Onshore Grab Sample

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

County: Nassau
Latitude: 30° 31' 20.0"
Longitude: 81° 26' 6.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	47.503	grams
Total Fines in Sample	0.136	grams
Total Percent Fines	0.29	%

Dry Sieving Summary

Total Sample Weight	47.388	grams
Total Digested Weight	43.256	grams
Total Carbonate Weight	4.132	grams
Total Silica %	91.28	%
Total Carbonate %	8.72	%
Carbonate/Silica Ratio	0.096	

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-B

Total Sample Mass: 47.388 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.672	1.418	1.418
-1.75	-1.875	0.070	0.148	1.566
-1.50	-1.625	0.063	0.133	1.699
-1.25	-1.375	0.143	0.302	2.001
-1.00	-1.125	0.074	0.156	2.157
-0.75	-0.875	0.073	0.154	2.311
-0.50	-0.625	0.128	0.270	2.581
-0.25	-0.375	0.157	0.331	2.912
0.00	-0.125	0.200	0.422	3.334
0.25	0.125	0.214	0.452	3.786
0.50	0.375	0.350	0.739	4.524
0.75	0.625	0.591	1.247	5.772
1.00	0.875	1.899	4.007	9.779
1.25	1.125	3.051	6.438	16.217
1.50	1.375	4.715	9.950	26.167
1.75	1.625	5.779	12.195	38.362
2.00	1.875	6.377	13.457	51.819
2.25	2.125	6.051	12.769	64.588
2.50	2.375	6.629	13.989	78.577
2.75	2.625	6.044	12.754	91.331
3.00	2.875	2.780	5.866	97.198
3.25	3.125	0.923	1.948	99.145
3.50	3.375	0.284	0.599	99.745
3.75	3.625	0.089	0.188	99.932
4.00	3.875	0.025	0.053	99.985
5.00	4.500	0.007	0.015	100.000

Statistical Results			
Mean:	1.8578	phi	(0.2759 mm)
Standard Dev:	0.8792	phi-units	(0.5437 mm)
Skewness:	-1.8682	dimensionless	
Kurtosis:	8.9608	dimensionless	
5th Moment:	-35.2558	dimensionless	
6th Moment:	155.1488	dimensionless	
RARD *	0.4732	dimensionless	
Median	1.8412	phi	(0.2791 mm)

* RARD = reciprocal absolute relative dispersion (see below)

