Onshore Grab Sample

Sample: SJ-11-BB
Sample Taken By: J. Ladner
Sample Collected On: 12/2/03
Splits? N/A

County: St. Johns
Latitude: 30° 07' 0.60"
Longitude: 81° 20' 41.1"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	85.185	grams
Total Fines in Sample	0.114	grams
Total Percent Fines	0.13	%

Dry Sieving Summary

Total Sample Weight	85.721	grams
Total Digested Weight	46.645	grams
Total Carbonate Weight	39.076	grams
Total Silica %	54.41	%
Total Carbonate %	45.59	%
Carbonate/Silica Ratio	0.838	

General Comments:

None

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-11-BB

Total Sample Mass: 85.721 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	1.064	1.241	1.241
-1.75	-1.875	0.084	0.098	1.339
-1.50	-1.625	0.205	0.239	1.578
-1.25	-1.375	0.440	0.513	2.092
-1.00	-1.125	0.879	1.025	3.117
-0.75	-0.875	2.041	2.381	5.498
-0.50	-0.625	3.945	4.602	10.100
-0.25	-0.375	4.961	5.787	15.888
0.00	-0.125	5.864	6.841	22.728
0.25	0.125	5.736	6.691	29.420
0.50	0.375	6.082	7.095	36.515
0.75	0.625	6.054	7.062	43.577
1.00	0.875	12.151	14.175	57.752
1.25	1.125	7.256	8.465	66.217
1.50	1.375	6.882	8.028	74.246
1.75	1.625	6.153	7.178	81.423
2.00	1.875	5.583	6.513	87.936
2.25	2.125	4.509	5.260	93.197
2.50	2.375	3.325	3.879	97.075
2.75	2.625	1.822	2.126	99.201
3.00	2.875	0.484	0.565	99.766
3.25	3.125	0.118	0.138	99.903
3.50	3.375	0.056	0.065	99.969
3.75	3.625	0.019	0.022	99.991
4.00	3.875	0.007	0.008	99.999
5.00	4.500	0.001	0.001	100.000

Statistical Results			
Mean:	0.8006	phi	(0.5741 mm)
Standard Dev:	1.0020	phi-units	(0.4993 mm)
Skewness:	-0.2829	dimensionless	
Kurtosis:	2.8262	dimensionless	
5th Moment:	-2.6946	dimensionless	
6th Moment:	13.6630	dimensionless	
RARD *	1.2516	dimensionless	
Median	0.7383	phi	(0.5995 mm)

* RARD = reciprocal absolute relative dispersion (see below)

