Onshore Grab Sample

Sample: NA-03-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Nassau
Latitude: 30° 41' 53.9"
Longitude: 81° 25' 44.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	47.801	grams
Total Fines in Sample	0.077	grams
Total Percent Fines	0.16	%

Dry Sieving Summary

Total Sample Weight	47.718	grams
Total Digested Weight	46.256	grams
Total Carbonate Weight	1.462	grams
Total Silica %	96.94	%
Total Carbonate %	3.06	%
Carbonate/Silica Ratio	0.032	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-03-BB

Total Sample Mass: 47.718 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	0.000	0.000	0.000
-0.75	-0.875	0.014	0.029	0.029
-0.50	-0.625	0.020	0.042	0.071
-0.25	-0.375	0.043	0.090	0.161
0.00	-0.125	0.092	0.193	0.354
0.25	0.125	0.191	0.400	0.754
0.50	0.375	0.352	0.738	1.492
0.75	0.625	0.617	1.293	2.785
1.00	0.875	1.627	3.410	6.195
1.25	1.125	2.382	4.992	11.187
1.50	1.375	4.197	8.795	19.982
1.75	1.625	6.022	12.620	32.602
2.00	1.875	7.809	16.365	48.967
2.25	2.125	6.819	14.290	63.257
2.50	2.375	6.466	13.550	76.807
2.75	2.625	6.702	14.045	90.853
3.00	2.875	3.166	6.635	97.487
3.25	3.125	0.840	1.760	99.248
3.50	3.375	0.223	0.467	99.715
3.75	3.625	0.098	0.205	99.920
4.00	3.875	0.026	0.054	99.975
5.00	4.500	0.012	0.025	100.000

Statistical Results			
Mean:	1.9955	phi	(0.2508 mm)
Standard Dev:	0.6231	phi-units	(0.6493 mm)
Skewness:	-0.4322	dimensionless	
Kurtosis:	3.3330	dimensionless	
5th Moment:	-4.6017	dimensionless	
6th Moment:	23.6255	dimensionless	
RARD *	0.3122	dimensionless	
Median	1.8931	phi	(0.2692 mm)

* RARD = reciprocal absolute relative dispersion (see below)

