Onshore Grab Sample

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

County: Nassau
Latitude: 30° 31' 20.1"
Longitude: 81° 26' 8.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	58.215	grams
Total Fines in Sample	0.374	grams
Total Percent Fines	0.64	%

Dry Sieving Summary

Total Sample Weight	57.803	grams
Total Digested Weight	38.170	grams
Total Carbonate Weight	19.633	grams
Total Silica %	66.03	%
Total Carbonate %	33.97	%
Carbonate/Silica Ratio	0.514	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-14-MB

Total Sample Mass: 57.803 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	1.417	2.451	2.451
-1.75	-1.875	1.209	2.092	4.543
-1.50	-1.625	1.048	1.813	6.356
-1.25	-1.375	1.588	2.747	9.103
-1.00	-1.125	1.538	2.661	11.764
-0.75	-0.875	1.912	3.308	15.072
-0.50	-0.625	2.392	4.138	19.210
-0.25	-0.375	2.200	3.806	23.016
0.00	-0.125	1.798	3.111	26.127
0.25	0.125	1.798	3.111	29.237
0.50	0.375	1.730	2.993	32.230
0.75	0.625	1.967	3.403	35.633
1.00	0.875	2.848	4.927	40.560
1.25	1.125	2.133	3.690	44.250
1.50	1.375	2.372	4.104	48.354
1.75	1.625	2.346	4.059	52.413
2.00	1.875	2.961	5.123	57.535
2.25	2.125	4.123	7.133	64.668
2.50	2.375	5.609	9.704	74.372
2.75	2.625	6.038	10.446	84.817
3.00	2.875	4.654	8.051	92.869
3.25	3.125	2.594	4.488	97.357
3.50	3.375	1.007	1.742	99.099
3.75	3.625	0.358	0.619	99.718
4.00	3.875	0.105	0.182	99.900
5.00	4.500	0.058	0.100	100.000

Statistical Results			
Mean:	1.1987	phi	(0.4357 mm)
Standard Dev:	1.5679	phi-units	(0.3373 mm)
Skewness:	-0.5207	dimensionless	
Kurtosis:	2.0552	dimensionless	
5th Moment:	-2.2916	dimensionless	
6th Moment:	5.9842	dimensionless	
RARD *	1.3079	dimensionless	
Median	1.4764	phi	(0.3594 mm)

* RARD = reciprocal absolute relative dispersion (see below)

