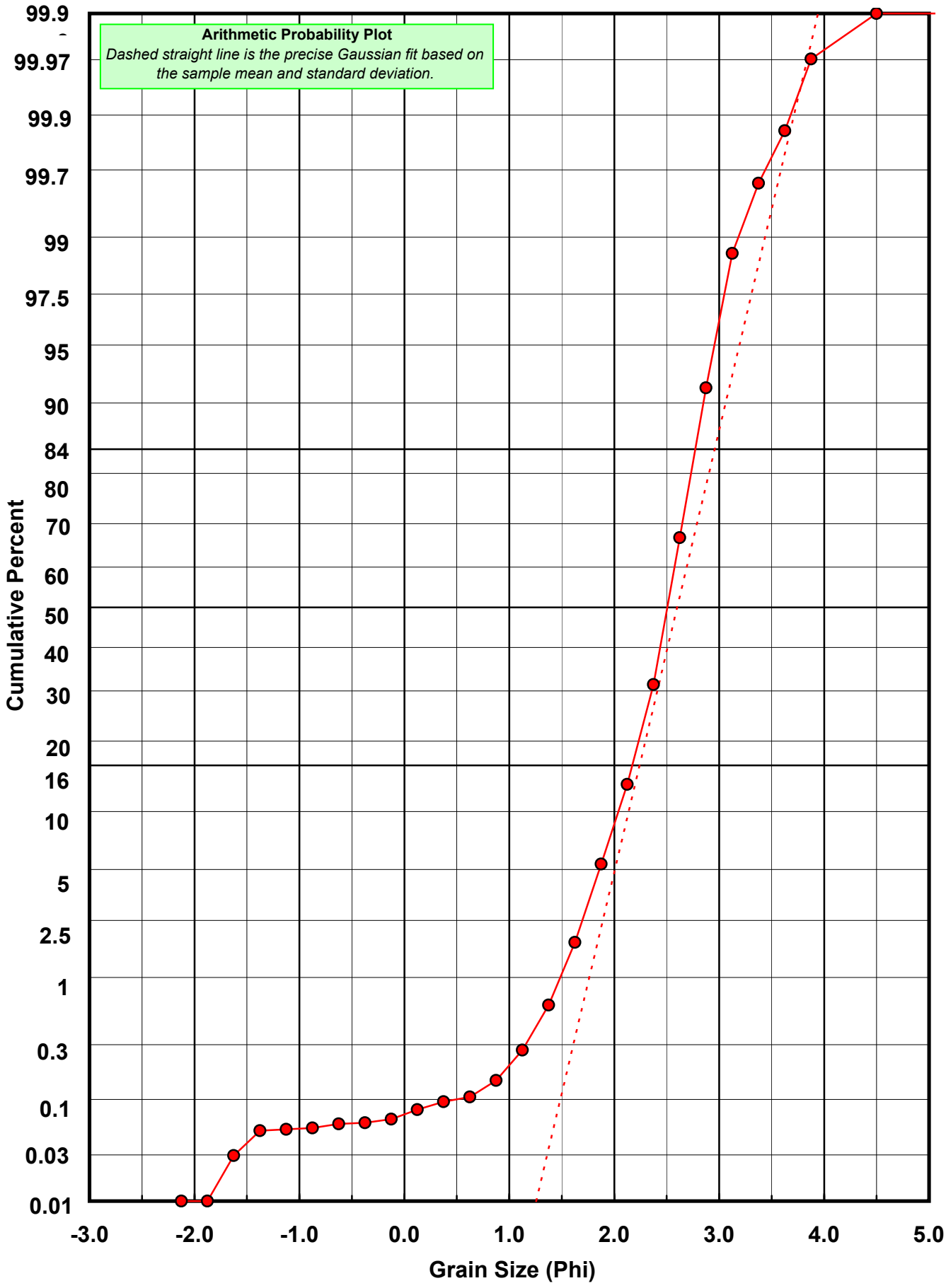
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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: NA-14-BB

