Onshore Grab Sample

Sample: BV-72-BB
Sample Taken By: D. Phelps
Sample Collected On: 9/23/08
Splits? N/A

County: Brevard
Latitude: 27° 56' 30.1"
Longitude: 80° 29' 35.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	46.416	grams
Total Fines in Sample	0.449	grams
Total Percent Fines	0.96	%

Dry Sieving Summary

Total Sample Weight	45.898	grams
Total Digested Weight	44.053	grams
Total Carbonate Weight	1.845	grams
Total Silica %	95.98	%
Total Carbonate %	4.02	%
Carbonate/Silica Ratio	0.042	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-72-BB

Total Sample Mass: 45.898 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.024	0.052	0.052
-1.75	-1.875	0.015	0.033	0.085
-1.50	-1.625	0.152	0.331	0.416
-1.25	-1.375	0.038	0.083	0.499
-1.00	-1.125	0.076	0.166	0.665
-0.75	-0.875	0.053	0.115	0.780
-0.50	-0.625	0.091	0.198	0.978
-0.25	-0.375	0.100	0.218	1.196
0.00	-0.125	0.128	0.279	1.475
0.25	0.125	0.225	0.490	1.965
0.50	0.375	0.358	0.780	2.745
0.75	0.625	0.747	1.628	4.373
1.00	0.875	2.558	5.573	9.946
1.25	1.125	3.859	8.408	18.354
1.50	1.375	7.092	15.452	33.805
1.75	1.625	7.843	17.088	50.893
2.00	1.875	7.822	17.042	67.935
2.25	2.125	5.227	11.388	79.324
2.50	2.375	2.888	6.292	85.616
2.75	2.625	2.102	4.580	90.196
3.00	2.875	2.030	4.423	94.619
3.25	3.125	1.508	3.286	97.904
3.50	3.375	0.621	1.353	99.257
3.75	3.625	0.216	0.471	99.728
4.00	3.875	0.084	0.183	99.911
5.00	4.50	0.041	0.089	100.000

Statistical Results			
Mean:	1.7685	phi	(0.2935 mm)
Standard Dev:	0.7305	phi-units	(0.6027 mm)
Skewness:	-0.4158	dimensionless	
Kurtosis:	5.7739	dimensionless	
5th Moment:	-13.2316	dimensionless	
6th Moment:	80.8050	dimensionless	
RARD *	0.4130	dimensionless	
Median	1.6119	phi	(0.3272 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

