Onshore Grab Sample

Sample: BV-68-BB
Sample Taken By: D. Phelps
Sample Collected On: 9/24/08
Splits? N/A

County: Brevard
Latitude: 27° 59' 26.3"
Longitude: 80° 31' 9.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	60.998	grams
Total Fines in Sample	0.067	grams
Total Percent Fines	0.11	%

Dry Sieving Summary

Total Sample Weight	60.875	grams
Total Digested Weight	43.748	grams
Total Carbonate Weight	17.127	grams
Total Silica %	71.87	%
Total Carbonate %	28.13	%
Carbonate/Silica Ratio	0.391	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-68-BB

Total Sample Mass: 60.875 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	0.000	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	0.013	0.021	0.021
-1.00	-1.125	0.058	0.095	0.117
-0.75	-0.875	0.023	0.038	0.154
-0.50	-0.625	0.083	0.136	0.291
-0.25	-0.375	0.193	0.317	0.608
0.00	-0.125	0.361	0.593	1.201
0.25	0.125	0.740	1.216	2.416
0.50	0.375	1.406	2.310	4.726
0.75	0.625	2.624	4.310	9.037
1.00	0.875	8.986	14.761	23.798
1.25	1.125	9.810	16.115	39.913
1.50	1.375	13.750	22.587	62.500
1.75	1.625	10.993	18.058	80.559
2.00	1.875	7.197	11.823	92.381
2.25	2.125	3.246	5.332	97.713
2.50	2.375	0.895	1.470	99.184
2.75	2.625	0.311	0.511	99.694
3.00	2.875	0.130	0.214	99.908
3.25	3.125	0.039	0.064	99.972
3.50	3.375	0.011	0.018	99.990
3.75	3.625	0.002	0.003	99.993
4.00	3.875	0.003	0.005	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.3396	phi	(0.3951 mm)
Standard Dev:	0.5059	phi-units	(0.7042 mm)
Skewness:	-0.4102	dimensionless	
Kurtosis:	4.4070	dimensionless	
5th Moment:	-6.8238	dimensionless	
6th Moment:	47.2140	dimensionless	
RARD *	0.3776	dimensionless	
Median	1.2366	phi	(0.4244 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