Total Carbonate Mass: 1.696 grams

% Carbonate: 0.9 %

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	0.019	1.120	1.120
-1.25	-1.375	0.009	0.531	1.651
-1.00	-1.125	0.001	0.059	1.710
-0.75	-0.875	0.000	0.000	1.710
-0.50	-0.625	0.002	0.118	1.828
-0.25	-0.375	0.001	0.059	1.887
0.00	-0.125	0.000	0.000	1.887
0.25	0.125	0.005	0.295	2.182
0.50	0.375	0.003	0.177	2.358
0.75	0.625	0.000	0.000	2.358
1.00	0.875	0.002	0.118	2.476
1.25	1.125	0.007	0.413	2.889
1.50	1.375	0.000	0.000	2.889
1.75	1.625	0.000	0.000	2.889
2.00	1.875	0.107	6.309	9.198
2.25	2.125	0.210	12.382	21.580
2.50	2.375	0.000	0.000	21.580
2.75	2.625	0.709	41.804	63.384
3.00	2.875	0.000	0.000	63.384
3.25	3.125	0.606	35.731	99.116
3.50	3.375	0.000	0.000	99.116
3.75	3.625	0.008	0.472	99.587
4.00	3.875	0.007	0.413	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6080	phi	(0.164 mm)
Standard Dev:	0.7213	phi-units	(0.6066 mm)
Skewness:	-3.5491	dimensionless	
Kurtosis:	20.2309	dimensionless	
5th Moment:	-112.3839	dimensionless	
6th Moment:	639.3885	dimensionless	
RARD *	0.2766	dimensionless	
Median	2.5450	phi	(0.1714 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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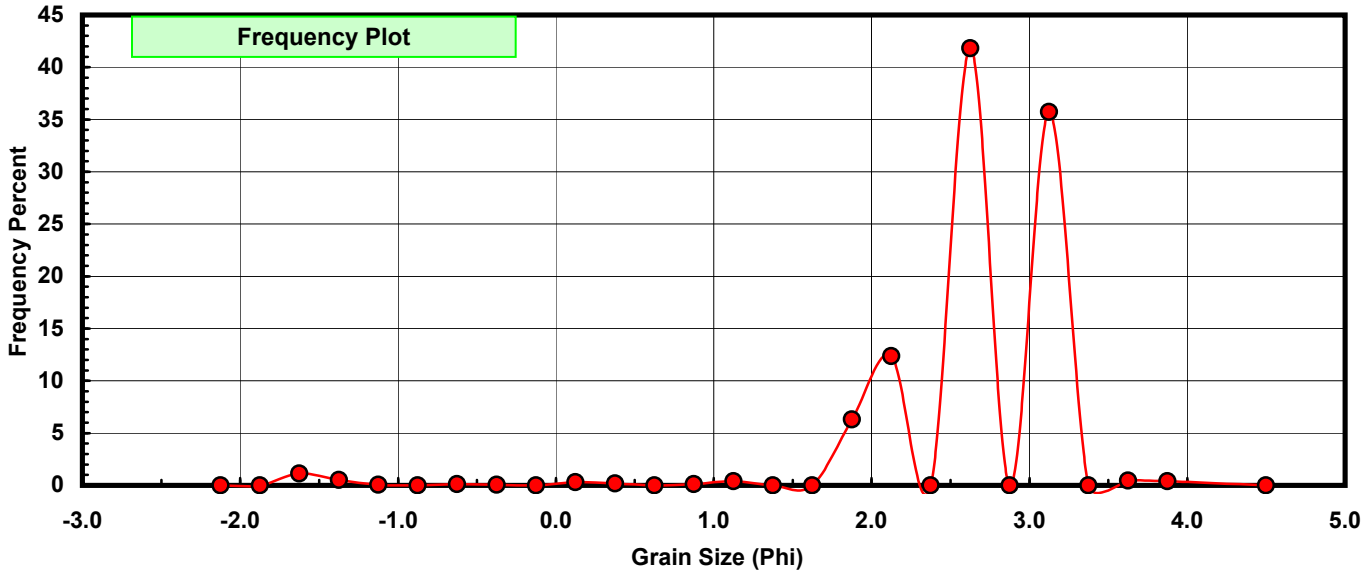

