Onshore Grab Sample

Sample: NA-01-B
Sample Taken By: J. Ladner
Sample Collected On: 12/3/02
Splits? N/A

County: Nasau
Latitude: 30° 42' 4.3"
Longitude: 81° 25' 53.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	33.435	grams
Total Fines in Sample	0.172	grams
Total Percent Fines	0.51	%

Dry Sieving Summary

Total Sample Weight	33.338	grams
Total Digested Weight	32.463	grams
Total Carbonate Weight	0.875	grams
Total Silica %	97.38	%
Total Carbonate %	2.62	%
Carbonate/Silica Ratio	0.027	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-01-B

Total Sample Mass: 33.338 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	0.028	0.084	0.084
-1.50	-1.625	0.000	0.000	0.084
-1.25	-1.375	0.015	0.045	0.129
-1.00	-1.125	0.004	0.012	0.141
-0.75	-0.875	0.007	0.021	0.162
-0.50	-0.625	0.000	0.000	0.162
-0.25	-0.375	0.001	0.003	0.165
0.00	-0.125	0.001	0.003	0.168
0.25	0.125	0.005	0.015	0.183
0.50	0.375	0.009	0.027	0.210
0.75	0.625	0.032	0.096	0.306
1.00	0.875	0.237	0.711	1.017
1.25	1.125	0.742	2.226	3.243
1.50	1.375	1.858	5.573	8.816
1.75	1.625	3.755	11.263	20.079
2.00	1.875	5.944	17.830	37.909
2.25	2.125	6.120	18.357	56.266
2.50	2.375	5.957	17.868	74.135
2.75	2.625	5.288	15.862	89.996
3.00	2.875	2.367	7.100	97.096
3.25	3.125	0.600	1.800	98.896
3.50	3.375	0.208	0.624	99.520
3.75	3.625	0.113	0.339	99.859
4.00	3.875	0.038	0.114	99.973
5.00	4.500	0.009	0.027	100.000

Statistical Results			
Mean:	2.1536	phi	(0.2248 mm)
Standard Dev:	0.5181	phi-units	(0.6983 mm)
Skewness:	-0.6263	dimensionless	
Kurtosis:	7.1649	dimensionless	
5th Moment:	-33.6928	dimensionless	
6th Moment:	268.7676	dimensionless	
RARD *	0.2406	dimensionless	
Median	2.0397	phi	(0.2432 mm)

* RARD = reciprocal absolute relative dispersion (see below)

