Onshore Grab Sample

Sample: BV-75-BB
Sample Taken By: D. Phelps
Sample Collected On: 9/23/08
Splits? N/A

County: Brevard
Latitude: 27° 54' 19.8"
Longitude: 80° 28' 28.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	36.075	grams
Total Fines in Sample	0.077	grams
Total Percent Fines	0.21	%

Dry Sieving Summary

Total Sample Weight	35.949	grams
Total Digested Weight	23.082	grams
Total Carbonate Weight	12.867	grams
Total Silica %	64.21	%
Total Carbonate %	35.79	%
Carbonate/Silica Ratio	0.557	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-75-BB

Total Sample Mass: 35.949 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	0.000	0.000	0.000
-1.00	-1.125	0.072	0.200	0.200
-0.75	-0.875	0.184	0.512	0.712
-0.50	-0.625	0.263	0.732	1.444
-0.25	-0.375	0.438	1.218	2.662
0.00	-0.125	0.767	2.134	4.796
0.25	0.125	1.145	3.185	7.981
0.50	0.375	1.514	4.212	12.192
0.75	0.625	2.541	7.068	19.261
1.00	0.875	6.312	17.558	36.819
1.25	1.125	5.987	16.654	53.473
1.50	1.375	7.461	20.754	74.227
1.75	1.625	5.316	14.788	89.015
2.00	1.875	2.698	7.505	96.520
2.25	2.125	0.830	2.309	98.829
2.50	2.375	0.218	0.606	99.435
2.75	2.625	0.112	0.312	99.747
3.00	2.875	0.059	0.164	99.911
3.25	3.125	0.021	0.058	99.969
3.50	3.375	0.007	0.019	99.989
3.75	3.625	0.002	0.006	99.994
4.00	3.875	0.001	0.003	99.997
5.00	4.50	0.001	0.003	100.000

Statistical Results			
Mean:	1.1321	phi	(0.4563 mm)
Standard Dev:	0.5904	phi-units	(0.6642 mm)
Skewness:	-0.6854	dimensionless	
Kurtosis:	4.1846	dimensionless	
5th Moment:	-6.4807	dimensionless	
6th Moment:	32.8169	dimensionless	
RARD *	0.5215	dimensionless	
Median	1.0729	phi	(0.4754 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