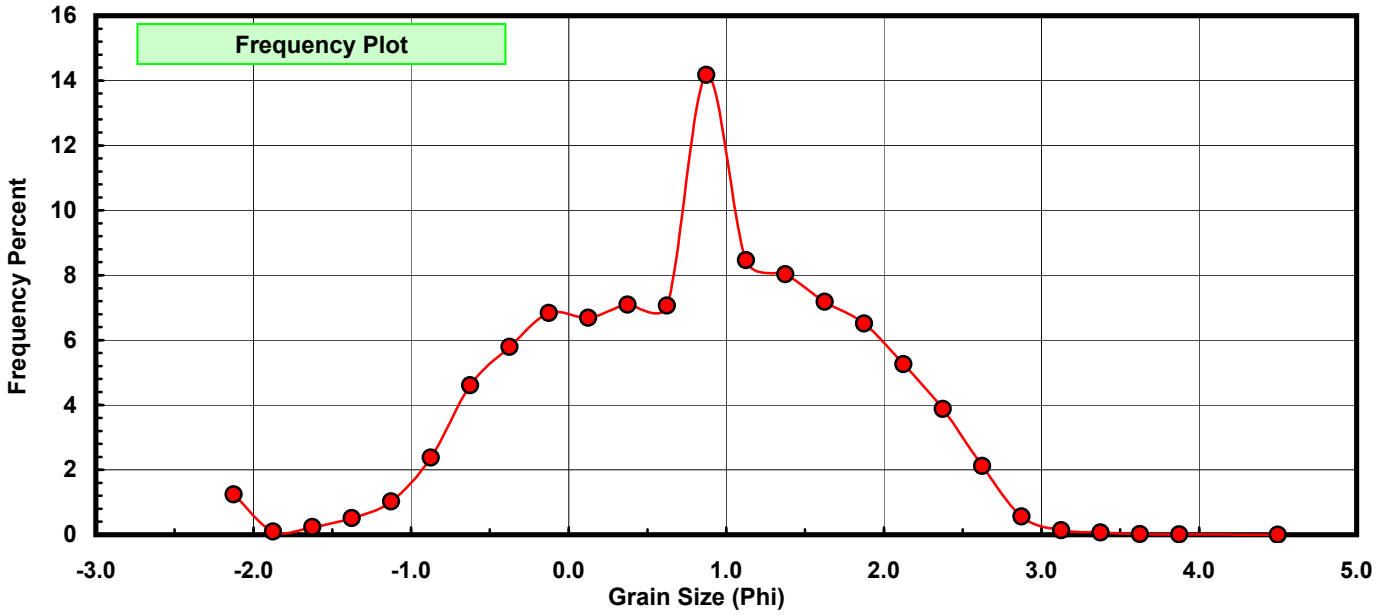
Statistical Explanation

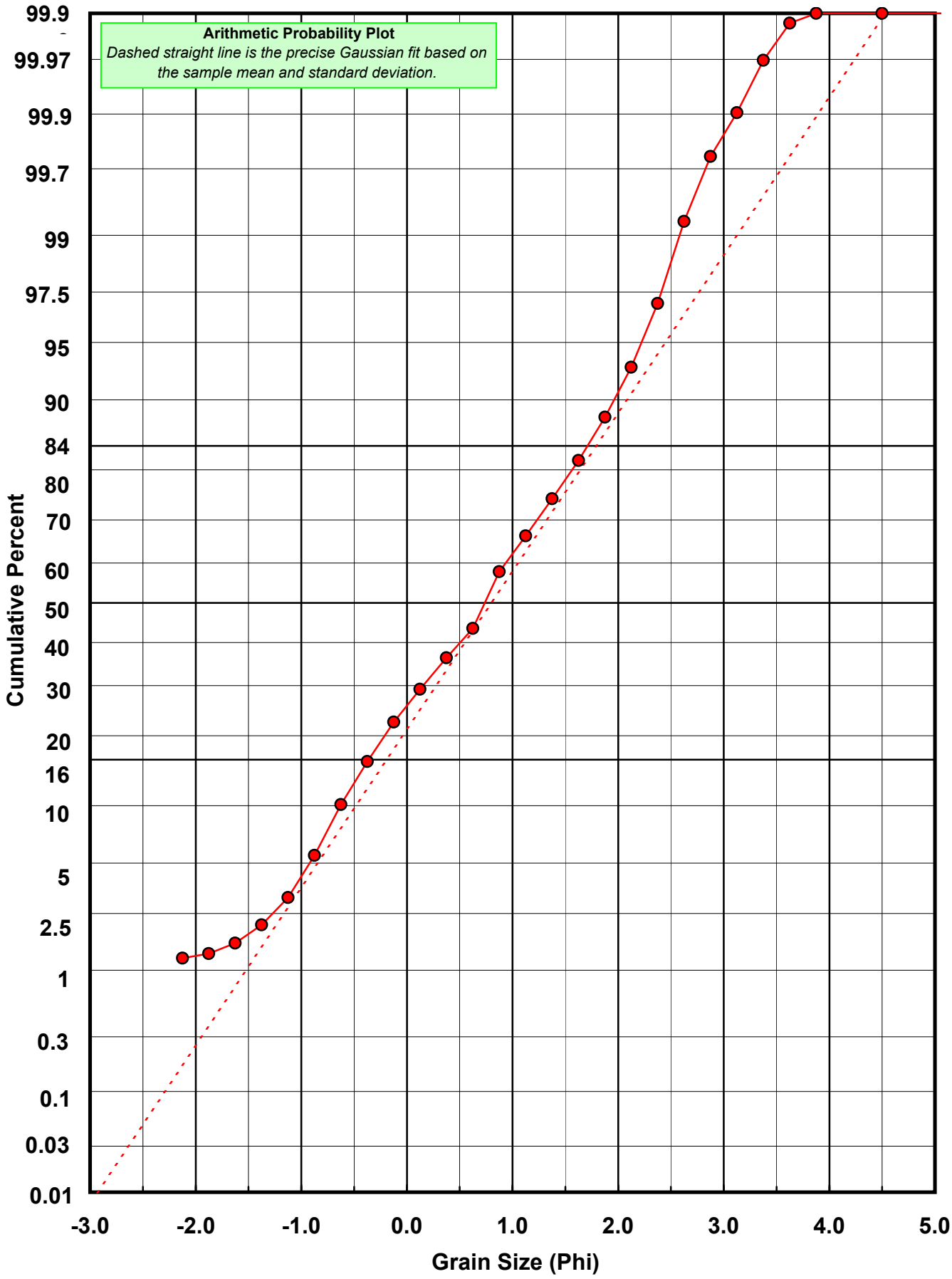
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-11-BB

