Onshore Grab Sample

Sample: NA-06-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Nassau
Latitude: 30° 38' 17.9"
Longitude: 81° 26' 10.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	54.322	grams
Total Fines in Sample	0.103	grams
Total Percent Fines	0.19	%

Dry Sieving Summary

Total Sample Weight	54.211	grams
Total Digested Weight	50.982	grams
Total Carbonate Weight	3.229	grams
Total Silica %	94.04	%
Total Carbonate %	5.96	%
Carbonate/Silica Ratio	0.063	

General Comments:

-2.0, -1.25 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-06-BB

Total Sample Mass: 54.211 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.027	0.050	0.050
-1.75	-1.875	0.034	0.063	0.113
-1.50	-1.625	0.000	0.000	0.113
-1.25	-1.375	0.008	0.015	0.127
-1.00	-1.125	0.012	0.022	0.149
-0.75	-0.875	0.045	0.083	0.232
-0.50	-0.625	0.126	0.232	0.465
-0.25	-0.375	0.141	0.260	0.725
0.00	-0.125	0.258	0.476	1.201
0.25	0.125	0.506	0.933	2.134
0.50	0.375	0.715	1.319	3.453
0.75	0.625	1.160	2.140	5.593
1.00	0.875	3.659	6.750	12.343
1.25	1.125	4.688	8.648	20.990
1.50	1.375	7.324	13.510	34.500
1.75	1.625	8.942	16.495	50.995
2.00	1.875	8.969	16.545	67.540
2.25	2.125	6.588	12.153	79.692
2.50	2.375	5.026	9.271	88.963
2.75	2.625	3.632	6.700	95.663
3.00	2.875	1.492	2.752	98.415
3.25	3.125	0.512	0.944	99.360
3.50	3.375	0.204	0.376	99.736
3.75	3.625	0.100	0.184	99.921
4.00	3.875	0.029	0.053	99.974
5.00	4.500	0.014	0.026	100.000

Statistical Results			
Mean:	1.7190	phi	(0.3038 mm)
Standard Dev:	0.6616	phi-units	(0.6322 mm)
Skewness:	-0.4673	dimensionless	
Kurtosis:	4.6061	dimensionless	
5th Moment:	-10.0045	dimensionless	
6th Moment:	61.5492	dimensionless	
RARD *	0.3849	dimensionless	
Median	1.6099	phi	(0.3276 mm)

* RARD = reciprocal absolute relative dispersion (see below)

