Onshore Grab Sample

Sample: SJ-34-SS
Sample Taken By: J. Ladner
Sample Collected On: 12/1/03
Splits? N/A

County: St. Johns
Latitude: 29° 47' 35.9"
Longitude: 81° 15' 28.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	59.13	grams
Total Fines in Sample	0.603	grams
Total Percent Fines	1.01	%

Dry Sieving Summary

Total Sample Weight	58.471	grams
Total Digested Weight	58.036	grams
Total Carbonate Weight	0.435	grams
Total Silica %	99.26	%
Total Carbonate %	0.74	%
Carbonate/Silica Ratio	0.007	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-34-SS

Total Sample Mass: 58.471 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	0.002	0.003	0.003
-0.25	-0.375	0.002	0.003	0.007
0.00	-0.125	0.000	0.000	0.007
0.25	0.125	0.007	0.012	0.019
0.50	0.375	0.011	0.019	0.038
0.75	0.625	0.012	0.021	0.058
1.00	0.875	0.007	0.012	0.070
1.25	1.125	0.006	0.010	0.080
1.50	1.375	0.019	0.032	0.113
1.75	1.625	0.032	0.055	0.168
2.00	1.875	0.449	0.768	0.936
2.25	2.125	2.864	4.898	5.834
2.50	2.375	10.940	18.710	24.544
2.75	2.625	20.735	35.462	60.006
3.00	2.875	16.117	27.564	87.570
3.25	3.125	5.930	10.142	97.712
3.50	3.375	1.075	1.839	99.550
3.75	3.625	0.177	0.303	99.853
4.00	3.875	0.077	0.132	99.985
5.00	4.500	0.009	0.015	100.000

Statistical Results			
Mean:	2.6837	phi	(0.1556 mm)
Standard Dev:	0.2996	phi-units	(0.8125 mm)
Skewness:	-0.2492	dimensionless	
Kurtosis:	6.2736	dimensionless	
5th Moment:	-22.6652	dimensionless	
6th Moment:	248.6171	dimensionless	
RARD *	0.1116	dimensionless	
Median	2.5545	phi	(0.1702 mm)

* RARD = reciprocal absolute relative dispersion (see below)

