Onshore Grab Sample

Sample: SJ-31-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 50' 5.6"
Longitude: 81° 15' 51.9"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	48.594	grams
Total Fines in Sample	0.134	grams
Total Percent Fines	0.27	%

Dry Sieving Summary

Total Sample Weight	48.319	grams
Total Digested Weight	46.873	grams
Total Carbonate Weight	1.446	grams
Total Silica %	97.01	%
Total Carbonate %	2.99	%
Carbonate/Silica Ratio	0.031	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-31-BB

Total Sample Mass: 48.319 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	0.000	0.000	0.000
-0.25	-0.375	0.007	0.014	0.014
0.00	-0.125	0.006	0.012	0.027
0.25	0.125	0.016	0.033	0.060
0.50	0.375	0.033	0.068	0.128
0.75	0.625	0.053	0.110	0.238
1.00	0.875	0.132	0.273	0.511
1.25	1.125	0.044	0.091	0.602
1.50	1.375	0.383	0.793	1.395
1.75	1.625	0.804	1.664	3.059
2.00	1.875	2.229	4.613	7.672
2.25	2.125	4.985	10.317	17.989
2.50	2.375	10.801	22.354	40.342
2.75	2.625	15.681	32.453	72.795
3.00	2.875	8.832	18.279	91.074
3.25	3.125	2.914	6.031	97.105
3.50	3.375	0.941	1.947	99.052
3.75	3.625	0.337	0.697	99.750
4.00	3.875	0.086	0.178	99.928
5.00	4.500	0.035	0.072	100.000

Statistical Results			
Mean:	2.5459	phi	(0.1712 mm)
Standard Dev:	0.4052	phi-units	(0.7551 mm)
Skewness:	-0.6357	dimensionless	
Kurtosis:	6.3129	dimensionless	
5th Moment:	-15.2643	dimensionless	
6th Moment:	115.4447	dimensionless	
RARD *	0.1592	dimensionless	
Median	2.4494	phi	(0.1831 mm)

* RARD = reciprocal absolute relative dispersion (see below)

