Onshore Grab Sample

Sample: NA-07-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Nassau
Latitude: 30° 37' 25.8"
Longitude: 81° 26' 19.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	52.596	grams
Total Fines in Sample	0.026	grams
Total Percent Fines	0.05	%

Dry Sieving Summary

Total Sample Weight	52.377	grams
Total Digested Weight	48.072	grams
Total Carbonate Weight	4.305	grams
Total Silica %	91.78	%
Total Carbonate %	8.22	%
Carbonate/Silica Ratio	0.090	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-07-BB

Total Sample Mass: 52.377 grams

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	0.017	0.032	0.032
-0.75	-0.875	0.089	0.170	0.202
-0.50	-0.625	0.132	0.252	0.454
-0.25	-0.375	0.217	0.414	0.869
0.00	-0.125	0.447	0.853	1.722
0.25	0.125	1.124	2.146	3.868
0.50	0.375	1.944	3.712	7.580
0.75	0.625	2.488	4.750	12.330
1.00	0.875	6.143	11.728	24.058
1.25	1.125	5.913	11.289	35.348
1.50	1.375	8.031	15.333	50.681
1.75	1.625	8.382	16.003	66.684
2.00	1.875	7.215	13.775	80.459
2.25	2.125	4.692	8.958	89.417
2.50	2.375	2.899	5.535	94.952
2.75	2.625	1.830	3.494	98.446
3.00	2.875	0.585	1.117	99.563
3.25	3.125	0.150	0.286	99.849
3.50	3.375	0.048	0.092	99.941
3.75	3.625	0.018	0.034	99.975
4.00	3.875	0.007	0.013	99.989
5.00	4.500	0.006	0.011	100.000

Statistical Results			
Mean:	1.4590	phi	(0.3637 mm)
Standard Dev:	0.6585	phi-units	(0.6335 mm)
Skewness:	-0.2424	dimensionless	
Kurtosis:	3.2368	dimensionless	
5th Moment:	-2.4159	dimensionless	
6th Moment:	19.3898	dimensionless	
RARD *	0.4513	dimensionless	
Median	1.3639	phi	(0.3885 mm)

* RARD = reciprocal absolute relative dispersion (see below)

