Onshore Grab Sample

Sample: NA-04-MB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Nassau
Latitude: 30° 40' 1.9"
Longitude: 81° 25' 50.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	49.809	grams
Total Fines in Sample	0.032	grams
Total Percent Fines	0.06	%

Dry Sieving Summary

Total Sample Weight	49.815	grams
Total Digested Weight	42.171	grams
Total Carbonate Weight	7.644	grams
Total Silica %	84.66	%
Total Carbonate %	15.34	%
Carbonate/Silica Ratio	0.181	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-04-MB

Total Sample Mass: 49.815 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.055	0.110	0.110
-1.75	-1.875	0.025	0.050	0.161
-1.50	-1.625	0.000	0.000	0.161
-1.25	-1.375	0.056	0.112	0.273
-1.00	-1.125	0.142	0.285	0.558
-0.75	-0.875	0.171	0.343	0.901
-0.50	-0.625	0.352	0.707	1.608
-0.25	-0.375	0.882	1.771	3.379
0.00	-0.125	1.926	3.866	7.245
0.25	0.125	4.043	8.116	15.361
0.50	0.375	5.563	11.167	26.528
0.75	0.625	6.371	12.789	39.317
1.00	0.875	10.813	21.706	61.024
1.25	1.125	6.839	13.729	74.753
1.50	1.375	5.364	10.768	85.520
1.75	1.625	3.637	7.301	92.821
2.00	1.875	2.117	4.250	97.071
2.25	2.125	0.790	1.586	98.657
2.50	2.375	0.370	0.743	99.400
2.75	2.625	0.193	0.387	99.787
3.00	2.875	0.068	0.137	99.924
3.25	3.125	0.021	0.042	99.966
3.50	3.375	0.007	0.014	99.980
3.75	3.625	0.004	0.008	99.988
4.00	3.875	0.002	0.004	99.992
5.00	4.500	0.004	0.008	100.000

Statistical Results			
Mean:	0.8638	phi	(0.5495 mm)
Standard Dev:	0.6292	phi-units	(0.6465 mm)
Skewness:	-0.1570	dimensionless	
Kurtosis:	4.0304	dimensionless	
5th Moment:	-3.1888	dimensionless	
6th Moment:	38.9205	dimensionless	
RARD *	0.7284	dimensionless	
Median	0.7480	phi	(0.5954 mm)

* RARD = reciprocal absolute relative dispersion (see below)

