Onshore Grab Sample

Sample: SJ-23-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/3/03
Splits? N/A

County: St. Johns
Latitude: 29° 56' 55.7"
Longitude: 81° 18' 10.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	70.362	grams
Total Fines in Sample	0.222	grams
Total Percent Fines	0.31	%

Dry Sieving Summary

Total Sample Weight	70.070	grams
Total Digested Weight	26.848	grams
Total Carbonate Weight	43.222	grams
Total Silica %	38.32	%
Total Carbonate %	61.68	%
Carbonate/Silica Ratio	1.610	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-23-BB

Total Sample Mass: 70.070 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	2.183	3.115	3.115
-1.75	-1.875	1.866	2.663	5.779
-1.50	-1.625	2.825	4.032	9.810
-1.25	-1.375	3.622	5.169	14.979
-1.00	-1.125	4.504	6.428	21.407
-0.75	-0.875	5.717	8.159	29.566
-0.50	-0.625	6.823	9.737	39.304
-0.25	-0.375	5.383	7.682	46.986
0.00	-0.125	4.199	5.993	52.978
0.25	0.125	3.760	5.366	58.345
0.50	0.375	2.957	4.220	62.565
0.75	0.625	3.733	5.328	67.892
1.00	0.875	5.019	7.163	75.055
1.25	1.125	3.495	4.988	80.043
1.50	1.375	3.172	4.527	84.570
1.75	1.625	2.404	3.431	88.001
2.00	1.875	2.320	3.311	91.312
2.25	2.125	2.150	3.068	94.380
2.50	2.375	2.004	2.860	97.240
2.75	2.625	1.300	1.855	99.095
3.00	2.875	0.447	0.638	99.733
3.25	3.125	0.130	0.186	99.919
3.50	3.375	0.043	0.061	99.980
3.75	3.625	0.008	0.011	99.991
4.00	3.875	0.005	0.007	99.999
5.00	4.500	0.001	0.001	100.000

Statistical Results			
Mean:	0.0699	phi	(0.9527 mm)
Standard Dev:	1.2635	phi-units	(0.4165 mm)
Skewness:	0.2952	dimensionless	
Kurtosis:	2.1806	dimensionless	
5th Moment:	1.4974	dimensionless	
6th Moment:	6.5532	dimensionless	
RARD *	18.0765	dimensionless	
Median	-0.2493	phi	(1.1886 mm)

* RARD = reciprocal absolute relative dispersion (see below)