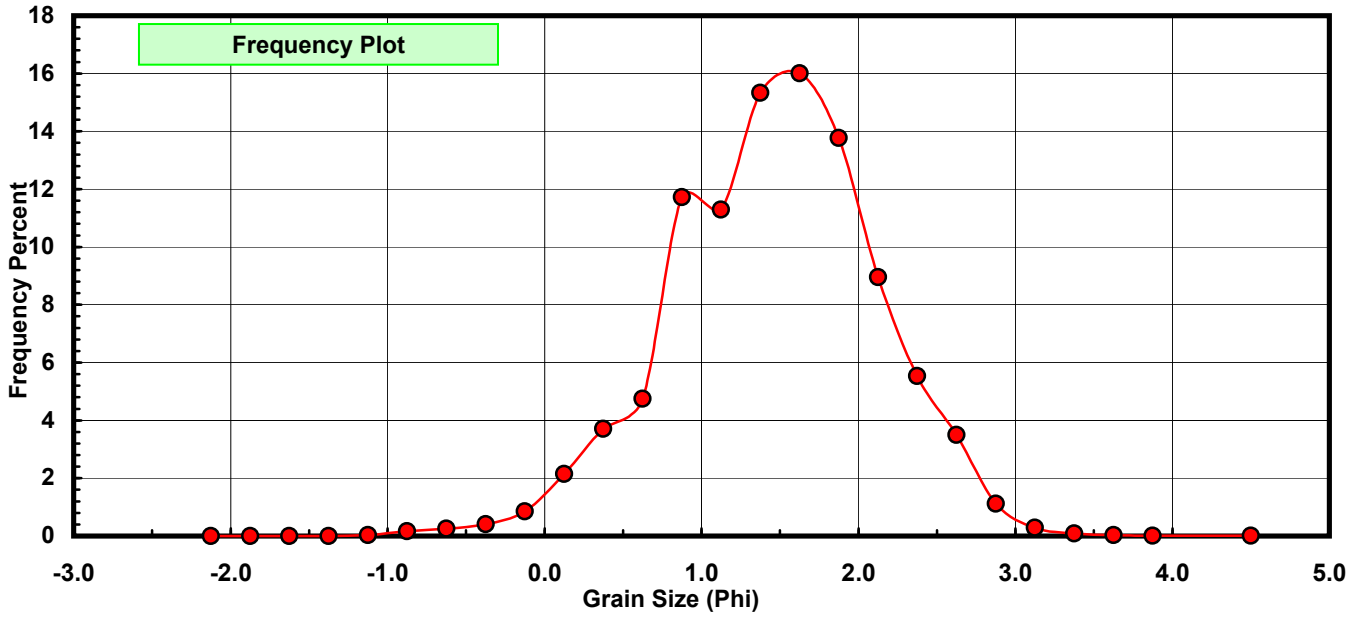
Statistical Explanation

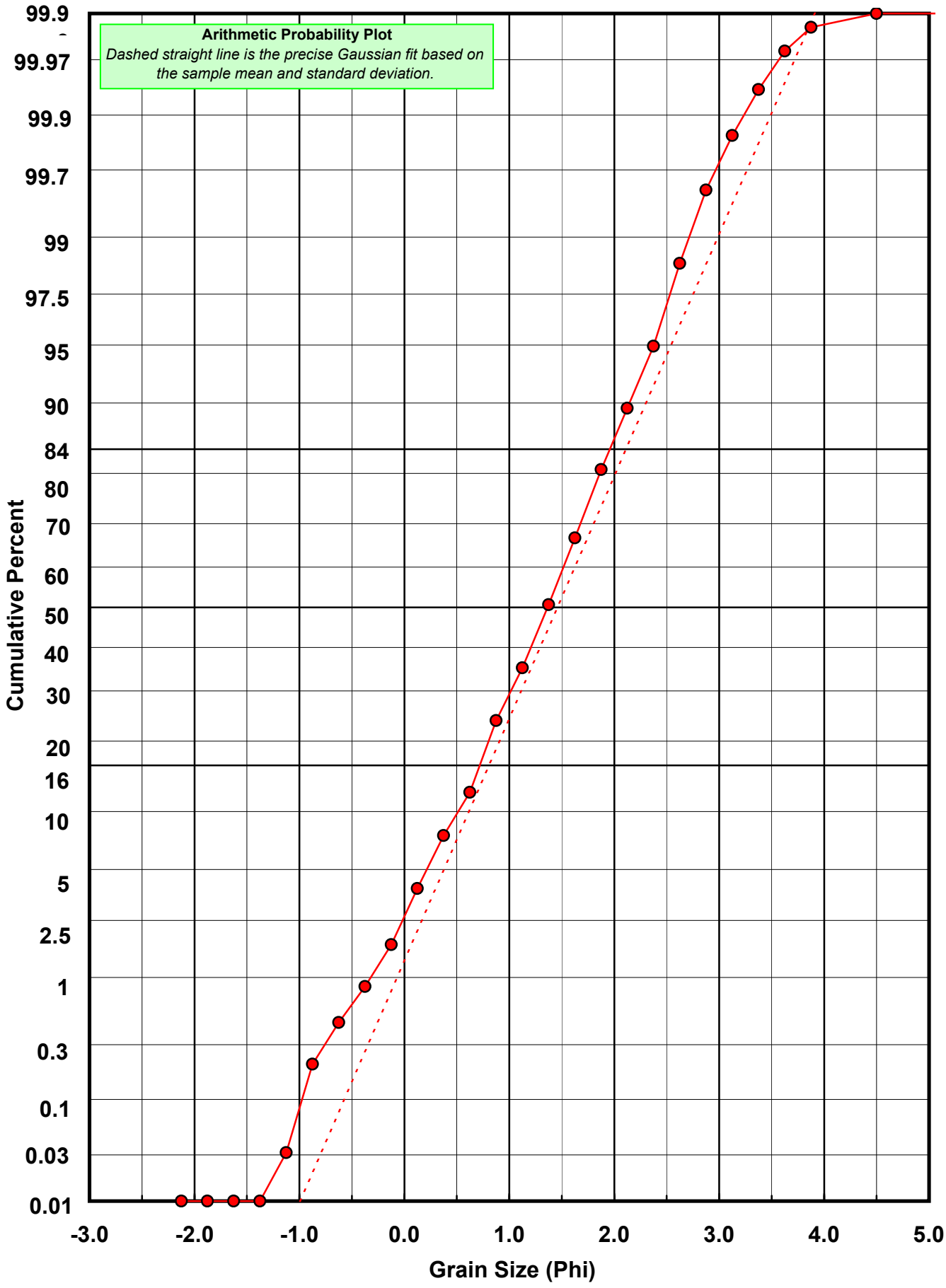
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-07-BB