Total Carbonate Mass: 39.097 grams

% Carbonate: 45.6 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	1.064	2.721	2.721
-1.75	-1.875	0.084	0.215	2.936
-1.50	-1.625	0.205	0.524	3.461
-1.25	-1.375	0.440	1.125	4.586
-1.00	-1.125	0.879	2.248	6.834
-0.75	-0.875	2.034	5.202	12.037
-0.50	-0.625	3.854	9.858	21.894
-0.25	-0.375	4.656	11.909	33.803
0.00	-0.125	5.142	13.152	46.955
0.25	0.125	4.331	11.078	58.033
0.50	0.375	3.887	9.942	67.975
0.75	0.625	2.837	7.256	75.231
1.00	0.875	5.470	13.991	89.222
1.25	1.125	1.538	3.934	93.155
1.50	1.375	1.195	3.057	96.212
1.75	1.625	0.661	1.691	97.903
2.00	1.875	0.224	0.573	98.476
2.25	2.125	0.470	1.202	99.678
2.50	2.375	0.053	0.136	99.813
2.75	2.625	0.064	0.164	99.977
3.00	2.875	0.000	0.000	99.977
3.25	3.125	0.000	0.000	99.977
3.50	3.375	0.007	0.018	99.995
3.75	3.625	0.000	0.000	99.995
4.00	3.875	0.002	0.005	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	0.0979	phi	(0.9344 mm)
Standard Dev:	0.8361	phi-units	(0.5602 mm)
Skewness:	-0.1577	dimensionless	
Kurtosis:	3.3498	dimensionless	
5th Moment:	-1.5683	dimensionless	
6th Moment:	18.6972	dimensionless	
RARD *	8.5411	dimensionless	
Median	-0.0563	phi	(1.0398 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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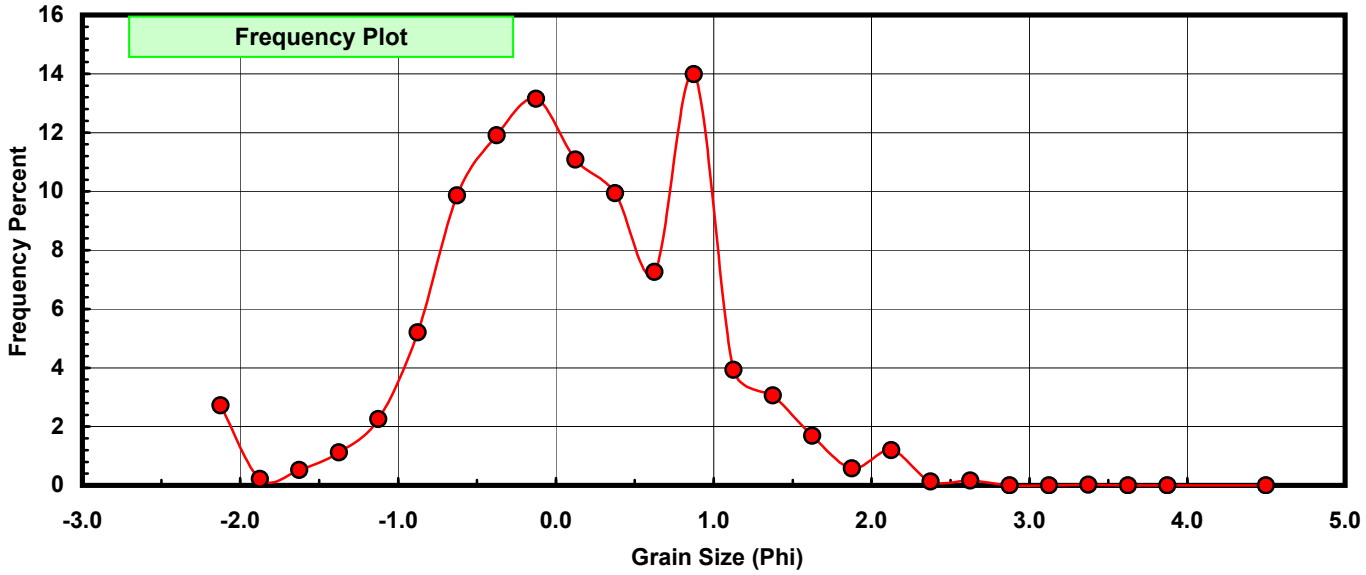

