Onshore Grab Sample

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

County: Nassau
Latitude: 30° 41' 46.1"
Longitude: 81° 25' 38.3"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	56.12	grams
Total Fines in Sample	0.057	grams
Total Percent Fines	0.10	%

Dry Sieving Summary

Total Sample Weight	56.042	grams
Total Digested Weight	51.495	grams
Total Carbonate Weight	4.547	grams
Total Silica %	91.89	%
Total Carbonate %	8.11	%
Carbonate/Silica Ratio	0.088	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-02-MB

Total Sample Mass: 56.042 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.094	0.168	0.168
-1.75	-1.875	0.057	0.102	0.269
-1.50	-1.625	0.000	0.000	0.269
-1.25	-1.375	0.014	0.025	0.294
-1.00	-1.125	0.033	0.059	0.353
-0.75	-0.875	0.043	0.077	0.430
-0.50	-0.625	0.133	0.237	0.667
-0.25	-0.375	0.177	0.316	0.983
0.00	-0.125	0.338	0.603	1.586
0.25	0.125	0.694	1.238	2.825
0.50	0.375	1.433	2.557	5.382
0.75	0.625	3.226	5.756	11.138
1.00	0.875	7.110	12.687	23.825
1.25	1.125	6.916	12.341	36.166
1.50	1.375	6.906	12.323	48.489
1.75	1.625	6.882	12.280	60.769
2.00	1.875	6.543	11.675	72.444
2.25	2.125	5.001	8.924	81.368
2.50	2.375	3.911	6.979	88.346
2.75	2.625	3.863	6.893	95.239
3.00	2.875	1.908	3.405	98.644
3.25	3.125	0.568	1.014	99.657
3.50	3.375	0.135	0.241	99.898
3.75	3.625	0.040	0.071	99.970
4.00	3.875	0.011	0.020	99.989
5.00	4.500	0.006	0.011	100.000

Statistical Results			
Mean:	1.5521	phi	(0.341 mm)
Standard Dev:	0.7460	phi-units	(0.5963 mm)
Skewness:	-0.2759	dimensionless	
Kurtosis:	3.9282	dimensionless	
5th Moment:	-7.9312	dimensionless	
6th Moment:	46.1323	dimensionless	
RARD *	0.4806	dimensionless	
Median	1.4058	phi	(0.3774 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