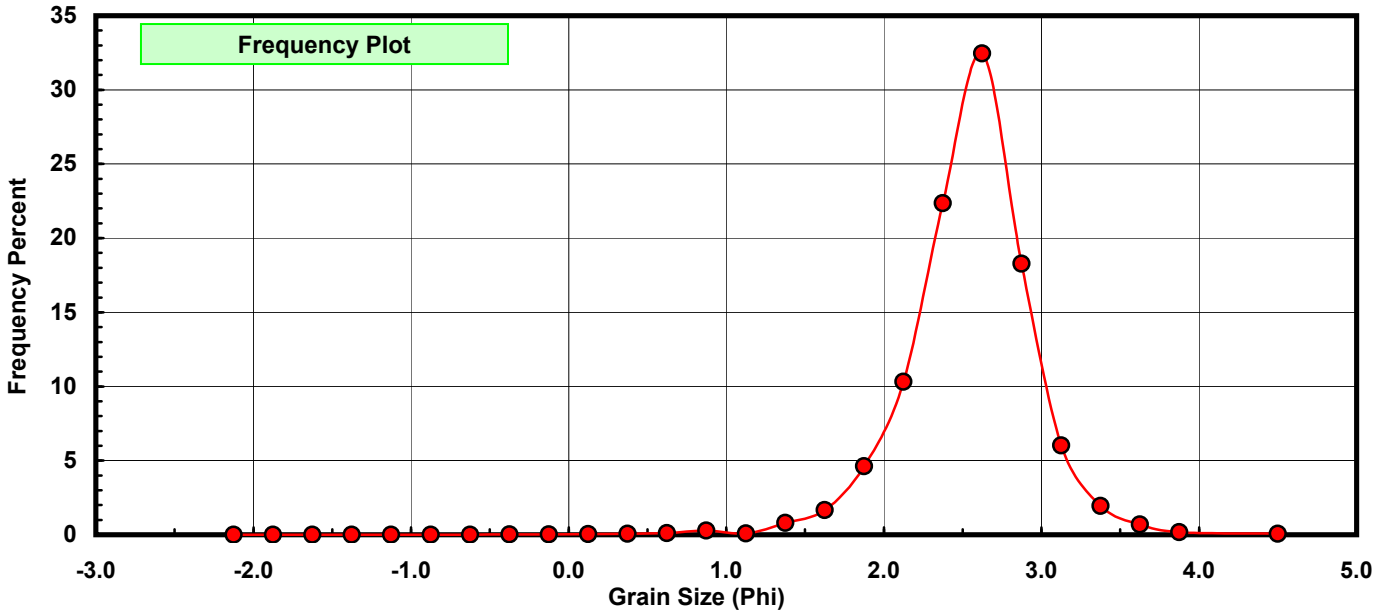
Statistical Explanation

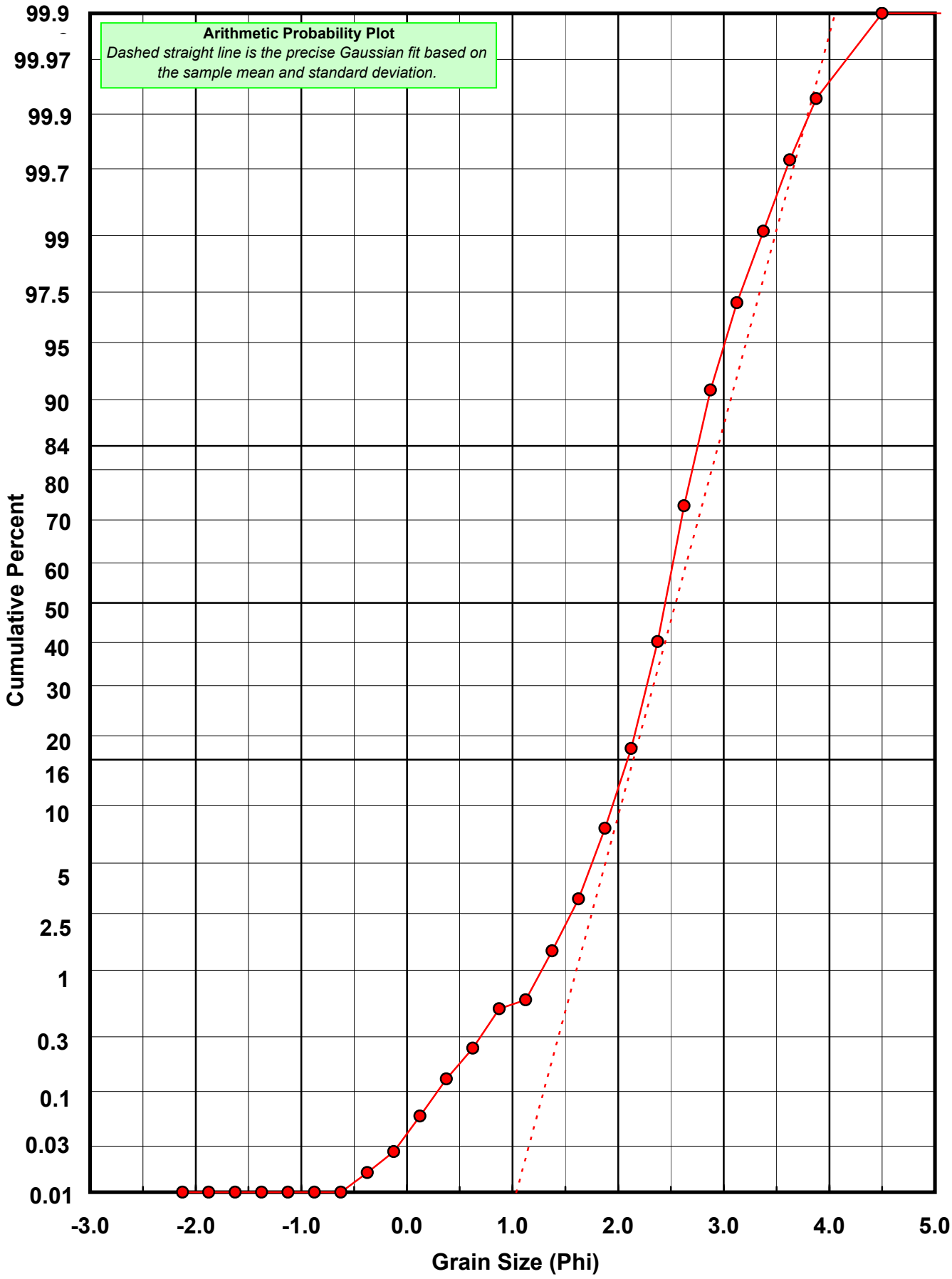
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-31-BB