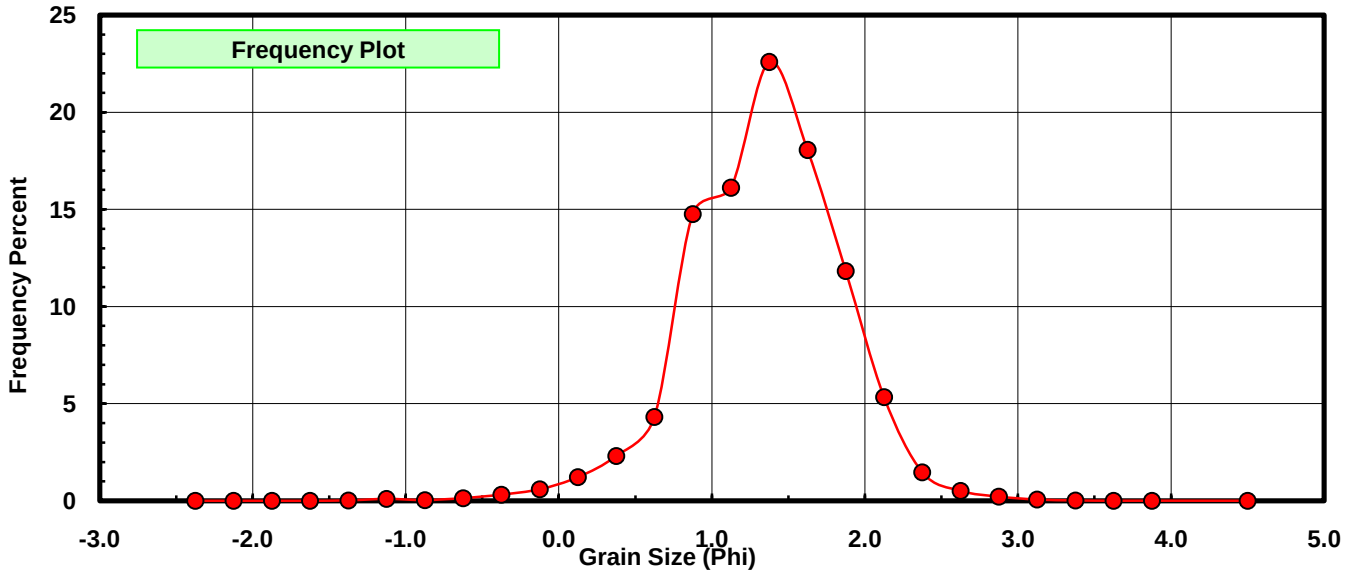
Statistical Explanation

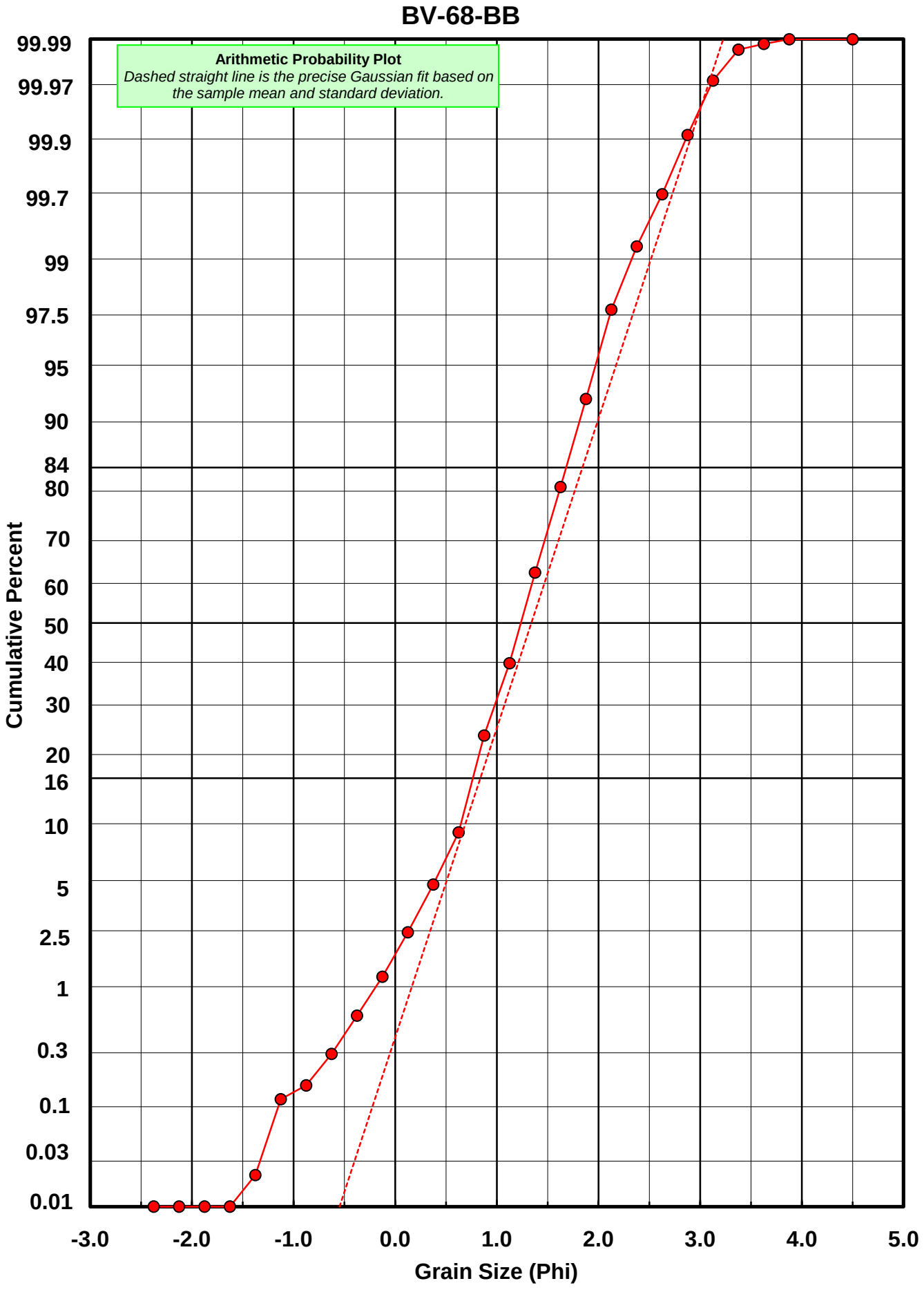
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-68-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-68-BB