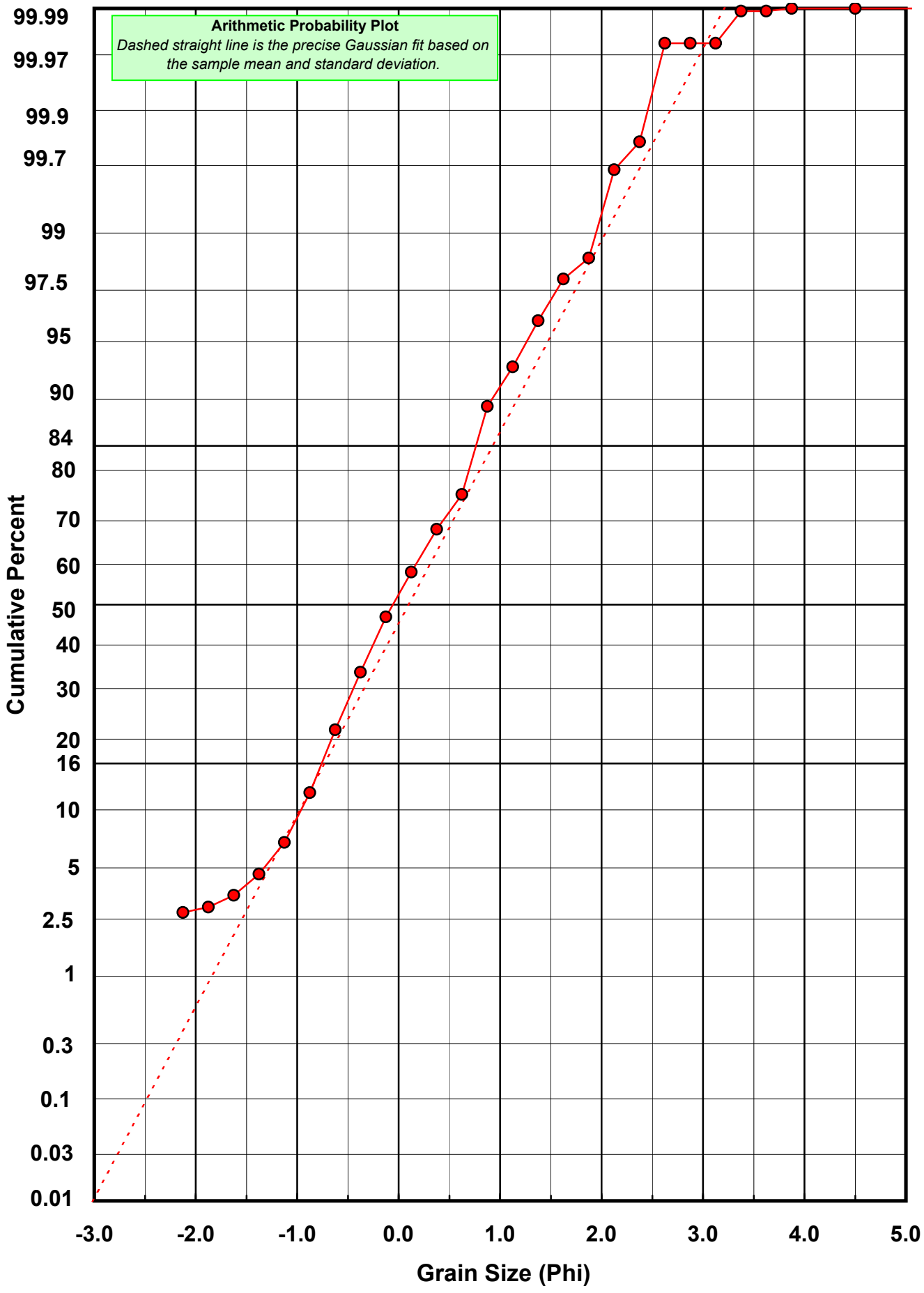
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: SJ-11-BB