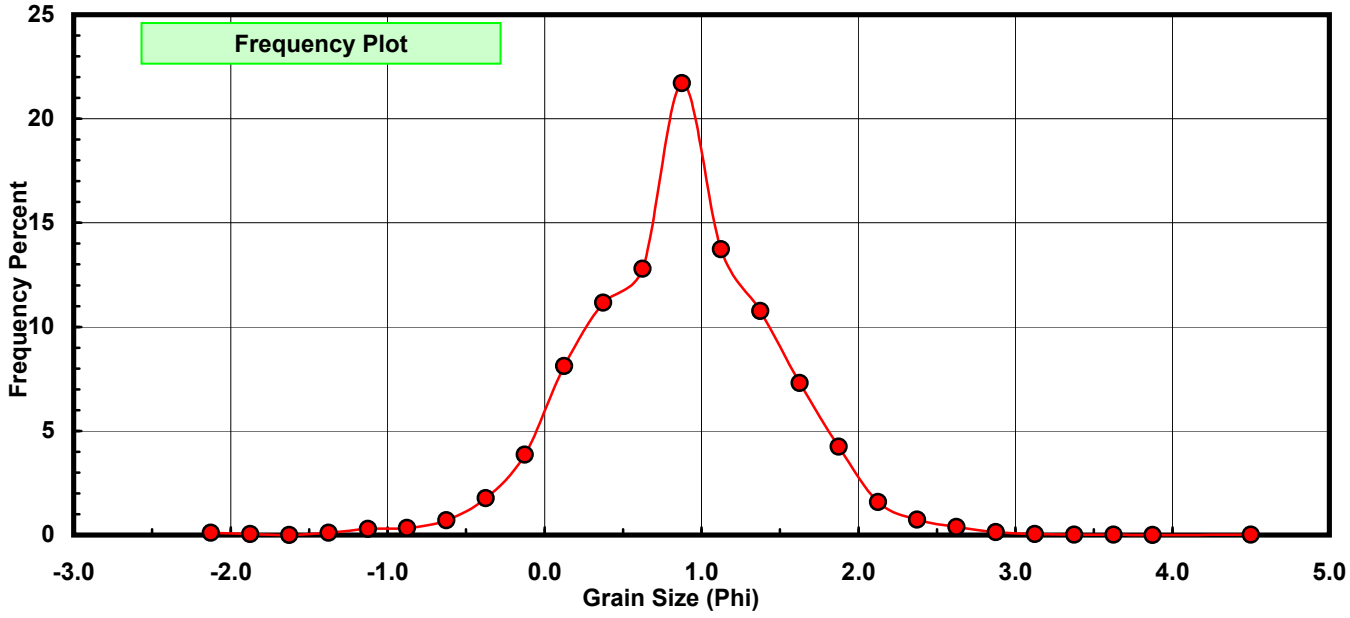
Statistical Explanation

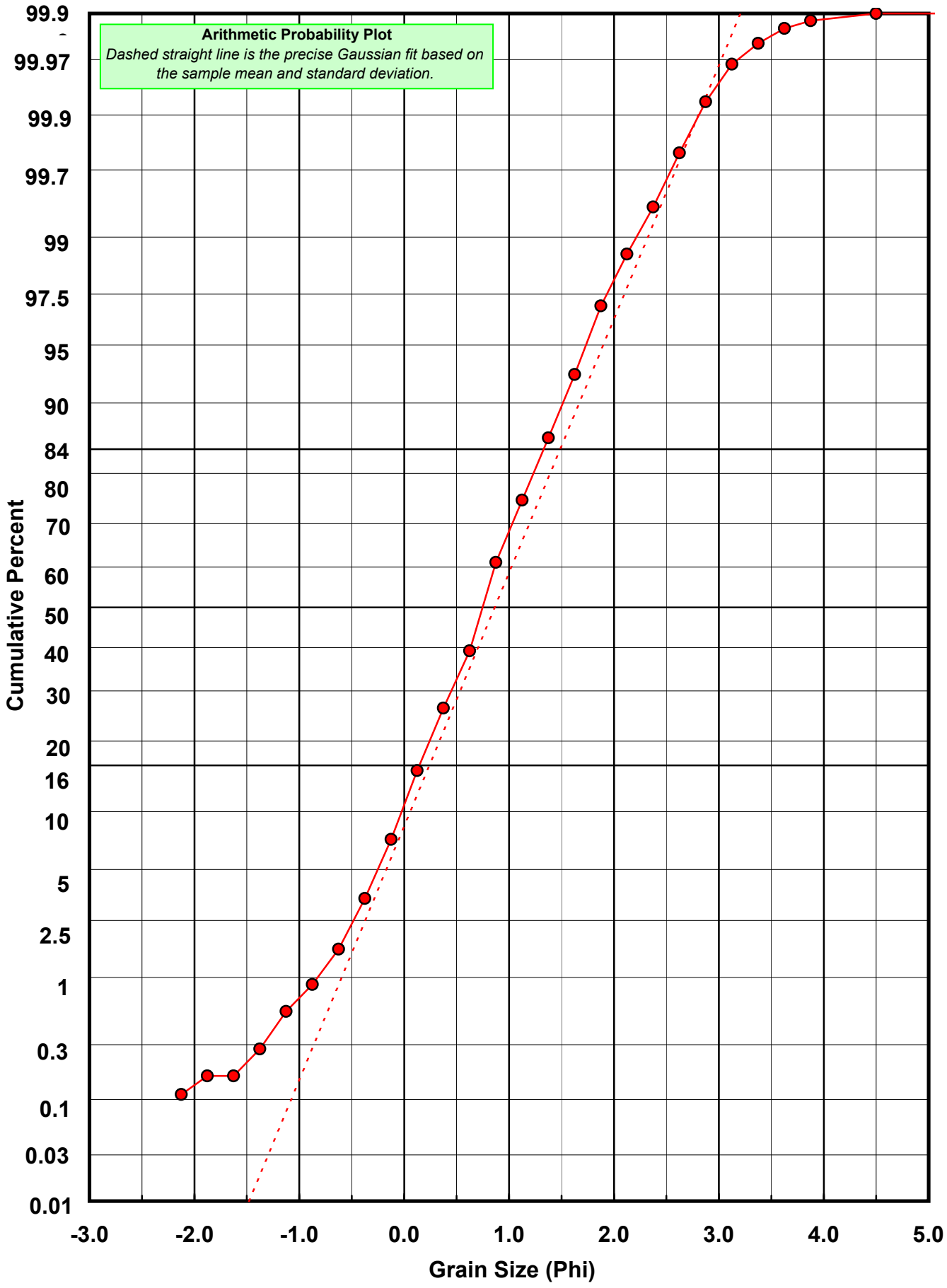
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-04-MB