Total Carbonate Mass: 17.134 grams

% Carbonate: 28.1 %

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	0.013	0.076	0.076
-1.00	-1.125	0.058	0.339	0.414
-0.75	-0.875	0.023	0.134	0.549
-0.50	-0.625	0.083	0.484	1.033
-0.25	-0.375	0.187	1.091	2.124
0.00	-0.125	0.338	1.973	4.097
0.25	0.125	0.627	3.659	7.757
0.50	0.375	0.998	5.825	13.581
0.75	0.625	1.464	8.544	22.126
1.00	0.875	3.464	20.217	42.343
1.25	1.125	2.540	14.824	57.167
1.50	1.375	3.281	19.149	76.316
1.75	1.625	1.736	10.132	86.448
2.00	1.875	1.270	7.412	93.860
2.25	2.125	0.764	4.459	98.319
2.50	2.375	0.229	1.337	99.656
2.75	2.625	0.055	0.321	99.977
3.00	2.875	0.003	0.018	99.994
3.25	3.125	0.000	0.000	99.994
3.50	3.375	0.000	0.000	99.994
3.75	3.625	0.000	0.000	99.994
4.00	3.875	0.001	0.006	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.1105	phi	(0.4631 mm)
Standard Dev:	0.6125	phi-units	(0.6541 mm)
Skewness:	-0.4227	dimensionless	
Kurtosis:	3.5544	dimensionless	
5th Moment:	-5.0617	dimensionless	
6th Moment:	24.8833	dimensionless	
RARD *	0.5516	dimensionless	
Median	1.0041	phi	(0.4986 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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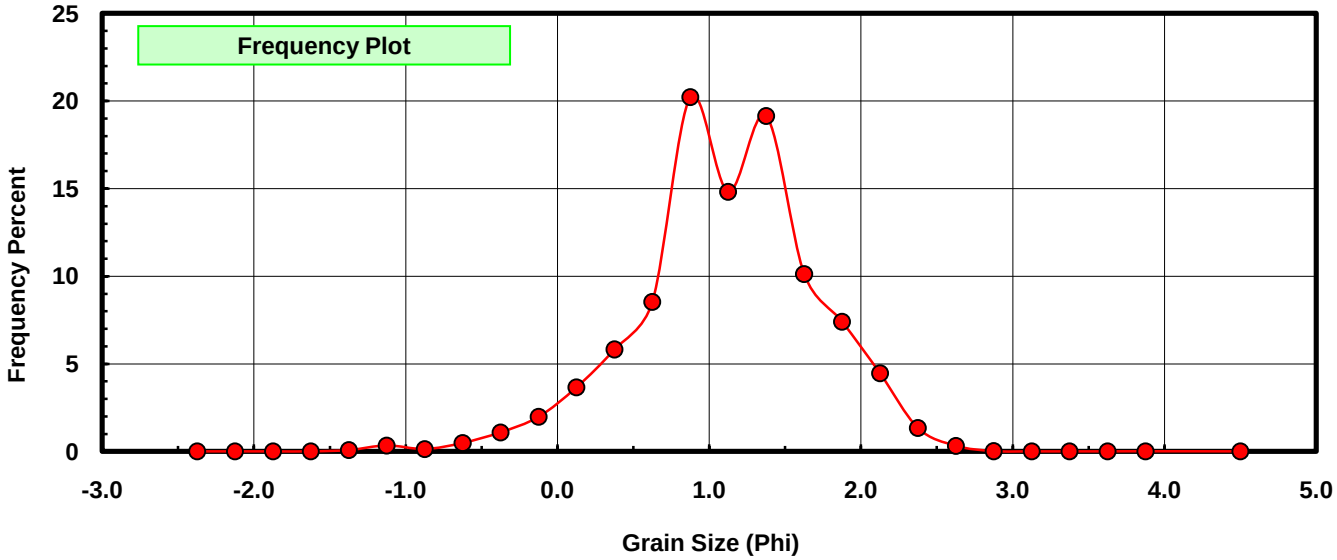