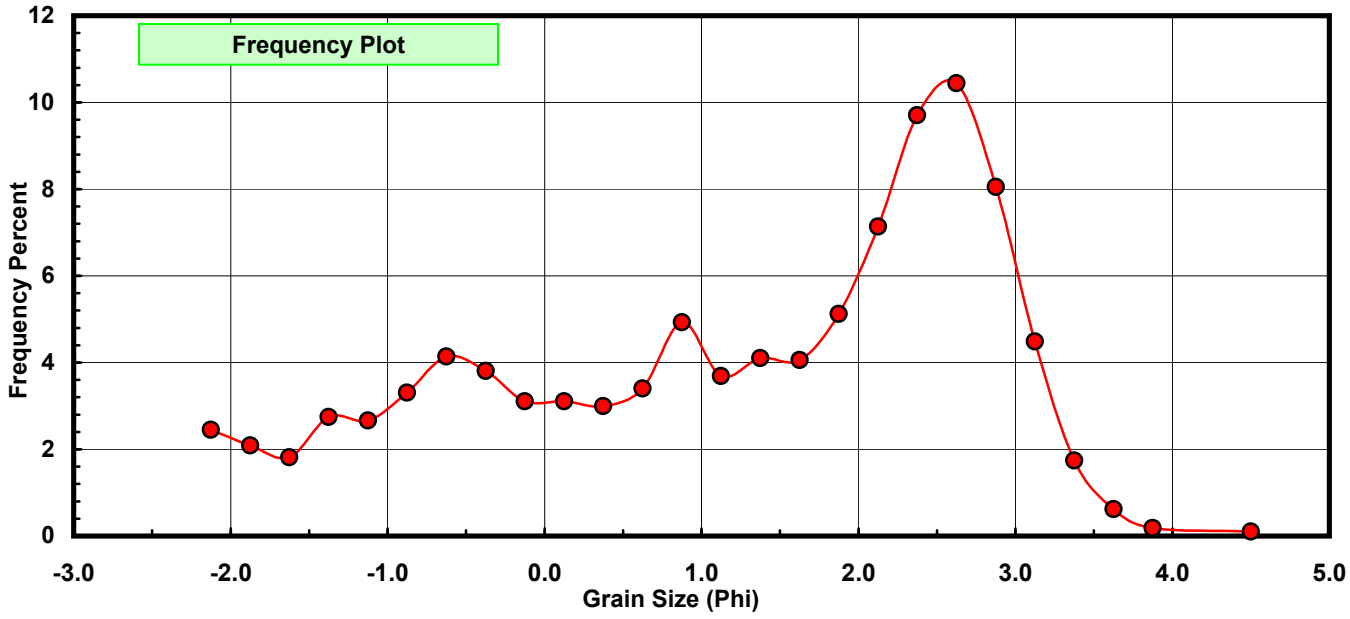
Statistical Explanation

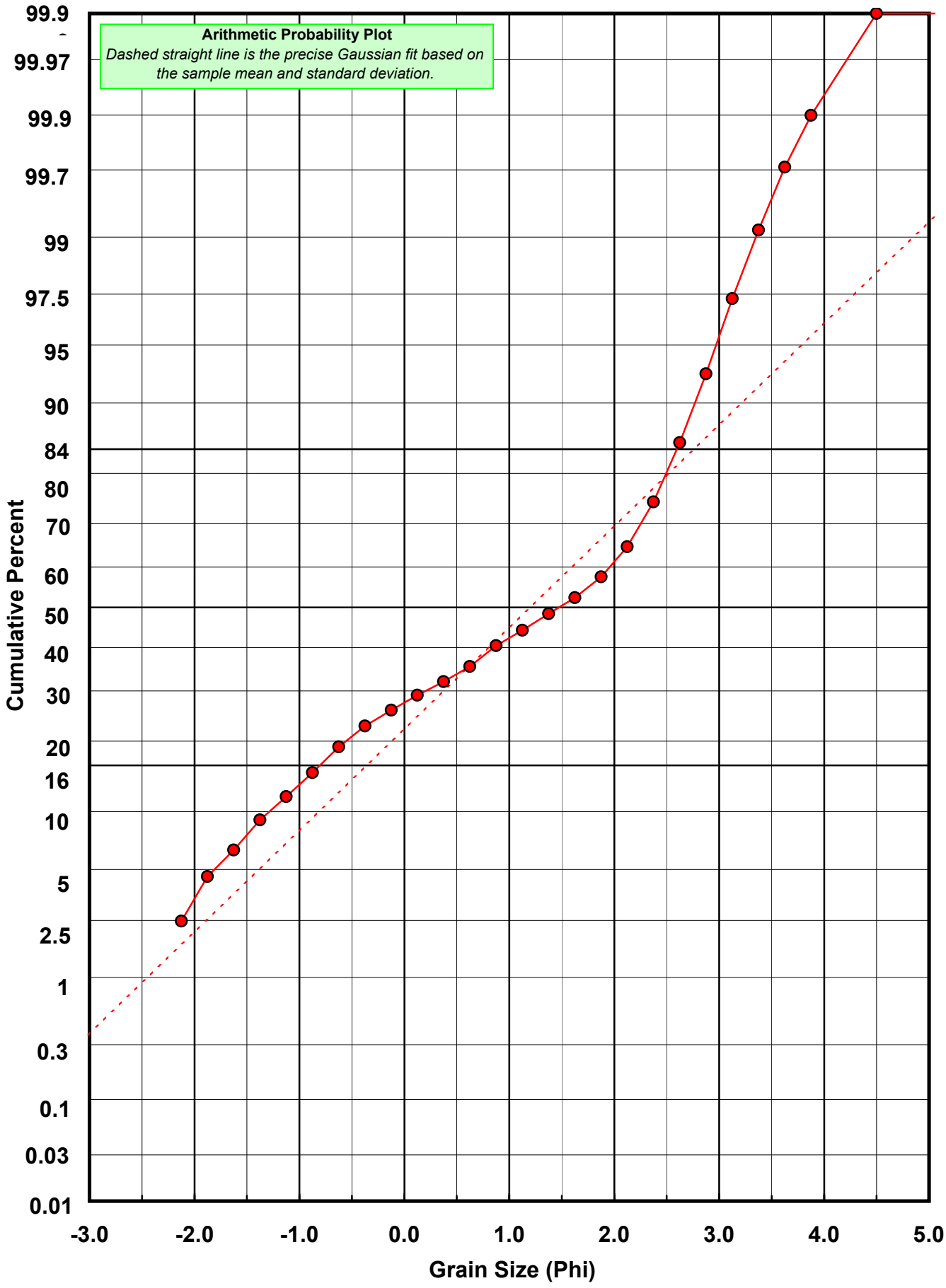
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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
5
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0.3
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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-MB