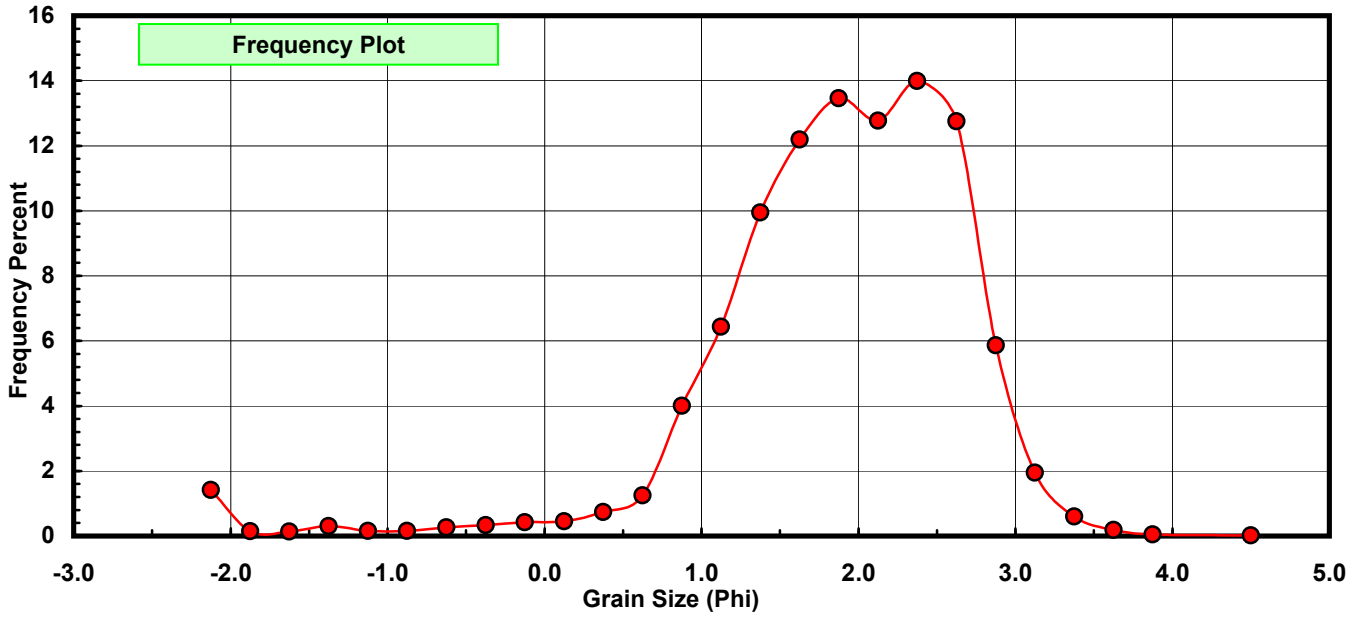
Statistical Explanation

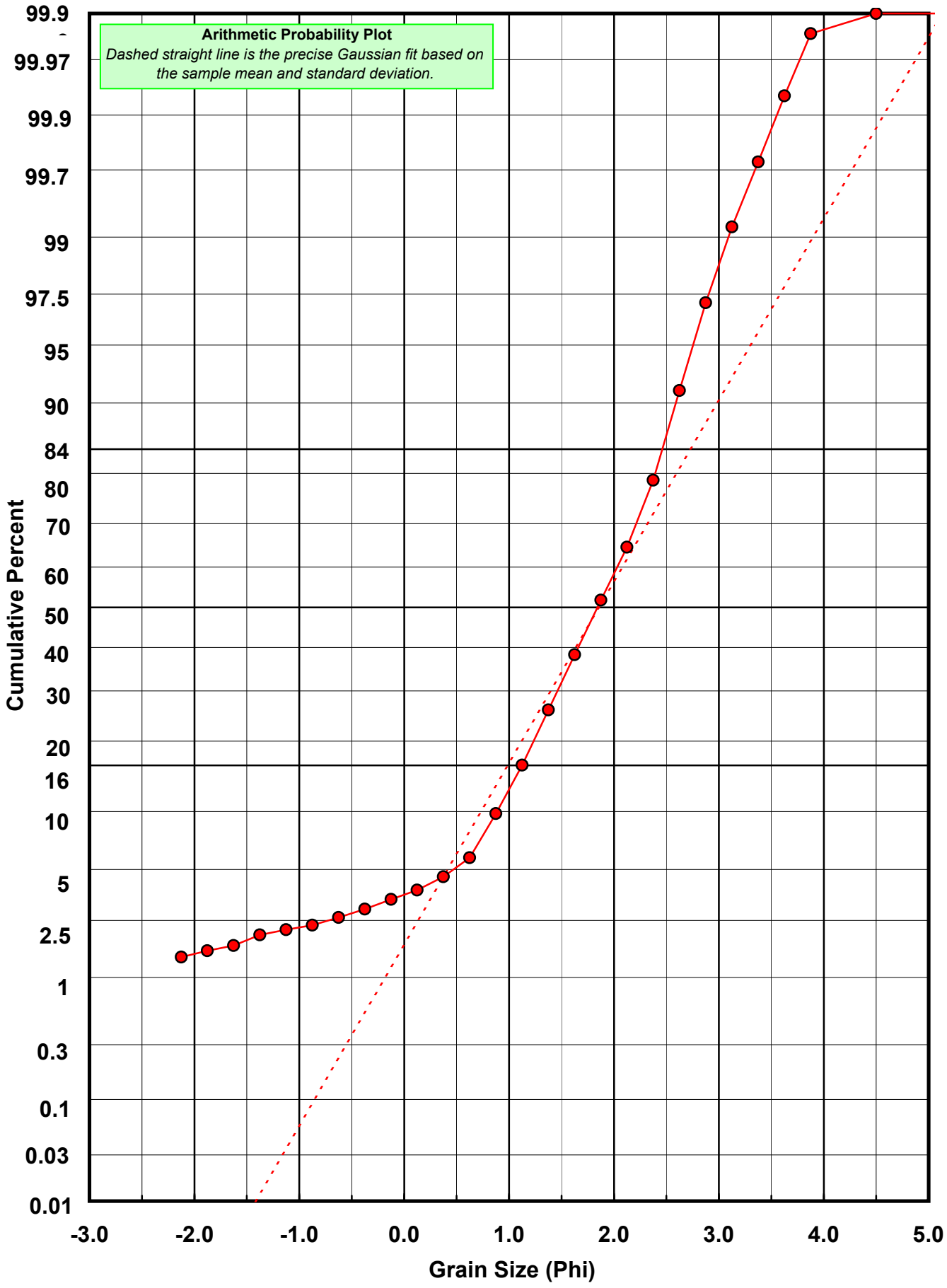
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-B