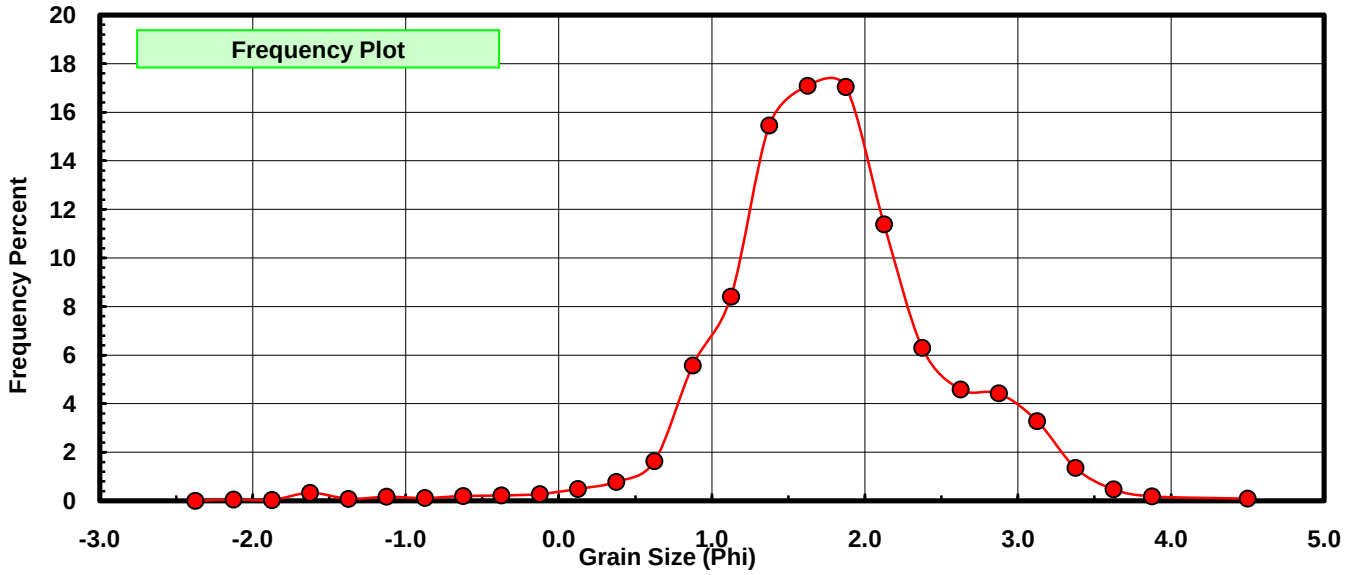
Statistical Explanation

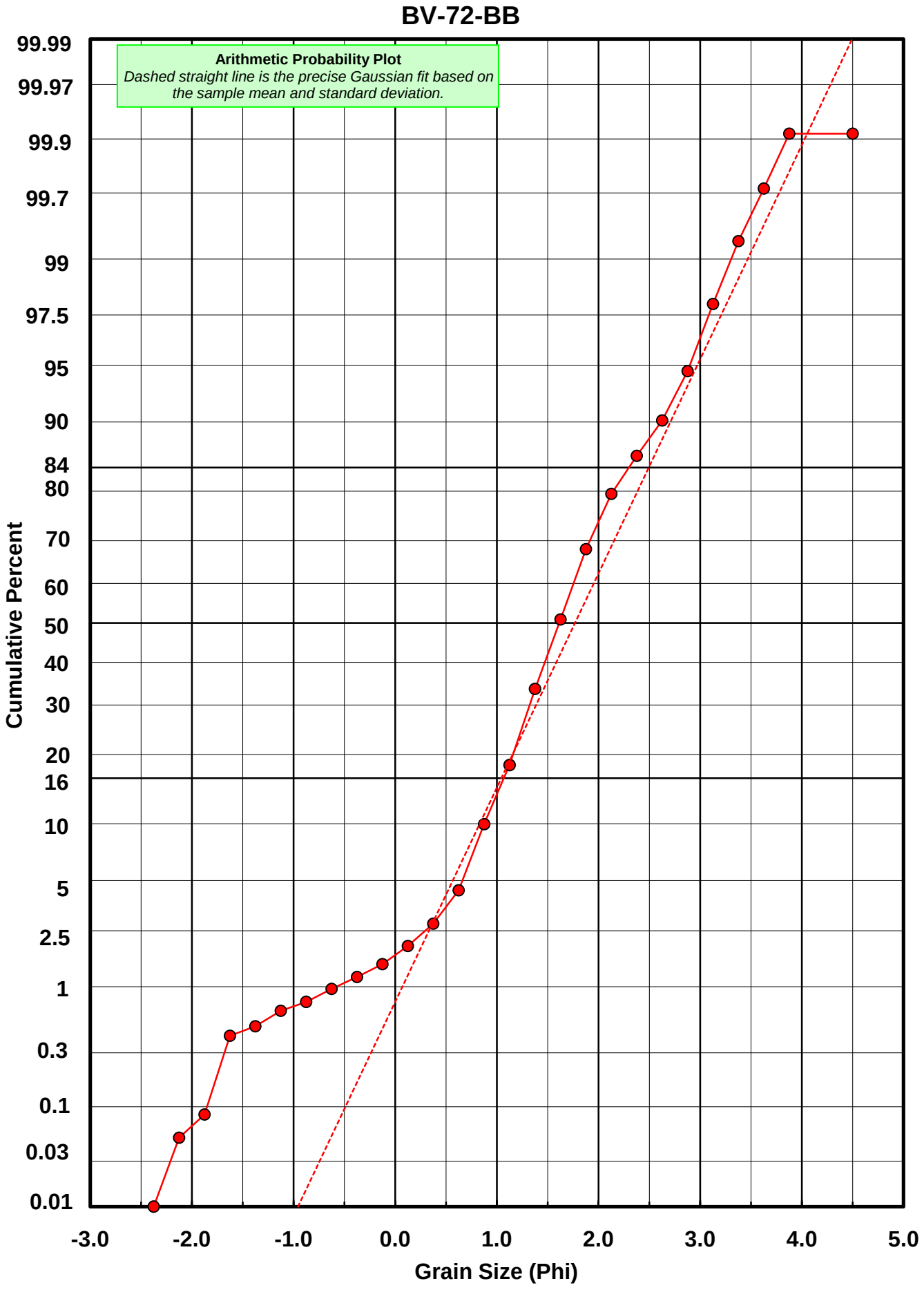
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle et al. 2002