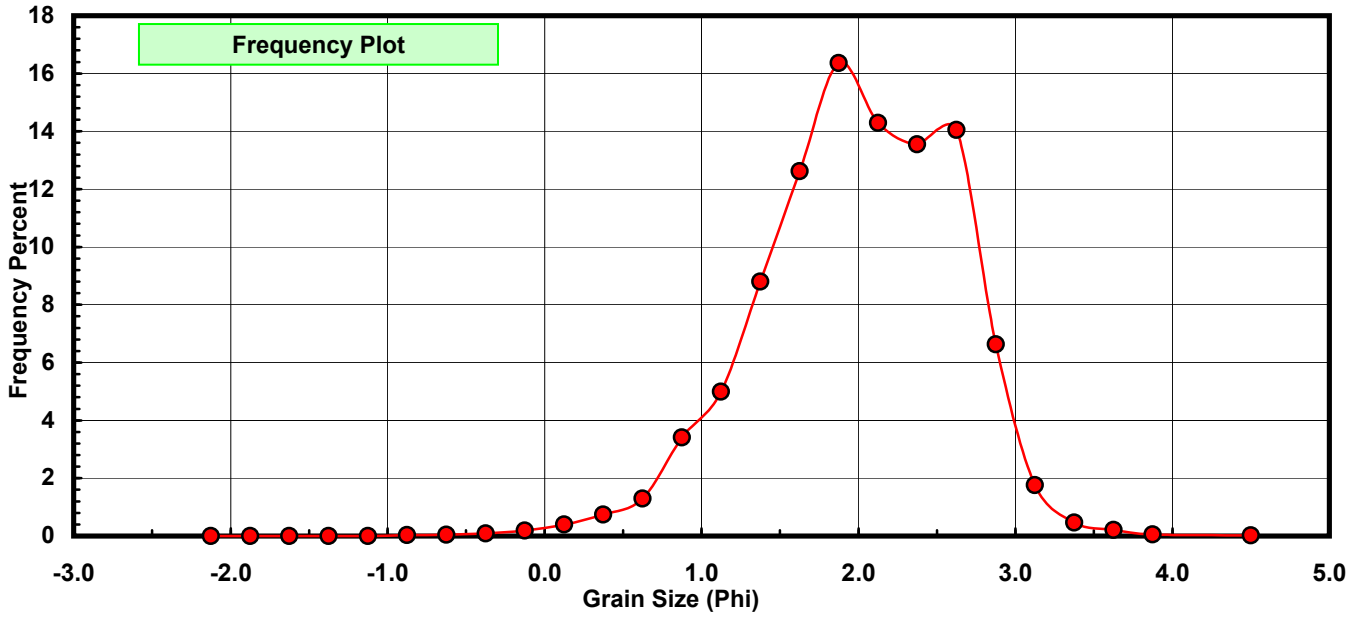
Statistical Explanation

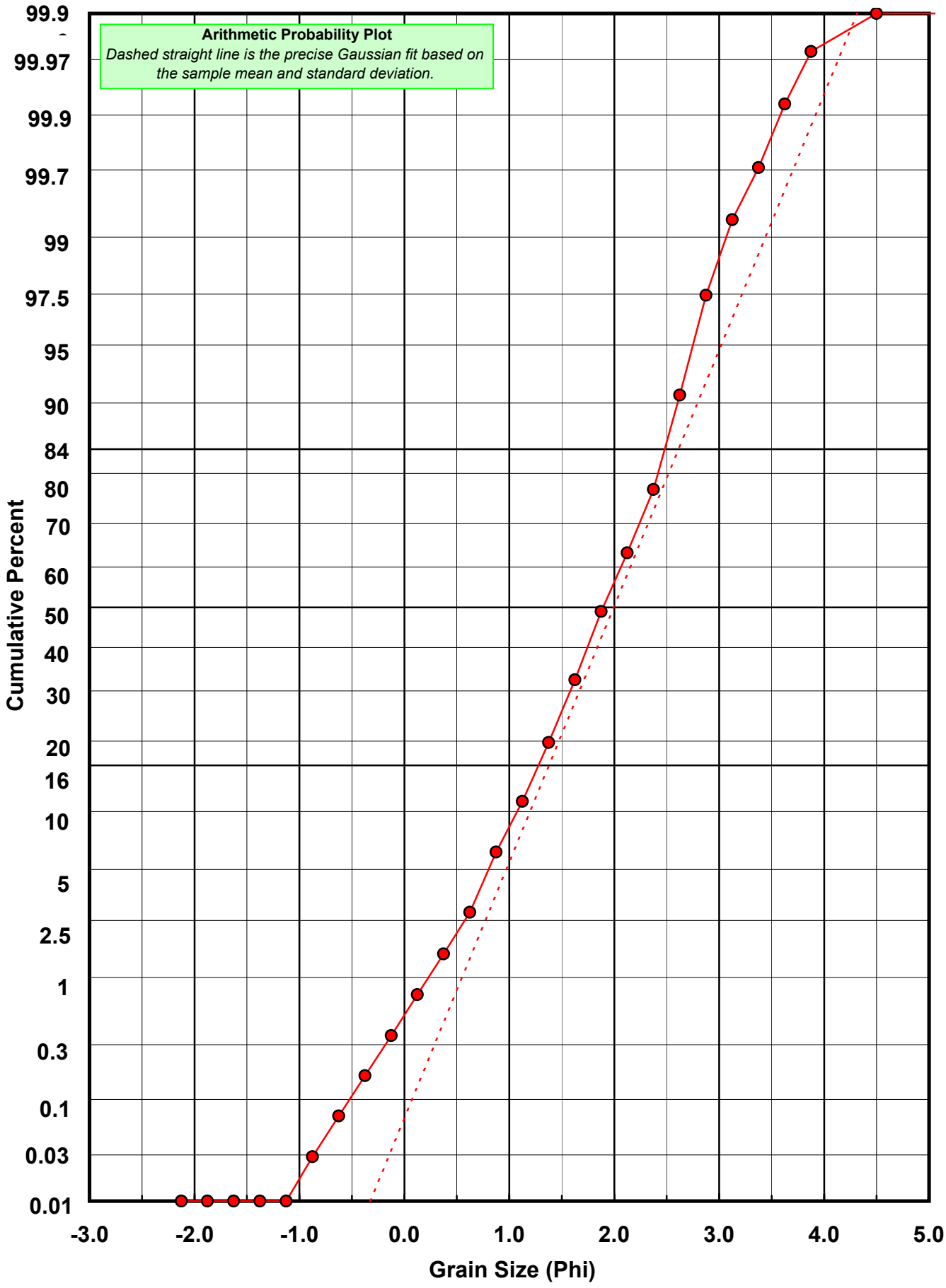
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-03-BB