Total Carbonate Mass: 7.889 grams

% Carbonate: 15.3 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.055	0.697	0.697
-1.75	-1.875	0.025	0.317	1.014
-1.50	-1.625	0.000	0.000	1.014
-1.25	-1.375	0.056	0.710	1.724
-1.00	-1.125	0.142	1.800	3.524
-0.75	-0.875	0.171	2.168	5.691
-0.50	-0.625	0.273	3.461	9.152
-0.25	-0.375	0.575	7.289	16.441
0.00	-0.125	0.910	11.535	27.976
0.25	0.125	1.346	17.062	45.037
0.50	0.375	1.195	15.148	60.185
0.75	0.625	1.389	17.607	77.792
1.00	0.875	0.929	11.776	89.568
1.25	1.125	0.531	6.731	96.299
1.50	1.375	0.133	1.686	97.985
1.75	1.625	0.095	1.204	99.189
2.00	1.875	0.064	0.811	100.000
2.25	2.125	0.000	0.000	100.000
2.50	2.375	0.000	0.000	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	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:	0.2918	phi	(0.8169 mm)
Standard Dev:	0.6735	phi-units	(0.627 mm)
Skewness:	-0.5828	dimensionless	
Kurtosis:	3.7735	dimensionless	
5th Moment:	-6.6786	dimensionless	
6th Moment:	28.7930	dimensionless	
RARD *	2.3083	dimensionless	
Median	0.2069	phi	(0.8664 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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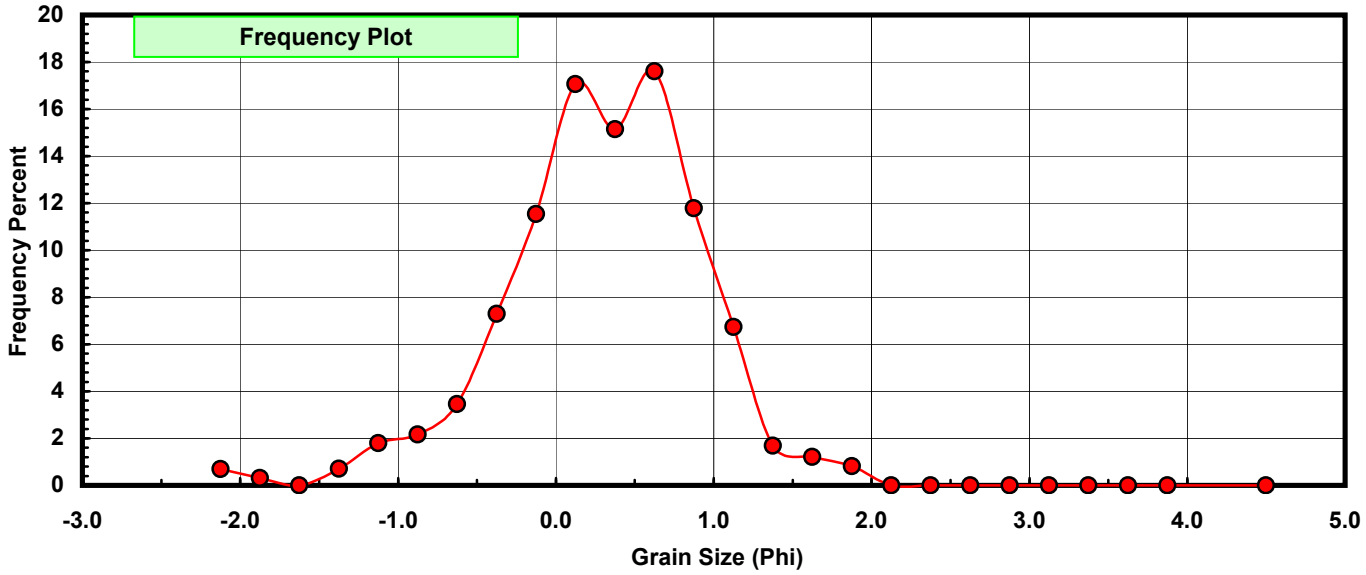