Total Digested Mass: 46.644 grams

% Silica: 54.4 %

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	0.007	0.015	0.015
-0.50	-0.625	0.091	0.195	0.210
-0.25	-0.375	0.305	0.654	0.864
0.00	-0.125	0.722	1.548	2.412
0.25	0.125	1.405	3.012	5.424
0.50	0.375	2.195	4.706	10.130
0.75	0.625	3.217	6.897	17.027
1.00	0.875	6.681	14.323	31.350
1.25	1.125	5.718	12.259	43.609
1.50	1.375	5.687	12.192	55.801
1.75	1.625	5.492	11.774	67.576
2.00	1.875	5.359	11.489	79.065
2.25	2.125	4.039	8.659	87.724
2.50	2.375	3.272	7.015	94.739
2.75	2.625	1.758	3.769	98.508
3.00	2.875	0.499	1.070	99.578
3.25	3.125	0.123	0.264	99.841
3.50	3.375	0.049	0.105	99.946
3.75	3.625	0.020	0.043	99.989
4.00	3.875	0.005	0.011	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.3905	phi	(0.3814 mm)
Standard Dev:	0.7095	phi-units	(0.6115 mm)
Skewness:	-0.0589	dimensionless	
Kurtosis:	2.5620	dimensionless	
5th Moment:	-0.5814	dimensionless	
6th Moment:	10.1750	dimensionless	
RARD *	0.5102	dimensionless	
Median	1.2560	phi	(0.4187 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

Calculations based on the Method of Moments
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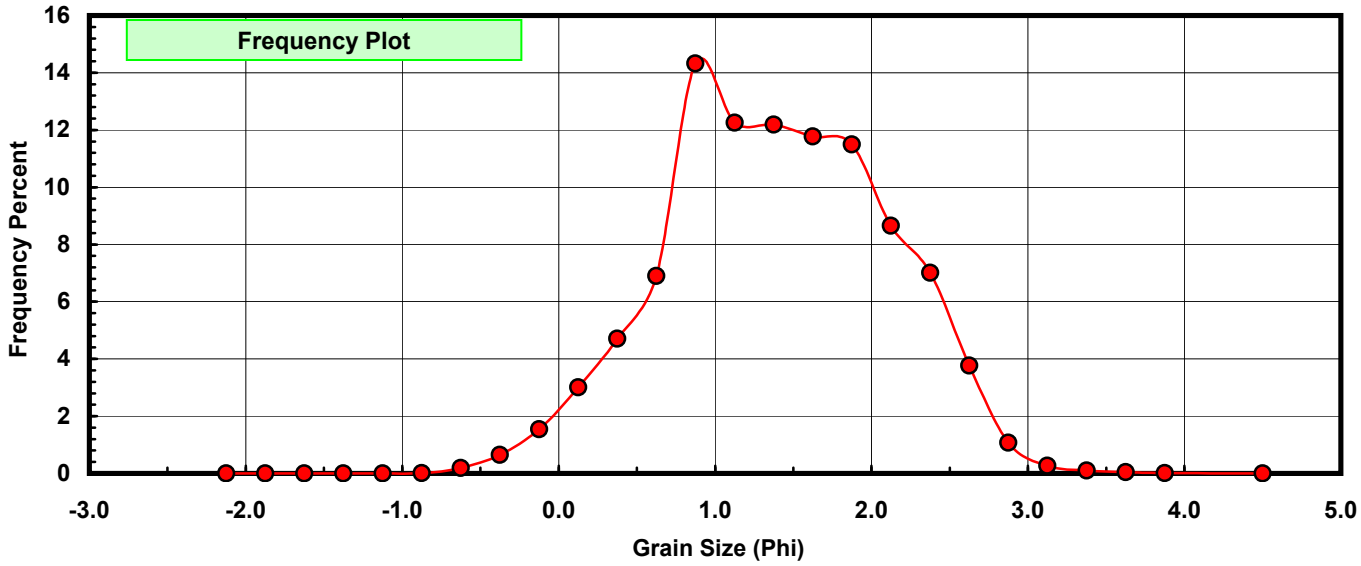