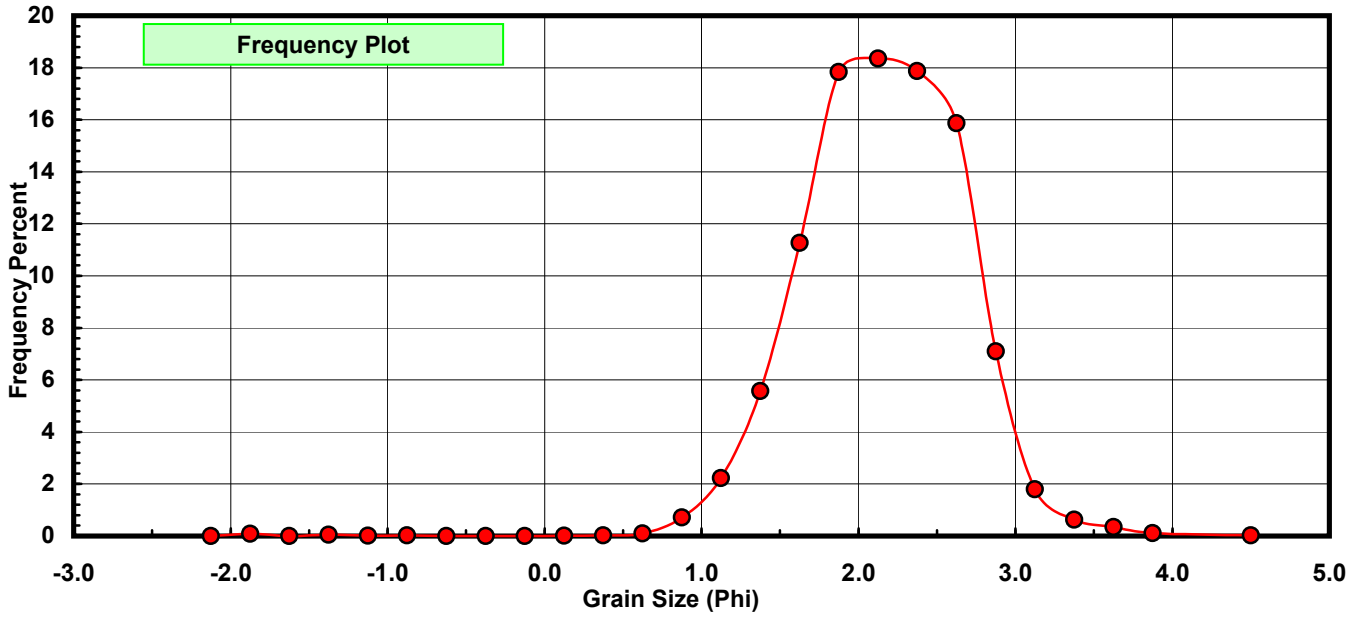
Statistical Explanation

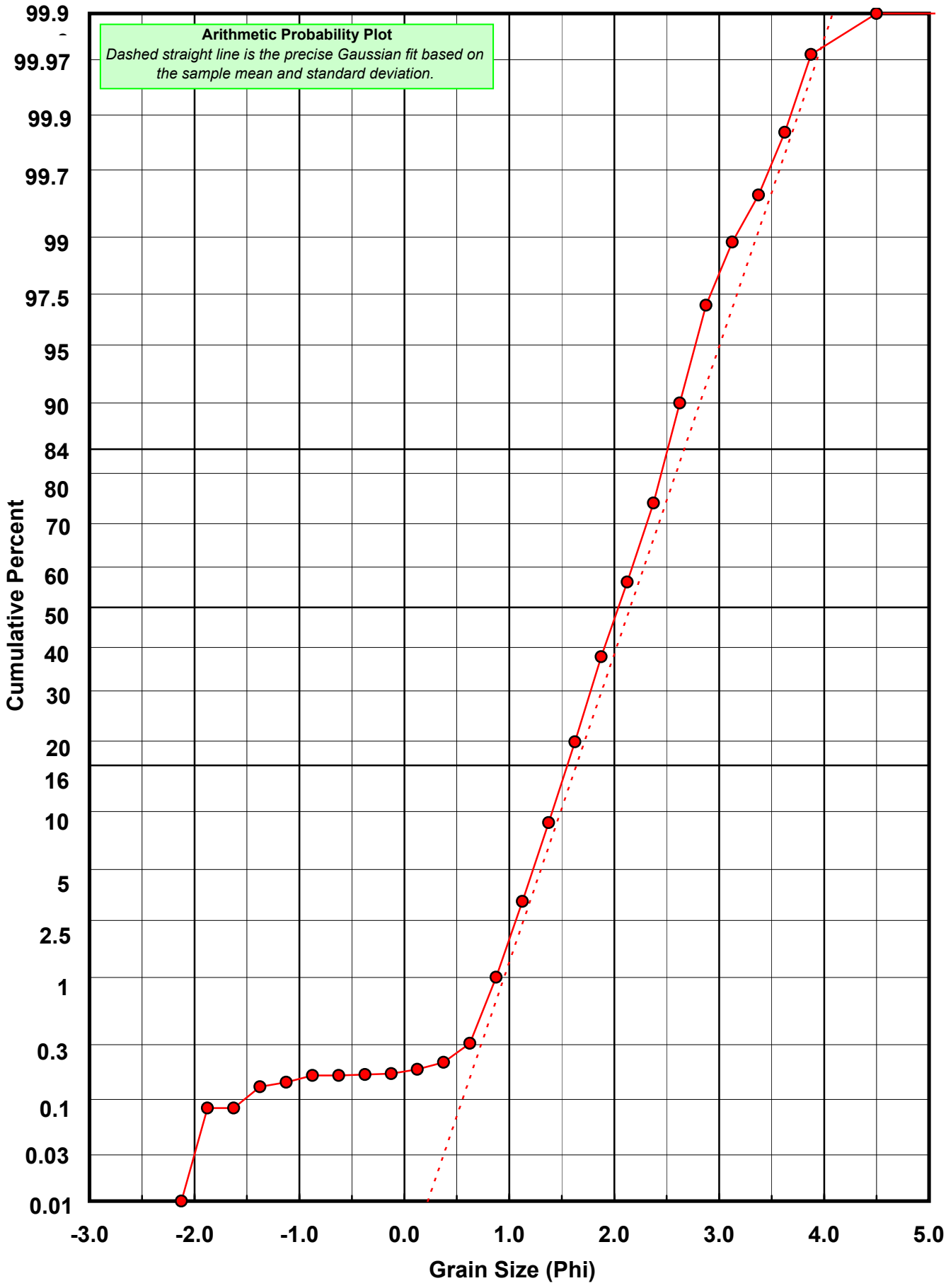
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-01-B

