Onshore Grab Sample

Sample: SJ-17-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/2/03
Splits? N/A

County: St. Johns
Latitude: 30° 01' 54.9"
Longitude: 81° 19' 30.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	71.837	grams
Total Fines in Sample	0.149	grams
Total Percent Fines	0.21	%

Dry Sieving Summary

Total Sample Weight	71.759	grams
Total Digested Weight	20.568	grams
Total Carbonate Weight	51.191	grams
Total Silica %	28.66	%
Total Carbonate %	71.34	%
Carbonate/Silica Ratio	2.489	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-17-BB

Total Sample Mass: 71.759 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	5.579	7.775	7.775
-1.75	-1.875	3.613	5.035	12.810
-1.50	-1.625	4.266	5.945	18.754
-1.25	-1.375	4.401	6.133	24.887
-1.00	-1.125	4.937	6.880	31.767
-0.75	-0.875	5.473	7.627	39.394
-0.50	-0.625	6.105	8.508	47.902
-0.25	-0.375	5.262	7.333	55.235
0.00	-0.125	4.282	5.967	61.202
0.25	0.125	3.854	5.371	66.573
0.50	0.375	3.313	4.617	71.190
0.75	0.625	3.196	4.454	75.643
1.00	0.875	4.685	6.529	82.172
1.25	1.125	2.562	3.570	85.743
1.50	1.375	2.171	3.025	88.768
1.75	1.625	1.951	2.719	91.487
2.00	1.875	1.891	2.635	94.122
2.25	2.125	1.751	2.440	96.562
2.50	2.375	1.476	2.057	98.619
2.75	2.625	0.742	1.034	99.653
3.00	2.875	0.185	0.258	99.911
3.25	3.125	0.045	0.063	99.974
3.50	3.375	0.014	0.020	99.993
3.75	3.625	0.003	0.004	99.997
4.00	3.875	0.001	0.001	99.999
5.00	4.500	0.001	0.001	100.000

Statistical Results			
Mean:	-0.2503	phi	(1.1895 mm)
Standard Dev:	1.2730	phi-units	(0.4138 mm)
Skewness:	0.4007	dimensionless	
Kurtosis:	2.2664	dimensionless	
5th Moment:	2.2196	dimensionless	
6th Moment:	7.2750	dimensionless	
RARD *	5.0855	dimensionless	
Median	-0.5535	phi	(1.4676 mm)

* RARD = reciprocal absolute relative dispersion (see below)