Total Carbonate Mass: 2.531 grams

% Carbonate: 3.0 %

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	0.007	0.277	0.277
0.00	-0.125	0.006	0.237	0.514
0.25	0.125	0.014	0.553	1.067
0.50	0.375	0.019	0.751	1.817
0.75	0.625	0.029	1.146	2.963
1.00	0.875	0.082	3.240	6.203
1.25	1.125	0.006	0.237	6.440
1.50	1.375	0.134	5.294	11.734
1.75	1.625	0.119	4.702	16.436
2.00	1.875	0.049	1.936	18.372
2.25	2.125	0.331	13.078	31.450
2.50	2.375	0.275	10.865	42.315
2.75	2.625	1.460	57.685	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	100.000
3.50	3.375	0.000	0.000	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:	2.2760	phi	(0.2065 mm)
Standard Dev:	0.5693	phi-units	(0.6739 mm)
Skewness:	-1.9728	dimensionless	
Kurtosis:	6.6488	dimensionless	
5th Moment:	-22.5198	dimensionless	
6th Moment:	83.1796	dimensionless	
RARD *	0.2501	dimensionless	
Median	2.4083	phi	(0.1884 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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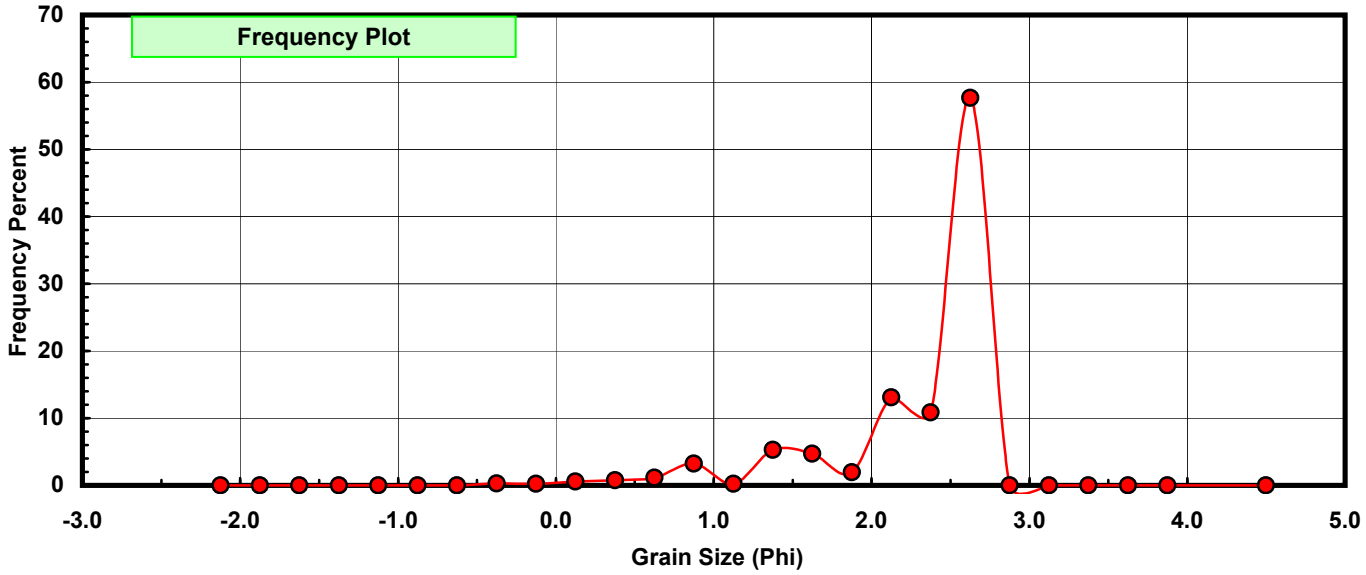