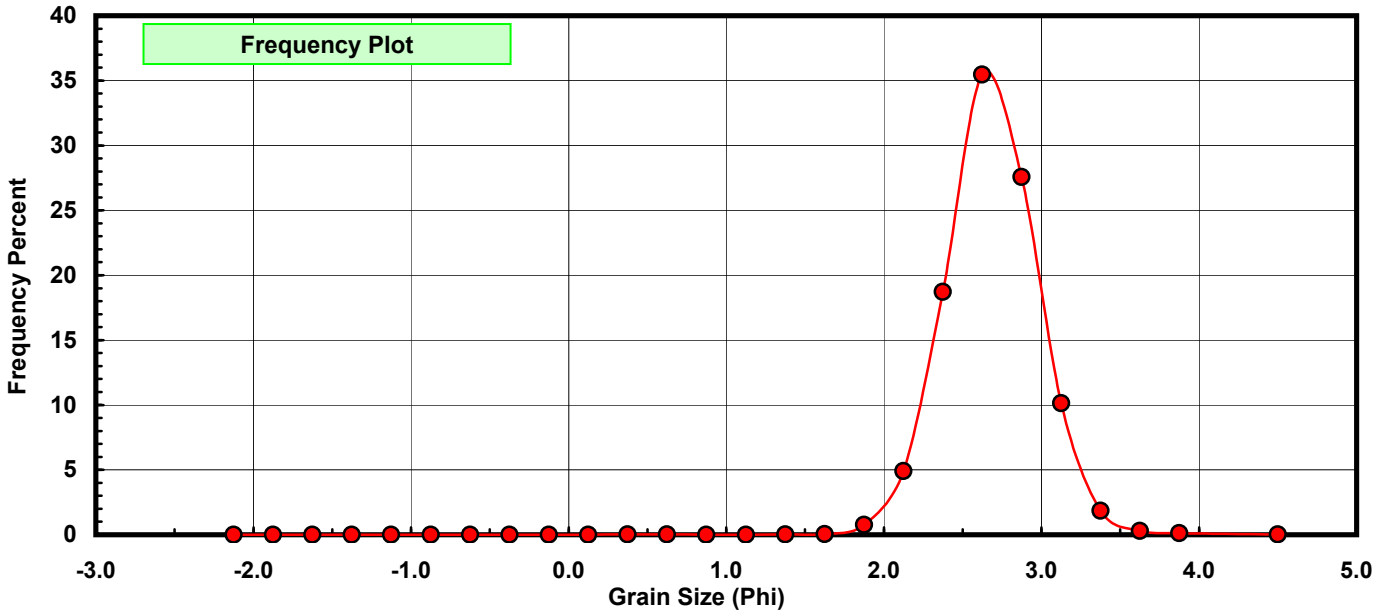
Statistical Explanation

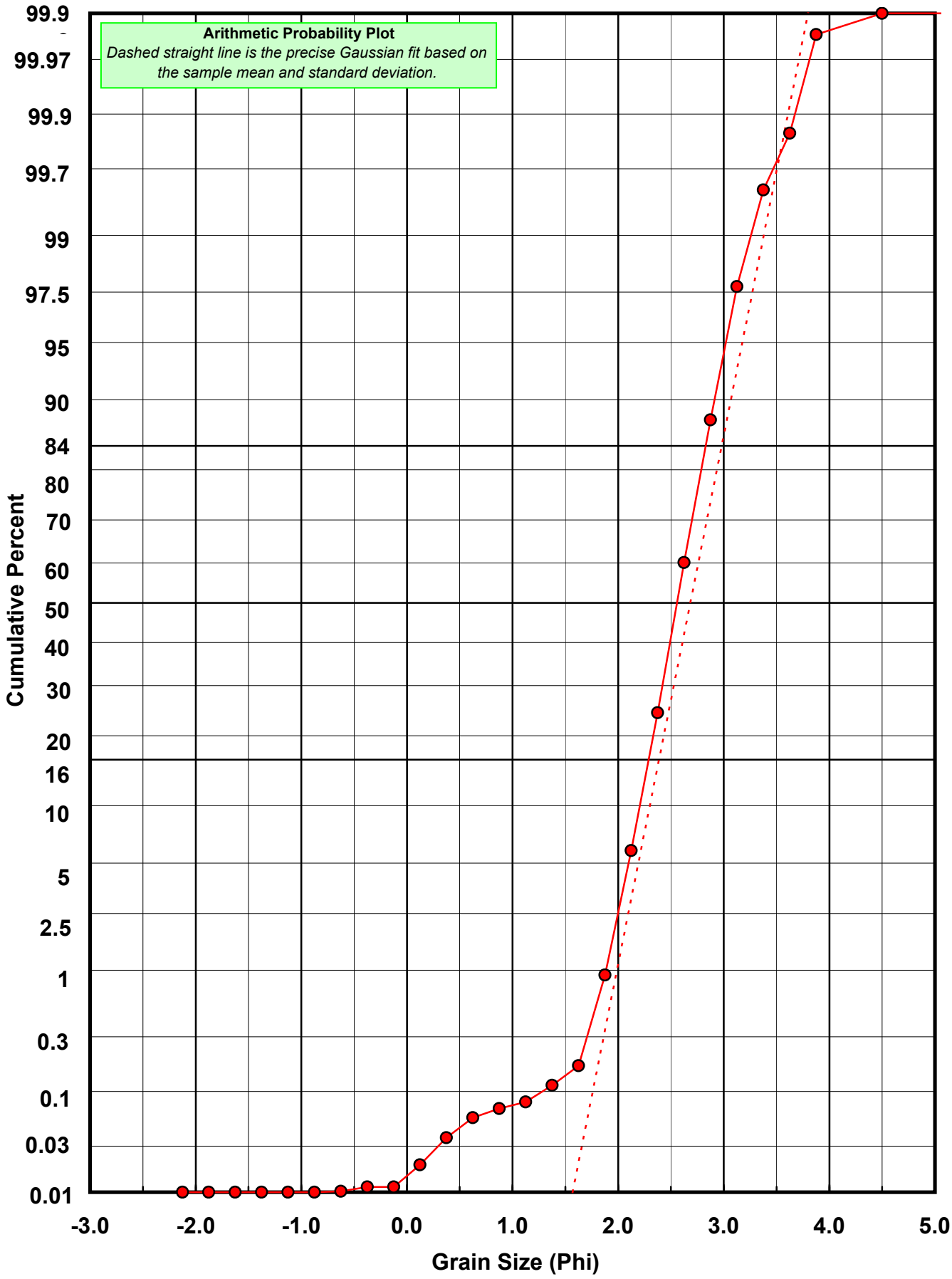
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-34-SS

