Onshore Grab Sample

Sample: NA-10-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Nassau
Latitude: 30° 34' 49.3"
Longitude: 81° 26' 36.0"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	50.584	grams
Total Fines in Sample	0.032	grams
Total Percent Fines	0.06	%

Dry Sieving Summary

Total Sample Weight	50.570	grams
Total Digested Weight	48.517	grams
Total Carbonate Weight	2.053	grams
Total Silica %	95.94	%
Total Carbonate %	4.06	%
Carbonate/Silica Ratio	0.042	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-10-BB

Total Sample Mass: 50.570 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	0.002	0.004	0.004
-0.50	-0.625	0.005	0.010	0.014
-0.25	-0.375	0.005	0.010	0.024
0.00	-0.125	0.010	0.020	0.044
0.25	0.125	0.039	0.077	0.121
0.50	0.375	0.068	0.134	0.255
0.75	0.625	0.362	0.716	0.971
1.00	0.875	2.690	5.319	6.290
1.25	1.125	5.128	10.140	16.431
1.50	1.375	7.318	14.471	30.902
1.75	1.625	9.157	18.108	49.009
2.00	1.875	9.823	19.425	68.434
2.25	2.125	6.859	13.563	81.997
2.50	2.375	4.677	9.249	91.246
2.75	2.625	3.050	6.031	97.277
3.00	2.875	0.980	1.938	99.215
3.25	3.125	0.256	0.506	99.721
3.50	3.375	0.091	0.180	99.901
3.75	3.625	0.036	0.071	99.972
4.00	3.875	0.010	0.020	99.992
5.00	4.500	0.004	0.008	100.000

Statistical Results			
Mean:	1.7705	phi	(0.2931 mm)
Standard Dev:	0.5209	phi-units	(0.6969 mm)
Skewness:	0.1531	dimensionless	
Kurtosis:	2.9034	dimensionless	
5th Moment:	1.3129	dimensionless	
6th Moment:	16.9588	dimensionless	
RARD *	0.2942	dimensionless	
Median	1.6378	phi	(0.3214 mm)

* RARD = reciprocal absolute relative dispersion (see below)

