Onshore Grab Sample

Sample: NA-08-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/4/02
Splits? N/A

County: Nassau
Latitude: 30° 36' 33.8"
Longitude: 81° 26' 26.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	49.2146	grams
Total Fines in Sample	0.210	grams
Total Percent Fines	0.42	%

Dry Sieving Summary

Total Sample Weight	48.769	grams
Total Digested Weight	46.977	grams
Total Carbonate Weight	1.792	grams
Total Silica %	96.33	%
Total Carbonate %	3.67	%
Carbonate/Silica Ratio	0.038	

General Comments:

None

Description

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

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: NA-08-SS

Total Sample Mass: 48.769 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	0.000	0.000	0.000
-0.50	-0.625	0.021	0.043	0.043
-0.25	-0.375	0.022	0.045	0.088
0.00	-0.125	0.035	0.072	0.160
0.25	0.125	0.094	0.193	0.353
0.50	0.375	0.162	0.332	0.685
0.75	0.625	0.348	0.714	1.398
1.00	0.875	1.190	2.440	3.839
1.25	1.125	1.122	2.301	6.139
1.50	1.375	1.444	2.961	9.100
1.75	1.625	2.058	4.220	13.320
2.00	1.875	3.981	8.163	21.483
2.25	2.125	6.525	13.379	34.862
2.50	2.375	10.938	22.428	57.290
2.75	2.625	13.515	27.712	85.003
3.00	2.875	5.757	11.805	96.807
3.25	3.125	1.097	2.249	99.057
3.50	3.375	0.287	0.588	99.645
3.75	3.625	0.118	0.242	99.887
4.00	3.875	0.042	0.086	99.973
5.00	4.500	0.013	0.027	100.000

Statistical Results			
Mean:	2.3023	phi	(0.2027 mm)
Standard Dev:	0.5503	phi-units	(0.6829 mm)
Skewness:	-1.2020	dimensionless	
Kurtosis:	5.0882	dimensionless	
5th Moment:	-13.3427	dimensionless	
6th Moment:	54.6055	dimensionless	
RARD *	0.2390	dimensionless	
Median	2.2937	phi	(0.2039 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