Total Carbonate Mass: 4.208 grams

% Carbonate: 8.7 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.672	15.970	15.970
-1.75	-1.875	0.070	1.663	17.633
-1.50	-1.625	0.063	1.497	19.130
-1.25	-1.375	0.143	3.398	22.529
-1.00	-1.125	0.074	1.759	24.287
-0.75	-0.875	0.073	1.735	26.022
-0.50	-0.625	0.128	3.042	29.064
-0.25	-0.375	0.149	3.541	32.605
0.00	-0.125	0.179	4.254	36.858
0.25	0.125	0.158	3.755	40.613
0.50	0.375	0.227	5.394	46.008
0.75	0.625	0.301	7.153	53.161
1.00	0.875	0.328	7.795	60.955
1.25	1.125	0.311	7.391	68.346
1.50	1.375	0.192	4.563	72.909
1.75	1.625	0.269	6.393	79.301
2.00	1.875	0.419	9.957	89.259
2.25	2.125	0.000	0.000	89.259
2.50	2.375	0.000	0.000	89.259
2.75	2.625	0.176	4.183	93.441
3.00	2.875	0.141	3.351	96.792
3.25	3.125	0.105	2.495	99.287
3.50	3.375	0.014	0.333	99.620
3.75	3.625	0.012	0.285	99.905
4.00	3.875	0.004	0.095	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.3695	phi	(0.7741 mm)
Standard Dev:	1.5789	phi-units	(0.3347 mm)
Skewness:	-0.2017	dimensionless	
Kurtosis:	2.0361	dimensionless	
5th Moment:	-0.4587	dimensionless	
6th Moment:	4.9445	dimensionless	
RARD *	4.2733	dimensionless	
Median	0.5145	phi	(0.7 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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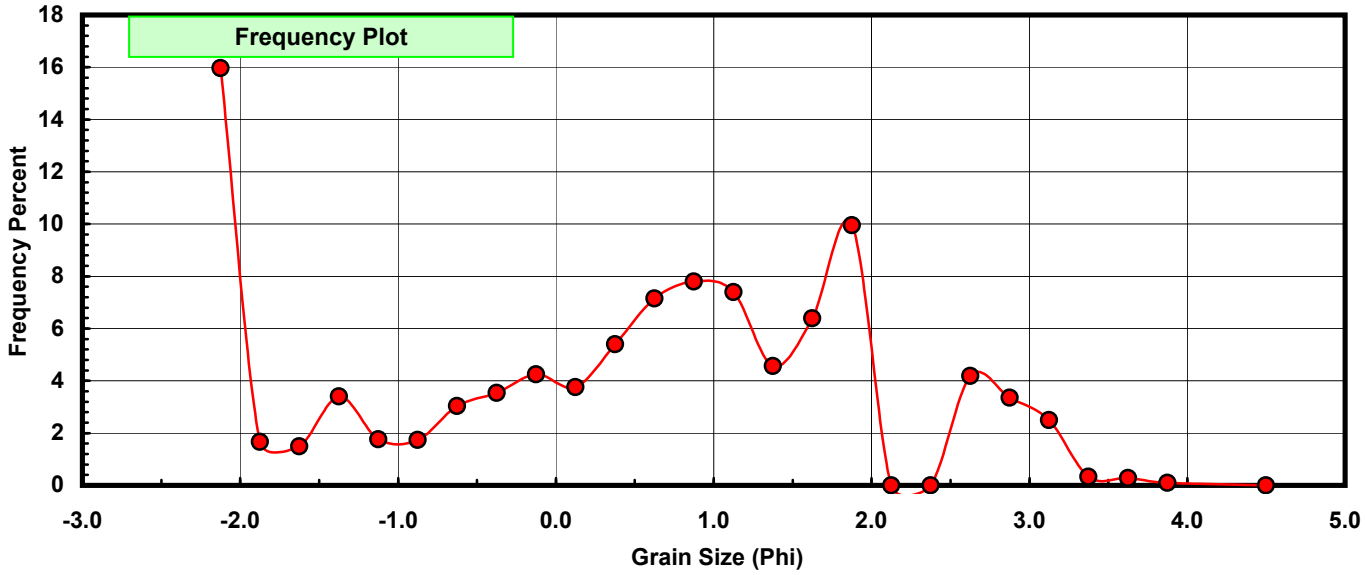