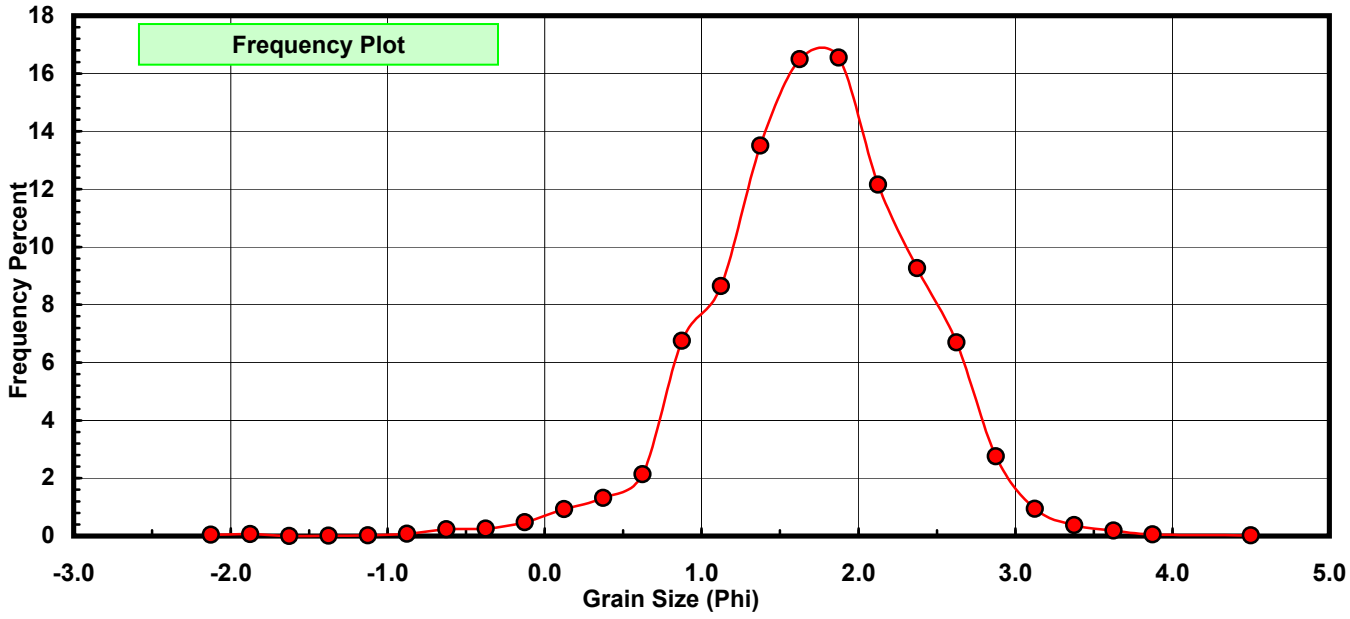
Statistical Explanation

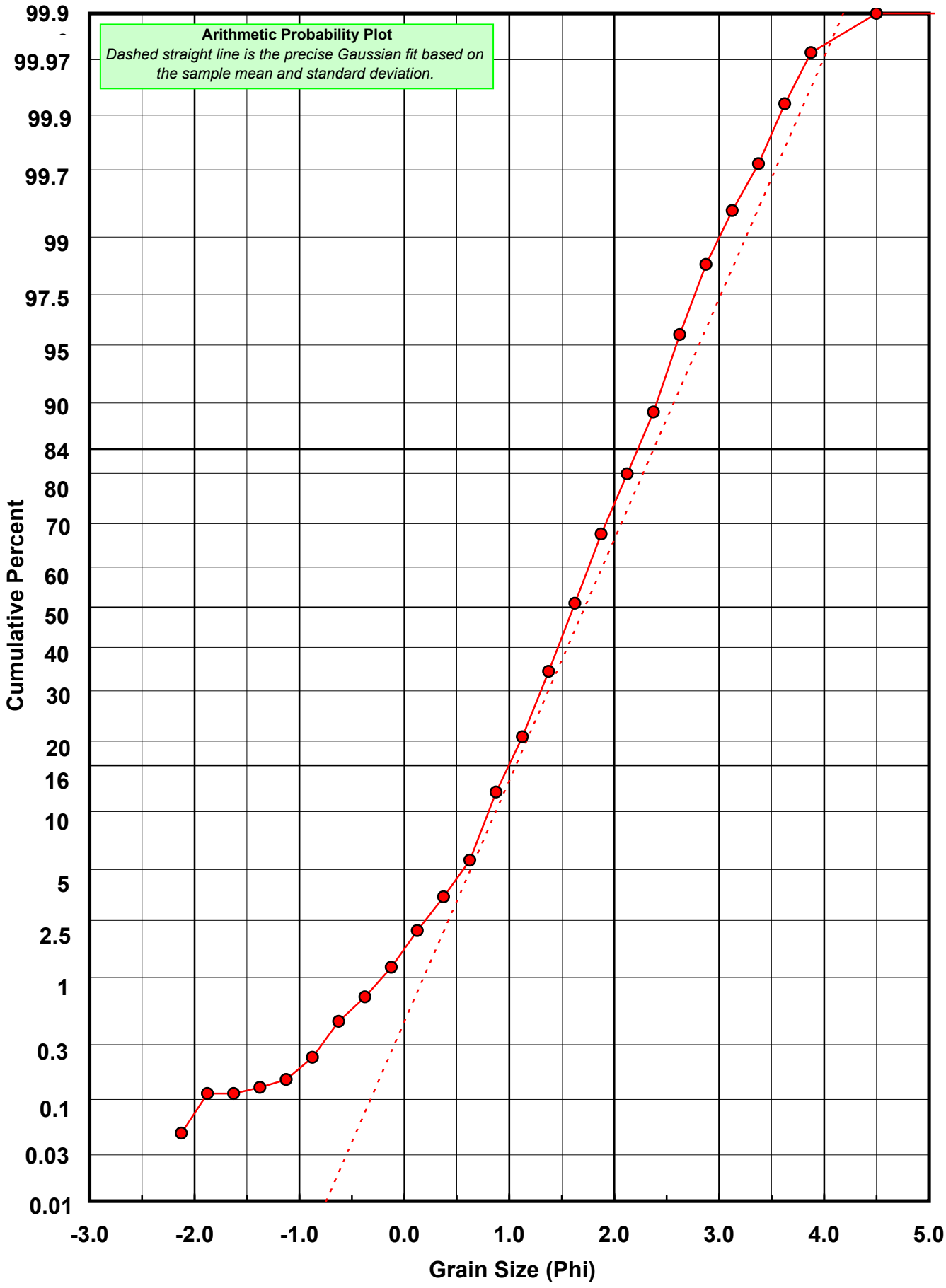
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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
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84
80
70
60
50
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30
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)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: NA-06-BB