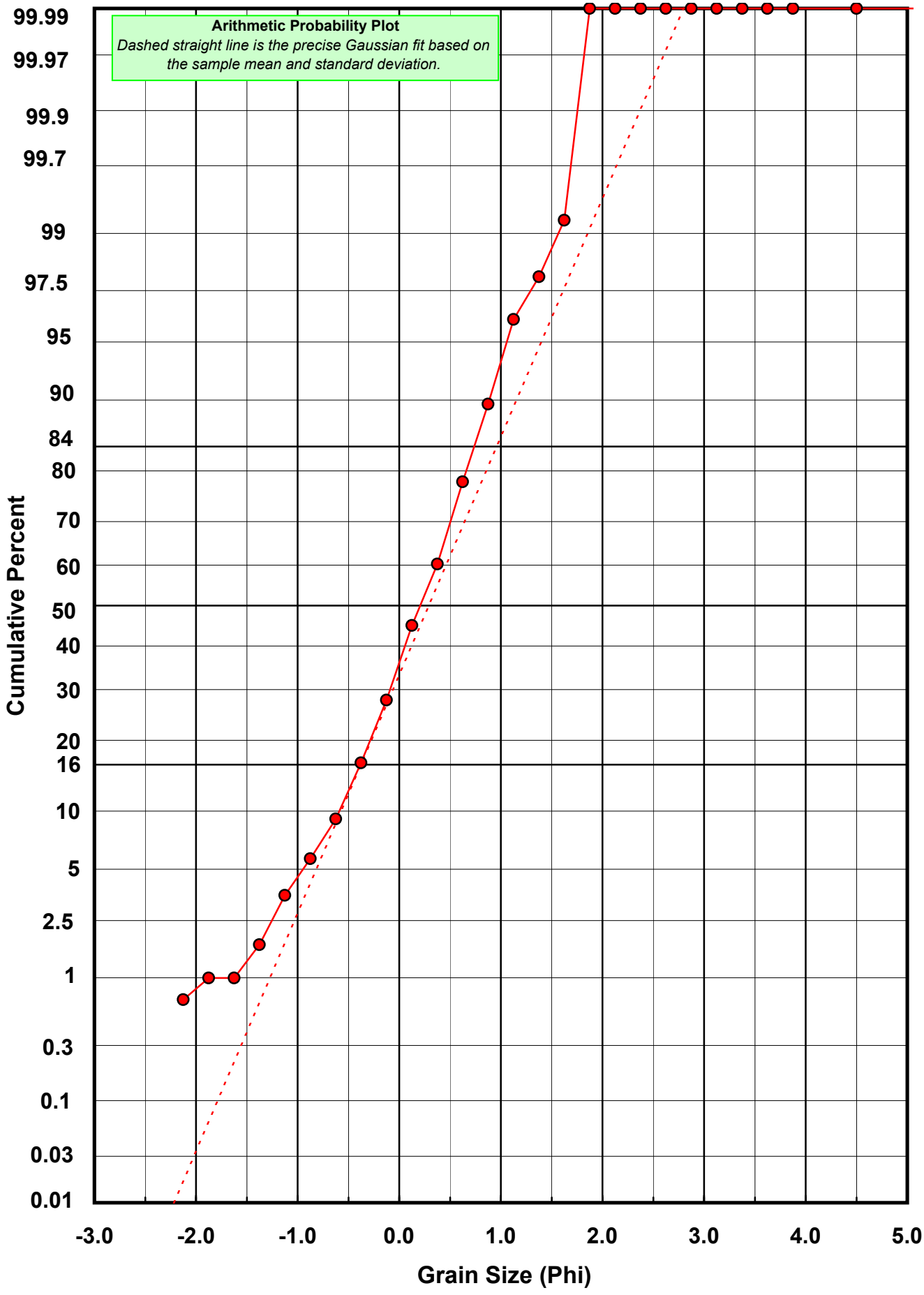
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-04-MB