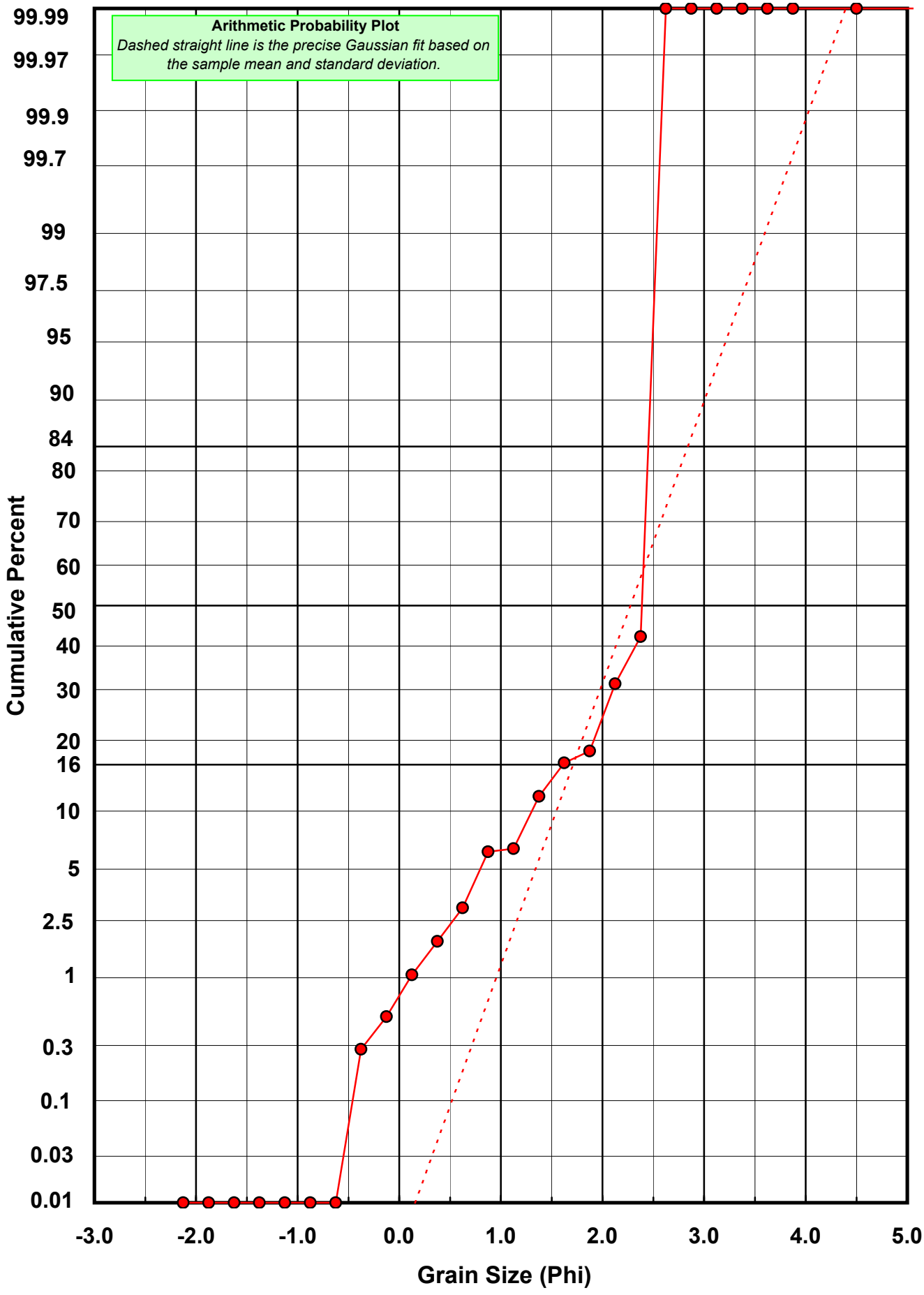
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-31-BB