Total Carbonate Mass: 3.382 grams

% Carbonate: 6.0 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.012	0.355	0.355
-1.75	-1.875	0.034	1.005	1.360
-1.50	-1.625	0.000	0.000	1.360
-1.25	-1.375	0.008	0.237	1.597
-1.00	-1.125	0.012	0.355	1.952
-0.75	-0.875	0.041	1.212	3.164
-0.50	-0.625	0.111	3.282	6.446
-0.25	-0.375	0.125	3.696	10.142
0.00	-0.125	0.157	4.642	14.784
0.25	0.125	0.228	6.742	21.526
0.50	0.375	0.254	7.510	29.036
0.75	0.625	0.231	6.830	35.866
1.00	0.875	0.413	12.212	48.078
1.25	1.125	0.061	1.804	49.882
1.50	1.375	0.540	15.967	65.849
1.75	1.625	0.279	8.250	74.098
2.00	1.875	0.377	11.147	85.245
2.25	2.125	0.000	0.000	85.245
2.50	2.375	0.038	1.124	86.369
2.75	2.625	0.228	6.742	93.111
3.00	2.875	0.150	4.435	97.546
3.25	3.125	0.049	1.449	98.995
3.50	3.375	0.011	0.325	99.320
3.75	3.625	0.014	0.414	99.734
4.00	3.875	0.009	0.266	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.0974	phi	(0.4674 mm)
Standard Dev:	1.0573	phi-units	(0.4805 mm)
Skewness:	-0.1318	dimensionless	
Kurtosis:	2.9805	dimensionless	
5th Moment:	-1.7471	dimensionless	
6th Moment:	14.4182	dimensionless	
RARD *	0.9635	dimensionless	
Median	1.1269	phi	(0.4579 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	
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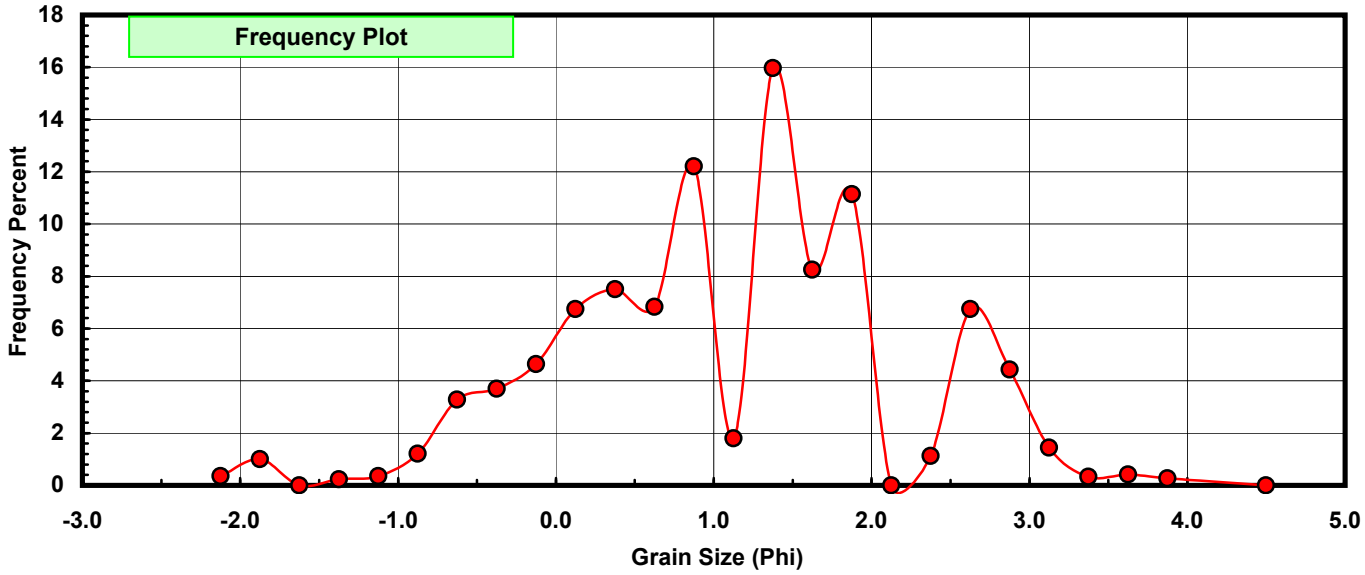