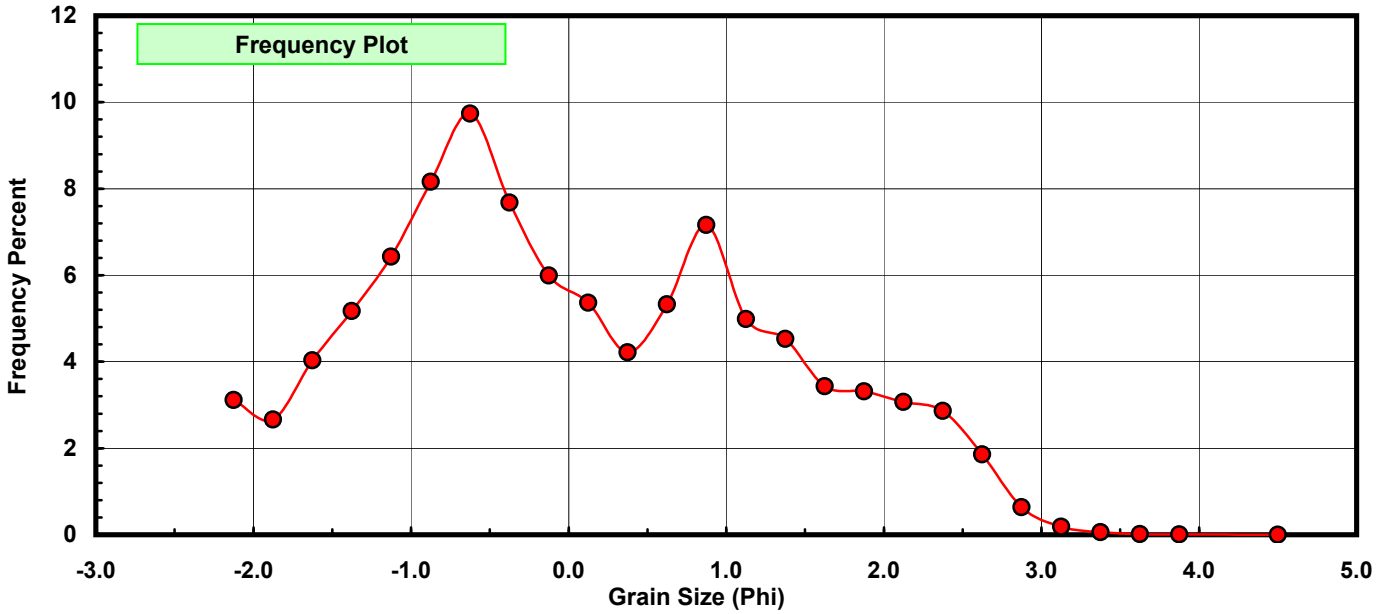
Statistical Explanation

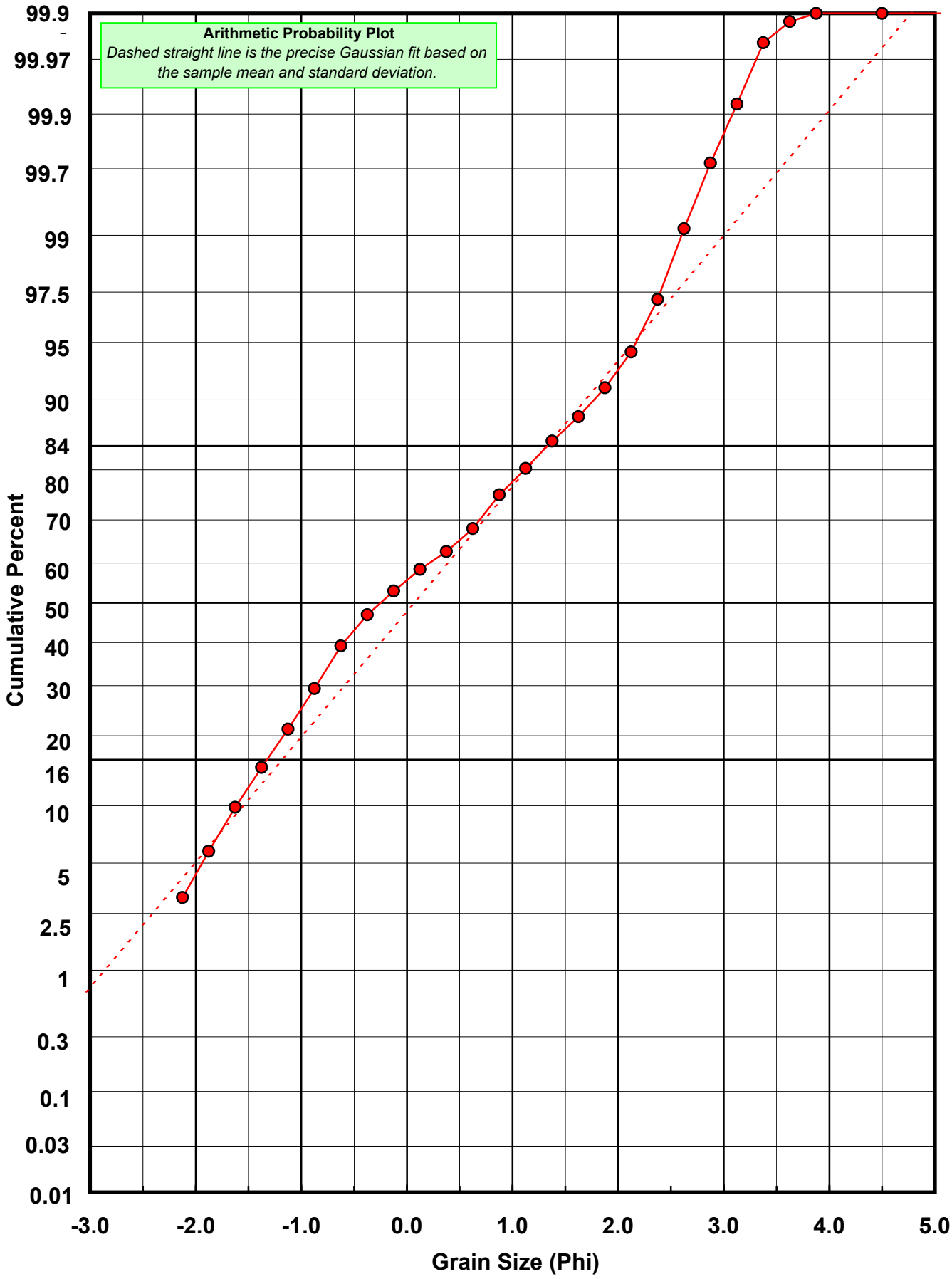
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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
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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: SJ-23-BB