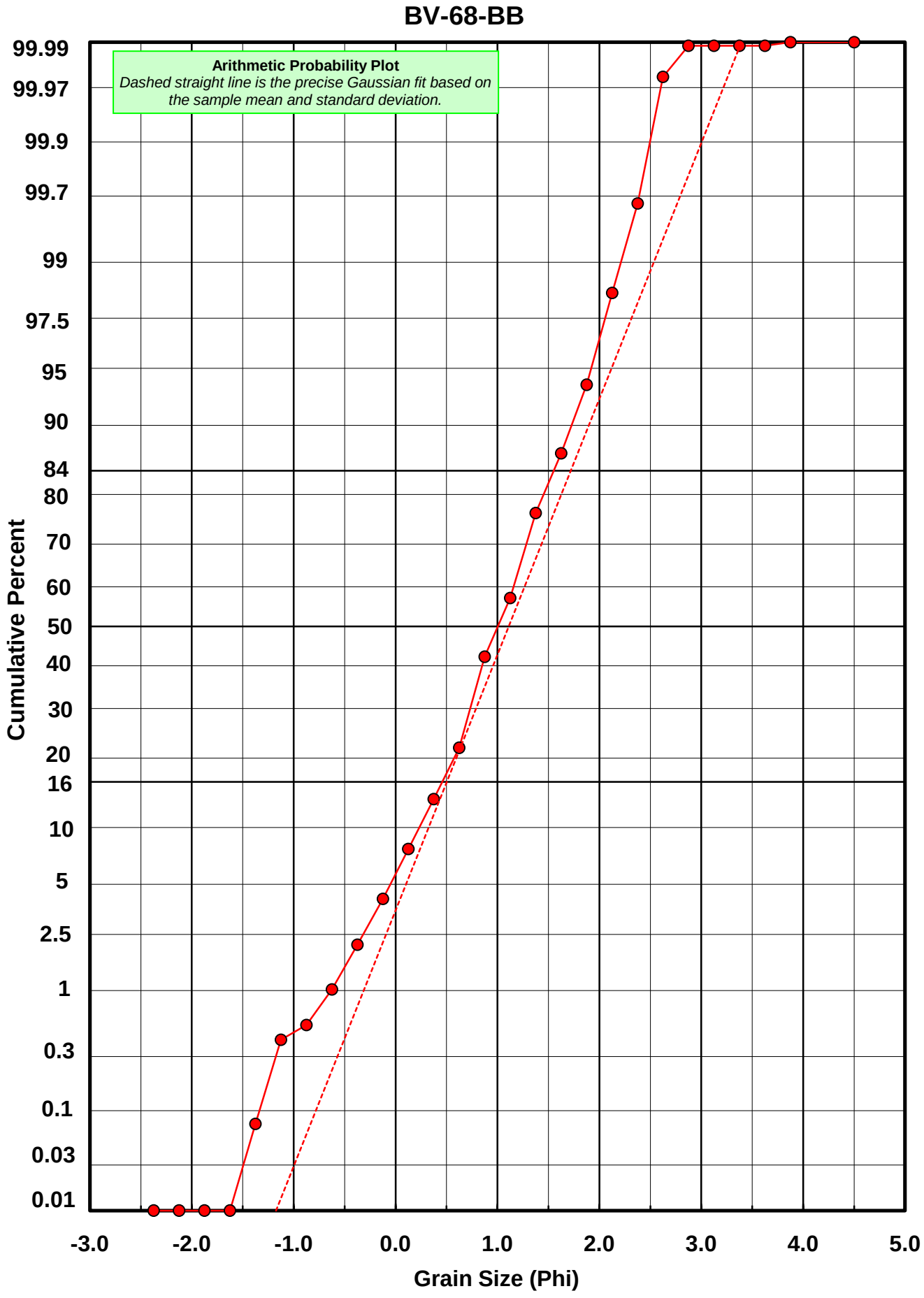
BV-68-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-68-BB