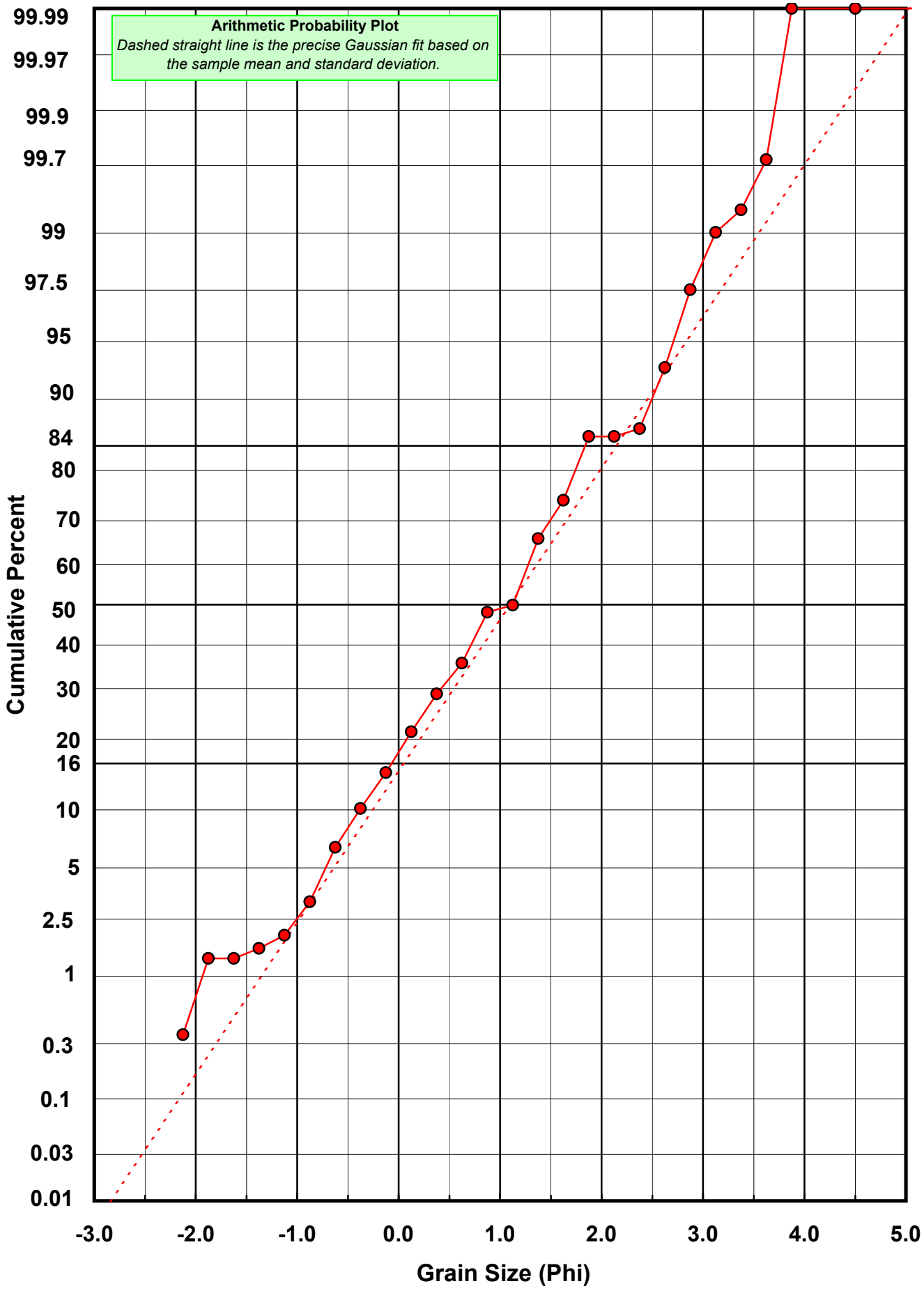
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
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0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-06-BB