Total Carbonate Mass: 43.229 grams

% Carbonate: 61.7 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	2.183	5.050	5.050
-1.75	-1.875	1.866	4.317	9.366
-1.50	-1.625	2.825	6.535	15.901
-1.25	-1.375	3.622	8.379	24.280
-1.00	-1.125	4.400	10.178	34.458
-0.75	-0.875	5.378	12.441	46.899
-0.50	-0.625	6.020	13.926	60.825
-0.25	-0.375	4.643	10.740	71.565
0.00	-0.125	3.491	8.076	79.641
0.25	0.125	2.657	6.146	85.787
0.50	0.375	1.458	3.373	89.160
0.75	0.625	1.632	3.775	92.935
1.00	0.875	1.347	3.116	96.051
1.25	1.125	0.678	1.568	97.620
1.50	1.375	0.539	1.247	98.867
1.75	1.625	0.066	0.153	99.019
2.00	1.875	0.164	0.379	99.399
2.25	2.125	0.117	0.271	99.669
2.50	2.375	0.096	0.222	99.891
2.75	2.625	0.027	0.062	99.954
3.00	2.875	0.010	0.023	99.977
3.25	3.125	0.000	0.000	99.977
3.50	3.375	0.007	0.016	99.993
3.75	3.625	0.000	0.000	99.993
4.00	3.875	0.003	0.007	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	-0.6407	phi	(1.5591 mm)
Standard Dev:	0.8669	phi-units	(0.5483 mm)
Skewness:	0.5336	dimensionless	
Kurtosis:	3.3203	dimensionless	
5th Moment:	5.5716	dimensionless	
6th Moment:	22.1333	dimensionless	
RARD *	1.3530	dimensionless	
Median	-0.8193	phi	(1.7646 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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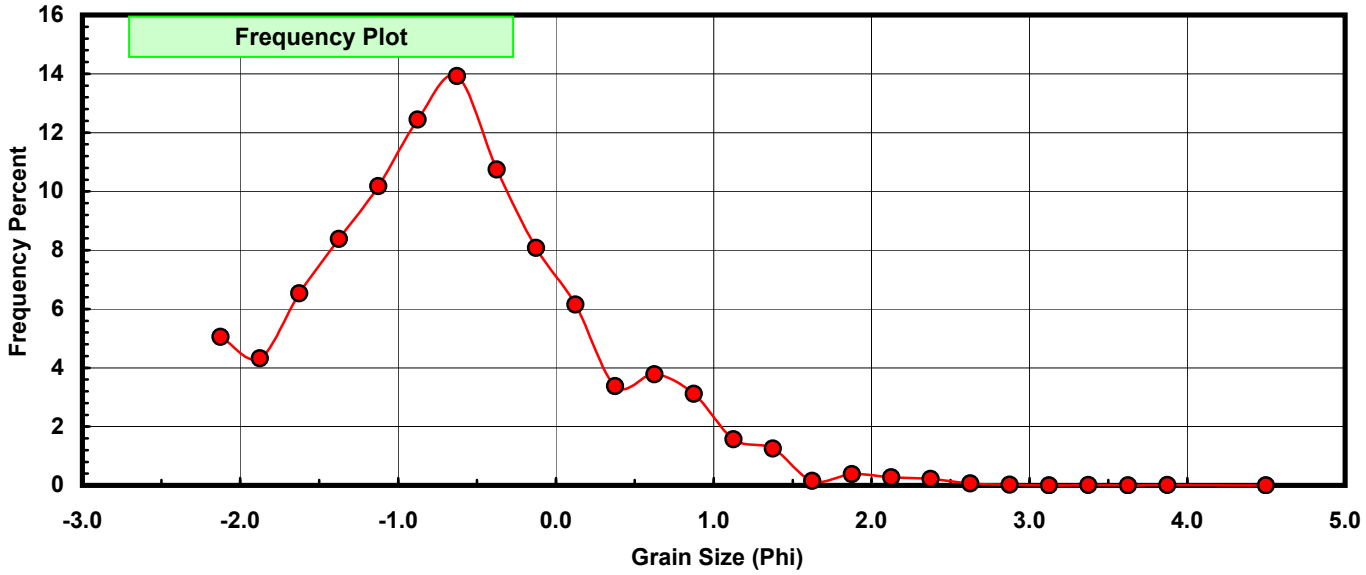