Total Digested Mass: 46.838 grams

% Silica: 97.0 %

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	0.002	0.004	0.004
0.50	0.375	0.014	0.030	0.034
0.75	0.625	0.024	0.051	0.085
1.00	0.875	0.050	0.107	0.192
1.25	1.125	0.038	0.081	0.273
1.50	1.375	0.249	0.532	0.805
1.75	1.625	0.685	1.462	2.267
2.00	1.875	2.180	4.654	6.922
2.25	2.125	4.654	9.936	16.858
2.50	2.375	10.526	22.473	39.331
2.75	2.625	14.221	30.362	69.693
3.00	2.875	9.395	20.058	89.752
3.25	3.125	3.222	6.879	96.631
3.50	3.375	1.111	2.372	99.003
3.75	3.625	0.370	0.790	99.793
4.00	3.875	0.097	0.207	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.5709	phi	(0.1683 mm)
Standard Dev:	0.3892	phi-units	(0.7636 mm)
Skewness:	-0.3347	dimensionless	
Kurtosis:	4.4473	dimensionless	
5th Moment:	-6.4918	dimensionless	
6th Moment:	48.5348	dimensionless	
RARD *	0.1514	dimensionless	
Median	2.4628	phi	(0.1814 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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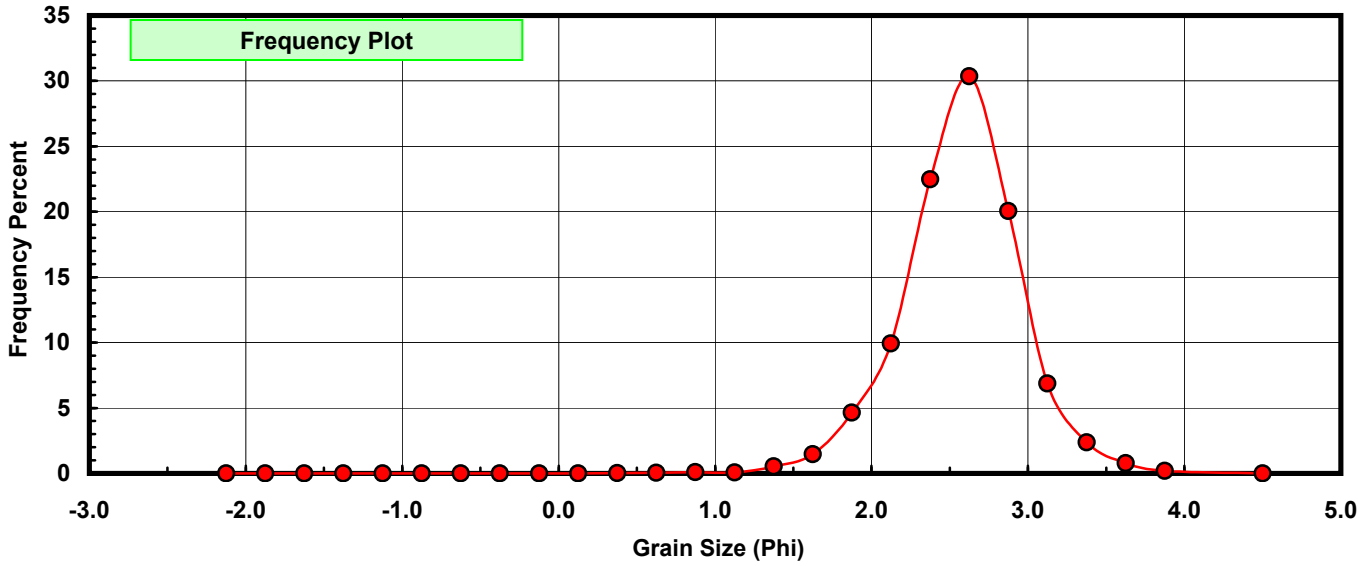