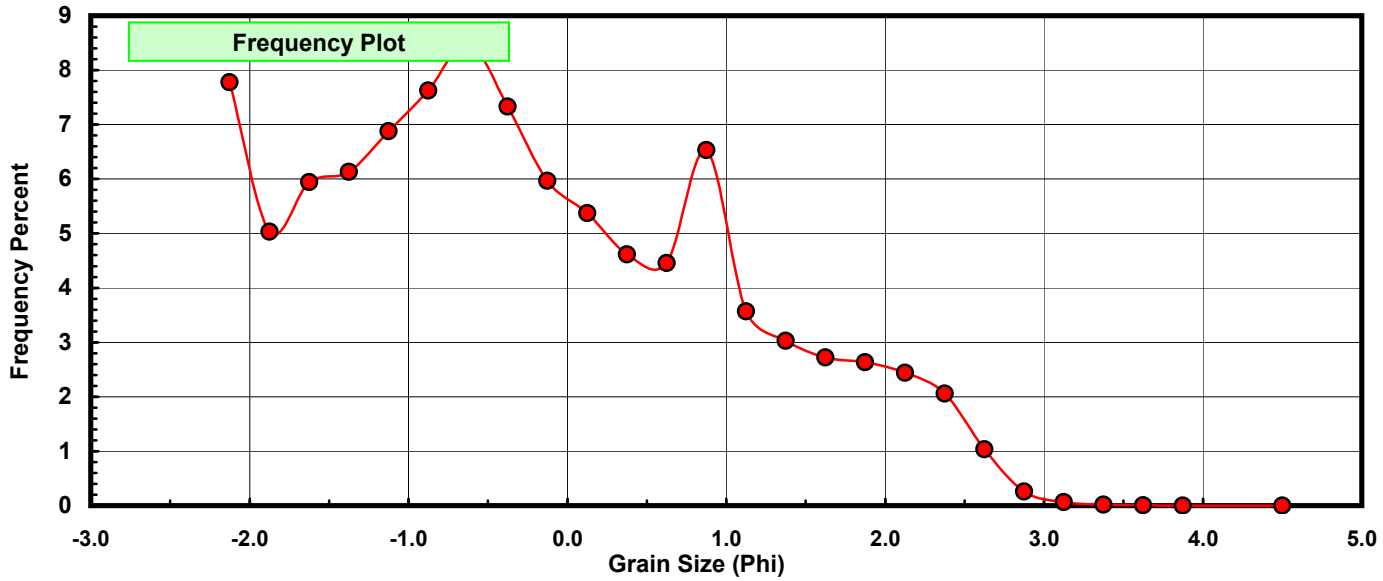
Statistical Explanation

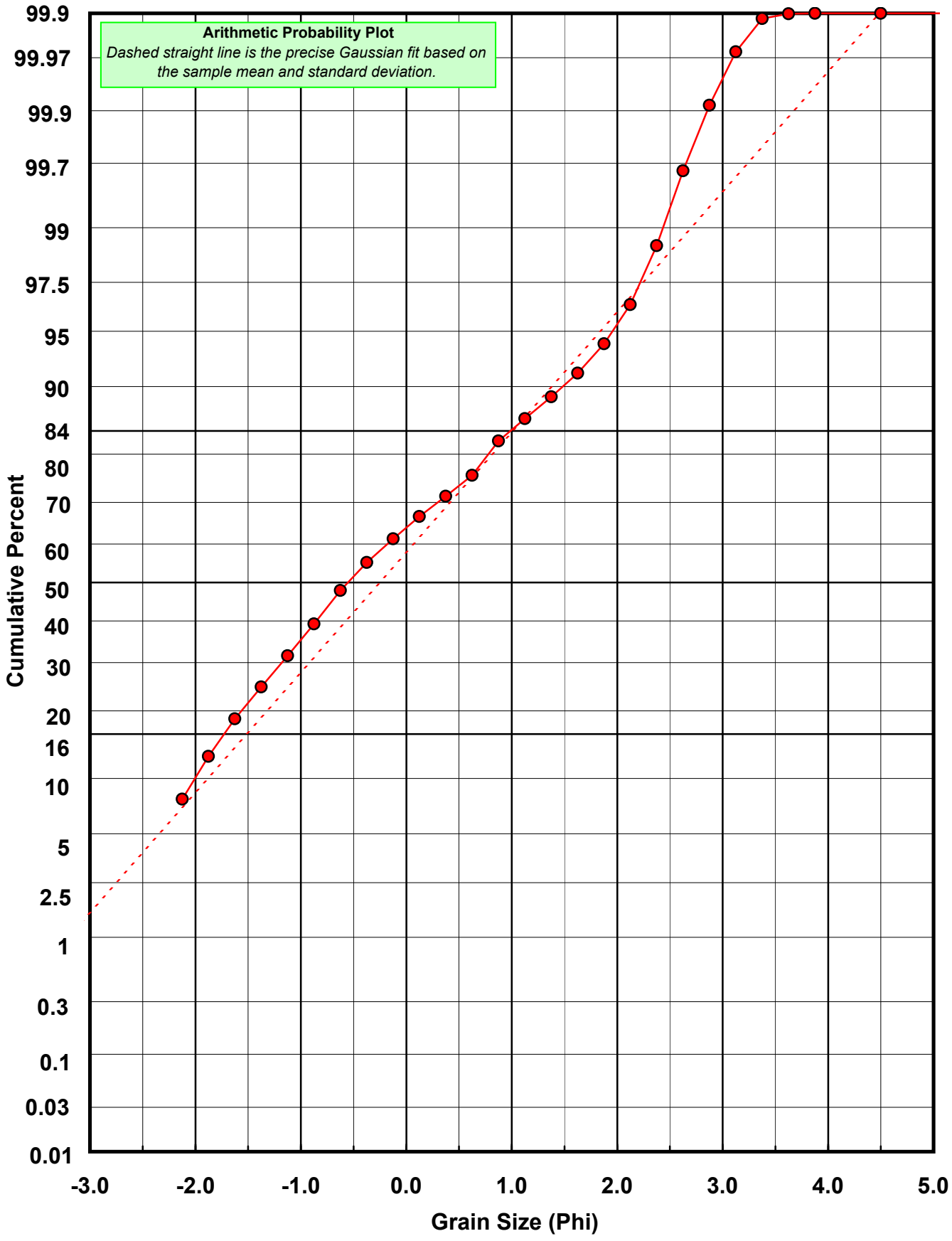
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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: SJ-17-BB