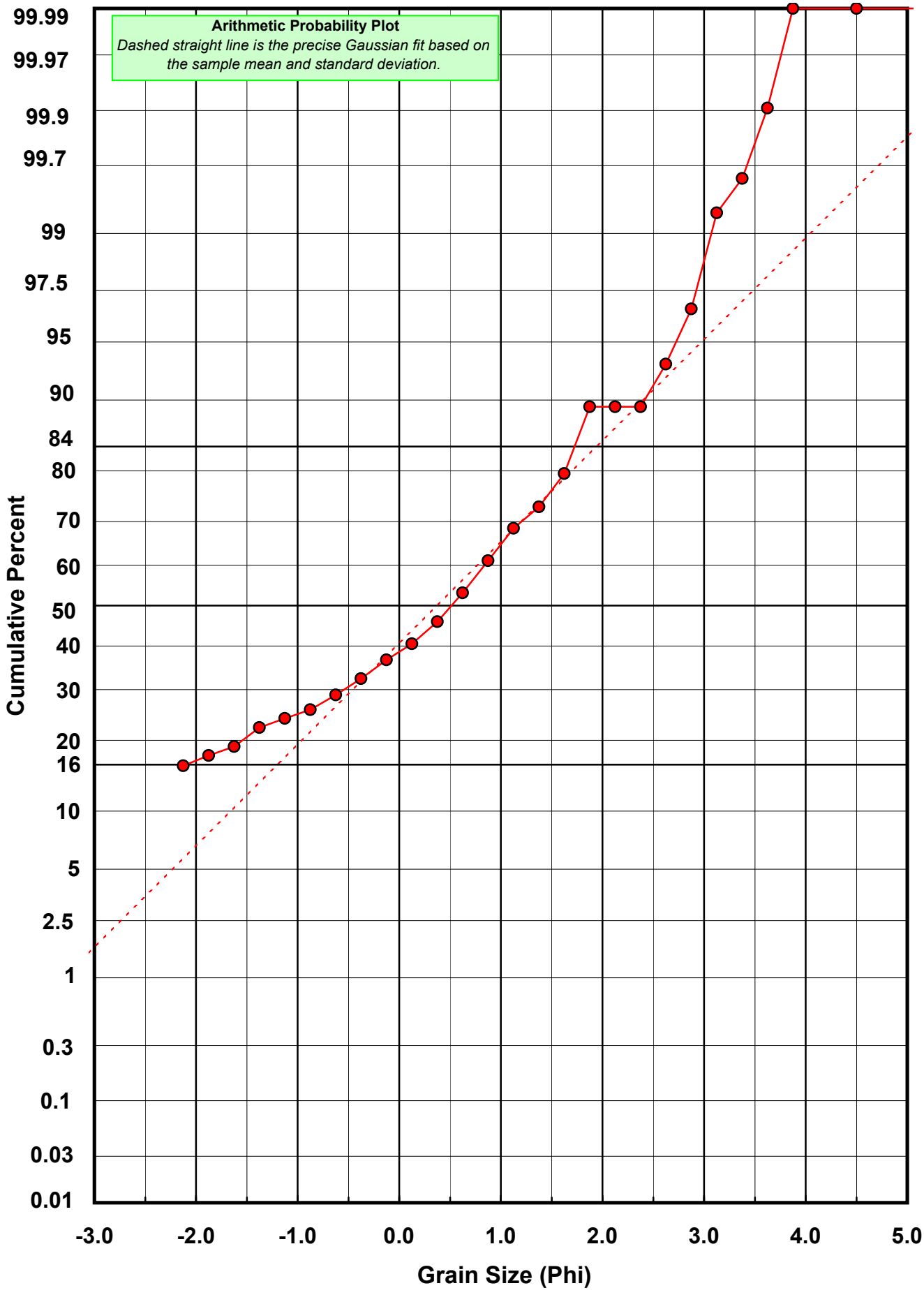
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
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99.7
99
97.5
95
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16
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1
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-B