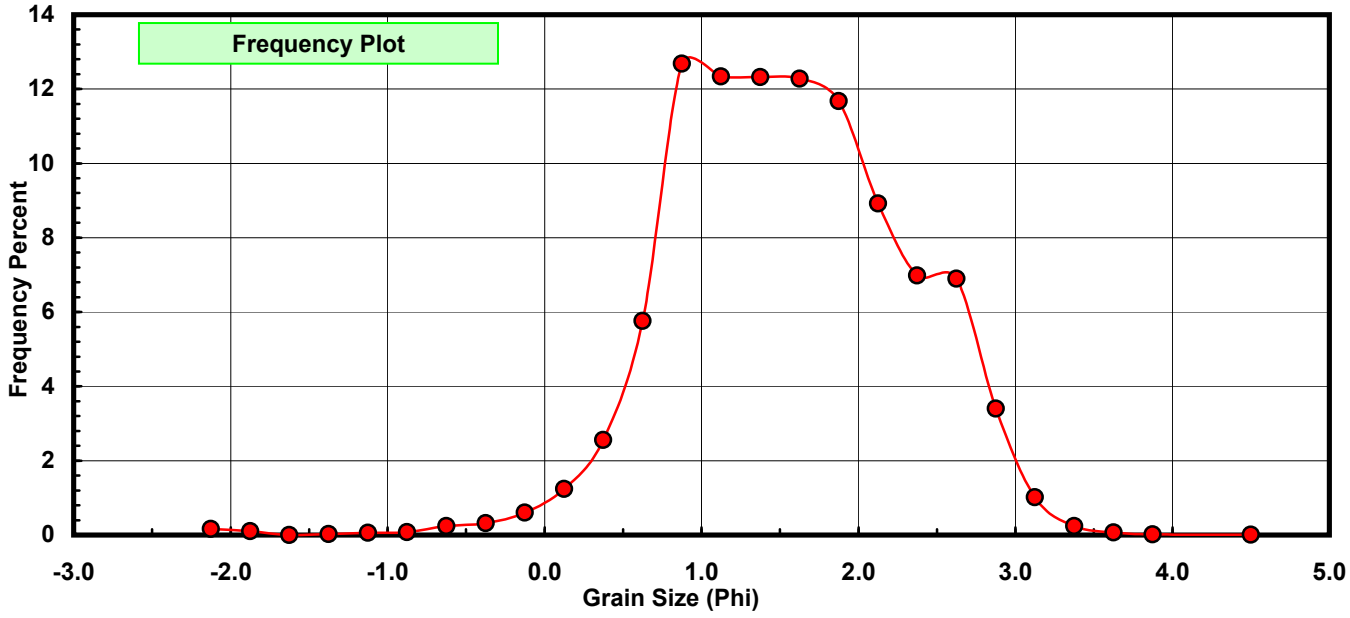
Statistical Explanation

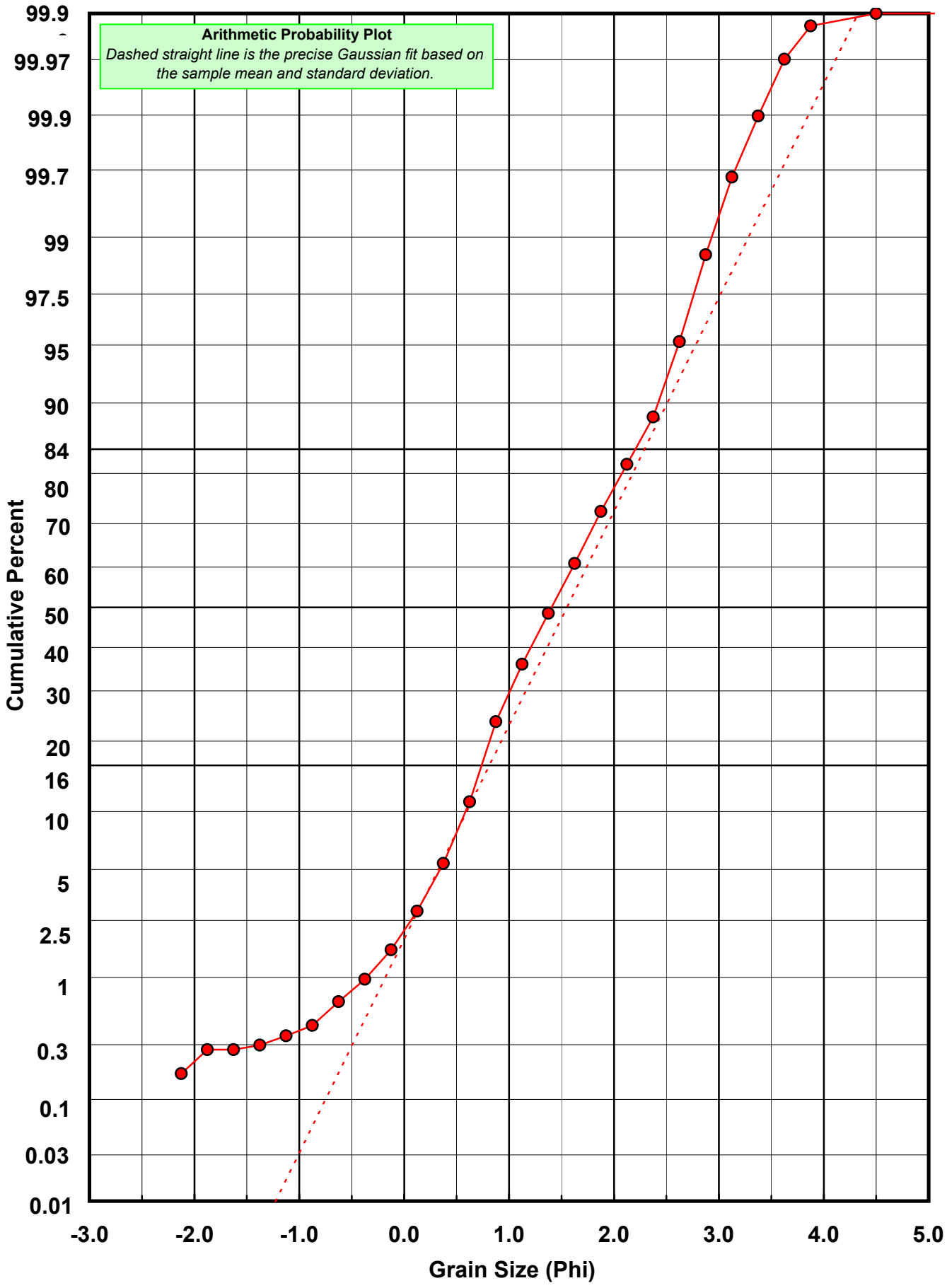
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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
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80
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16
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0.3
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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-02-MB