Total Digested Mass: 50.969 grams

% Silica: 94.0 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.015	0.029	0.029
-1.75	-1.875	0.000	0.000	0.029
-1.50	-1.625	0.000	0.000	0.029
-1.25	-1.375	0.000	0.000	0.029
-1.00	-1.125	0.000	0.000	0.029
-0.75	-0.875	0.004	0.008	0.037
-0.50	-0.625	0.015	0.029	0.067
-0.25	-0.375	0.016	0.031	0.098
0.00	-0.125	0.101	0.198	0.296
0.25	0.125	0.278	0.545	0.842
0.50	0.375	0.461	0.904	1.746
0.75	0.625	0.929	1.823	3.569
1.00	0.875	3.246	6.369	9.937
1.25	1.125	4.627	9.078	19.015
1.50	1.375	6.784	13.310	32.326
1.75	1.625	8.663	16.997	49.322
2.00	1.875	8.592	16.857	66.179
2.25	2.125	6.742	13.228	79.407
2.50	2.375	4.988	9.786	89.193
2.75	2.625	3.404	6.679	95.872
3.00	2.875	1.342	2.633	98.505
3.25	3.125	0.463	0.908	99.413
3.50	3.375	0.193	0.379	99.792
3.75	3.625	0.086	0.169	99.961
4.00	3.875	0.020	0.039	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.7607	phi	(0.2951 mm)
Standard Dev:	0.6008	phi-units	(0.6594 mm)
Skewness:	-0.1259	dimensionless	
Kurtosis:	3.5336	dimensionless	
5th Moment:	-4.1509	dimensionless	
6th Moment:	38.4511	dimensionless	
RARD *	0.3412	dimensionless	
Median	1.6351	phi	(0.322 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
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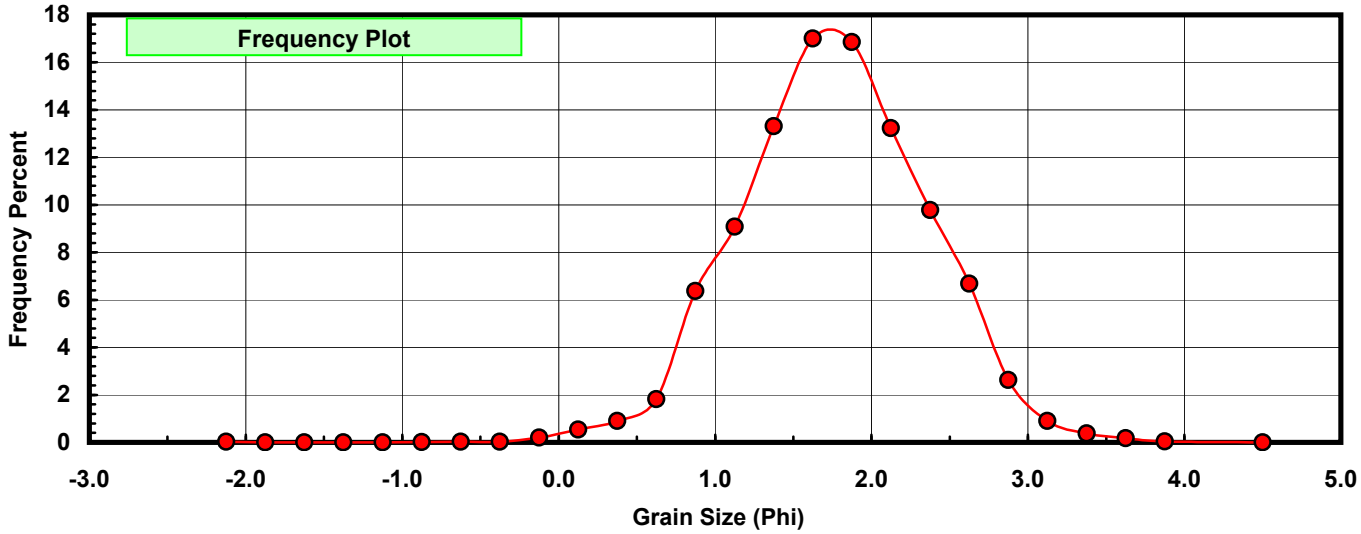