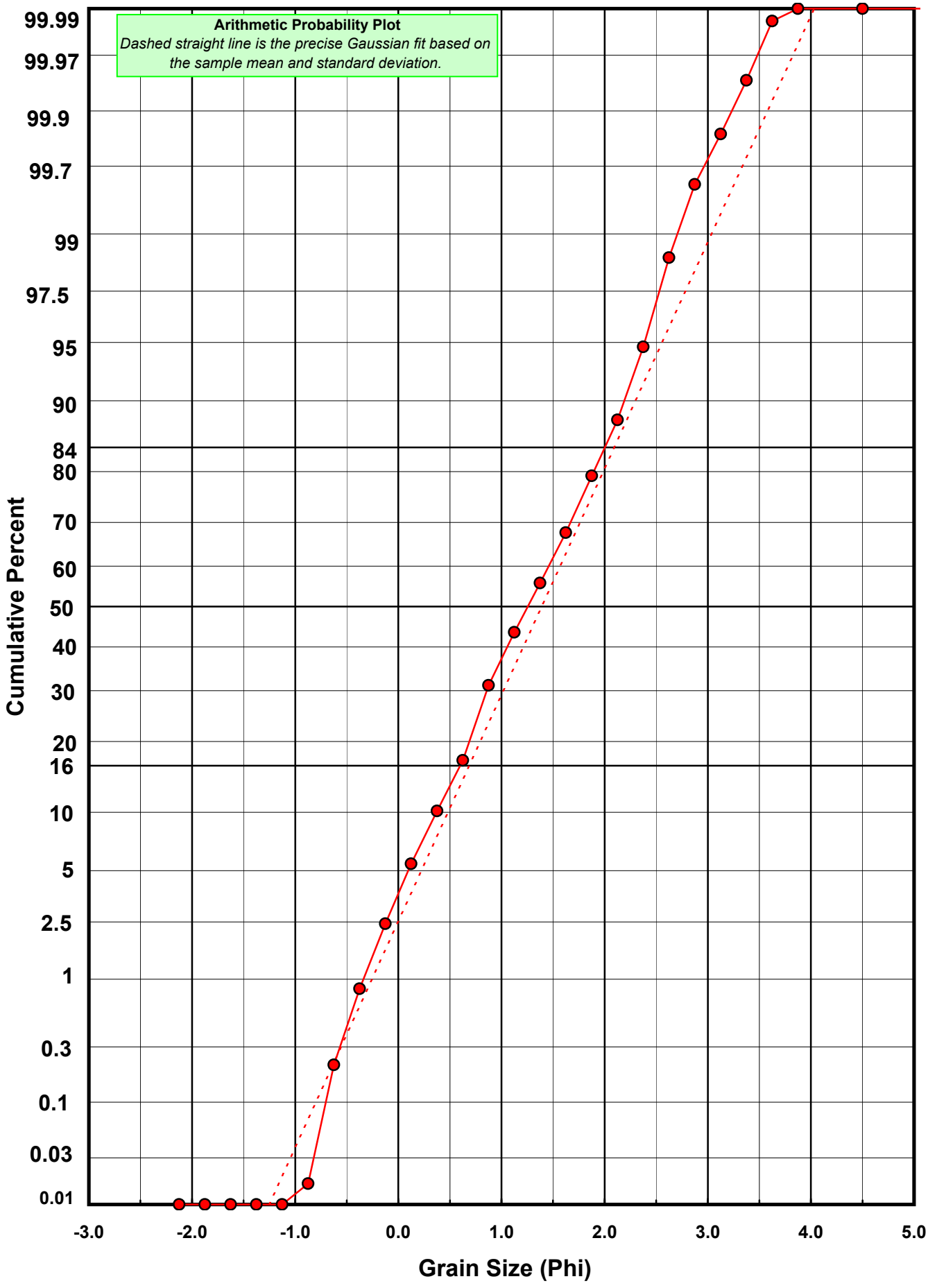
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Grain Size (Phi)