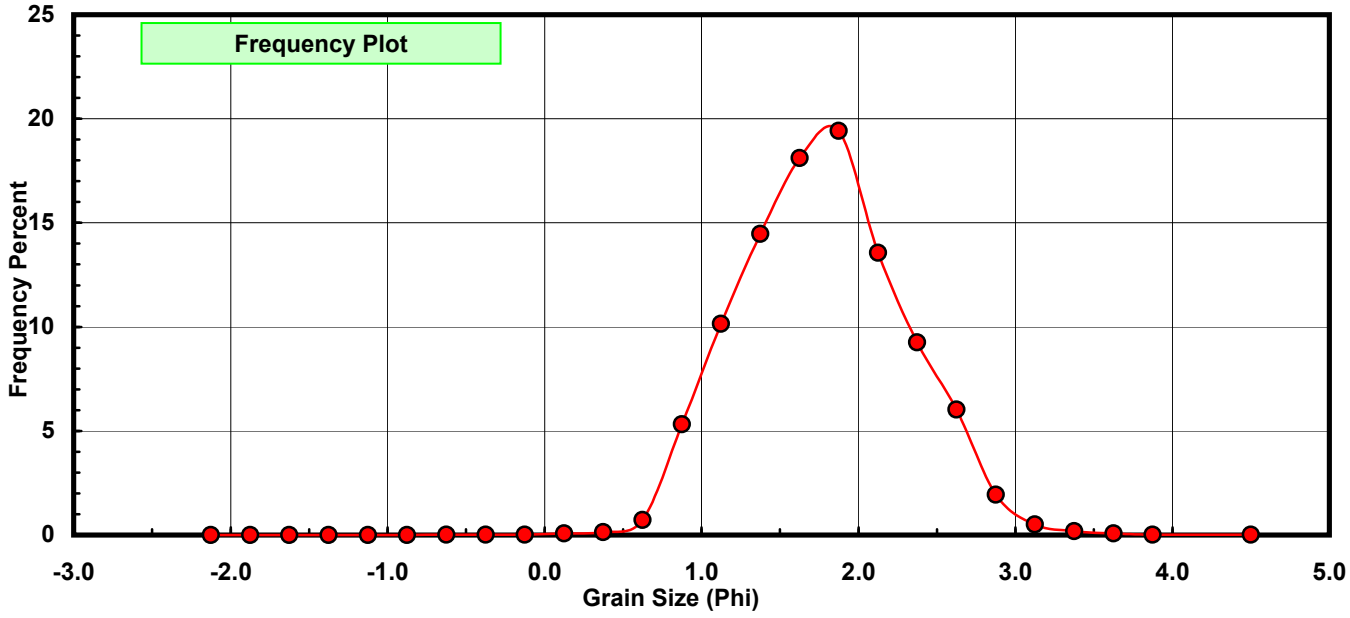
Statistical Explanation

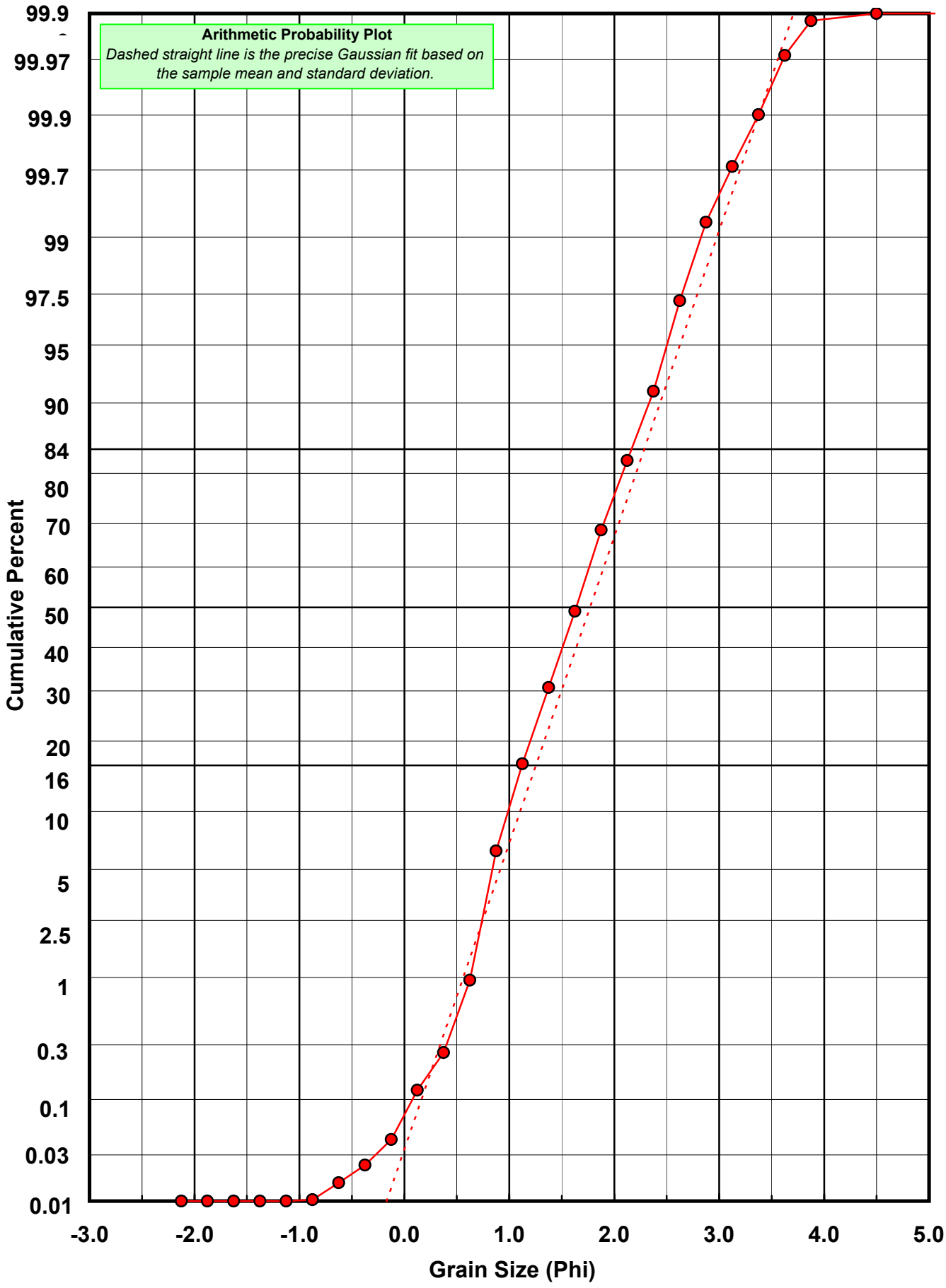
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-10-BB