Total Carbonate Mass: 1.490 grams

% Carbonate: 0.7 %

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	0.002	0.134	0.134
-0.25	-0.375	0.002	0.134	0.268
0.00	-0.125	0.000	0.000	0.268
0.25	0.125	0.005	0.336	0.604
0.50	0.375	0.011	0.738	1.342
0.75	0.625	0.012	0.805	2.148
1.00	0.875	0.000	0.000	2.148
1.25	1.125	0.002	0.134	2.282
1.50	1.375	0.018	1.208	3.490
1.75	1.625	0.011	0.738	4.228
2.00	1.875	0.122	8.188	12.416
2.25	2.125	0.195	13.087	25.503
2.50	2.375	0.937	62.886	88.389
2.75	2.625	0.000	0.000	88.389
3.00	2.875	0.000	0.000	88.389
3.25	3.125	0.151	10.134	98.523
3.50	3.375	0.000	0.000	98.523
3.75	3.625	0.000	0.000	98.523
4.00	3.875	0.022	1.477	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.3361	phi	(0.198 mm)
Standard Dev:	0.4786	phi-units	(0.7176 mm)
Skewness:	-1.0514	dimensionless	
Kurtosis:	10.9593	dimensionless	
5th Moment:	-34.6210	dimensionless	
6th Moment:	223.5188	dimensionless	
RARD *	0.2049	dimensionless	
Median	2.2224	phi	(0.2143 mm)

* RARD = reciprocal absolute relative dispersion (see below)