Total Carbonate Mass: 4.841 grams

% Carbonate: 8.1 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.094	1.942	1.942
-1.75	-1.875	0.057	1.177	3.119
-1.50	-1.625	0.000	0.000	3.119
-1.25	-1.375	0.014	0.289	3.408
-1.00	-1.125	0.033	0.682	4.090
-0.75	-0.875	0.043	0.888	4.978
-0.50	-0.625	0.122	2.520	7.498
-0.25	-0.375	0.144	2.975	10.473
0.00	-0.125	0.250	5.164	15.637
0.25	0.125	0.375	7.746	23.384
0.50	0.375	0.496	10.246	33.629
0.75	0.625	1.192	24.623	58.252
1.00	0.875	0.161	3.326	61.578
1.25	1.125	0.600	12.394	73.972
1.50	1.375	0.091	1.880	75.852
1.75	1.625	0.323	6.672	82.524
2.00	1.875	0.257	5.309	87.833
2.25	2.125	0.296	6.114	93.948
2.50	2.375	0.000	0.000	93.948
2.75	2.625	0.099	2.045	95.993
3.00	2.875	0.083	1.715	97.707
3.25	3.125	0.103	2.128	99.835
3.50	3.375	0.008	0.165	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.7932	phi	(0.5771 mm)
Standard Dev:	1.0067	phi-units	(0.4977 mm)
Skewness:	-0.1756	dimensionless	
Kurtosis:	3.8926	dimensionless	
5th Moment:	-3.1672	dimensionless	
6th Moment:	22.9767	dimensionless	
RARD *	1.2692	dimensionless	
Median	0.5412	phi	(0.6872 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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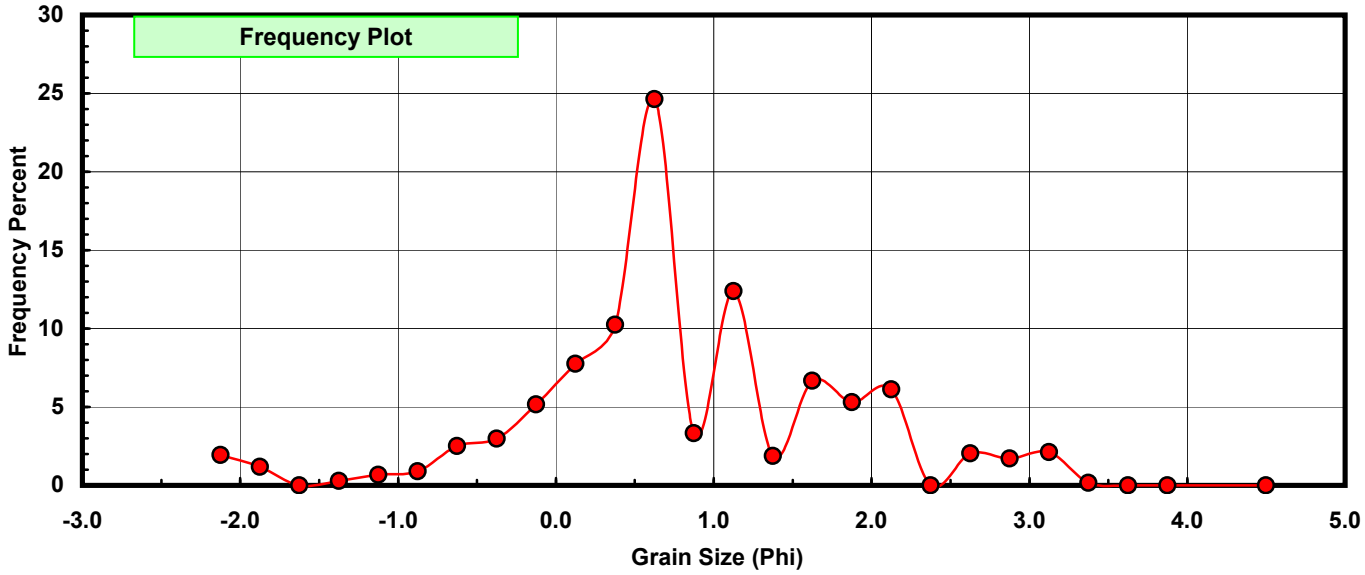