Total Carbonate Mass: 2.189 grams

% Carbonate: 4.1 %

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	0.002	0.091	0.091
-0.50	-0.625	0.005	0.228	0.320
-0.25	-0.375	0.005	0.228	0.548
0.00	-0.125	0.008	0.365	0.914
0.25	0.125	0.027	1.233	2.147
0.50	0.375	0.037	1.690	3.837
0.75	0.625	0.132	6.030	9.868
1.00	0.875	0.181	8.269	18.136
1.25	1.125	0.458	20.923	39.059
1.50	1.375	0.000	0.000	39.059
1.75	1.625	0.400	18.273	57.332
2.00	1.875	0.360	16.446	73.778
2.25	2.125	0.143	6.533	80.311
2.50	2.375	0.000	0.000	80.311
2.75	2.625	0.263	12.015	92.325
3.00	2.875	0.118	5.391	97.716
3.25	3.125	0.042	1.919	99.635
3.50	3.375	0.002	0.091	99.726
3.75	3.625	0.003	0.137	99.863
4.00	3.875	0.003	0.137	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.6376	phi	(0.3214 mm)
Standard Dev:	0.7349	phi-units	(0.6009 mm)
Skewness:	0.0955	dimensionless	
Kurtosis:	2.6915	dimensionless	
5th Moment:	-0.3017	dimensionless	
6th Moment:	12.0216	dimensionless	
RARD *	0.4488	dimensionless	
Median	1.5247	phi	(0.3476 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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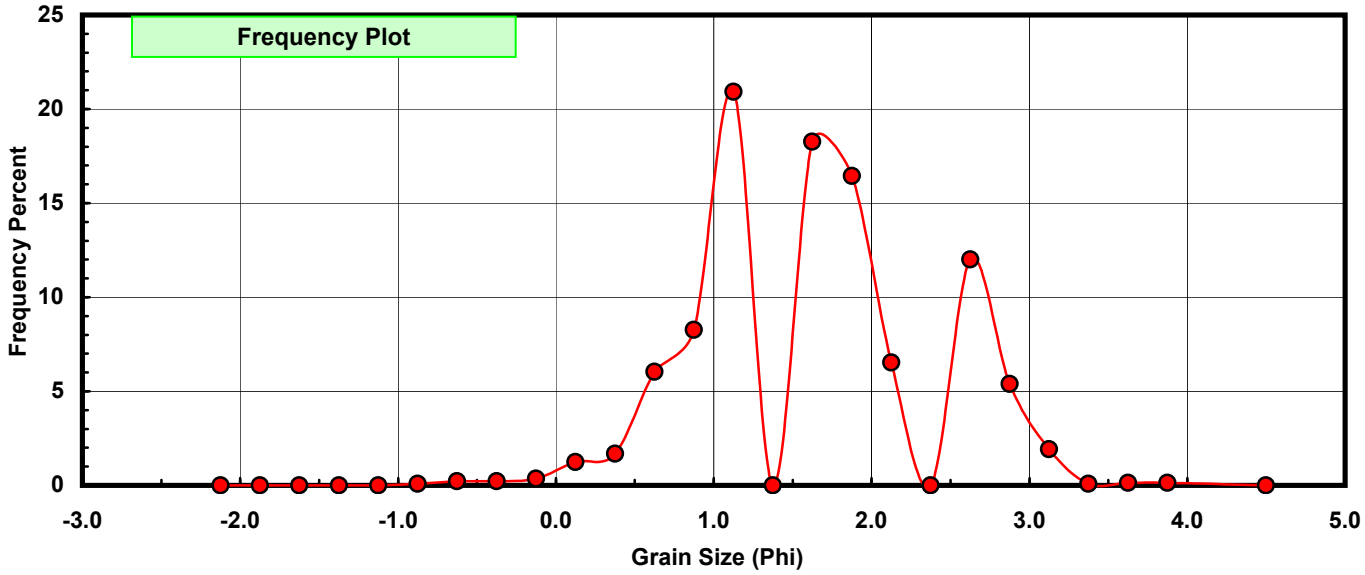