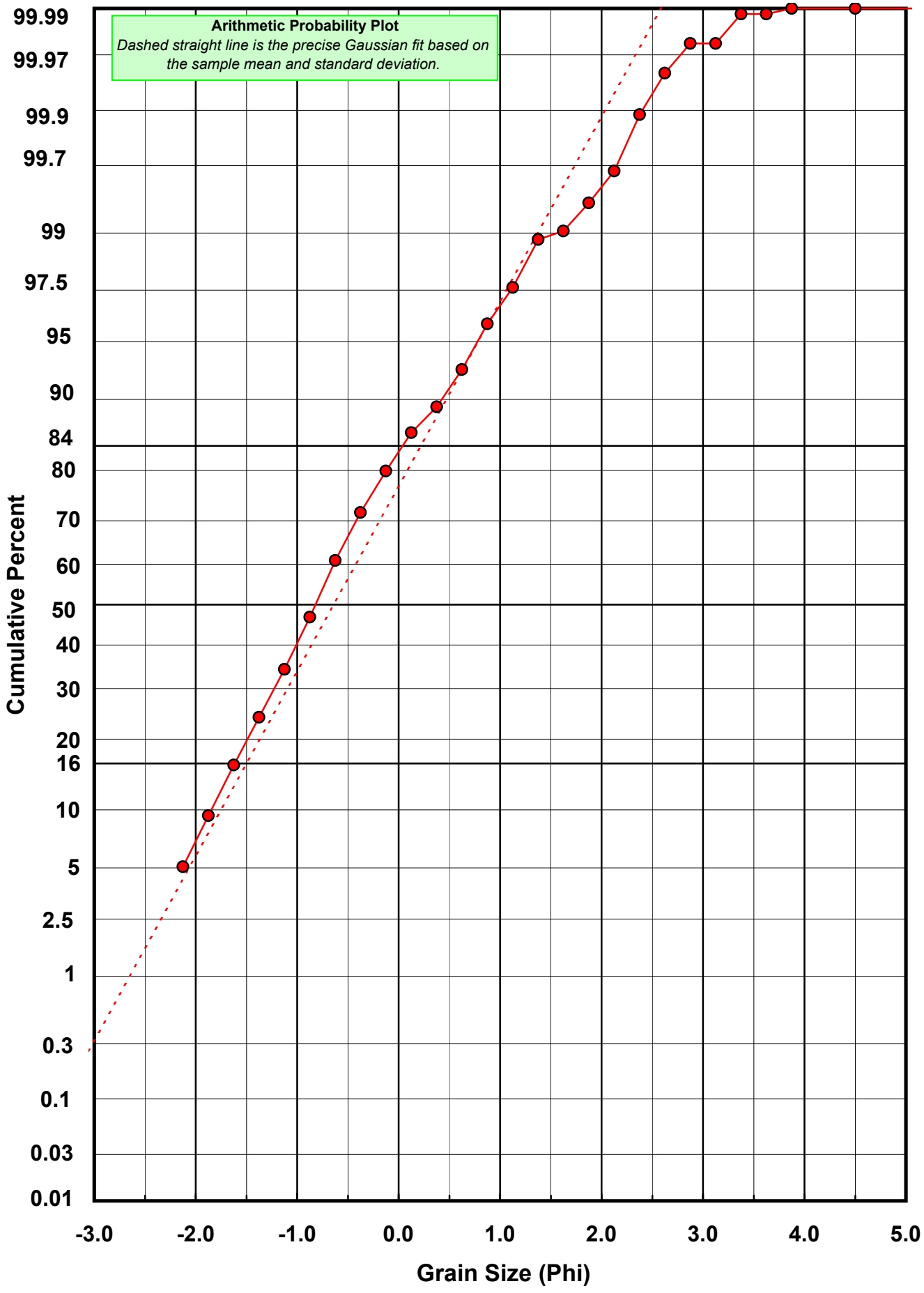
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
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2.5
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0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-23-BB