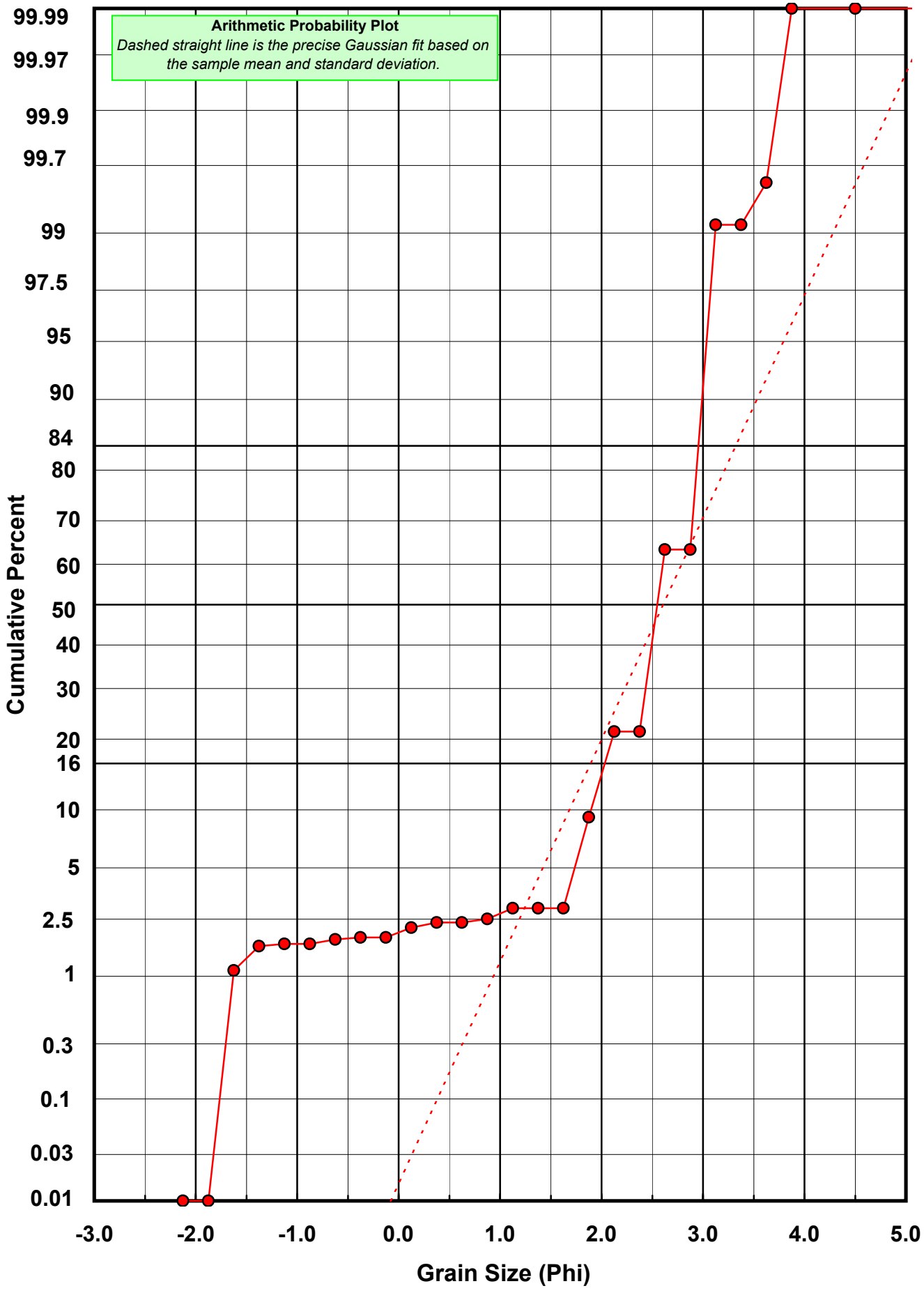
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
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60
50
40
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20
16
10
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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: NA-14-BB