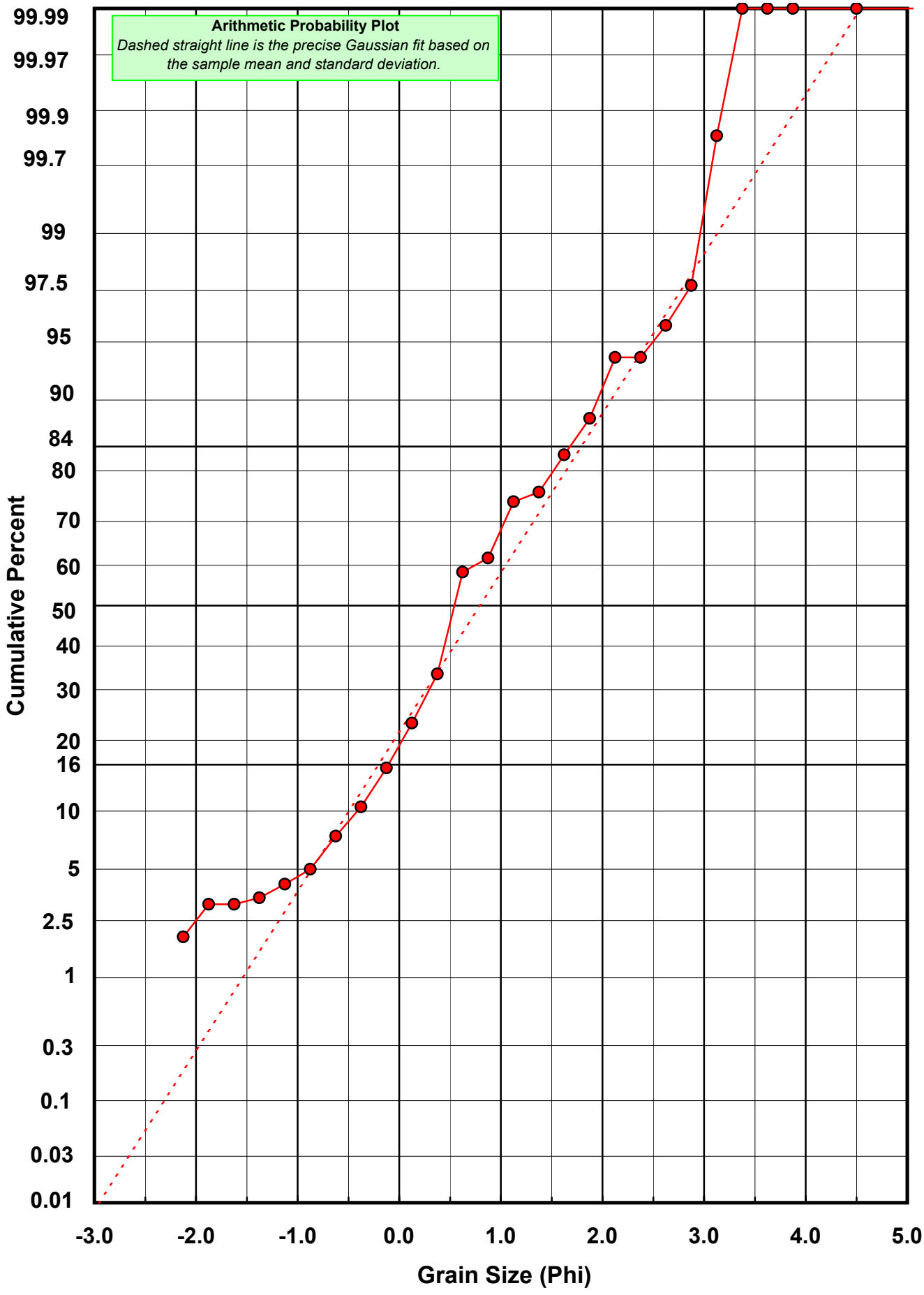
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
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10
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2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-02-MB