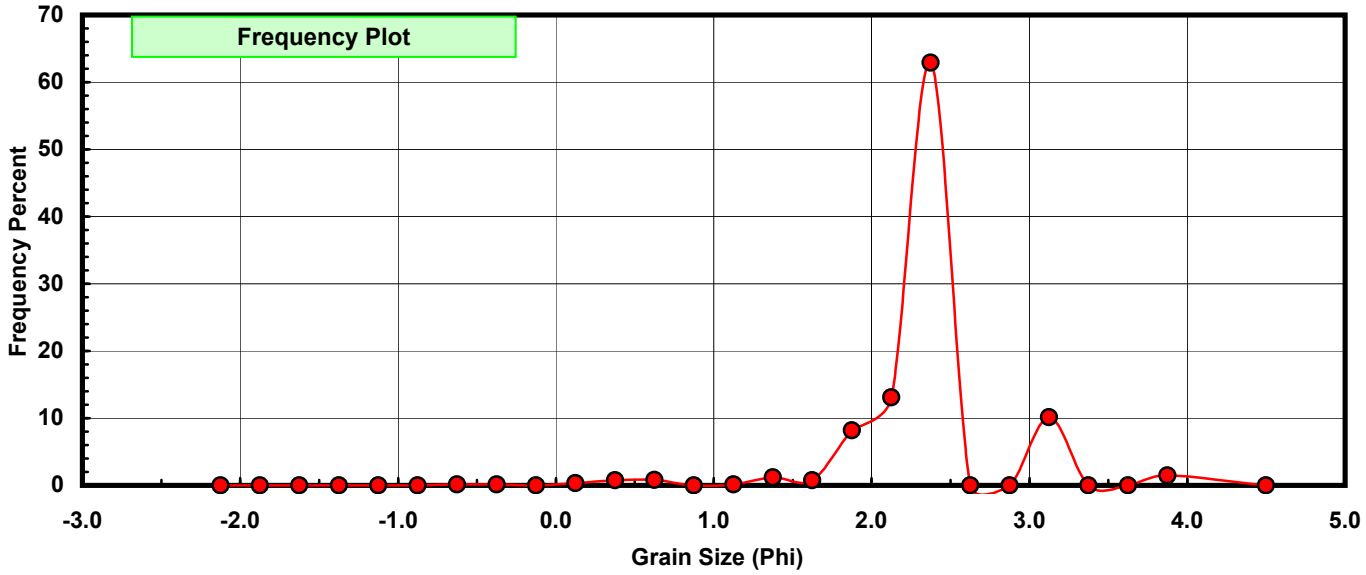
Statistical Explanation

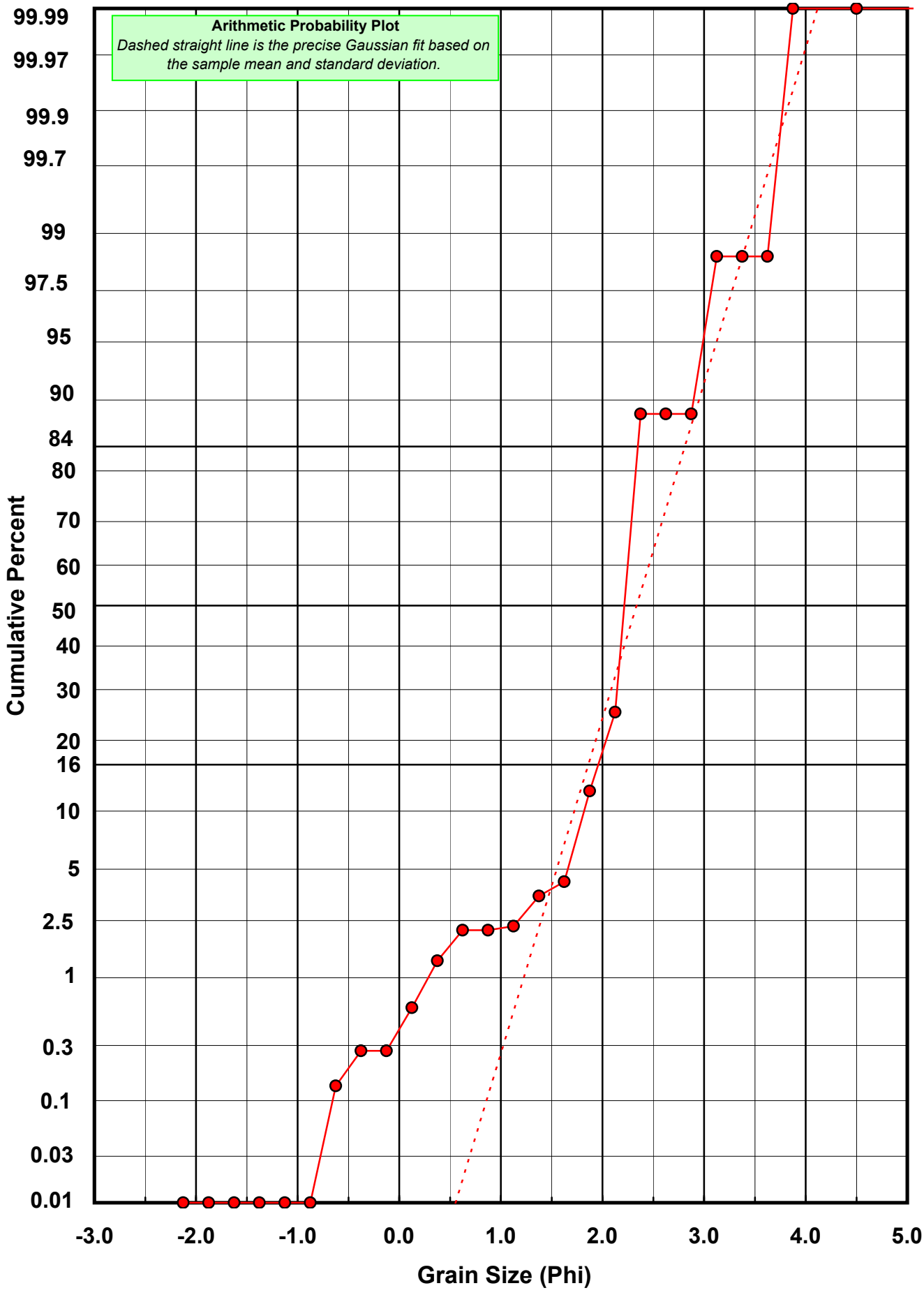
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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: SJ-34-SS