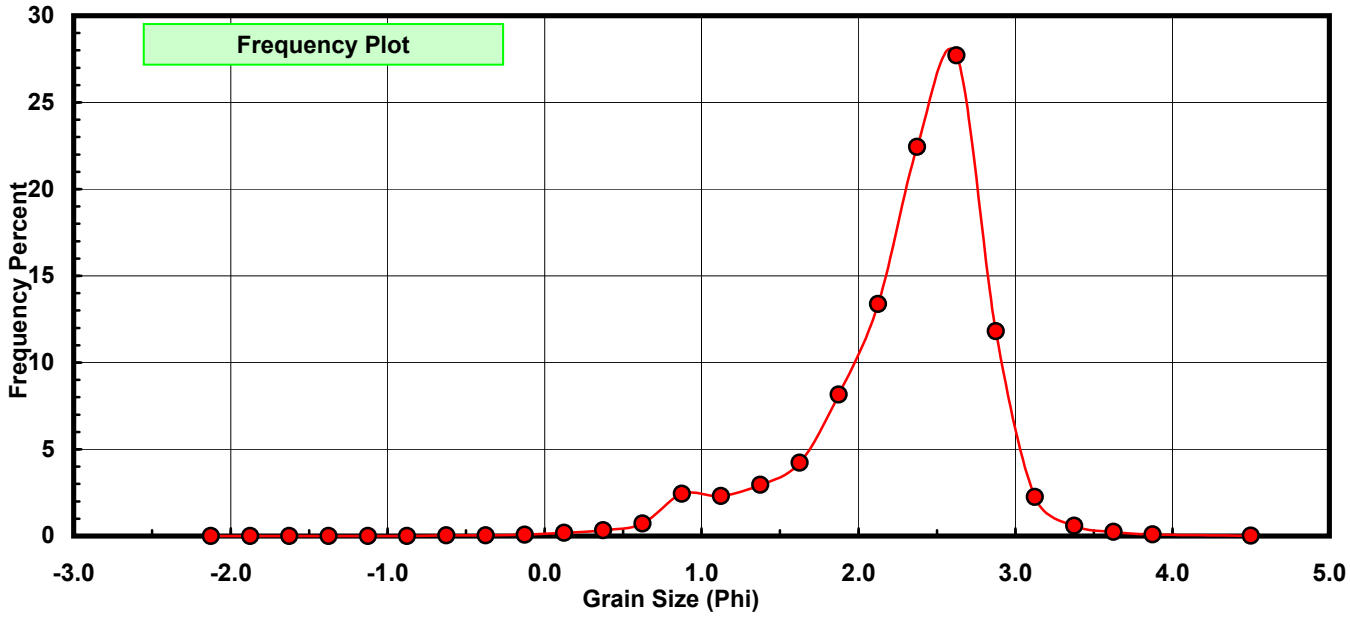
Statistical Explanation

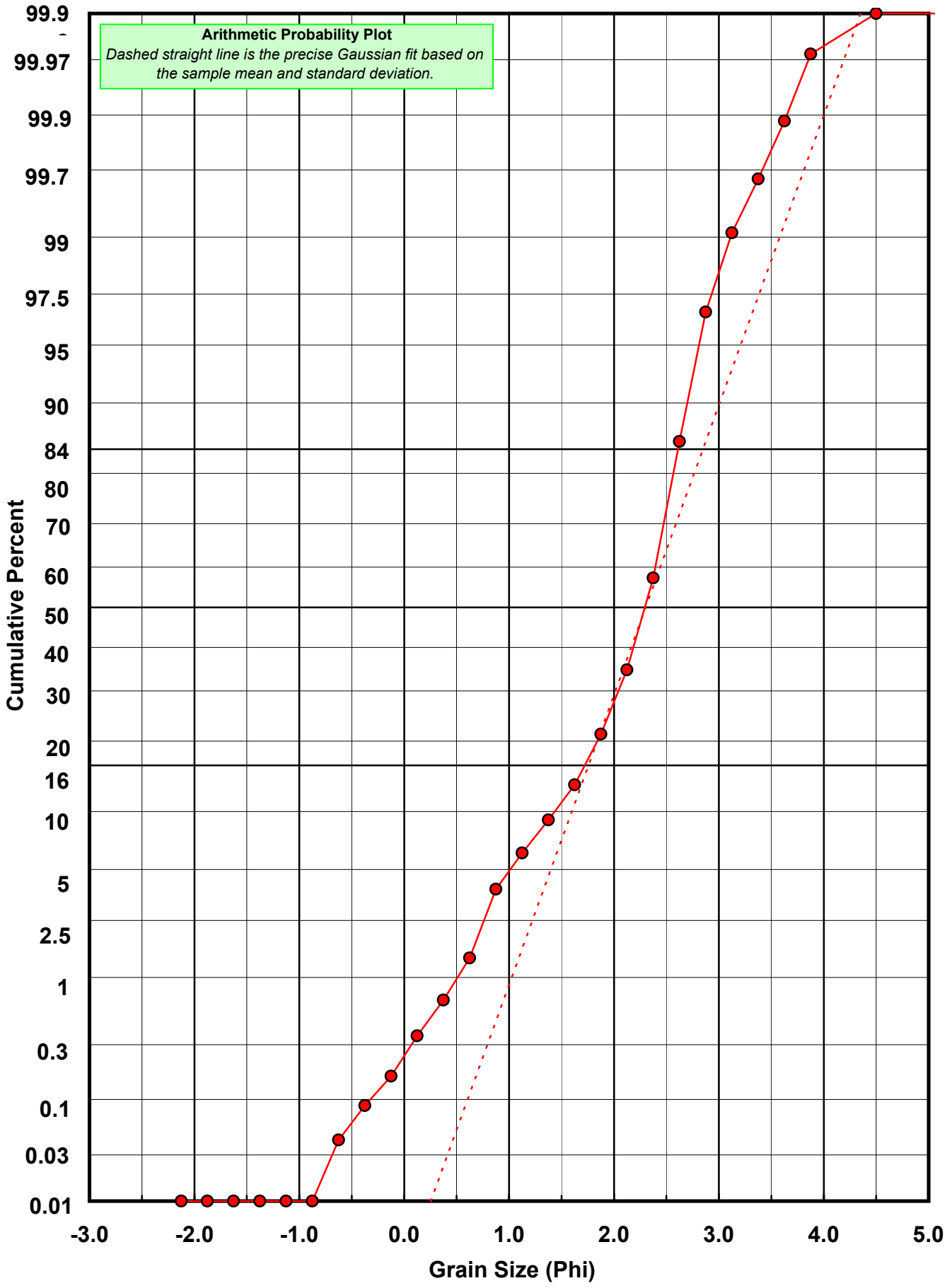
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-08-SS