Total Digested Mass: 26.847 grams

% Silica: 38.3 %

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	0.104	0.387	0.387
-0.75	-0.875	0.339	1.263	1.650
-0.50	-0.625	0.803	2.991	4.641
-0.25	-0.375	0.740	2.756	7.397
0.00	-0.125	0.708	2.637	10.035
0.25	0.125	1.103	4.108	14.143
0.50	0.375	1.499	5.583	19.727
0.75	0.625	2.101	7.826	27.552
1.00	0.875	3.672	13.678	41.230
1.25	1.125	2.817	10.493	51.723
1.50	1.375	2.633	9.807	61.530
1.75	1.625	2.338	8.709	70.239
2.00	1.875	2.156	8.031	78.269
2.25	2.125	2.033	7.573	85.842
2.50	2.375	1.908	7.107	92.949
2.75	2.625	1.273	4.742	97.691
3.00	2.875	0.437	1.628	99.318
3.25	3.125	0.134	0.499	99.817
3.50	3.375	0.036	0.134	99.952
3.75	3.625	0.011	0.041	99.993
4.00	3.875	0.002	0.007	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.2148	phi	(0.4308 mm)
Standard Dev:	0.9137	phi-units	(0.5308 mm)
Skewness:	-0.2349	dimensionless	
Kurtosis:	2.5047	dimensionless	
5th Moment:	-1.6001	dimensionless	
6th Moment:	8.8533	dimensionless	
RARD *	0.7521	dimensionless	
Median	1.0840	phi	(0.4717 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)

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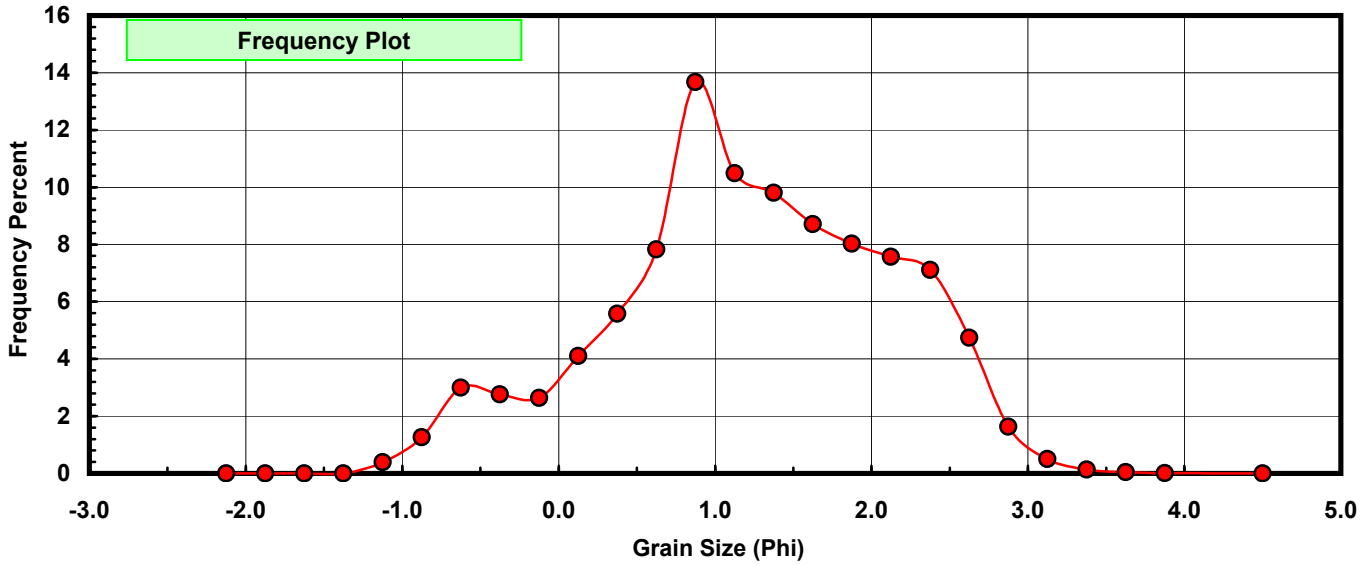