Total Digested Mass: 58.024 grams

% Silica: 99.3 %

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	0.000	0.000	0.000
0.25	0.125	0.002	0.003	0.003
0.50	0.375	0.000	0.000	0.003
0.75	0.625	0.000	0.000	0.003
1.00	0.875	0.008	0.014	0.017
1.25	1.125	0.004	0.007	0.024
1.50	1.375	0.001	0.002	0.026
1.75	1.625	0.021	0.036	0.062
2.00	1.875	0.327	0.564	0.626
2.25	2.125	2.669	4.600	5.225
2.50	2.375	10.003	17.239	22.465
2.75	2.625	21.541	37.124	59.589
3.00	2.875	16.168	27.864	87.453
3.25	3.125	5.779	9.960	97.413
3.50	3.375	1.235	2.128	99.542
3.75	3.625	0.211	0.364	99.905
4.00	3.875	0.055	0.095	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	2.6941	phi	(0.1545 mm)
Standard Dev:	0.2875	phi-units	(0.8193 mm)
Skewness:	0.0586	dimensionless	
Kurtosis:	3.8691	dimensionless	
5th Moment:	-1.9992	dimensionless	
6th Moment:	49.9040	dimensionless	
RARD *	0.1067	dimensionless	
Median	2.5604	phi	(0.1695 mm)

* RARD = reciprocal absolute relative dispersion (see below)