Total Digested Mass: 62.172 grams

% Silica: 99.1 %

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	0.000	0.000	0.000
-1.25	-1.375	0.005	0.008	0.008
-1.00	-1.125	0.000	0.000	0.008
-0.75	-0.875	0.003	0.005	0.013
-0.50	-0.625	0.001	0.002	0.014
-0.25	-0.375	0.000	0.000	0.014
0.00	-0.125	0.003	0.005	0.019
0.25	0.125	0.004	0.006	0.026
0.50	0.375	0.006	0.010	0.035
0.75	0.625	0.007	0.011	0.047
1.00	0.875	0.024	0.039	0.085
1.25	1.125	0.069	0.111	0.196
1.50	1.375	0.232	0.373	0.569
1.75	1.625	0.812	1.306	1.875
2.00	1.875	2.122	3.413	5.289
2.25	2.125	4.846	7.795	13.083
2.50	2.375	11.604	18.664	31.747
2.75	2.625	21.385	34.397	66.144
3.00	2.875	16.378	26.343	92.487
3.25	3.125	3.841	6.178	98.665
3.50	3.375	0.622	1.000	99.665
3.75	3.625	0.148	0.238	99.903
4.00	3.875	0.060	0.097	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6003	phi	(0.1649 mm)
Standard Dev:	0.3456	phi-units	(0.787 mm)
Skewness:	-0.8852	dimensionless	
Kurtosis:	6.8276	dimensionless	
5th Moment:	-33.9379	dimensionless	
6th Moment:	319.5432	dimensionless	
RARD *	0.1329	dimensionless	
Median	2.5077	phi	(0.1758 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

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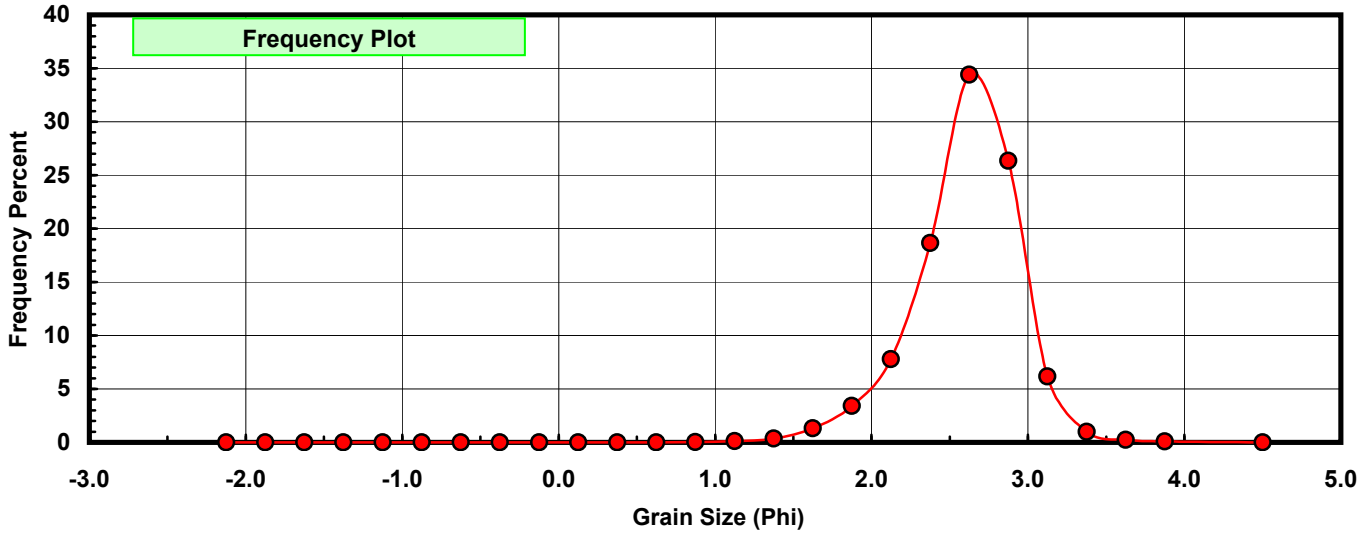