Total Carbonate Mass: 3.048 grams

% Carbonate: 3.7 %

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	0.021	0.689	0.689
-0.25	-0.375	0.022	0.722	1.411
0.00	-0.125	0.034	1.115	2.526
0.25	0.125	0.074	2.428	4.954
0.50	0.375	0.086	2.822	7.776
0.75	0.625	0.088	2.887	10.663
1.00	0.875	0.200	6.562	17.224
1.25	1.125	0.092	3.018	20.243
1.50	1.375	0.120	3.937	24.180
1.75	1.625	0.029	0.951	25.131
2.00	1.875	0.101	3.314	28.445
2.25	2.125	0.000	0.000	28.445
2.50	2.375	0.000	0.000	28.445
2.75	2.625	1.240	40.682	69.127
3.00	2.875	0.834	27.362	96.490
3.25	3.125	0.075	2.461	98.950
3.50	3.375	0.025	0.820	99.770
3.75	3.625	0.000	0.000	99.770
4.00	3.875	0.007	0.230	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.2144	phi	(0.2155 mm)
Standard Dev:	0.9239	phi-units	(0.5271 mm)
Skewness:	-1.2847	dimensionless	
Kurtosis:	3.3822	dimensionless	
5th Moment:	-7.4175	dimensionless	
6th Moment:	18.8842	dimensionless	
RARD *	0.4172	dimensionless	
Median	2.5075	phi	(0.1759 mm)

* RARD = reciprocal absolute relative dispersion (see below)