Total Carbonate Mass: 0.974 grams

% Carbonate: 2.6 %

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	0.028	2.875	2.875
-1.50	-1.625	0.000	0.000	2.875
-1.25	-1.375	0.015	1.540	4.415
-1.00	-1.125	0.004	0.411	4.825
-0.75	-0.875	0.007	0.719	5.544
-0.50	-0.625	0.000	0.000	5.544
-0.25	-0.375	0.001	0.103	5.647
0.00	-0.125	0.001	0.103	5.749
0.25	0.125	0.000	0.000	5.749
0.50	0.375	0.002	0.205	5.955
0.75	0.625	0.013	1.335	7.290
1.00	0.875	0.022	2.259	9.548
1.25	1.125	0.058	5.955	15.503
1.50	1.375	0.000	0.000	15.503
1.75	1.625	0.155	15.914	31.417
2.00	1.875	0.077	7.906	39.322
2.25	2.125	0.000	0.000	39.322
2.50	2.375	0.018	1.848	41.170
2.75	2.625	0.228	23.409	64.579
3.00	2.875	0.263	27.002	91.581
3.25	3.125	0.067	6.879	98.460
3.50	3.375	0.006	0.616	99.076
3.75	3.625	0.008	0.821	99.897
4.00	3.875	0.001	0.103	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.1204	phi	(0.23 mm)
Standard Dev:	1.1206	phi-units	(0.4599 mm)
Skewness:	-1.9676	dimensionless	
Kurtosis:	7.0852	dimensionless	
5th Moment:	-23.0279	dimensionless	
6th Moment:	78.7876	dimensionless	
RARD *	0.5285	dimensionless	
Median	2.4693	phi	(0.1806 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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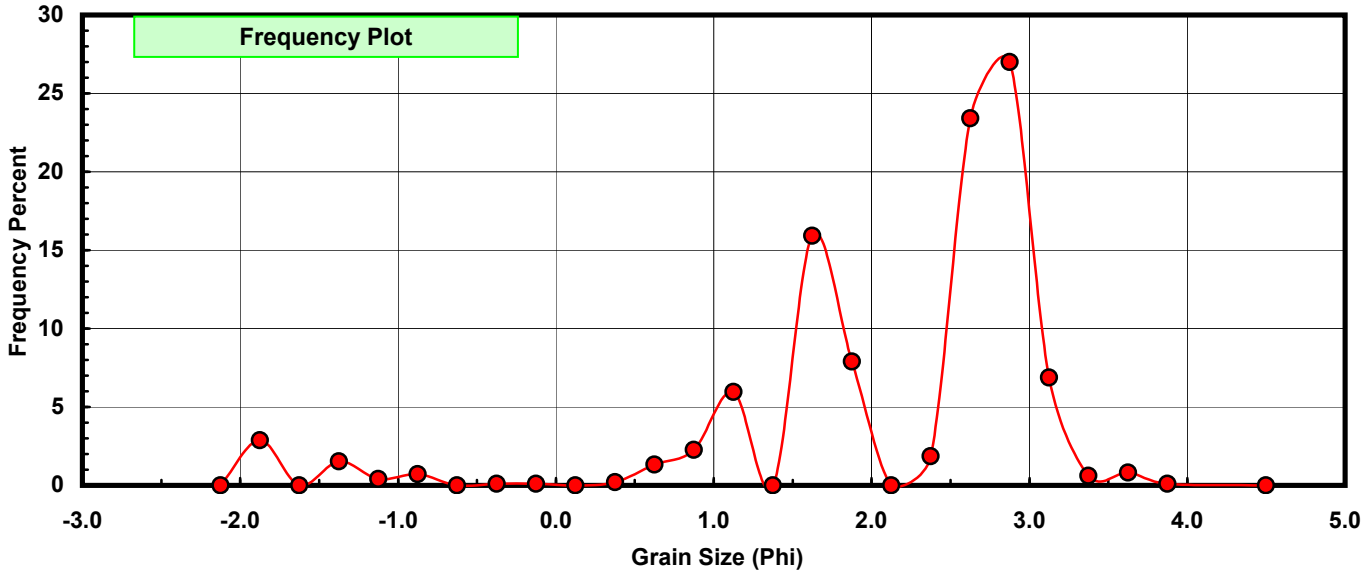