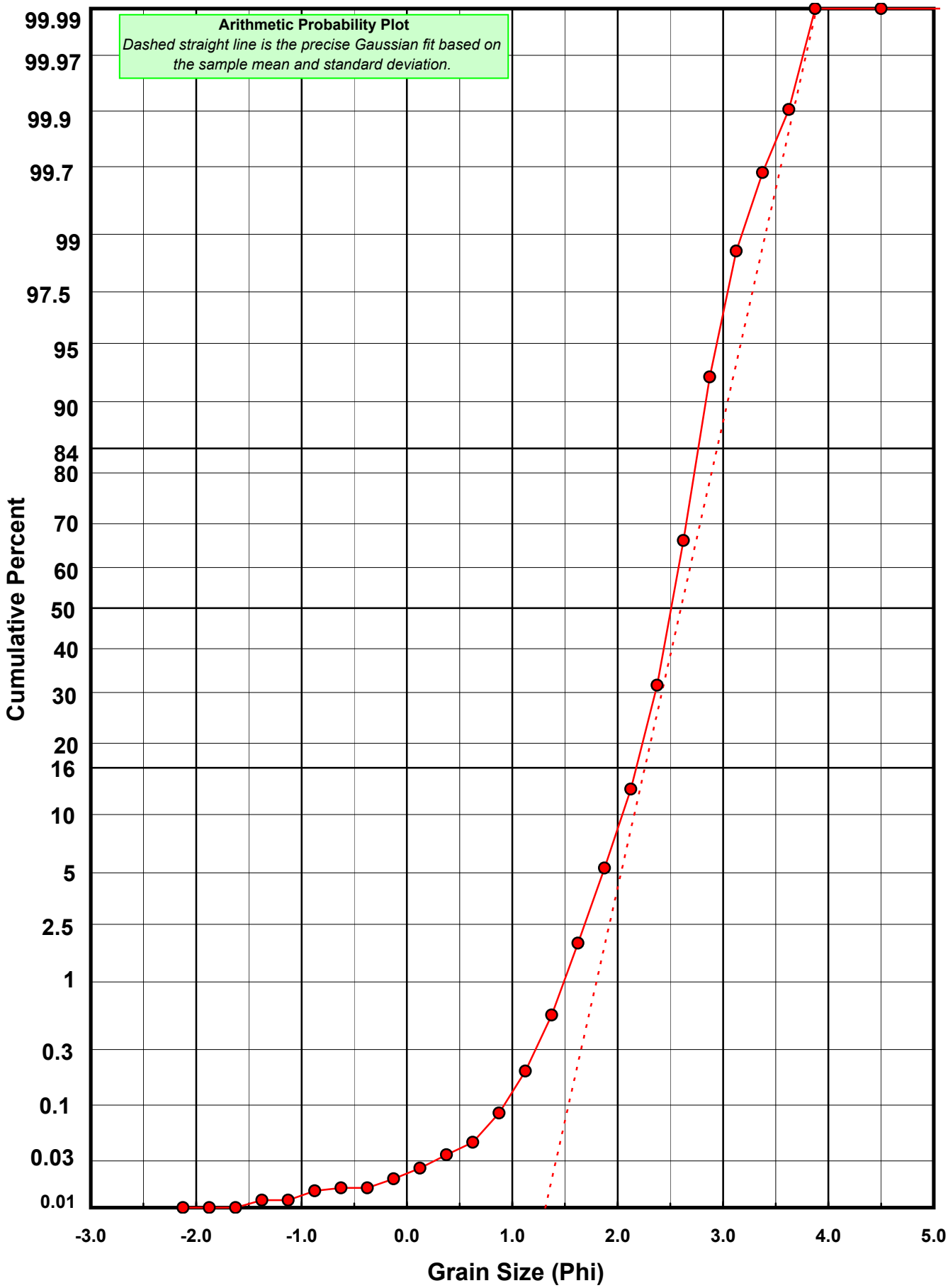
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Grain Size (Phi)