Total Carbonate Mass: 51.194 grams

% Carbonate: 71.3 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	5.579	10.898	10.898
-1.75	-1.875	3.613	7.057	17.955
-1.50	-1.625	4.266	8.333	26.288
-1.25	-1.375	4.330	8.458	34.746
-1.00	-1.125	4.937	9.644	44.390
-0.75	-0.875	5.166	10.091	54.481
-0.50	-0.625	5.657	11.050	65.531
-0.25	-0.375	4.666	9.114	74.645
0.00	-0.125	3.517	6.870	81.515
0.25	0.125	2.838	5.544	87.059
0.50	0.375	1.935	3.780	90.839
0.75	0.625	1.412	2.758	93.597
1.00	0.875	1.986	3.879	97.476
1.25	1.125	0.378	0.738	98.215
1.50	1.375	0.392	0.766	98.980
1.75	1.625	0.338	0.660	99.641
2.00	1.875	0.009	0.018	99.658
2.25	2.125	0.068	0.133	99.791
2.50	2.375	0.066	0.129	99.920
2.75	2.625	0.029	0.057	99.977
3.00	2.875	0.003	0.006	99.982
3.25	3.125	0.005	0.010	99.992
3.50	3.375	0.004	0.008	100.000
3.75	3.625	0.000	0.000	100.000
4.00	3.875	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	-0.8139	phi	(1.758 mm)
Standard Dev:	0.9157	phi-units	(0.5301 mm)
Skewness:	0.4832	dimensionless	
Kurtosis:	2.7875	dimensionless	
5th Moment:	4.2755	dimensionless	
6th Moment:	15.1457	dimensionless	
RARD *	1.1250	dimensionless	
Median	-0.9860	phi	(1.9807 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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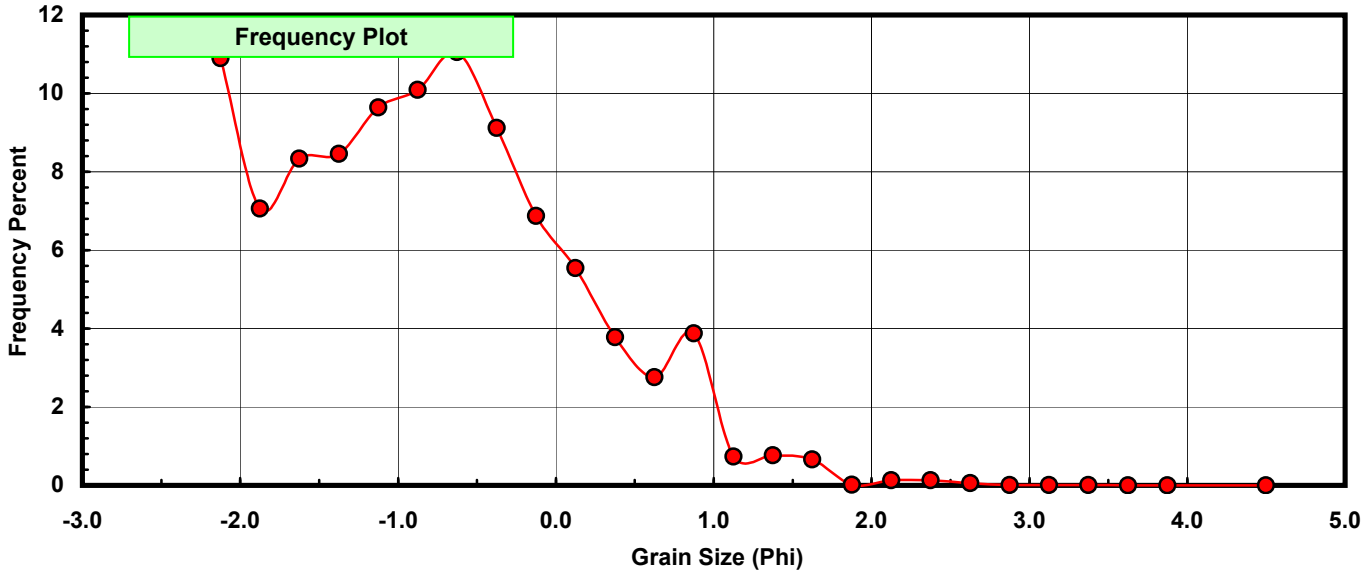