Total Digested Mass: 42.164 grams

% Silica: 84.7 %

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	0.079	0.187	0.187
-0.25	-0.375	0.307	0.728	0.915
0.00	-0.125	1.016	2.410	3.325
0.25	0.125	2.697	6.396	9.722
0.50	0.375	4.368	10.360	20.081
0.75	0.625	4.982	11.816	31.897
1.00	0.875	9.884	23.442	55.339
1.25	1.125	6.308	14.961	70.299
1.50	1.375	5.231	12.406	82.706
1.75	1.625	3.542	8.401	91.106
2.00	1.875	2.053	4.869	95.975
2.25	2.125	0.823	1.952	97.927
2.50	2.375	0.419	0.994	98.921
2.75	2.625	0.253	0.600	99.521
3.00	2.875	0.109	0.259	99.779
3.25	3.125	0.048	0.114	99.893
3.50	3.375	0.027	0.064	99.957
3.75	3.625	0.012	0.028	99.986
4.00	3.875	0.006	0.014	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.9812	phi	(0.5066 mm)
Standard Dev:	0.5803	phi-units	(0.6688 mm)
Skewness:	0.3506	dimensionless	
Kurtosis:	3.5134	dimensionless	
5th Moment:	4.6599	dimensionless	
6th Moment:	25.4678	dimensionless	
RARD *	0.5914	dimensionless	
Median	0.8181	phi	(0.5672 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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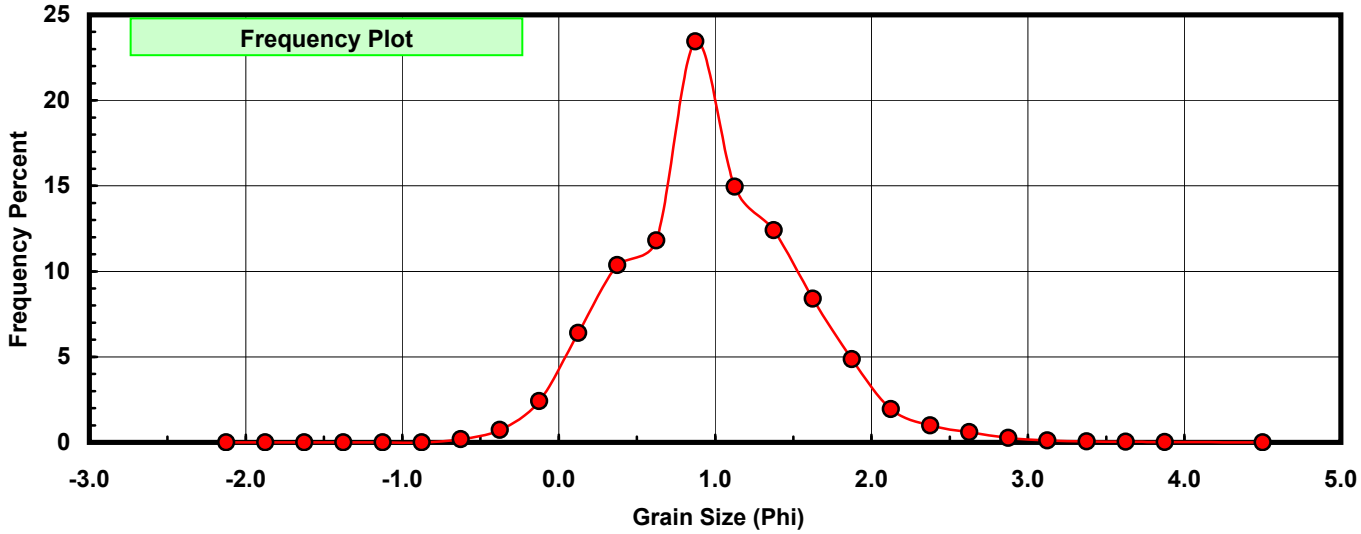