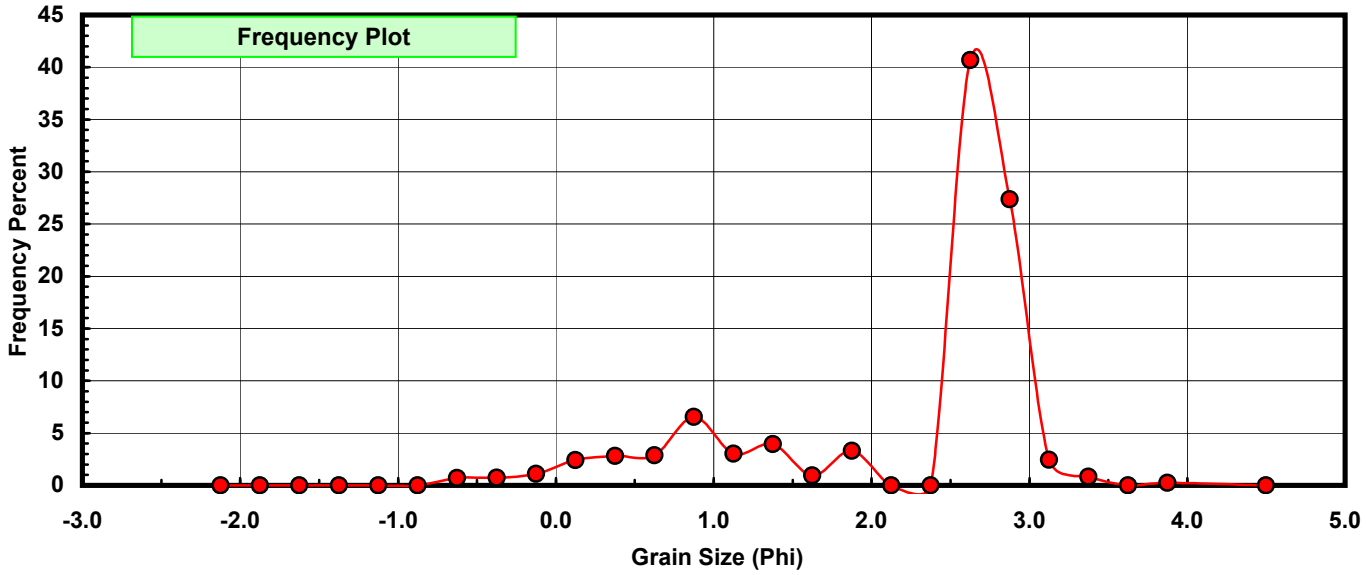
Statistical Explanation

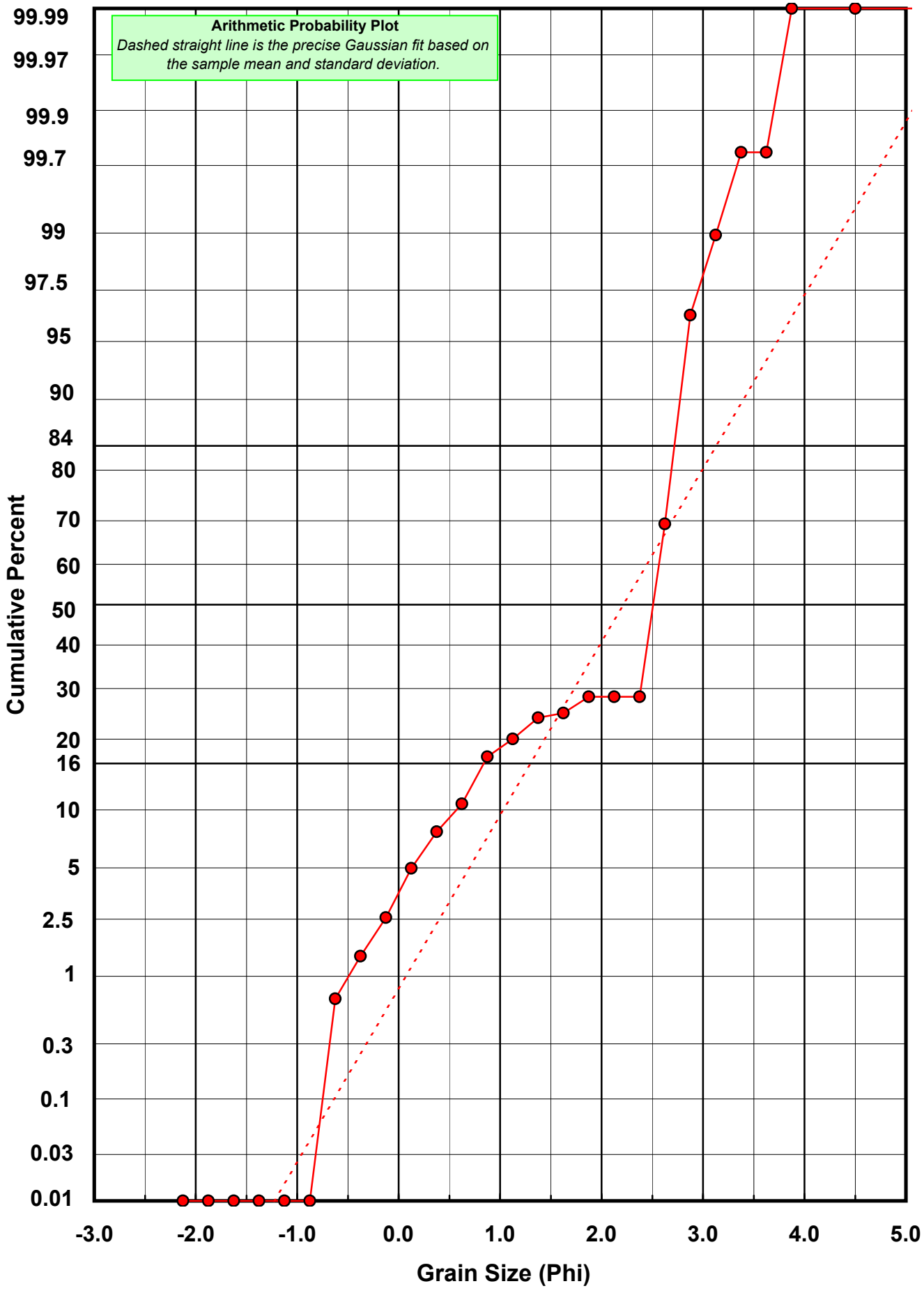
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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
99.99
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-08-SS