Total Carbonate Mass: 1.604 grams

% Carbonate: 3.1 %

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	0.014	0.873	0.873
-0.50	-0.625	0.020	1.247	2.120
-0.25	-0.375	0.026	1.621	3.741
0.00	-0.125	0.044	2.743	6.484
0.25	0.125	0.056	3.491	9.975
0.50	0.375	0.055	3.429	13.404
0.75	0.625	0.115	7.170	20.574
1.00	0.875	0.000	0.000	20.574
1.25	1.125	0.213	13.279	33.853
1.50	1.375	0.111	6.920	40.773
1.75	1.625	0.000	0.000	40.773
2.00	1.875	0.156	9.726	50.499
2.25	2.125	0.169	10.536	61.035
2.50	2.375	0.000	0.000	61.035
2.75	2.625	0.208	12.968	74.002
3.00	2.875	0.232	14.464	88.466
3.25	3.125	0.152	9.476	97.943
3.50	3.375	0.018	1.122	99.065
3.75	3.625	0.010	0.623	99.688
4.00	3.875	0.005	0.312	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.8128	phi	(0.2846 mm)
Standard Dev:	1.0719	phi-units	(0.4757 mm)
Skewness:	-0.4799	dimensionless	
Kurtosis:	2.2511	dimensionless	
5th Moment:	-2.6762	dimensionless	
6th Moment:	7.7900	dimensionless	
RARD *	0.5913	dimensionless	
Median	1.8622	phi	(0.2751 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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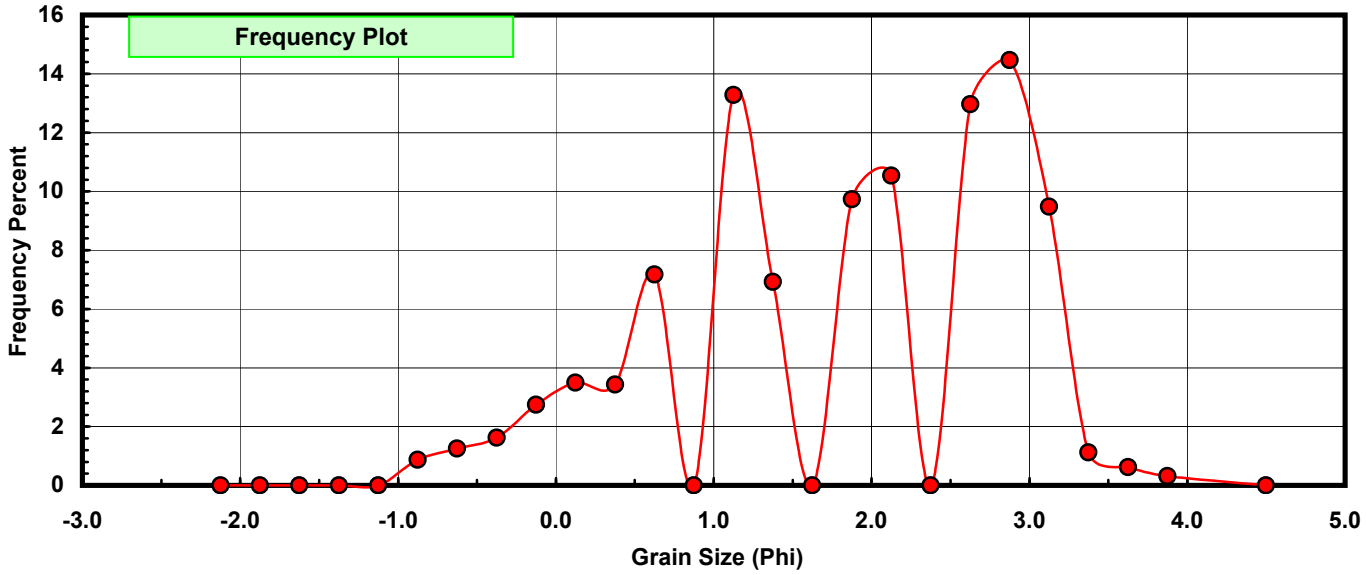