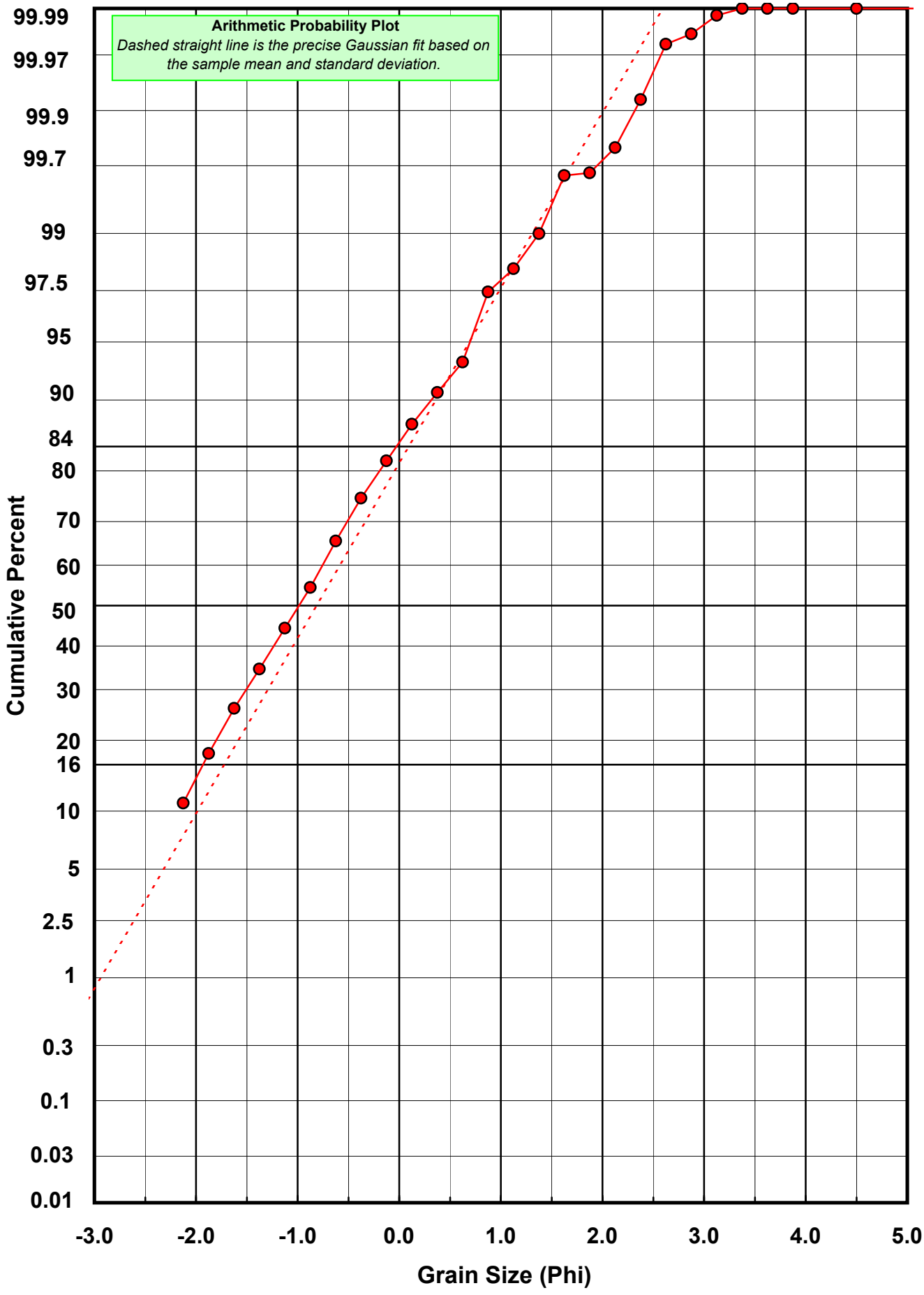
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
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60
50
40
30
20
16
10
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2.5
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: SJ-17-BB