Total Digested Mass: 46.969 grams

% Silica: 96.3 %

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	0.001	0.002	0.002
0.25	0.125	0.020	0.043	0.045
0.50	0.375	0.076	0.162	0.207
0.75	0.625	0.260	0.554	0.760
1.00	0.875	0.990	2.108	2.868
1.25	1.125	1.030	2.193	5.061
1.50	1.375	1.324	2.819	7.880
1.75	1.625	2.029	4.320	12.200
2.00	1.875	3.880	8.261	20.460
2.25	2.125	7.071	15.055	35.515
2.50	2.375	11.651	24.806	60.321
2.75	2.625	12.275	26.134	86.455
3.00	2.875	4.923	10.481	96.936
3.25	3.125	1.022	2.176	99.112
3.50	3.375	0.262	0.558	99.670
3.75	3.625	0.120	0.255	99.925
4.00	3.875	0.035	0.075	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.3065	phi	(0.2022 mm)
Standard Dev:	0.5067	phi-units	(0.7038 mm)
Skewness:	-1.0164	dimensionless	
Kurtosis:	4.4155	dimensionless	
5th Moment:	-9.3357	dimensionless	
6th Moment:	34.2220	dimensionless	
RARD *	0.2197	dimensionless	
Median	2.2710	phi	(0.2072 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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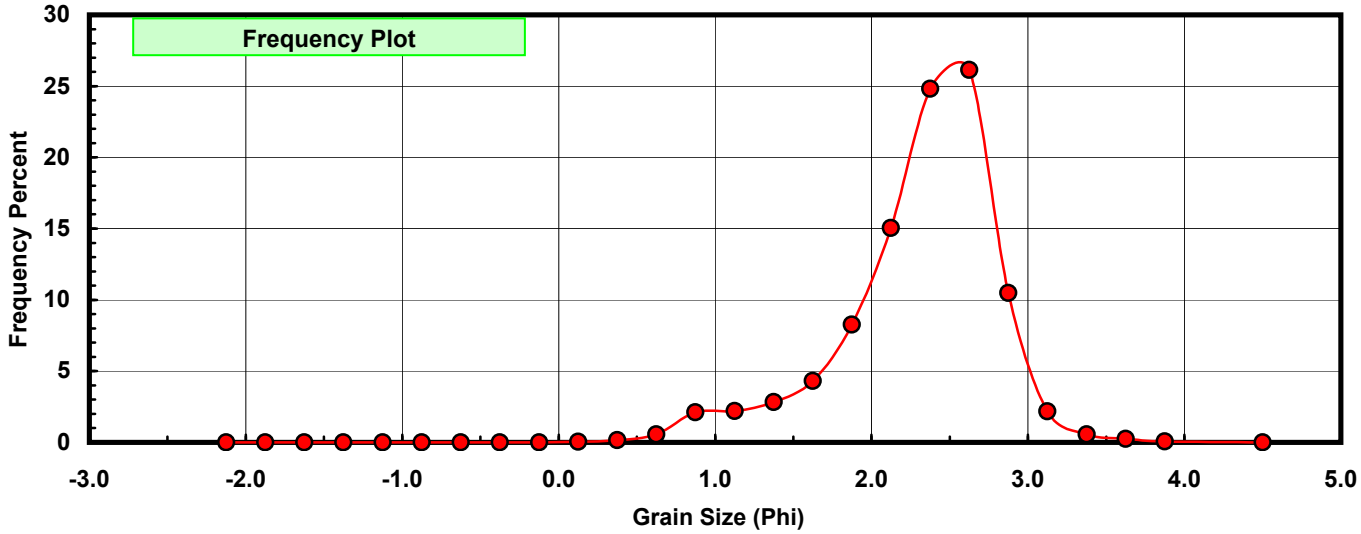