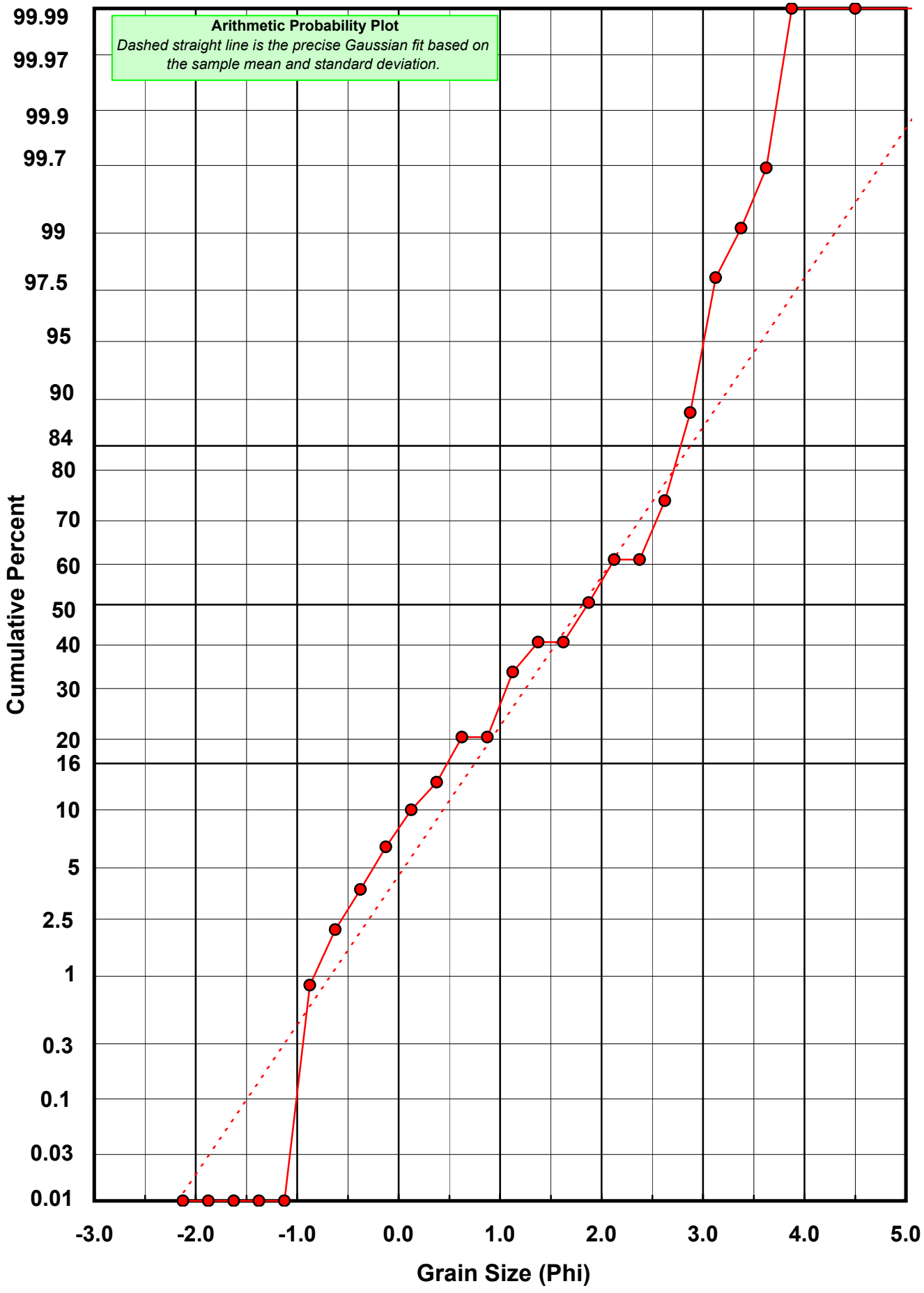
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-03-BB