Total Digested Mass: 43.249 grams

% Silica: 91.3 %

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	0.008	0.018	0.018
0.00	-0.125	0.021	0.049	0.067
0.25	0.125	0.056	0.129	0.197
0.50	0.375	0.123	0.284	0.481
0.75	0.625	0.290	0.671	1.151
1.00	0.875	1.571	3.632	4.784
1.25	1.125	2.740	6.335	11.119
1.50	1.375	4.523	10.458	21.577
1.75	1.625	5.510	12.740	34.318
2.00	1.875	5.958	13.776	48.094
2.25	2.125	6.114	14.137	62.230
2.50	2.375	6.642	15.358	77.588
2.75	2.625	5.868	13.568	91.156
3.00	2.875	2.639	6.102	97.258
3.25	3.125	0.818	1.891	99.149
3.50	3.375	0.270	0.624	99.773
3.75	3.625	0.077	0.178	99.951
4.00	3.875	0.021	0.049	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.0027	phi	(0.2495 mm)
Standard Dev:	0.5977	phi-units	(0.6608 mm)
Skewness:	-0.1843	dimensionless	
Kurtosis:	2.5691	dimensionless	
5th Moment:	-1.3664	dimensionless	
6th Moment:	11.5004	dimensionless	
RARD *	0.2985	dimensionless	
Median	1.9087	phi	(0.2663 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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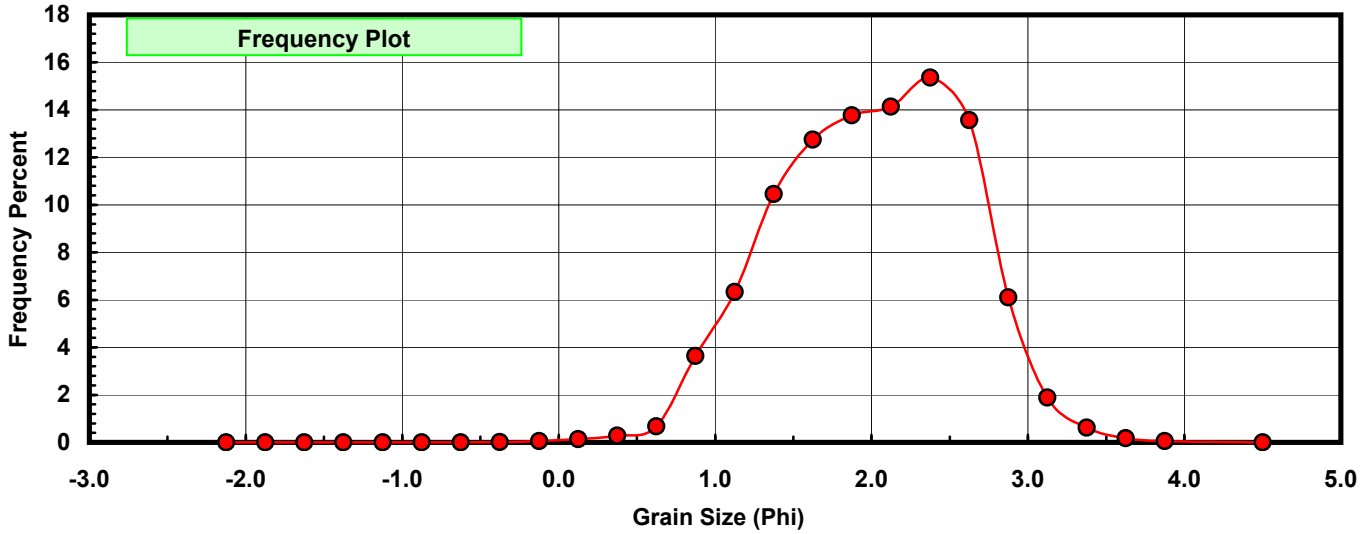