Total Carbonate Mass: 19.682 grams

% Carbonate: 34.0 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	1.417	7.199	7.199
-1.75	-1.875	1.209	6.143	13.342
-1.50	-1.625	0.990	5.030	18.372
-1.25	-1.375	1.588	8.068	26.440
-1.00	-1.125	1.457	7.403	33.843
-0.75	-0.875	1.790	9.095	42.938
-0.50	-0.625	2.125	10.797	53.734
-0.25	-0.375	1.854	9.420	63.154
0.00	-0.125	1.433	7.281	70.435
0.25	0.125	1.214	6.168	76.603
0.50	0.375	0.930	4.725	81.328
0.75	0.625	0.869	4.415	85.743
1.00	0.875	0.831	4.222	89.965
1.25	1.125	0.397	2.017	91.983
1.50	1.375	0.408	2.073	94.055
1.75	1.625	0.195	0.991	95.046
2.00	1.875	0.189	0.960	96.007
2.25	2.125	0.424	2.154	98.161
2.50	2.375	0.172	0.874	99.035
2.75	2.625	0.000	0.000	99.035
3.00	2.875	0.093	0.473	99.507
3.25	3.125	0.051	0.259	99.766
3.50	3.375	0.043	0.218	99.985
3.75	3.625	0.003	0.015	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:	-0.4642	phi	(1.3795 mm)
Standard Dev:	1.1478	phi-units	(0.4513 mm)
Skewness:	0.6680	dimensionless	
Kurtosis:	3.0943	dimensionless	
5th Moment:	5.3850	dimensionless	
6th Moment:	17.0019	dimensionless	
RARD *	2.4726	dimensionless	
Median	-0.7115	phi	(1.6375 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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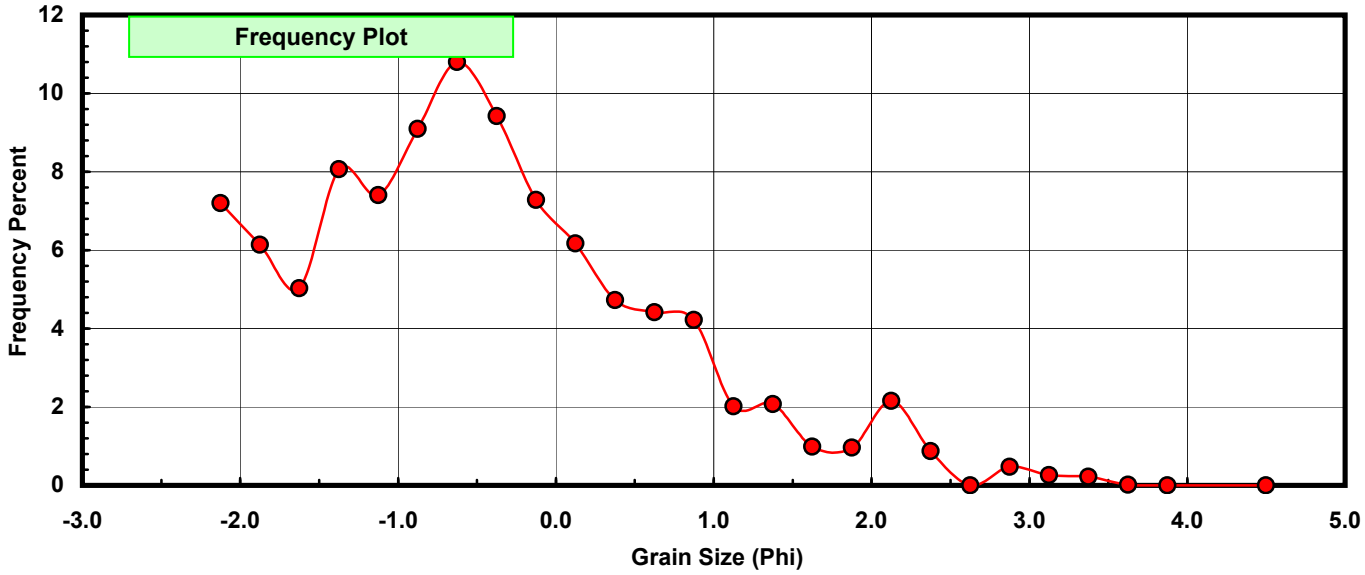