Total Digested Mass: 46.244 grams

% Silica: 96.9 %

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	0.000	0.000	0.000
-0.25	-0.375	0.017	0.037	0.037
0.00	-0.125	0.048	0.104	0.141
0.25	0.125	0.135	0.292	0.432
0.50	0.375	0.297	0.642	1.075
0.75	0.625	0.502	1.086	2.160
1.00	0.875	1.651	3.570	5.730
1.25	1.125	2.169	4.690	10.421
1.50	1.375	4.086	8.836	19.257
1.75	1.625	6.074	13.135	32.391
2.00	1.875	7.653	16.549	48.940
2.25	2.125	6.650	14.380	63.321
2.50	2.375	6.532	14.125	77.446
2.75	2.625	6.494	14.043	91.489
3.00	2.875	2.934	6.345	97.833
3.25	3.125	0.688	1.488	99.321
3.50	3.375	0.205	0.443	99.764
3.75	3.625	0.088	0.190	99.955
4.00	3.875	0.021	0.045	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.0007	phi	(0.2499 mm)
Standard Dev:	0.5986	phi-units	(0.6604 mm)
Skewness:	-0.3496	dimensionless	
Kurtosis:	2.9741	dimensionless	
5th Moment:	-3.1658	dimensionless	
6th Moment:	16.2712	dimensionless	
RARD *	0.2992	dimensionless	
Median	1.8934	phi	(0.2692 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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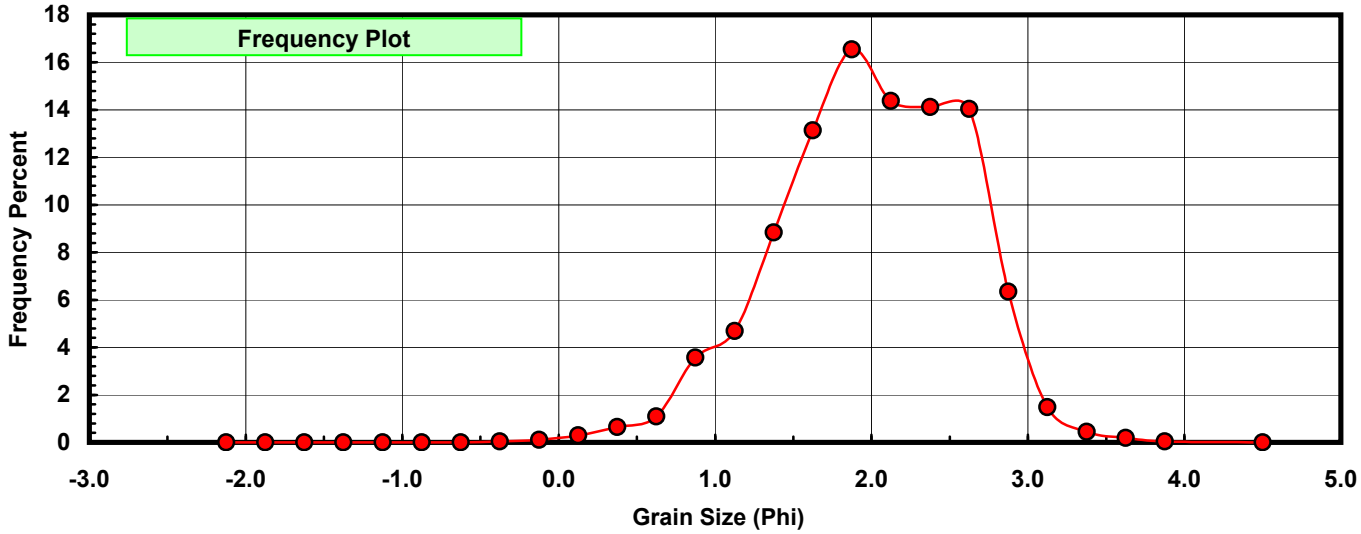