Total Carbonate Mass: 4.399 grams

% Carbonate: 8.2 %

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	0.075	1.705	1.705
-0.50	-0.625	0.092	2.091	3.796
-0.25	-0.375	0.130	2.955	6.752
0.00	-0.125	0.236	5.365	12.116
0.25	0.125	0.377	8.570	20.687
0.50	0.375	0.512	11.639	32.326
0.75	0.625	0.174	3.955	36.281
1.00	0.875	1.082	24.596	60.877
1.25	1.125	0.138	3.137	64.015
1.50	1.375	0.480	10.912	74.926
1.75	1.625	0.547	12.435	87.361
2.00	1.875	0.000	0.000	87.361
2.25	2.125	0.262	5.956	93.317
2.50	2.375	0.000	0.000	93.317
2.75	2.625	0.195	4.433	97.749
3.00	2.875	0.068	1.546	99.295
3.25	3.125	0.027	0.614	99.909
3.50	3.375	0.002	0.045	99.955
3.75	3.625	0.001	0.023	99.977
4.00	3.875	0.001	0.023	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.9457	phi	(0.5192 mm)
Standard Dev:	0.8375	phi-units	(0.5596 mm)
Skewness:	0.2694	dimensionless	
Kurtosis:	2.8897	dimensionless	
5th Moment:	1.9584	dimensionless	
6th Moment:	12.0165	dimensionless	
RARD *	0.8856	dimensionless	
Median	0.7644	phi	(0.5887 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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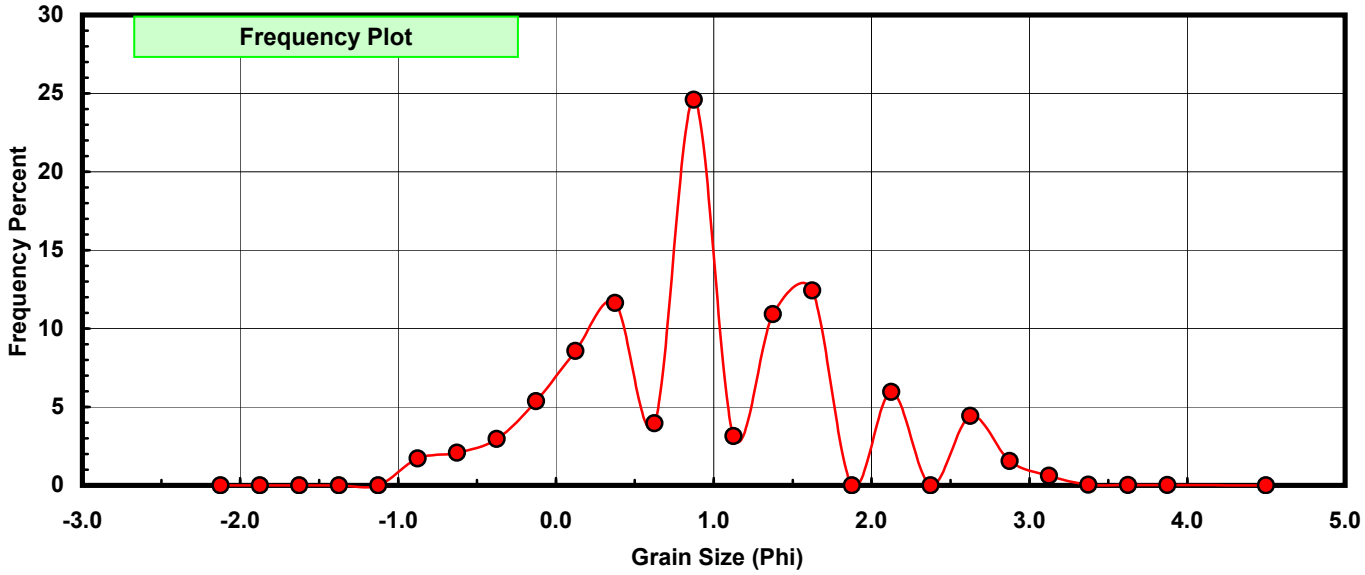