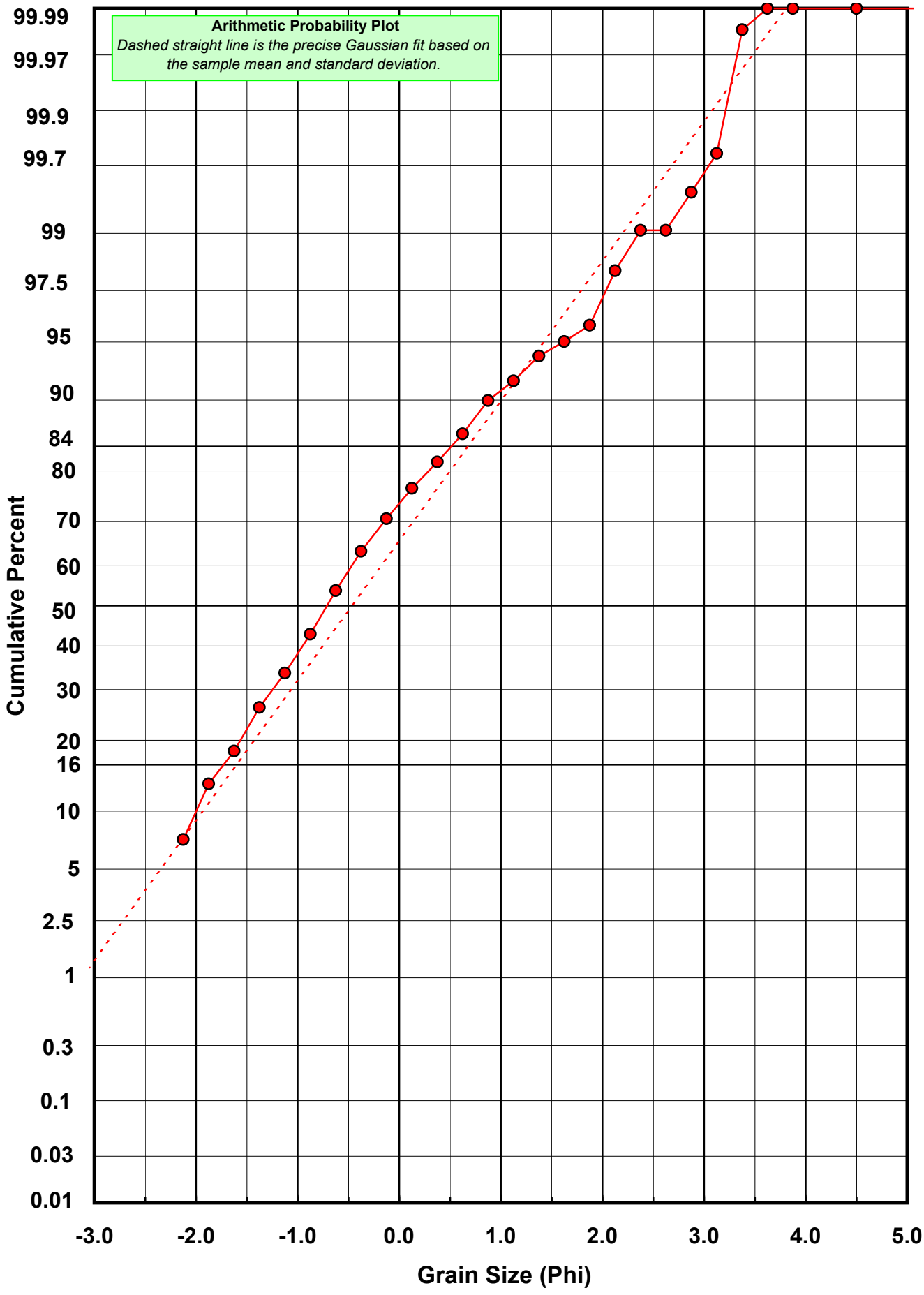
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
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16
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1
0.3
0.1
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0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-14-MB