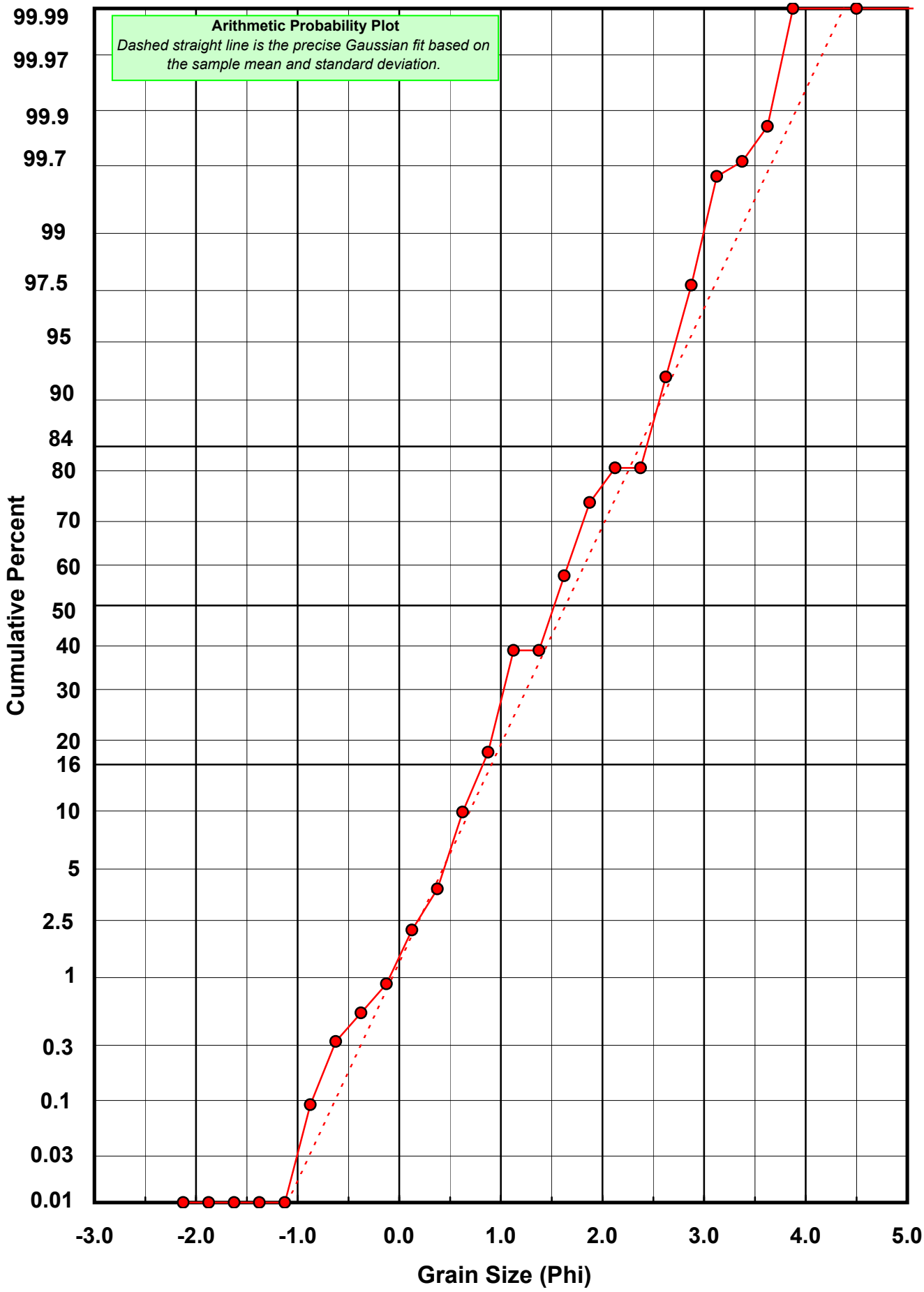
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-10-BB