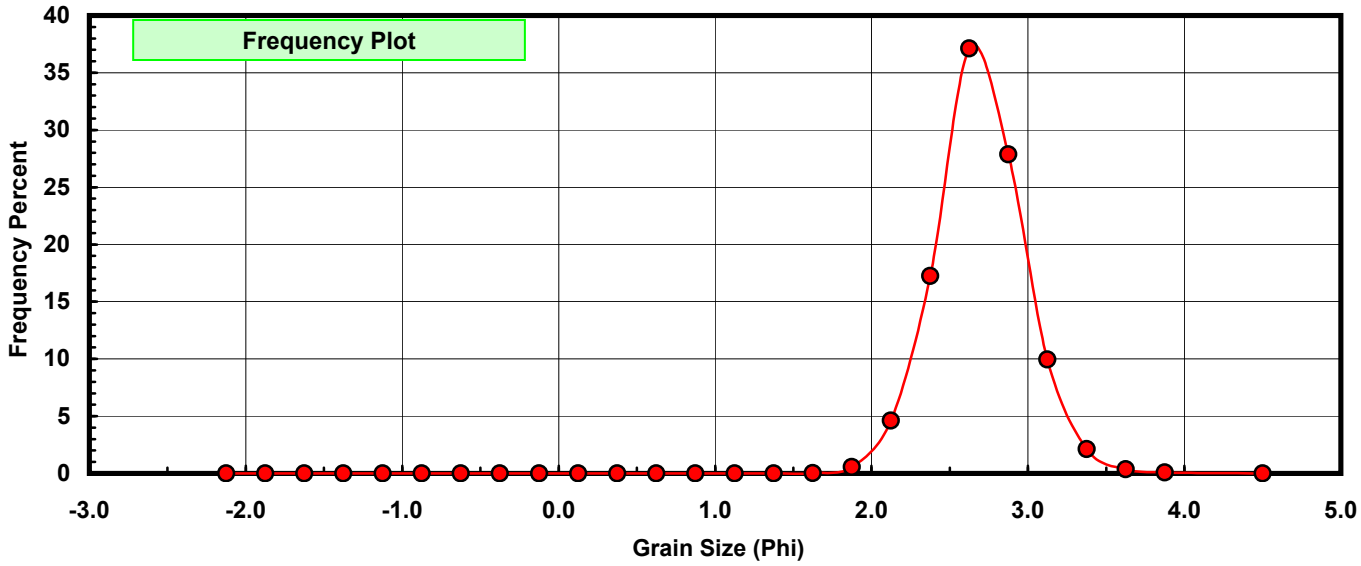
Statistical Explanation

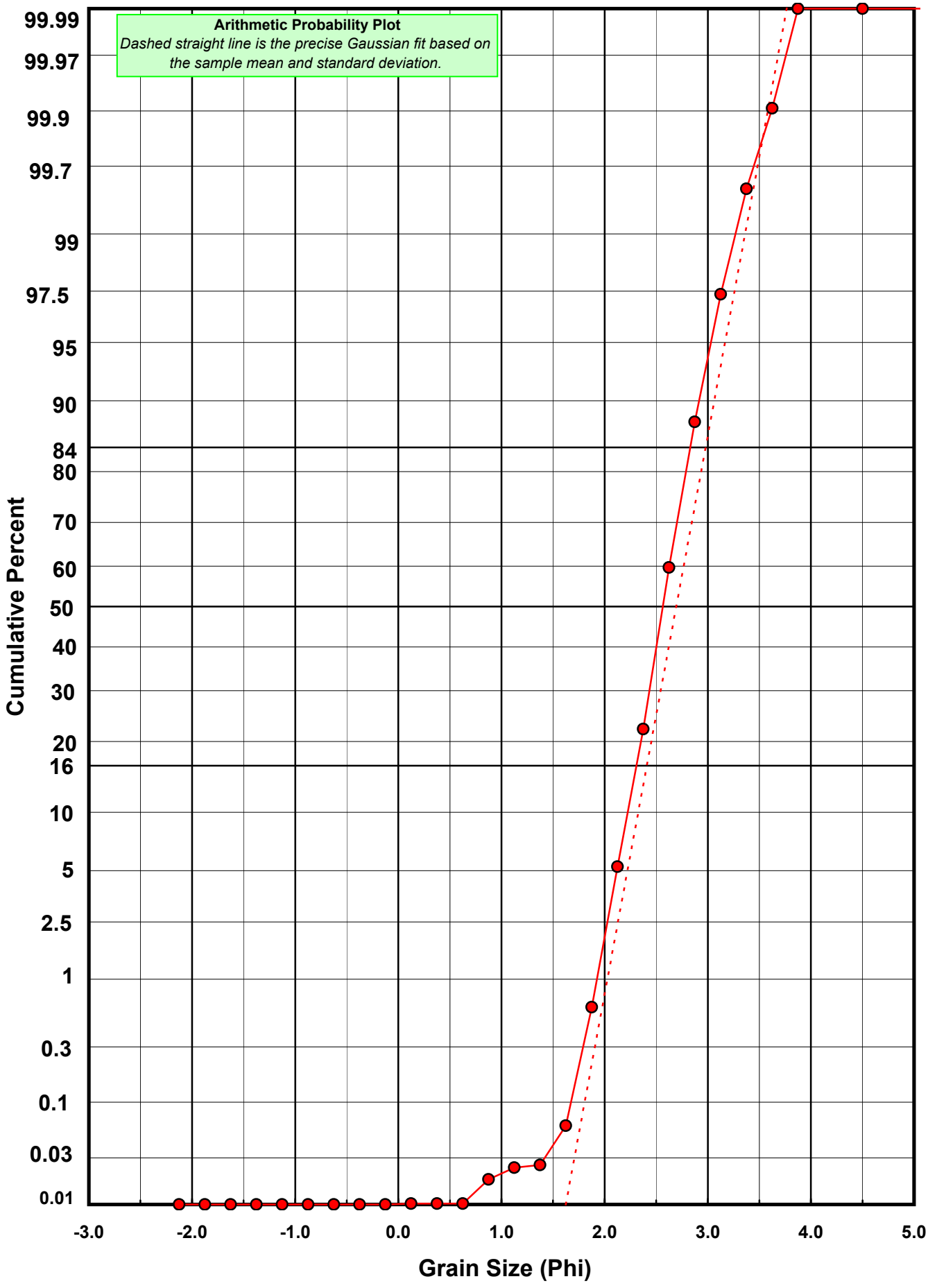
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)