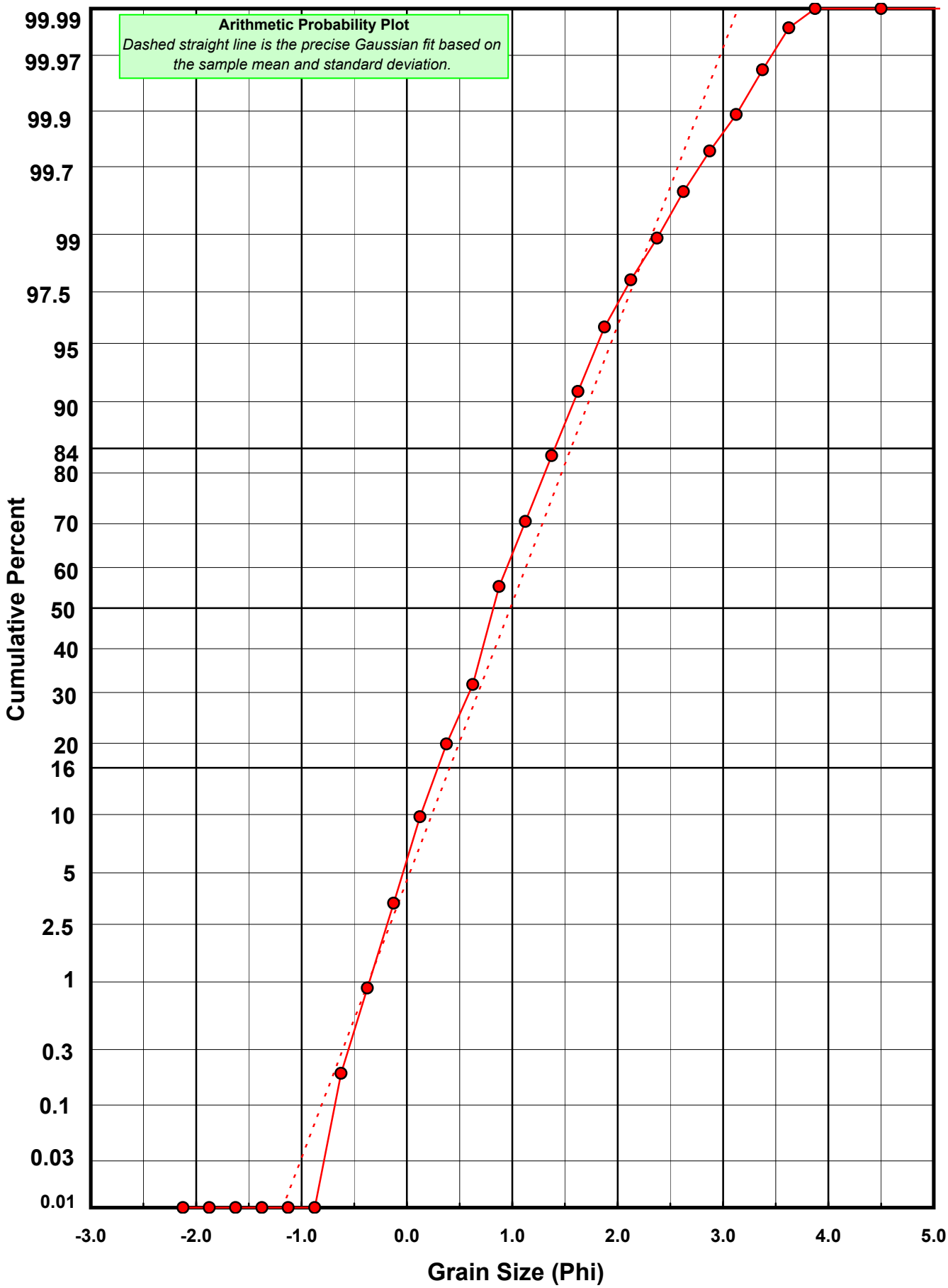
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Grain Size (Phi)