Total Digested Mass: 48.514 grams

% Silica: 95.9 %

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	0.000	0.000	0.000
0.00	-0.125	0.002	0.004	0.004
0.25	0.125	0.012	0.025	0.029
0.50	0.375	0.031	0.064	0.093
0.75	0.625	0.230	0.474	0.567
1.00	0.875	2.509	5.172	5.739
1.25	1.125	4.670	9.626	15.365
1.50	1.375	7.357	15.165	30.529
1.75	1.625	8.757	18.050	48.580
2.00	1.875	9.463	19.506	68.086
2.25	2.125	6.716	13.843	81.929
2.50	2.375	4.775	9.843	91.771
2.75	2.625	2.787	5.745	97.516
3.00	2.875	0.862	1.777	99.293
3.25	3.125	0.214	0.441	99.734
3.50	3.375	0.089	0.183	99.918
3.75	3.625	0.033	0.068	99.986
4.00	3.875	0.007	0.014	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.7772	phi	(0.2918 mm)
Standard Dev:	0.5075	phi-units	(0.7034 mm)
Skewness:	0.1866	dimensionless	
Kurtosis:	2.7130	dimensionless	
5th Moment:	1.8176	dimensionless	
6th Moment:	12.6899	dimensionless	
RARD *	0.2856	dimensionless	
Median	1.6432	phi	(0.3201 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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Millimeter data calculated by mm = 2^(-phi)

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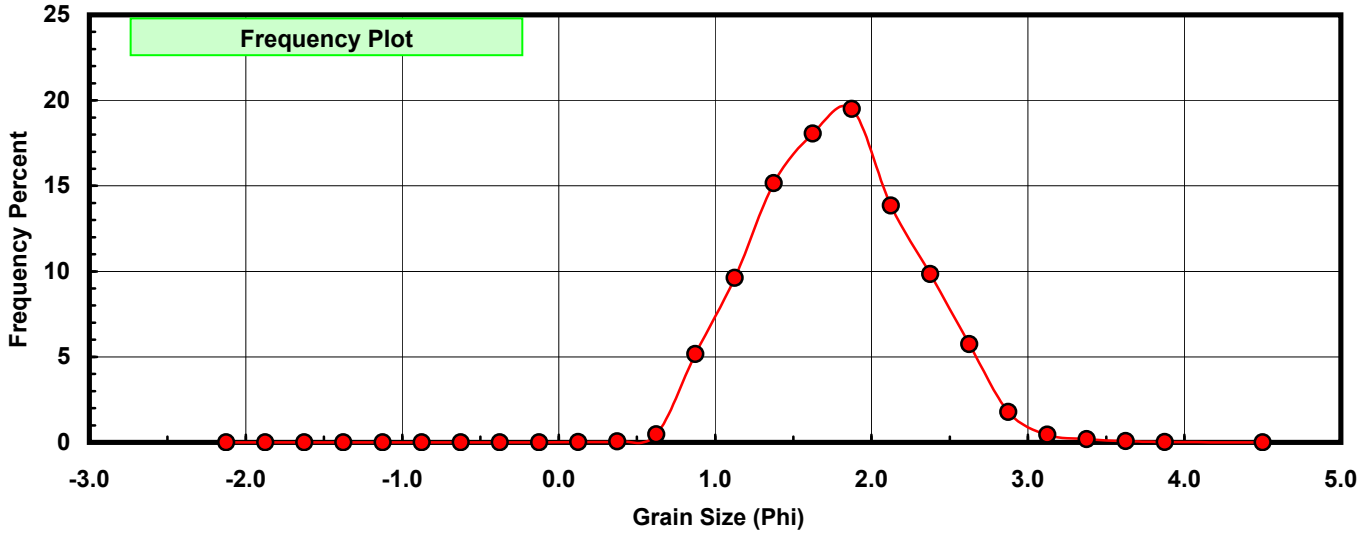