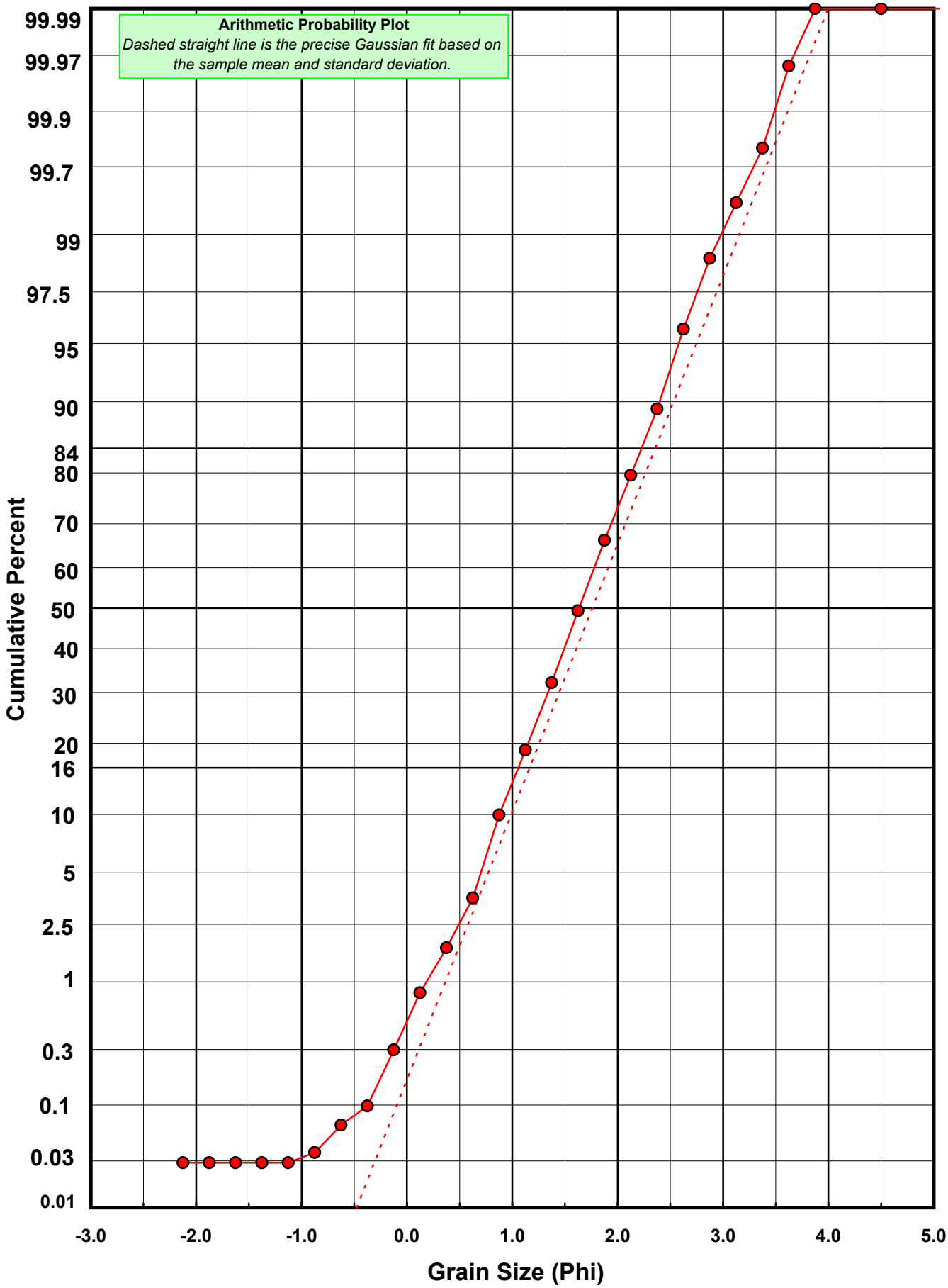
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Grain Size (Phi)