Total Digested Mass: 38.134 grams

% Silica: 66.0 %

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	0.058	0.152	0.152
-1.25	-1.375	0.000	0.000	0.152
-1.00	-1.125	0.081	0.212	0.365
-0.75	-0.875	0.122	0.320	0.684
-0.50	-0.625	0.267	0.700	1.385
-0.25	-0.375	0.346	0.907	2.292
0.00	-0.125	0.365	0.957	3.249
0.25	0.125	0.584	1.531	4.781
0.50	0.375	0.800	2.098	6.878
0.75	0.625	1.098	2.879	9.758
1.00	0.875	2.017	5.289	15.047
1.25	1.125	1.736	4.552	19.599
1.50	1.375	1.964	5.150	24.750
1.75	1.625	2.151	5.641	30.390
2.00	1.875	2.772	7.269	37.659
2.25	2.125	3.699	9.700	47.359
2.50	2.375	5.437	14.258	61.617
2.75	2.625	6.103	16.004	77.621
3.00	2.875	4.561	11.960	89.581
3.25	3.125	2.543	6.669	96.250
3.50	3.375	0.964	2.528	98.778
3.75	3.625	0.355	0.931	99.709
4.00	3.875	0.111	0.291	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.0549	phi	(0.2407 mm)
Standard Dev:	0.9311	phi-units	(0.5245 mm)
Skewness:	-0.9327	dimensionless	
Kurtosis:	3.5532	dimensionless	
5th Moment:	-7.6944	dimensionless	
6th Moment:	24.7377	dimensionless	
RARD *	0.4531	dimensionless	
Median	2.1713	phi	(0.222 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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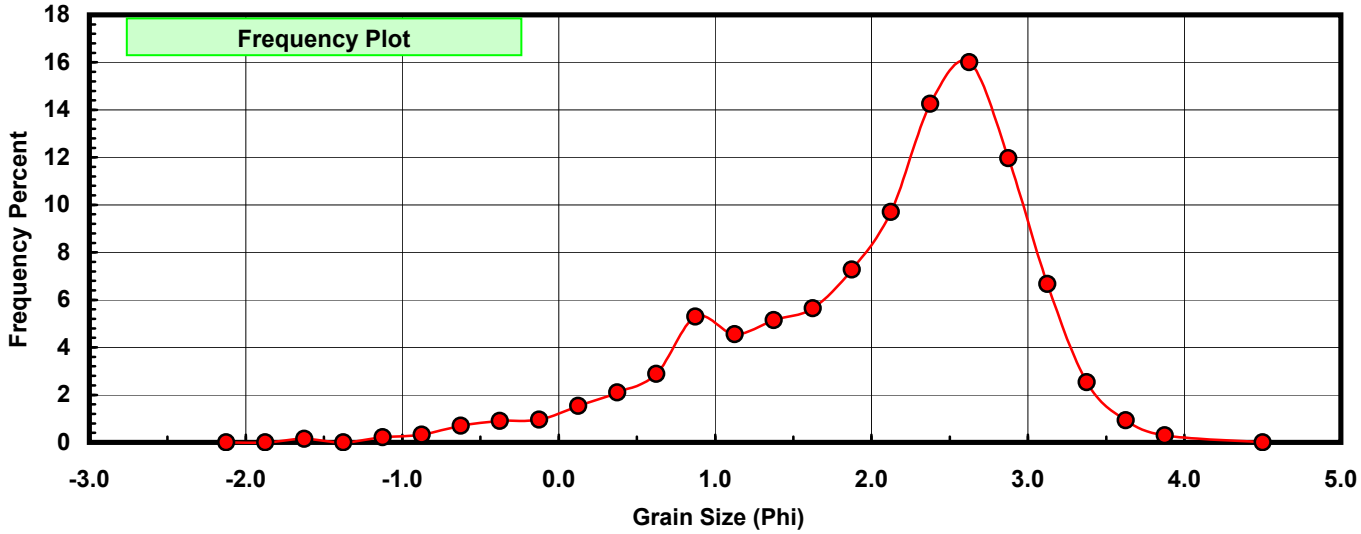