Total Digested Mass: 20.565 grams

% Silica: 28.7 %

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	0.071	0.345	0.345
-1.00	-1.125	0.000	0.000	0.345
-0.75	-0.875	0.307	1.493	1.838
-0.50	-0.625	0.448	2.178	4.017
-0.25	-0.375	0.596	2.898	6.915
0.00	-0.125	0.765	3.720	10.635
0.25	0.125	1.016	4.940	15.575
0.50	0.375	1.378	6.701	22.276
0.75	0.625	1.784	8.675	30.951
1.00	0.875	2.699	13.124	44.075
1.25	1.125	2.184	10.620	54.695
1.50	1.375	1.779	8.651	63.345
1.75	1.625	1.613	7.843	71.189
2.00	1.875	1.882	9.151	80.340
2.25	2.125	1.683	8.184	88.524
2.50	2.375	1.410	6.856	95.381
2.75	2.625	0.713	3.467	98.848
3.00	2.875	0.182	0.885	99.733
3.25	3.125	0.040	0.195	99.927
3.50	3.375	0.010	0.049	99.976
3.75	3.625	0.004	0.019	99.995
4.00	3.875	0.001	0.005	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.1527	phi	(0.4498 mm)
Standard Dev:	0.8996	phi-units	(0.536 mm)
Skewness:	-0.2310	dimensionless	
Kurtosis:	2.4107	dimensionless	
5th Moment:	-1.6774	dimensionless	
6th Moment:	8.6533	dimensionless	
RARD *	0.7804	dimensionless	
Median	1.0145	phi	(0.495 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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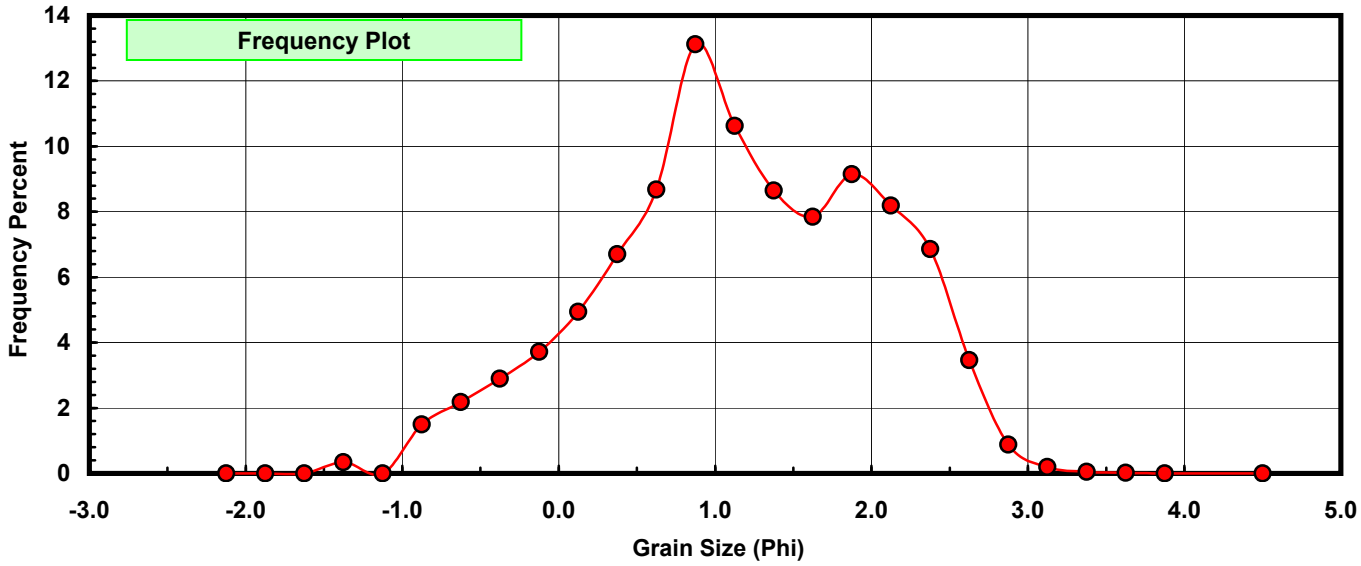