Total Digested Mass: 51.487 grams

% Silica: 91.9 %

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	0.011	0.021	0.021
-0.25	-0.375	0.033	0.064	0.085
0.00	-0.125	0.088	0.171	0.256
0.25	0.125	0.319	0.620	0.876
0.50	0.375	0.937	1.820	2.696
0.75	0.625	2.034	3.951	6.646
1.00	0.875	6.949	13.497	20.143
1.25	1.125	6.316	12.267	32.410
1.50	1.375	6.815	13.236	45.646
1.75	1.625	6.559	12.739	58.386
2.00	1.875	6.286	12.209	70.595
2.25	2.125	4.705	9.138	79.733
2.50	2.375	4.199	8.155	87.888
2.75	2.625	3.764	7.311	95.199
3.00	2.875	1.825	3.545	98.743
3.25	3.125	0.465	0.903	99.647
3.50	3.375	0.127	0.247	99.893
3.75	3.625	0.041	0.080	99.973
4.00	3.875	0.014	0.027	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6279	phi	(0.3236 mm)
Standard Dev:	0.6721	phi-units	(0.6276 mm)
Skewness:	0.1759	dimensionless	
Kurtosis:	2.3872	dimensionless	
5th Moment:	0.8028	dimensionless	
6th Moment:	8.9168	dimensionless	
RARD *	0.4128	dimensionless	
Median	1.4604	phi	(0.3634 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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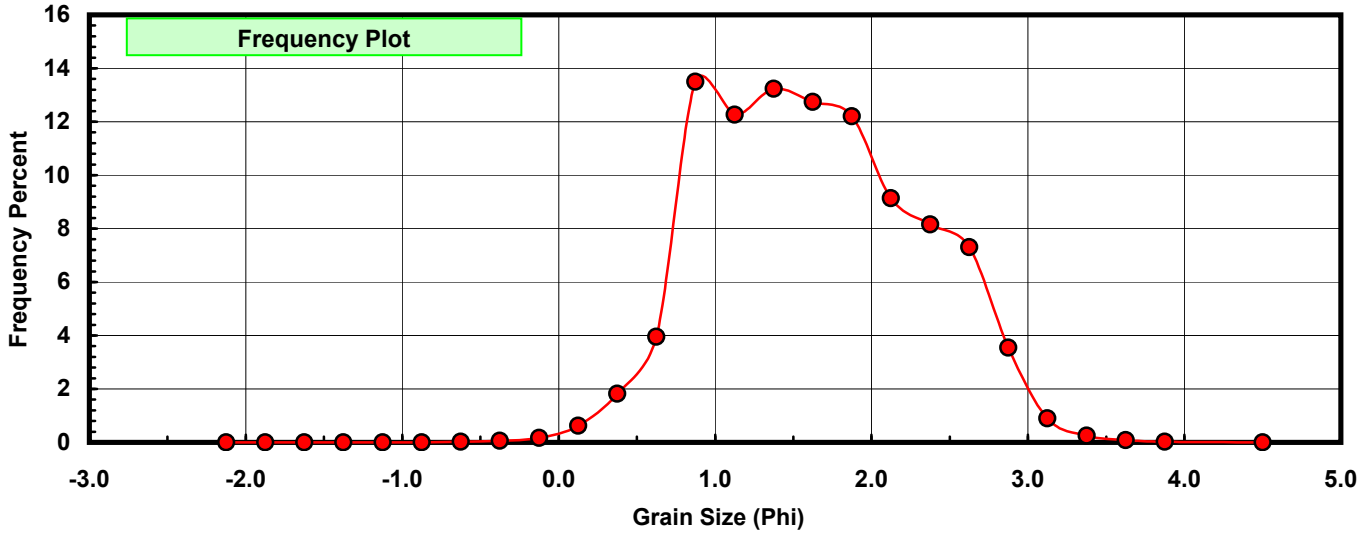