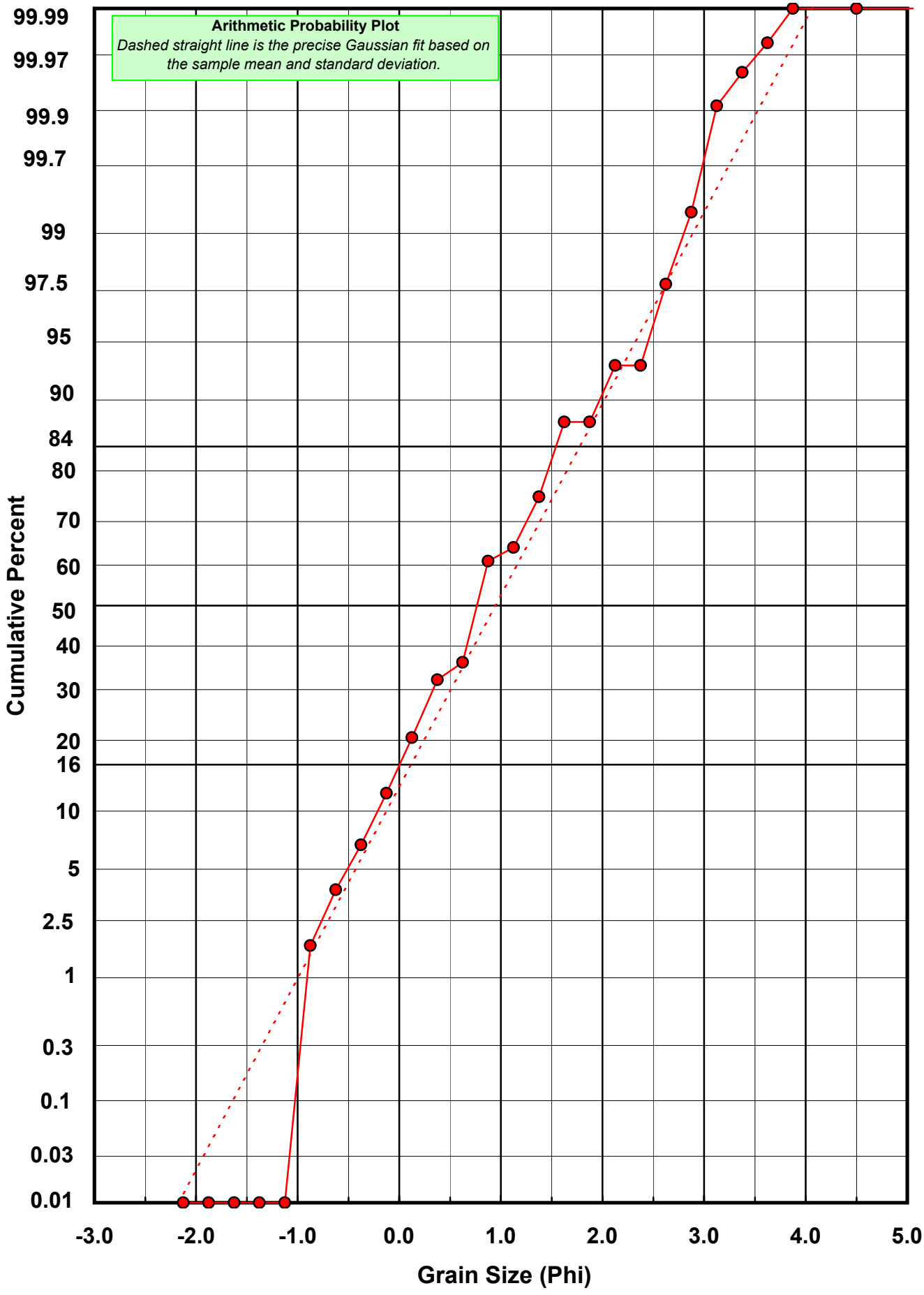
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-07-BB