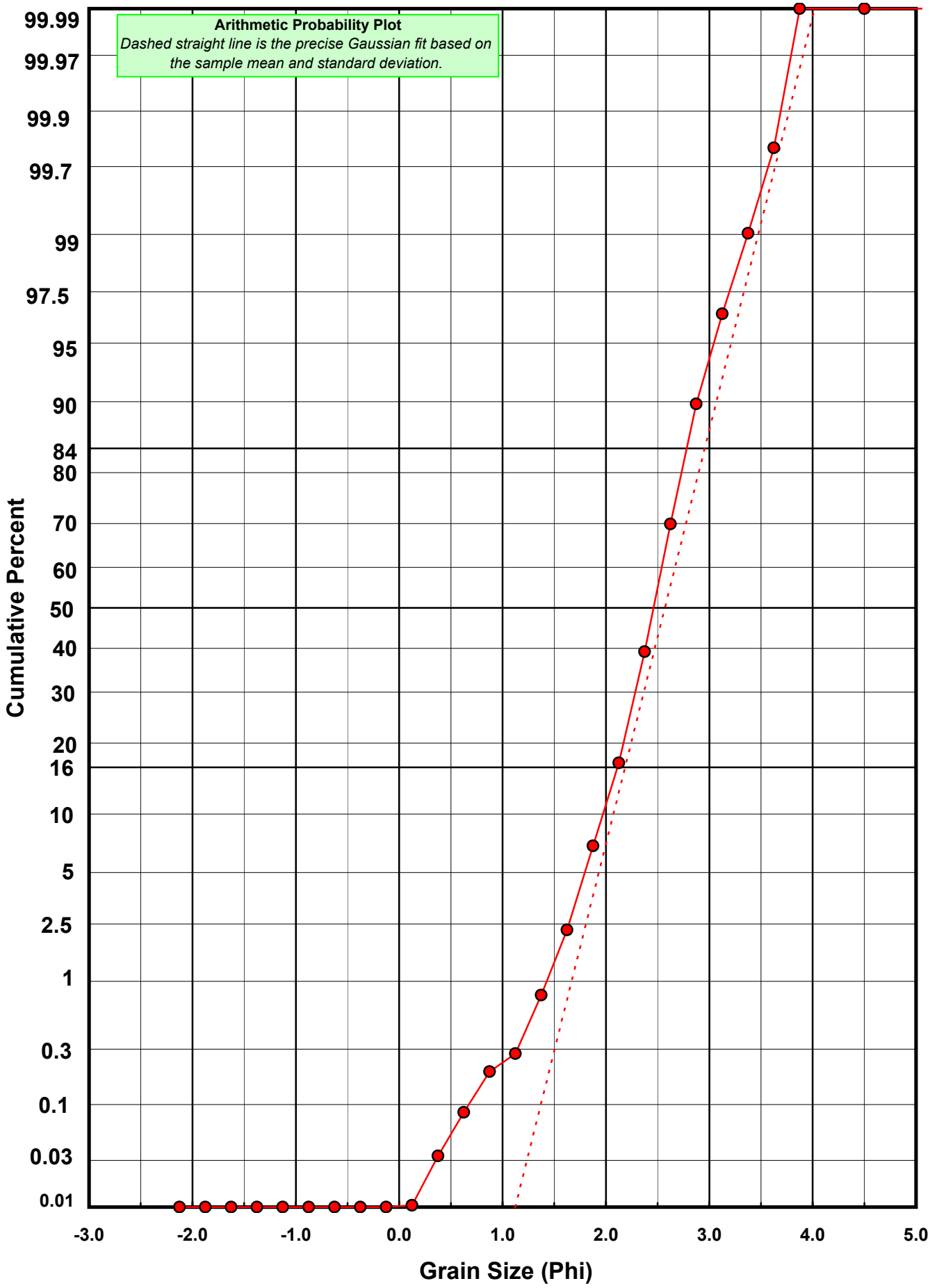
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-2.0
-1.0
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3.0
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Grain Size (Phi)