Total Digested Mass: 43.748 grams

% Silica: 71.9 %

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	0.000	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	0.006	0.014	0.014
0.00	-0.125	0.023	0.053	0.066
0.25	0.125	0.113	0.258	0.325
0.50	0.375	0.408	0.933	1.257
0.75	0.625	1.160	2.652	3.909
1.00	0.875	5.522	12.622	16.531
1.25	1.125	7.270	16.618	33.149
1.50	1.375	10.469	23.930	57.079
1.75	1.625	9.257	21.160	78.239
2.00	1.875	5.927	13.548	91.787
2.25	2.125	2.482	5.673	97.460
2.50	2.375	0.666	1.522	98.983
2.75	2.625	0.256	0.585	99.568
3.00	2.875	0.127	0.290	99.858
3.25	3.125	0.041	0.094	99.952
3.50	3.375	0.013	0.030	99.982
3.75	3.625	0.005	0.011	99.993
4.00	3.875	0.002	0.005	99.998
5.00	4.500	0.001	0.002	100.000

Statistical Results			
Mean:	1.4296	phi	(0.3712 mm)
Standard Dev:	0.4338	phi-units	(0.7403 mm)
Skewness:	0.1754	dimensionless	
Kurtosis:	3.5264	dimensionless	
5th Moment:	3.1894	dimensionless	
6th Moment:	29.2820	dimensionless	
RARD *	0.3034	dimensionless	
Median	1.3010	phi	(0.4058 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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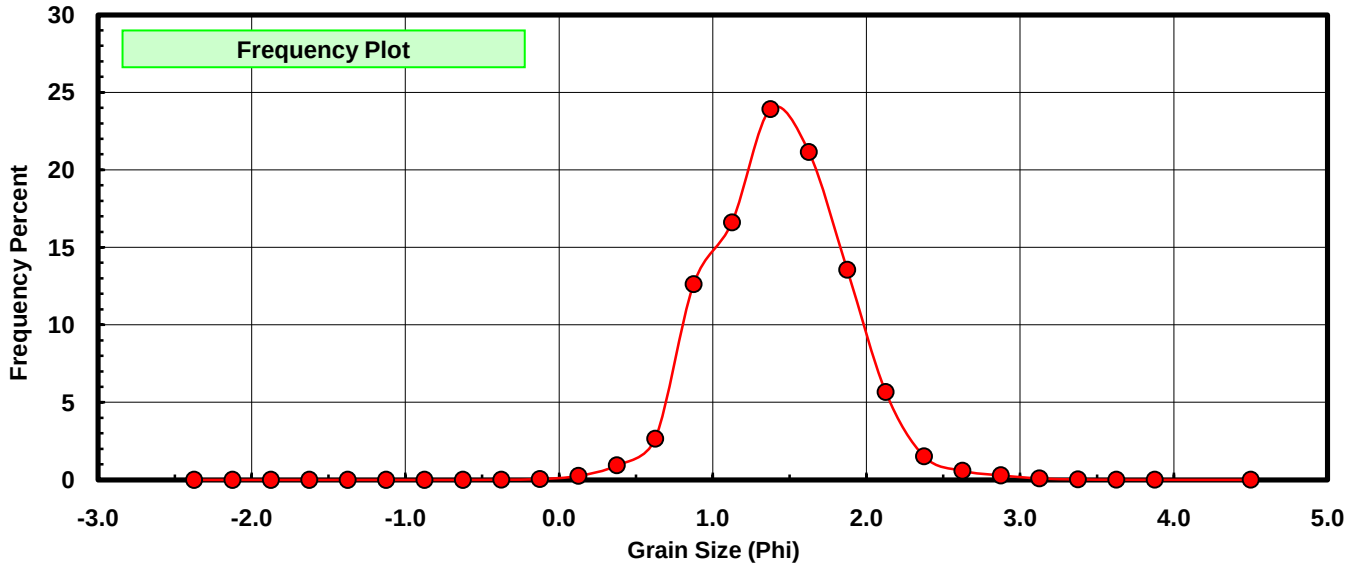