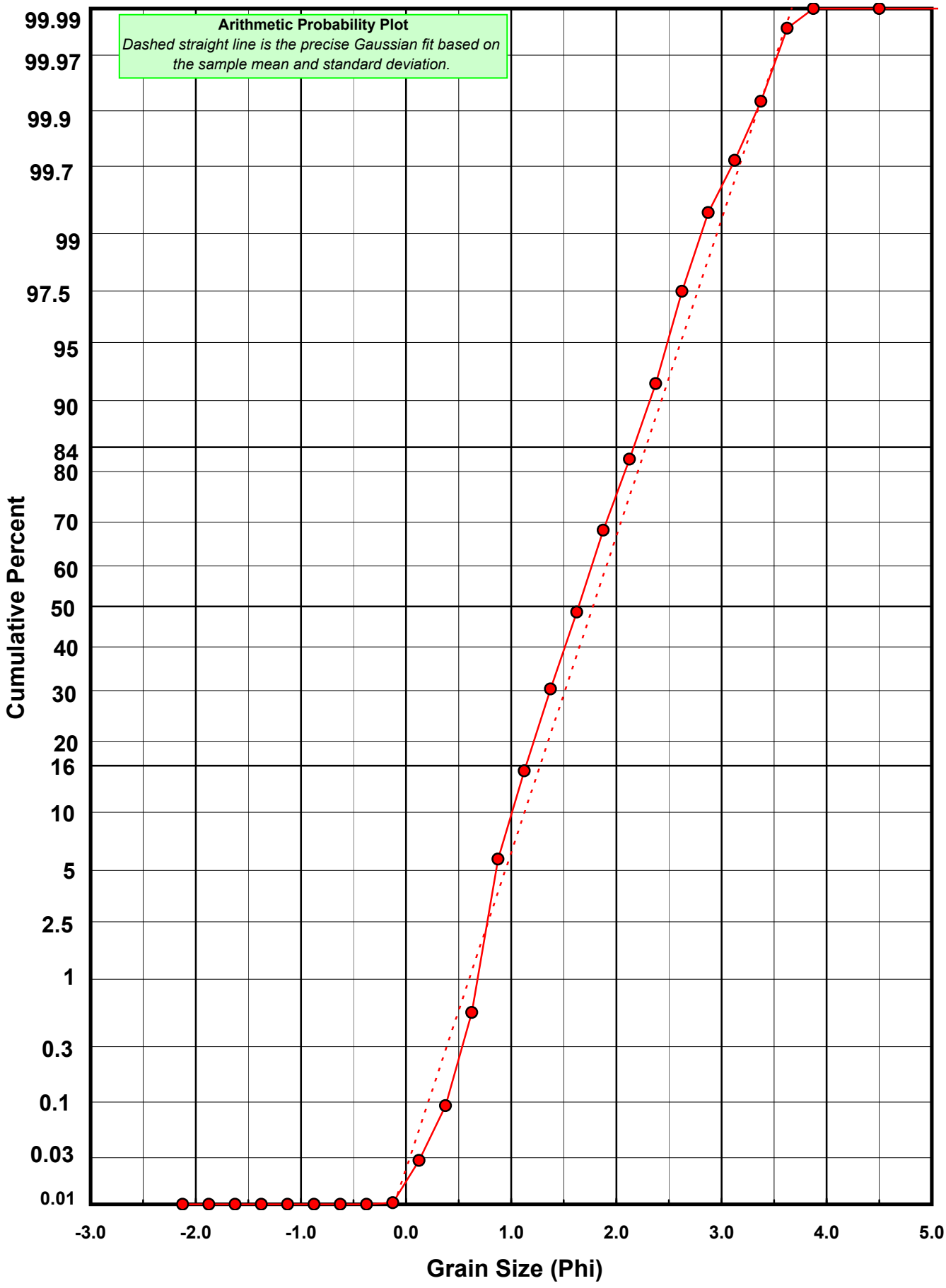
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Grain Size (Phi)