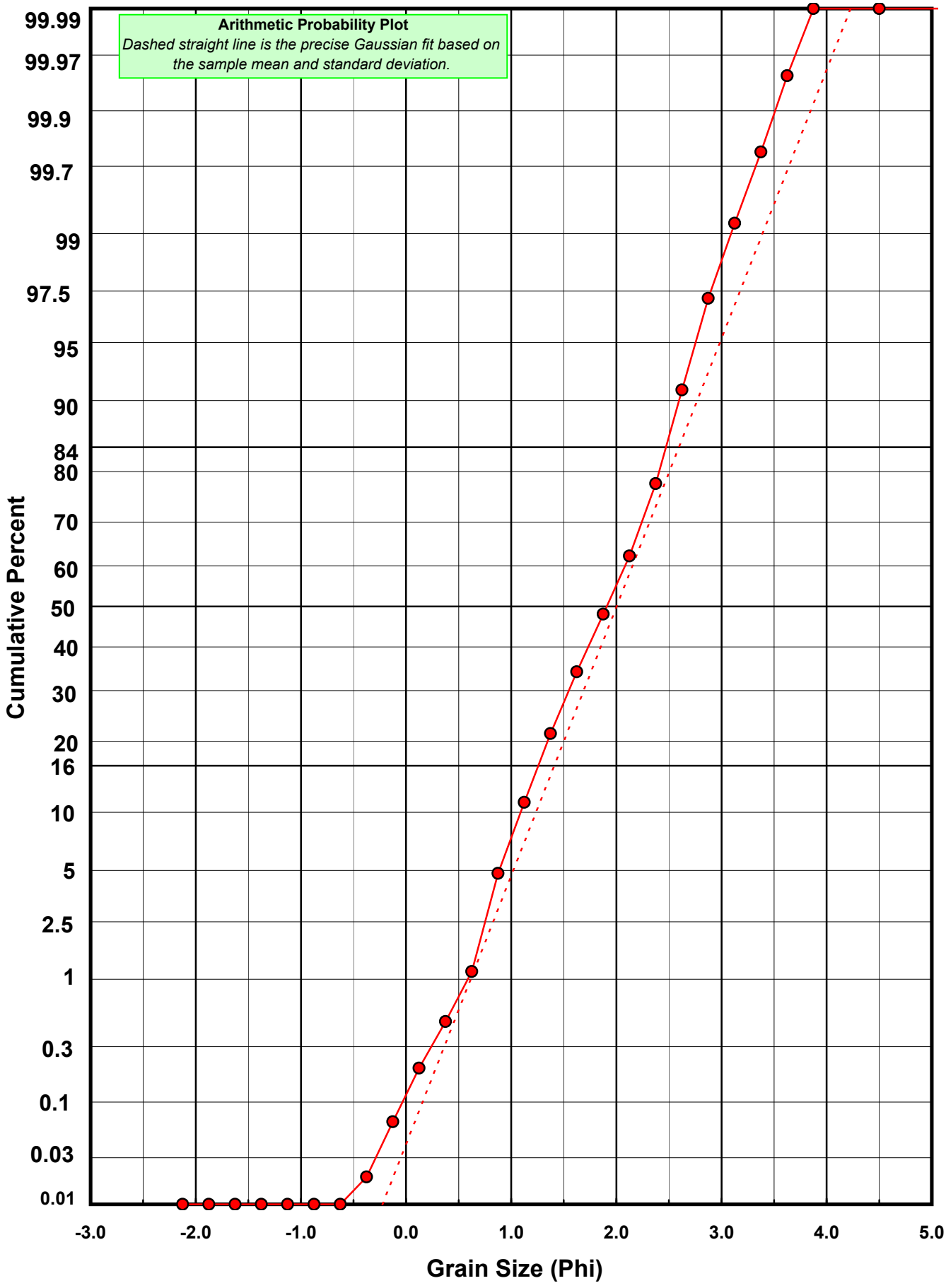
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Grain Size (Phi)