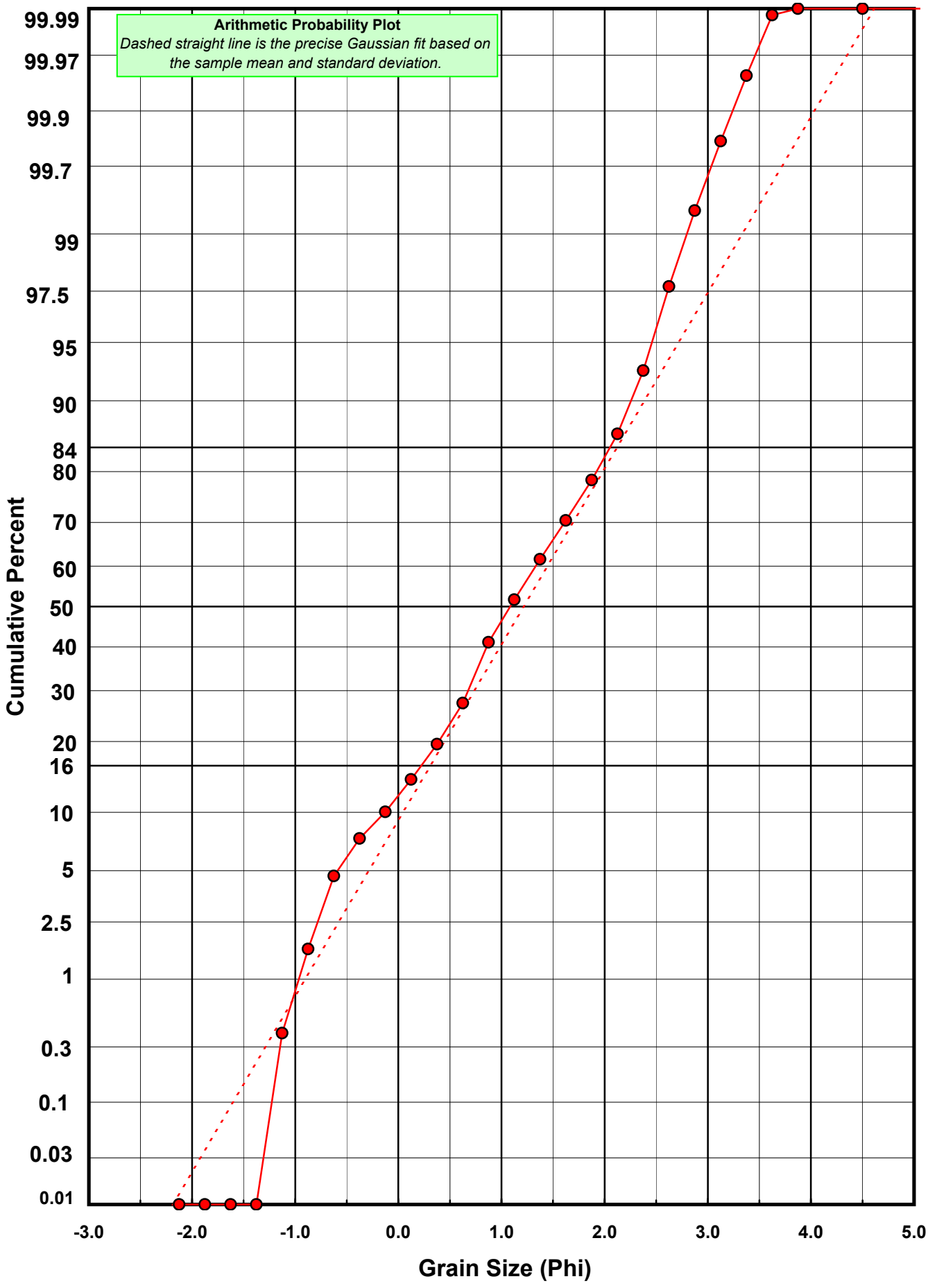
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Grain Size (Phi)