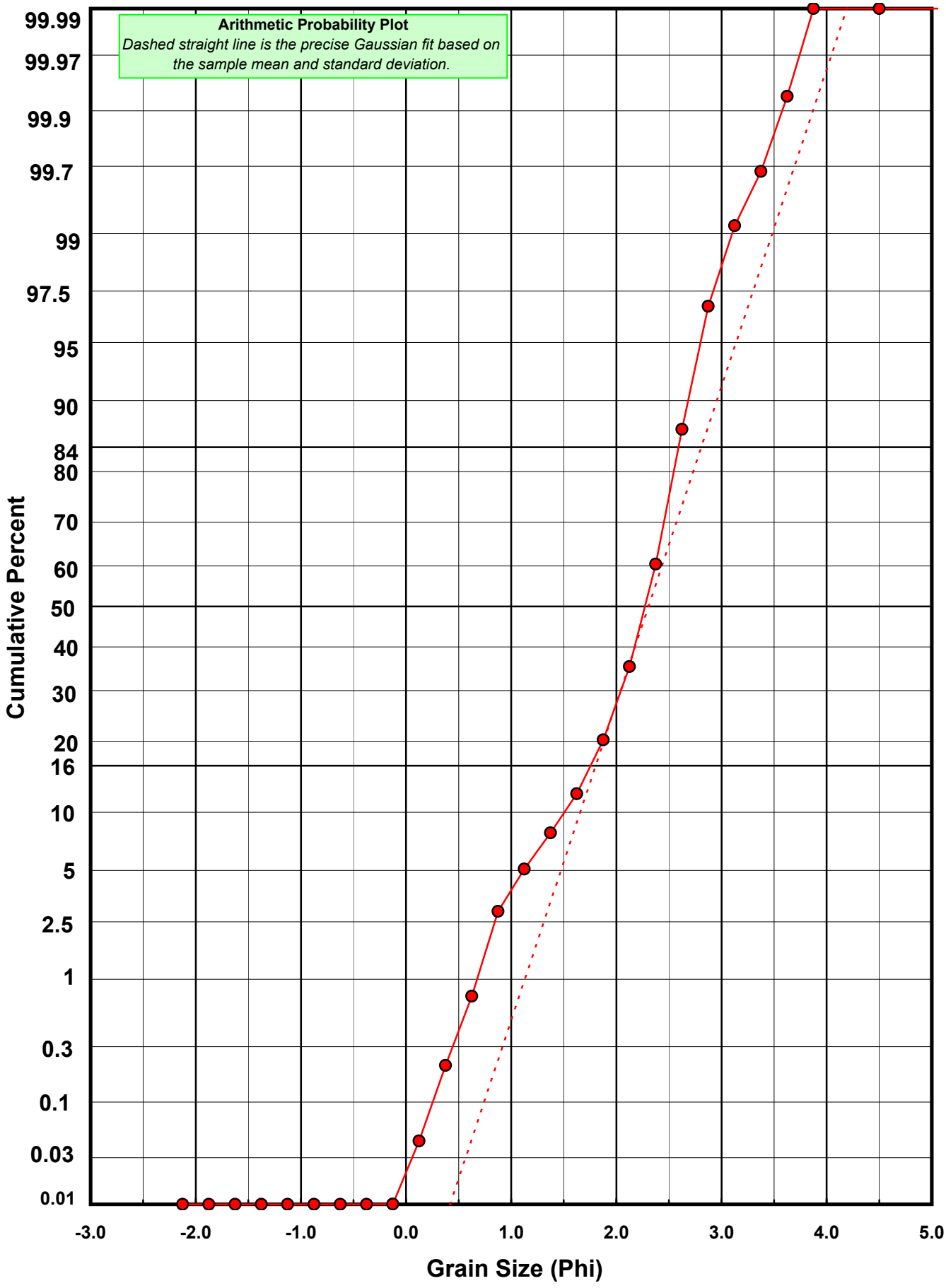
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Grain Size (Phi)