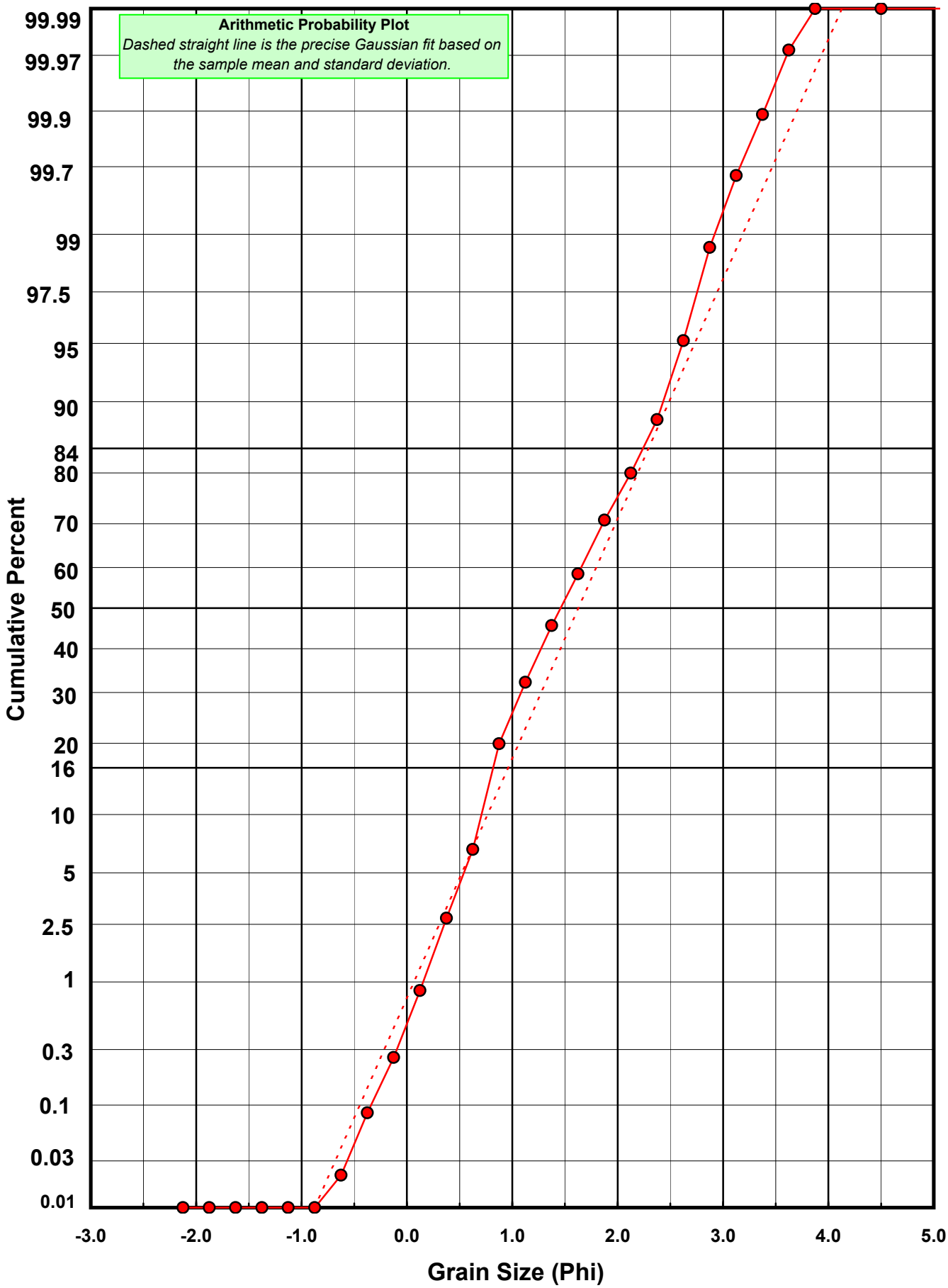
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Grain Size (Phi)