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)




BV-72-BB
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)

Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BV-72-BB

Total Carbonate Mass: 2.092 grams

% Carbonate: 4.0 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.024	1.147	1.147
-1.75	-1.875	0.015	0.717	1.864
-1.50	-1.625	0.152	7.266	9.130
-1.25	-1.375	0.033	1.577	10.707
-1.00	-1.125	0.076	3.633	14.340
-0.75	-0.875	0.053	2.533	16.874
-0.50	-0.625	0.082	3.920	20.793
-0.25	-0.375	0.078	3.728	24.522
0.00	-0.125	0.085	4.063	28.585
0.25	0.125	0.089	4.254	32.839
0.50	0.375	0.039	1.864	34.704
0.75	0.625	0.018	0.860	35.564
1.00	0.875	0.088	4.207	39.771
1.25	1.125	0.000	0.000	39.771
1.50	1.375	0.526	25.143	64.914
1.75	1.625	0.261	12.476	77.390
2.00	1.875	0.041	1.960	79.350
2.25	2.125	0.000	0.000	79.350
2.50	2.375	0.120	5.736	85.086
2.75	2.625	0.242	11.568	96.654
3.00	2.875	0.033	1.577	98.231
3.25	3.125	0.002	0.096	98.327
3.50	3.375	0.002	0.096	98.423
3.75	3.625	0.000	0.000	98.423
4.00	3.875	0.012	0.574	98.996
5.00	4.500	0.021	1.004	100.000

Statistical Results			
Mean:	0.9144	phi	(0.5306 mm)
Standard Dev:	1.4221	phi-units	(0.3732 mm)
Skewness:	-0.3488	dimensionless	
Kurtosis:	2.4075	dimensionless	
5th Moment:	-0.8878	dimensionless	
6th Moment:	8.2543	dimensionless	
RARD *	1.5553	dimensionless	
Median	1.2267	phi	(0.4273 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 Basillle et al. 2002

Millimeter data calculated by mm = 2^(-phi)

Reciprocal Absolute Relative Dispersion (RARD) Scale	
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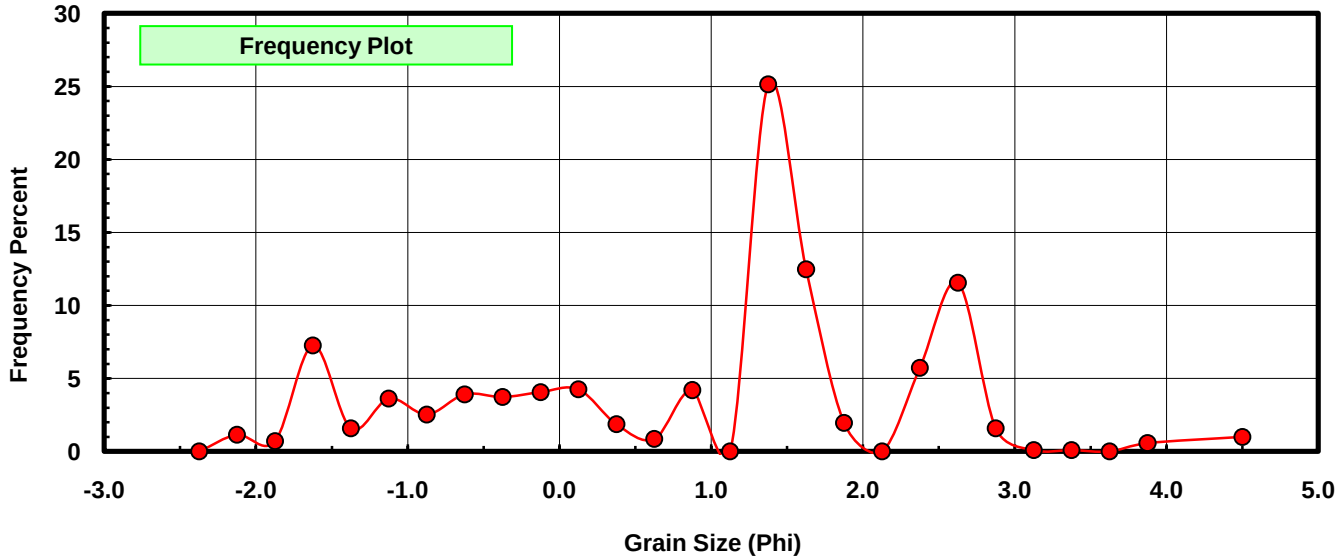