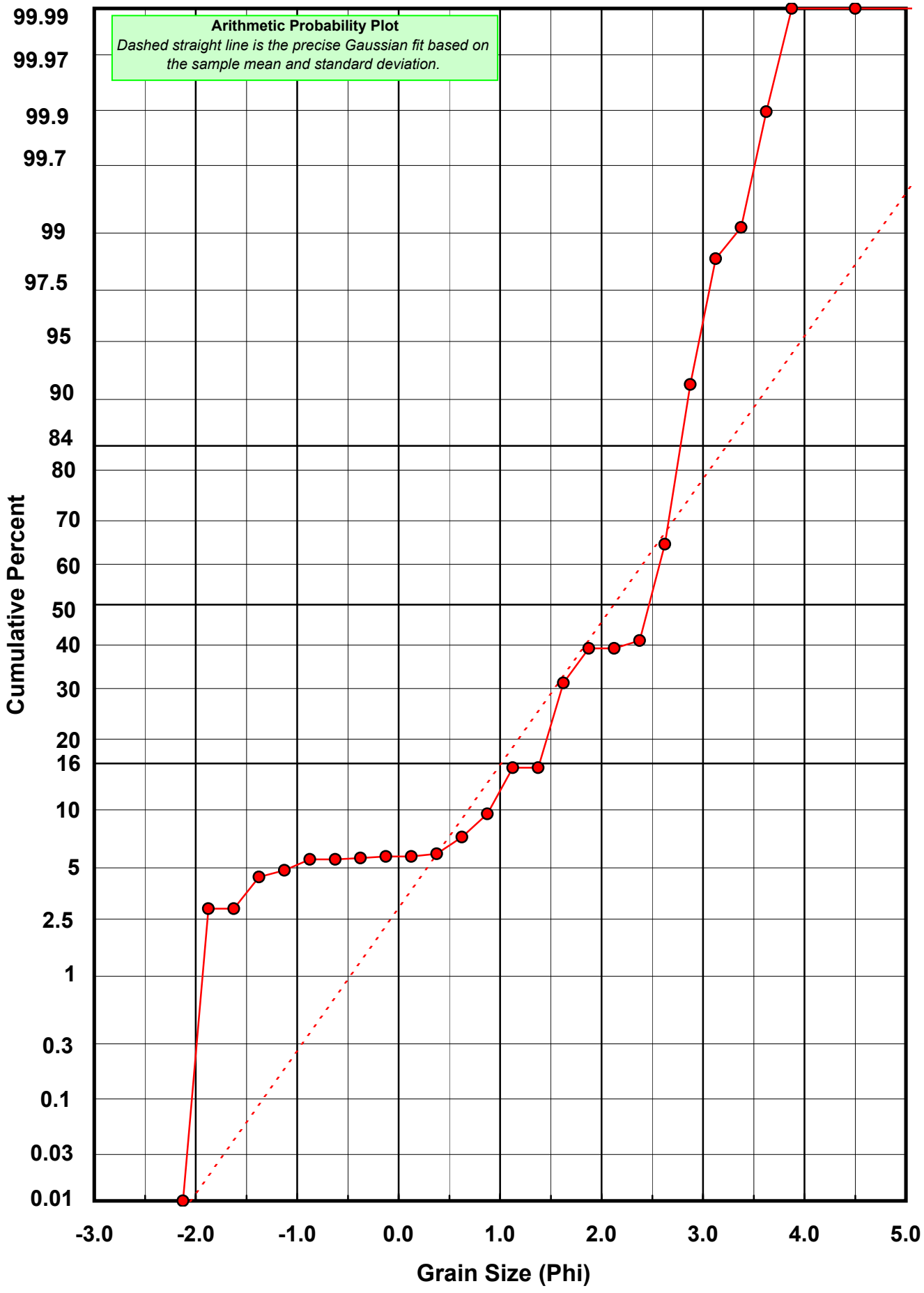
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-01-B