Total Digested Mass: 48.069 grams

% Silica: 91.8 %

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	0.018	0.037	0.037
-0.75	-0.875	0.014	0.029	0.067
-0.50	-0.625	0.040	0.083	0.150
-0.25	-0.375	0.087	0.181	0.331
0.00	-0.125	0.211	0.439	0.770
0.25	0.125	0.747	1.554	2.324
0.50	0.375	1.432	2.979	5.303
0.75	0.625	2.314	4.814	10.117
1.00	0.875	5.061	10.529	20.645
1.25	1.125	5.775	12.014	32.659
1.50	1.375	7.551	15.709	48.368
1.75	1.625	7.835	16.299	64.667
2.00	1.875	7.275	15.134	79.802
2.25	2.125	4.430	9.216	89.018
2.50	2.375	2.935	6.106	95.124
2.75	2.625	1.635	3.401	98.525
3.00	2.875	0.517	1.076	99.601
3.25	3.125	0.123	0.256	99.856
3.50	3.375	0.046	0.096	99.952
3.75	3.625	0.017	0.035	99.988
4.00	3.875	0.006	0.012	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.5067	phi	(0.3519 mm)
Standard Dev:	0.6169	phi-units	(0.6521 mm)
Skewness:	-0.1476	dimensionless	
Kurtosis:	3.0627	dimensionless	
5th Moment:	-1.6618	dimensionless	
6th Moment:	17.2020	dimensionless	
RARD *	0.4094	dimensionless	
Median	1.4000	phi	(0.3789 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

Calculations based on the Method of Moments
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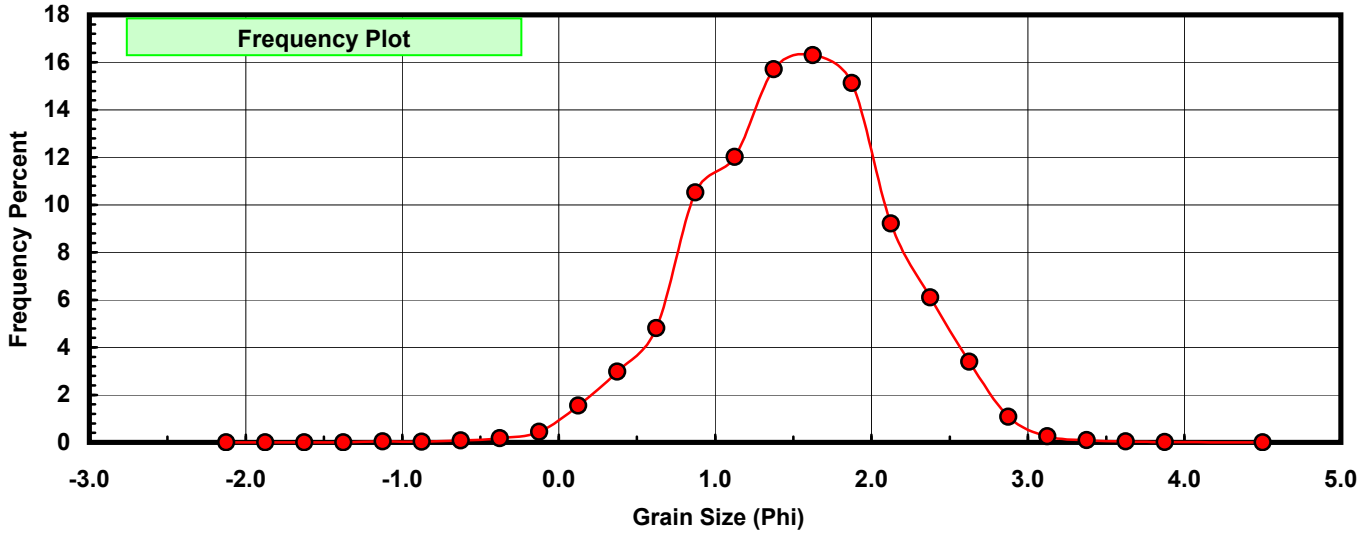