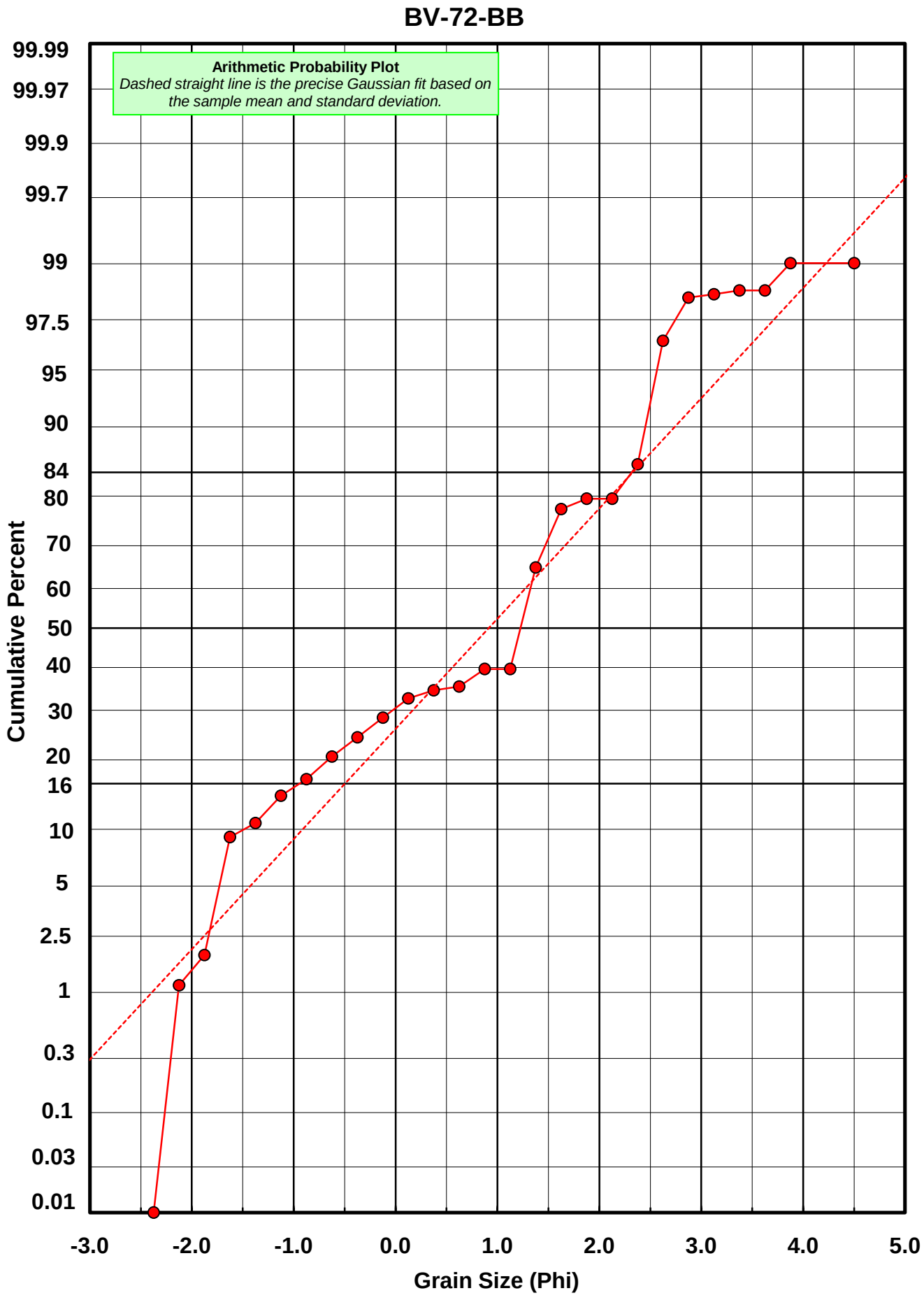
BV-72-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
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99
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84
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60
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: BV-72-BB