Total Digested Mass: 32.449 grams

% Silica: 97.4 %

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	0.000	0.000	0.000
0.25	0.125	0.006	0.018	0.018
0.50	0.375	0.007	0.022	0.040
0.75	0.625	0.019	0.059	0.099
1.00	0.875	0.215	0.663	0.761
1.25	1.125	0.684	2.108	2.869
1.50	1.375	1.910	5.886	8.755
1.75	1.625	3.600	11.094	19.850
2.00	1.875	5.867	18.081	37.930
2.25	2.125	6.161	18.987	56.917
2.50	2.375	5.939	18.303	75.220
2.75	2.625	5.060	15.594	90.813
3.00	2.875	2.104	6.484	97.297
3.25	3.125	0.533	1.643	98.940
3.50	3.375	0.202	0.623	99.562
3.75	3.625	0.105	0.324	99.886
4.00	3.875	0.037	0.114	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.1526	phi	(0.2249 mm)
Standard Dev:	0.4865	phi-units	(0.7138 mm)
Skewness:	-0.0345	dimensionless	
Kurtosis:	2.9574	dimensionless	
5th Moment:	0.1575	dimensionless	
6th Moment:	15.9282	dimensionless	
RARD *	0.2260	dimensionless	
Median	2.0339	phi	(0.2442 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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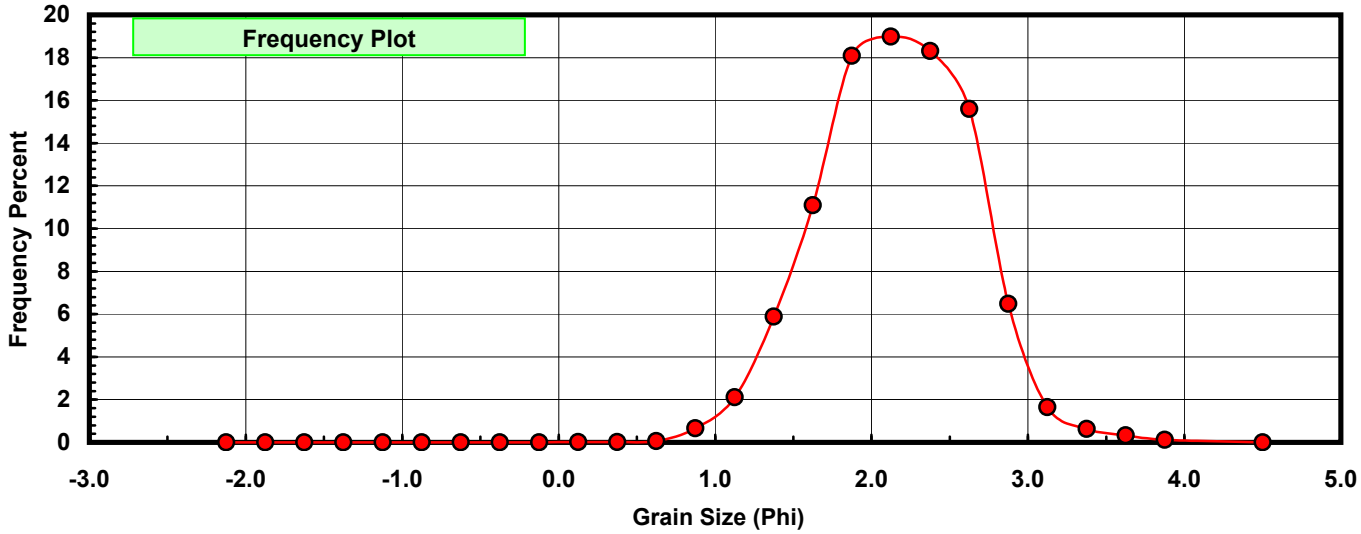