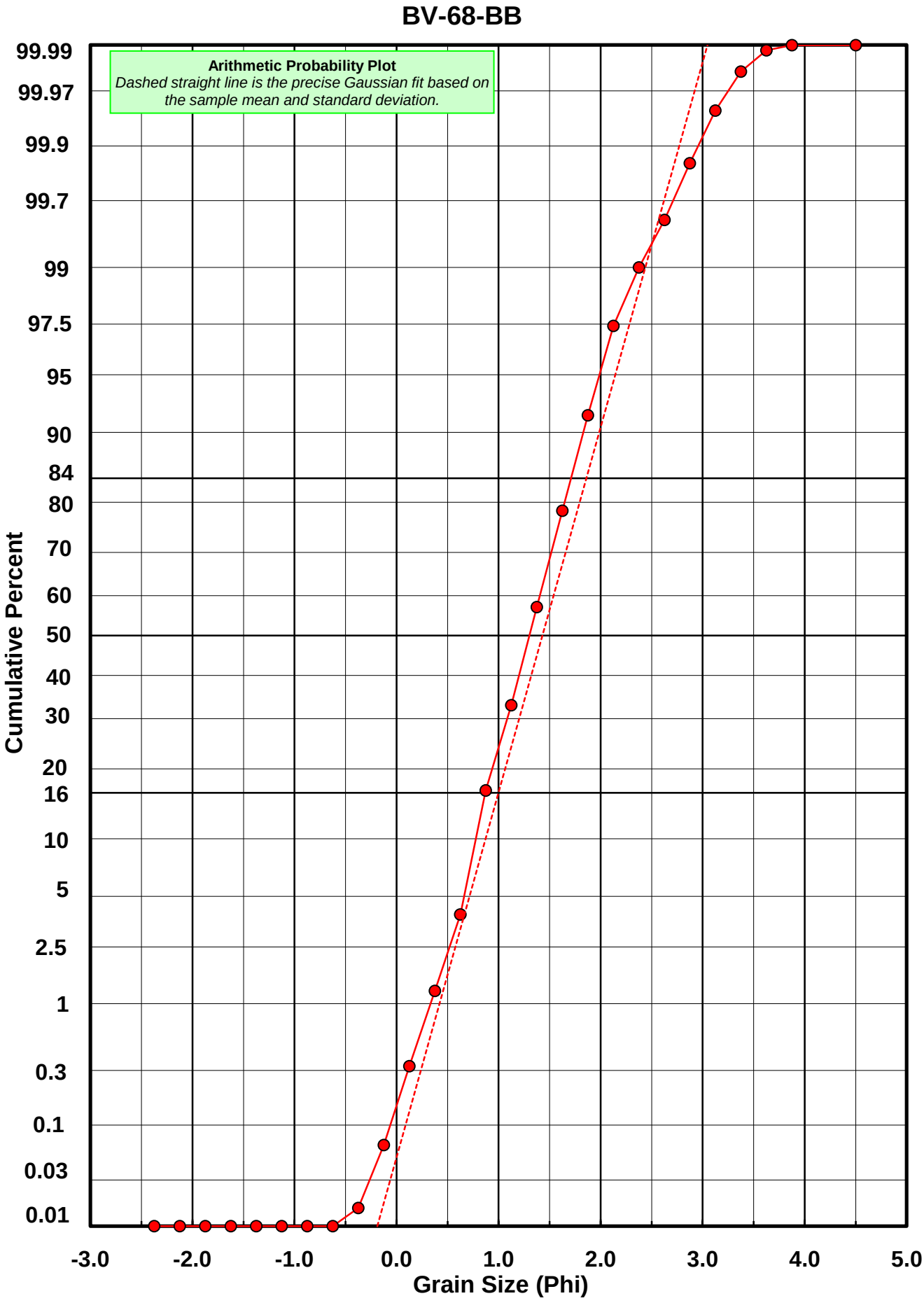
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-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)