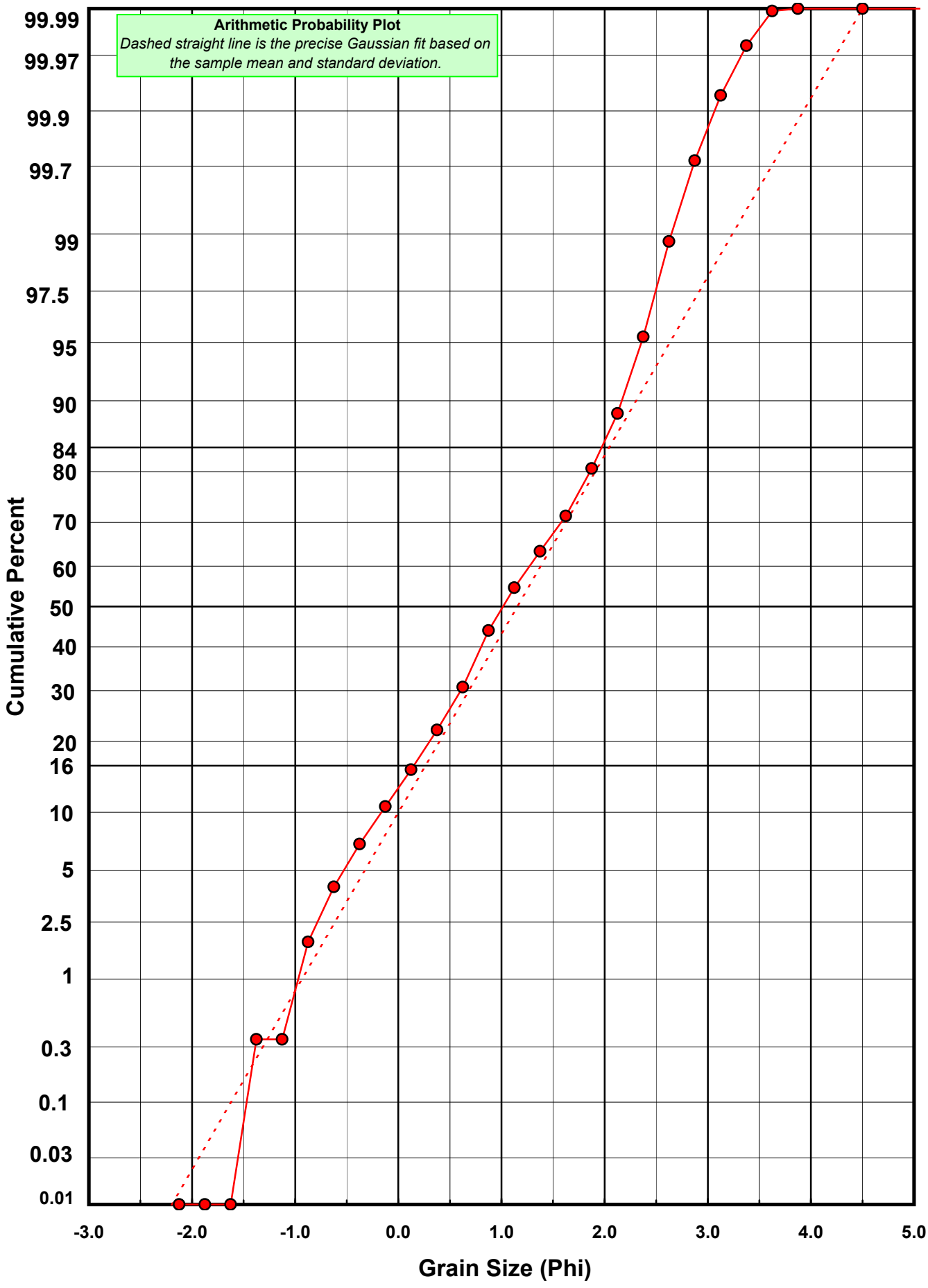
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Grain Size (Phi)