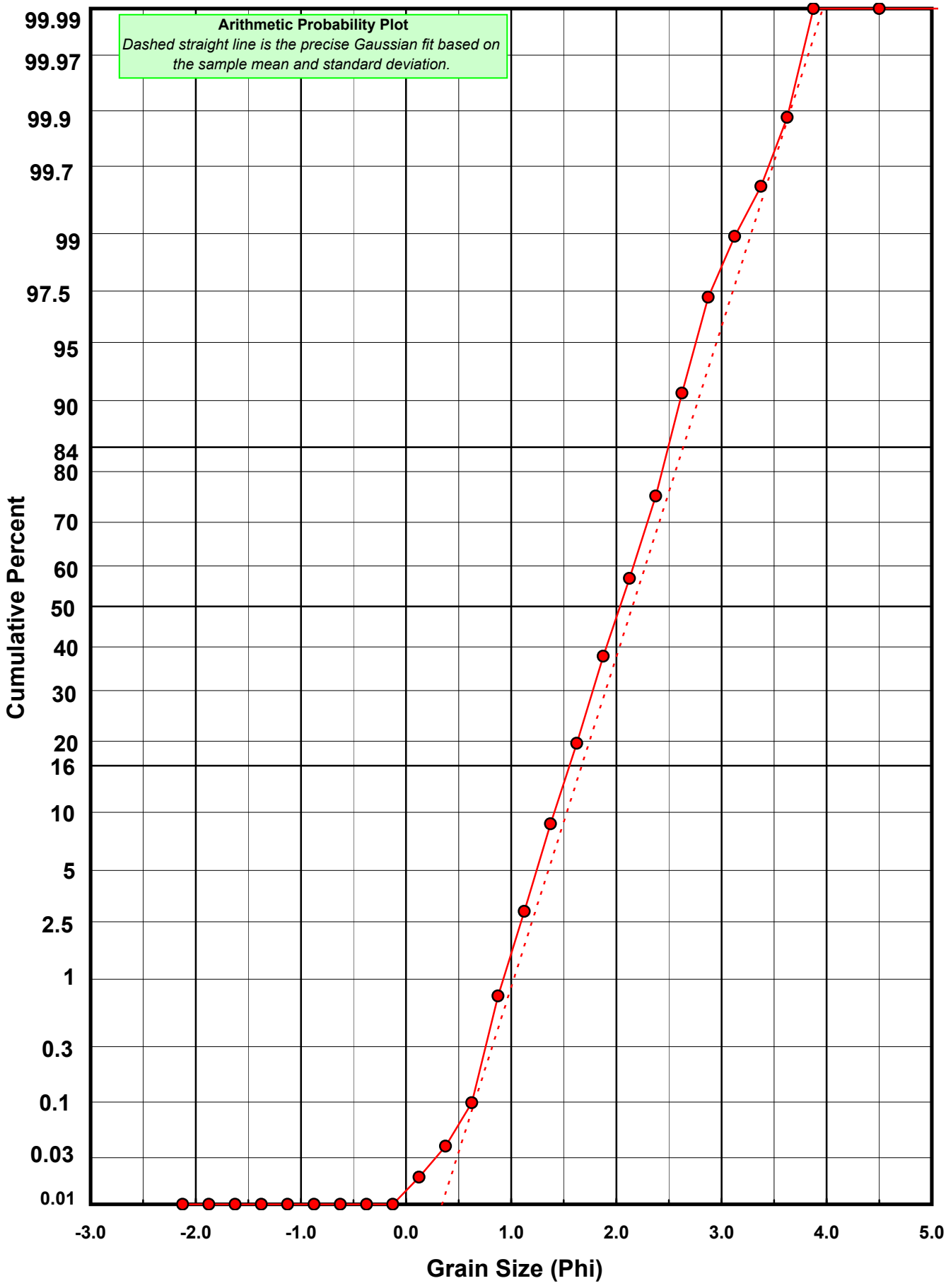
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Grain Size (Phi)