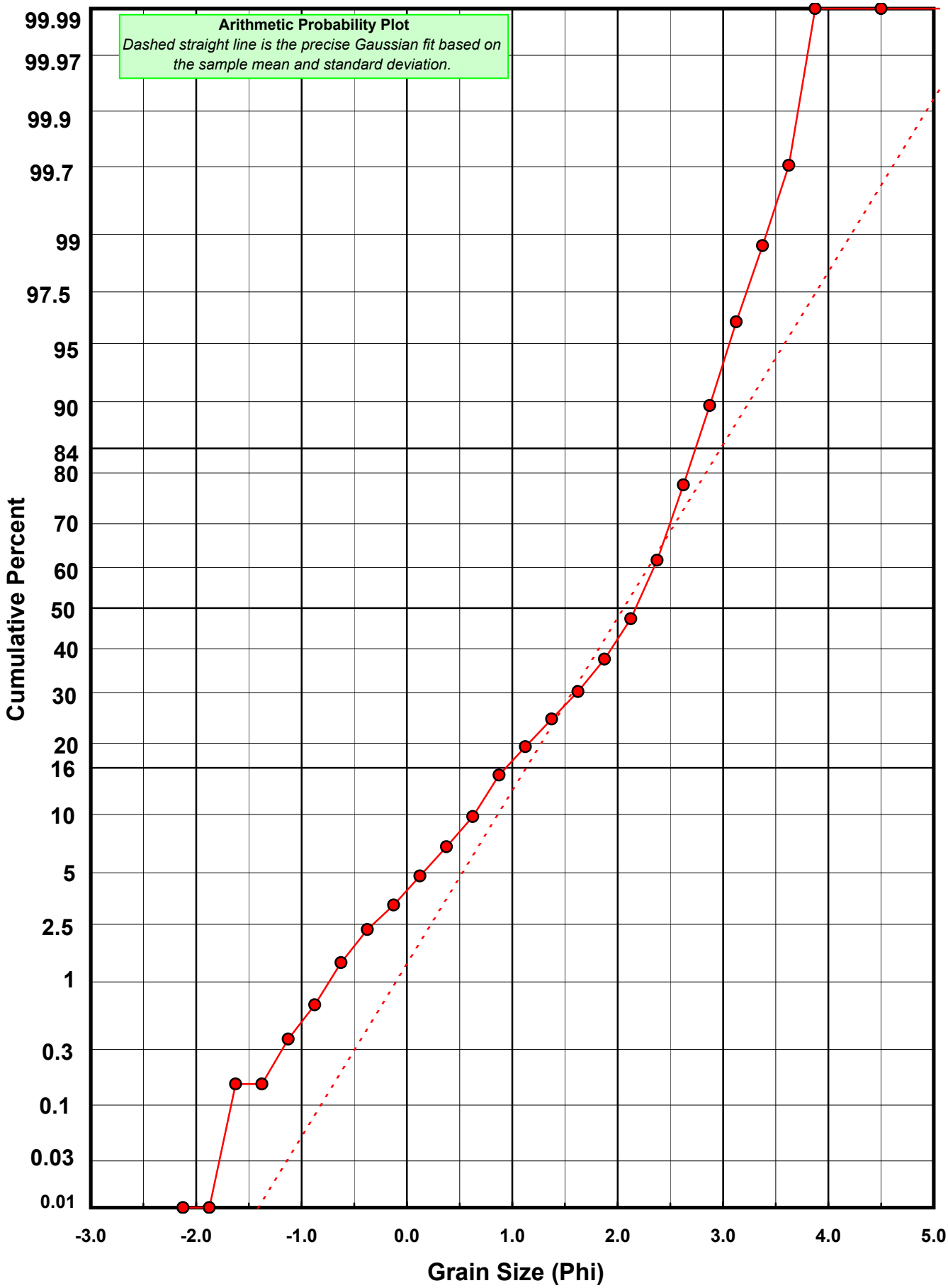
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Grain Size (Phi)