Total Digested Mass: 44.053 grams

% Silica: 96.0 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-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	0.005	0.011	0.011
-1.00	-1.125	0.000	0.000	0.011
-0.75	-0.875	0.000	0.000	0.011
-0.50	-0.625	0.009	0.020	0.032
-0.25	-0.375	0.022	0.050	0.082
0.00	-0.125	0.043	0.098	0.179
0.25	0.125	0.136	0.309	0.488
0.50	0.375	0.319	0.724	1.212
0.75	0.625	0.729	1.655	2.867
1.00	0.875	2.470	5.607	8.474
1.25	1.125	3.863	8.769	17.243
1.50	1.375	6.566	14.905	32.148
1.75	1.625	7.582	17.211	49.359
2.00	1.875	7.781	17.663	67.022
2.25	2.125	5.447	12.365	79.386
2.50	2.375	2.768	6.283	85.670
2.75	2.625	1.860	4.222	89.892
3.00	2.875	1.997	4.533	94.425
3.25	3.125	1.506	3.419	97.844
3.50	3.375	0.619	1.405	99.249
3.75	3.625	0.239	0.543	99.791
4.00	3.875	0.072	0.163	99.955
5.00	4.500	0.020	0.045	100.000

Statistical Results			
Mean:	1.8118	phi	(0.2848 mm)
Standard Dev:	0.6507	phi-units	(0.637 mm)
Skewness:	0.4008	dimensionless	
Kurtosis:	3.3253	dimensionless	
5th Moment:	2.5286	dimensionless	
6th Moment:	19.5155	dimensionless	
RARD *	0.3591	dimensionless	
Median	1.6341	phi	(0.3222 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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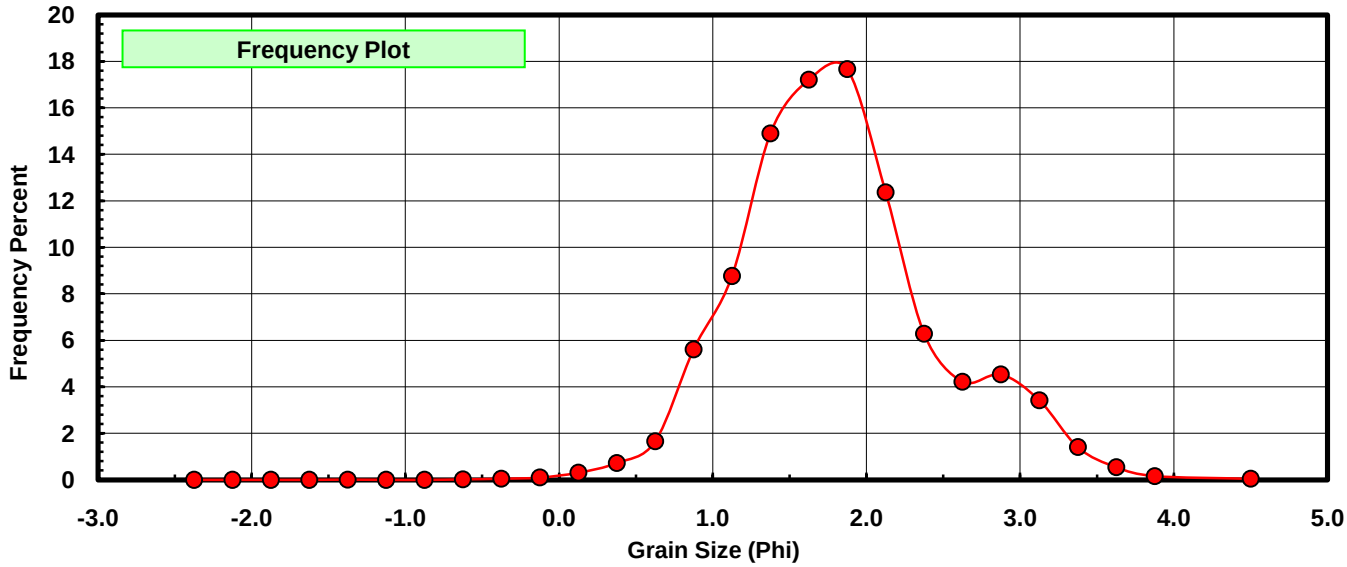
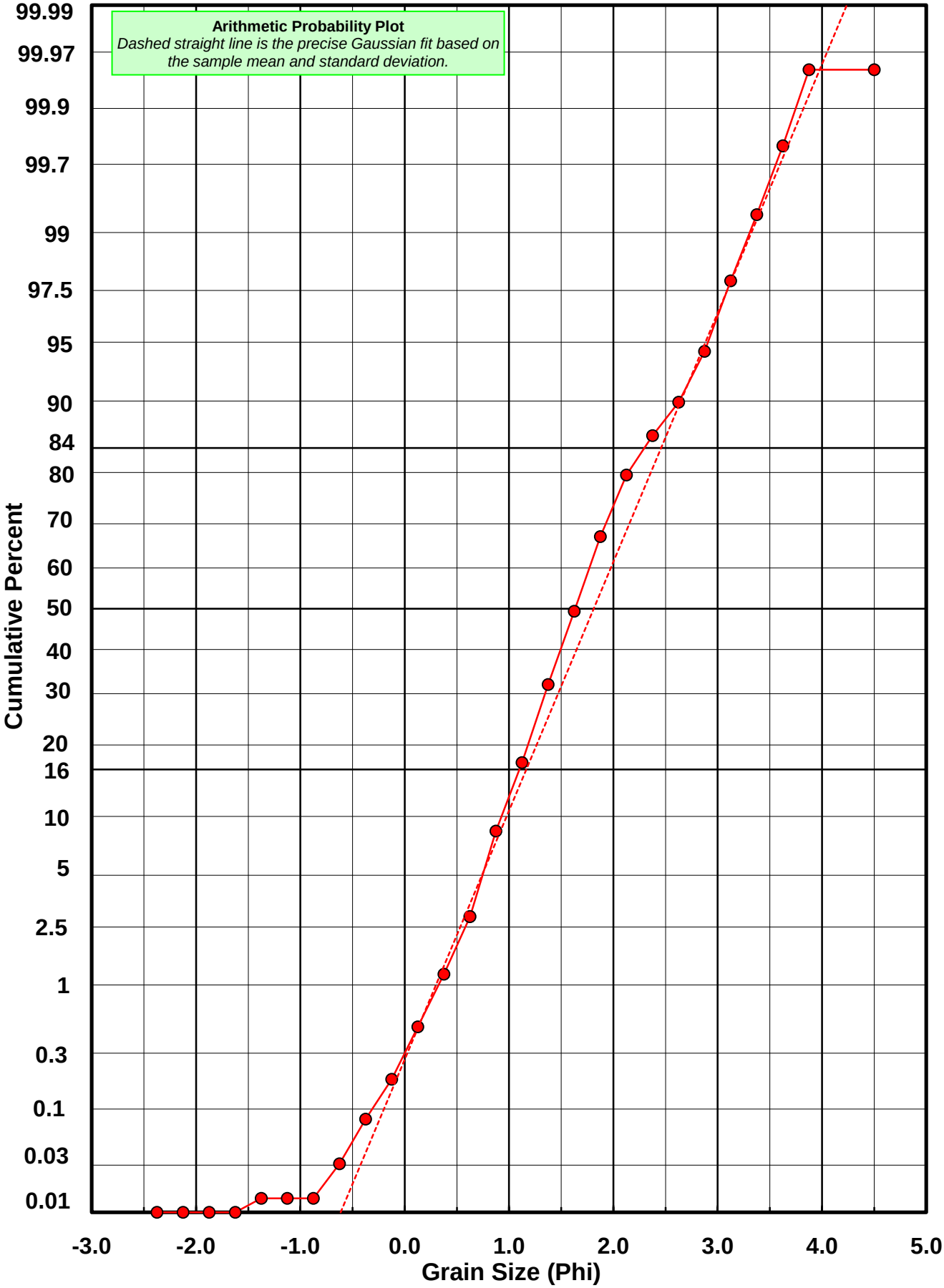


BV-72-BB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Grain Size (Phi)