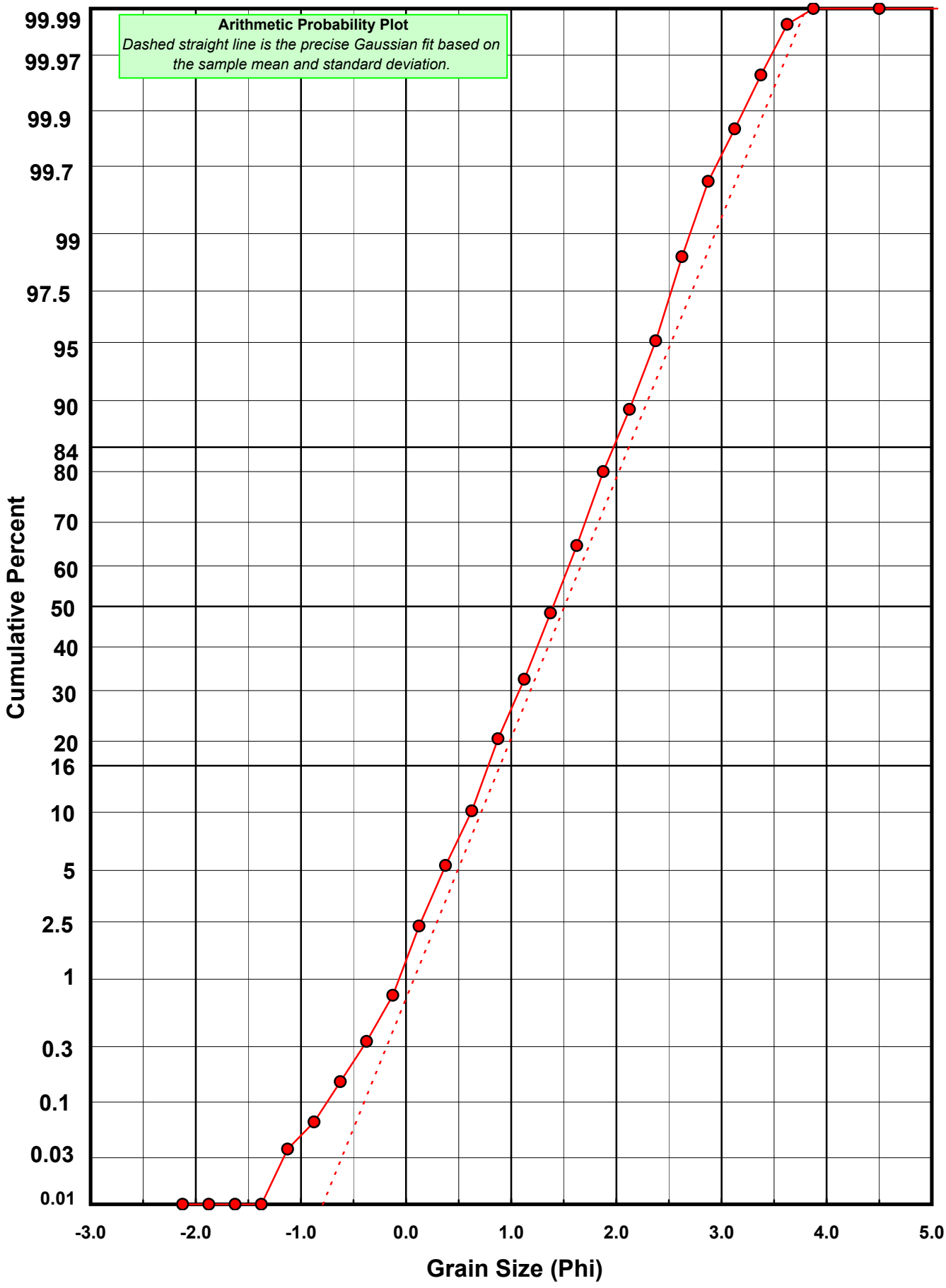
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Grain Size (Phi)