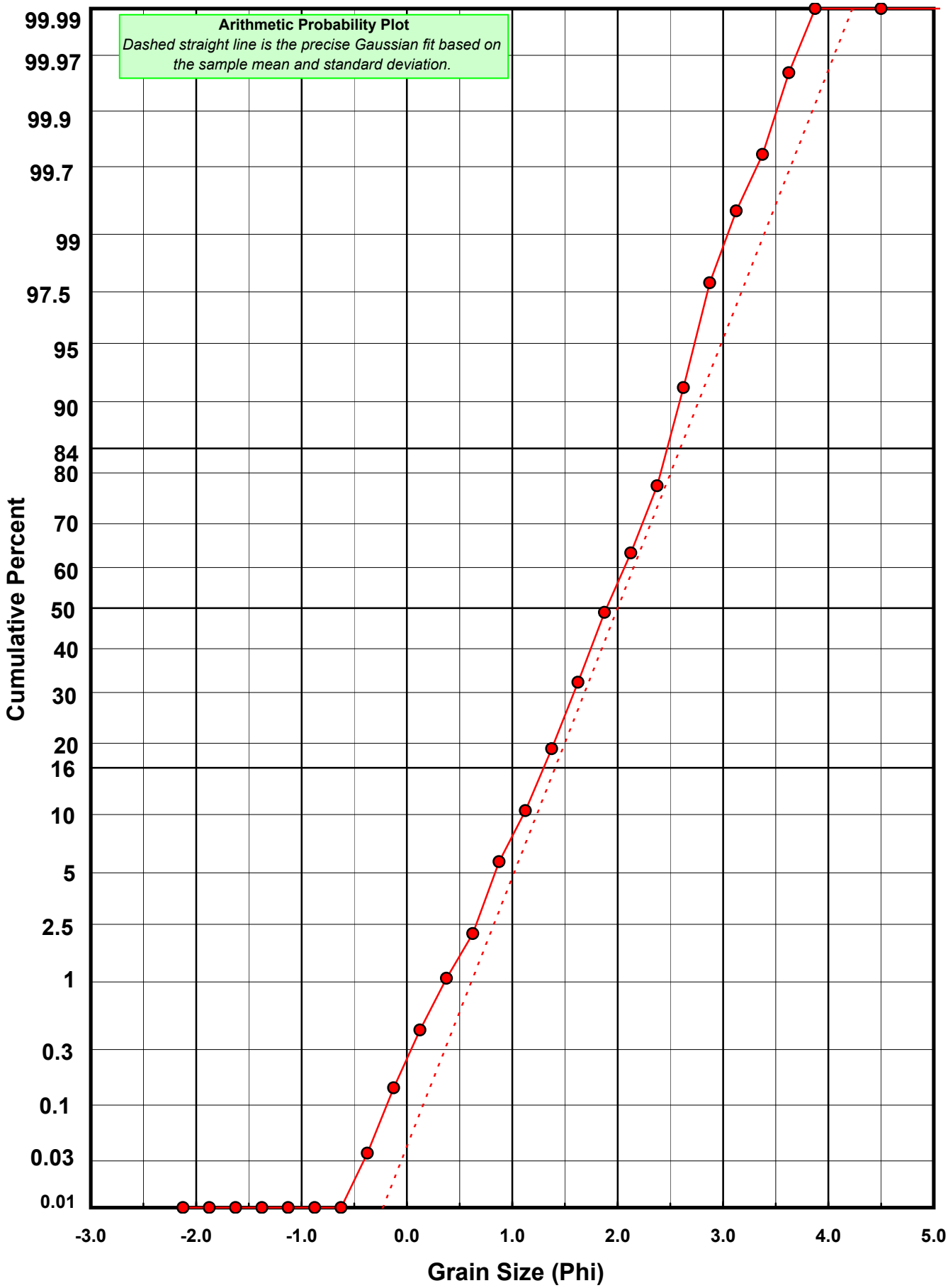
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Grain Size (Phi)