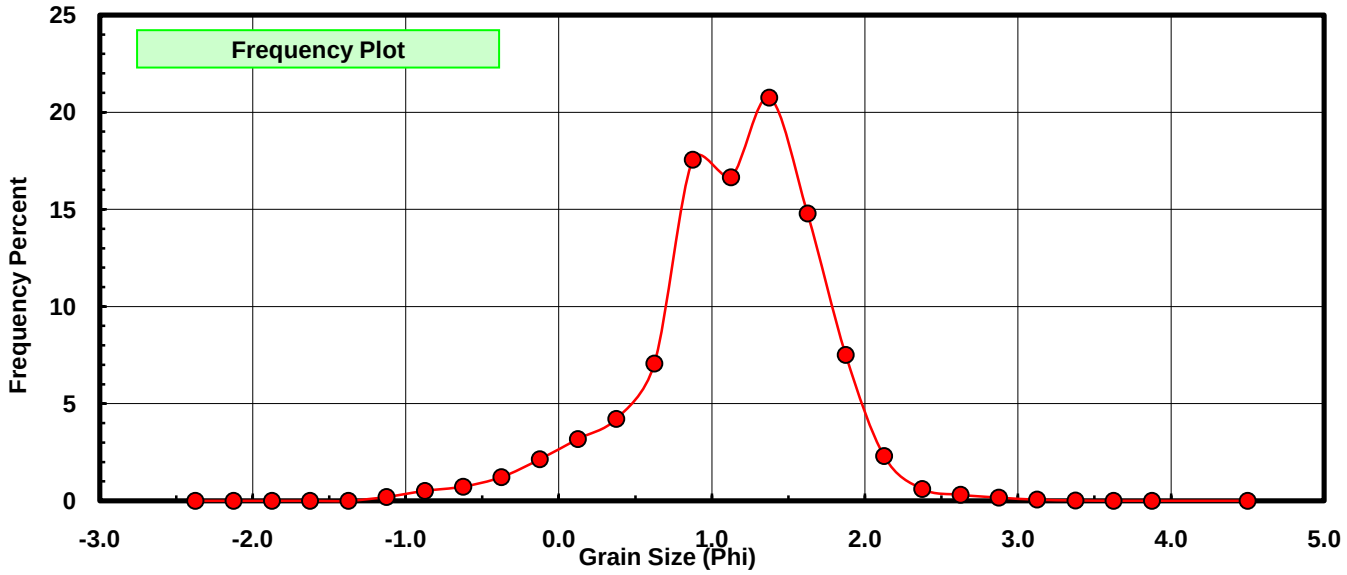
Statistical Explanation

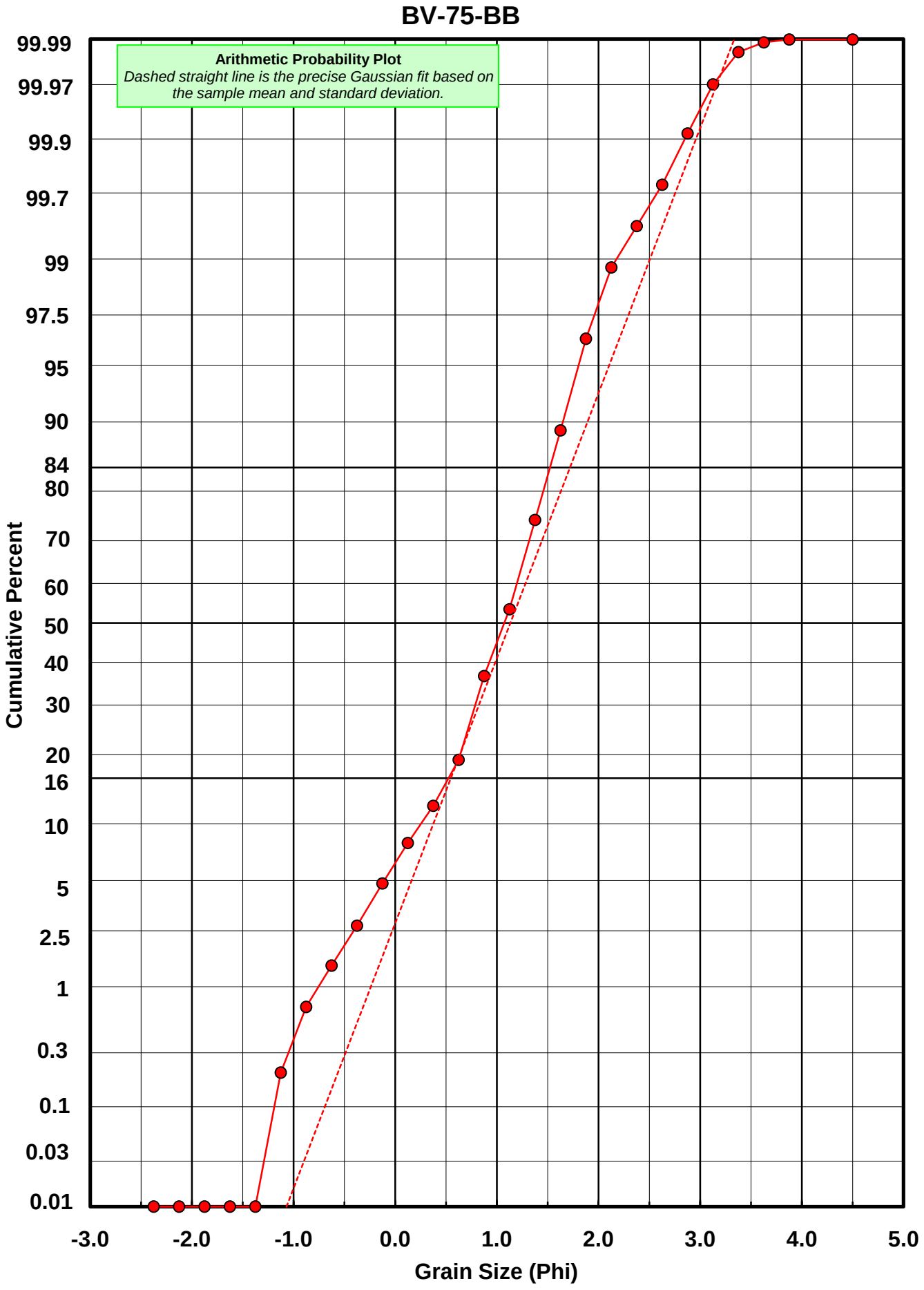
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-75-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-75-BB

Total Carbonate Mass: 12.872 grams

% Carbonate: 35.8 %

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	0.072	0.559	0.559
-0.75	-0.875	0.184	1.429	1.989
-0.50	-0.625	0.263	2.043	4.032
-0.25	-0.375	0.430	3.341	7.373
0.00	-0.125	0.685	5.322	12.694
0.25	0.125	0.882	6.852	19.546
0.50	0.375	1.005	7.808	27.354
0.75	0.625	1.504	11.684	39.038
1.00	0.875	2.431	18.886	57.924
1.25	1.125	1.286	9.991	67.915
1.50	1.375	1.898	14.745	82.660
1.75	1.625	1.464	11.374	94.034
2.00	1.875	0.537	4.172	98.205
2.25	2.125	0.199	1.546	99.751
2.50	2.375	0.032	0.249	100.000
2.75	2.625	0.000	0.000	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:	0.8423	phi	(0.5577 mm)
Standard Dev:	0.7065	phi-units	(0.6128 mm)
Skewness:	-0.4790	dimensionless	
Kurtosis:	2.6244	dimensionless	
5th Moment:	-3.0973	dimensionless	
6th Moment:	10.7973	dimensionless	
RARD *	0.8388	dimensionless	
Median	0.7701	phi	(0.5864 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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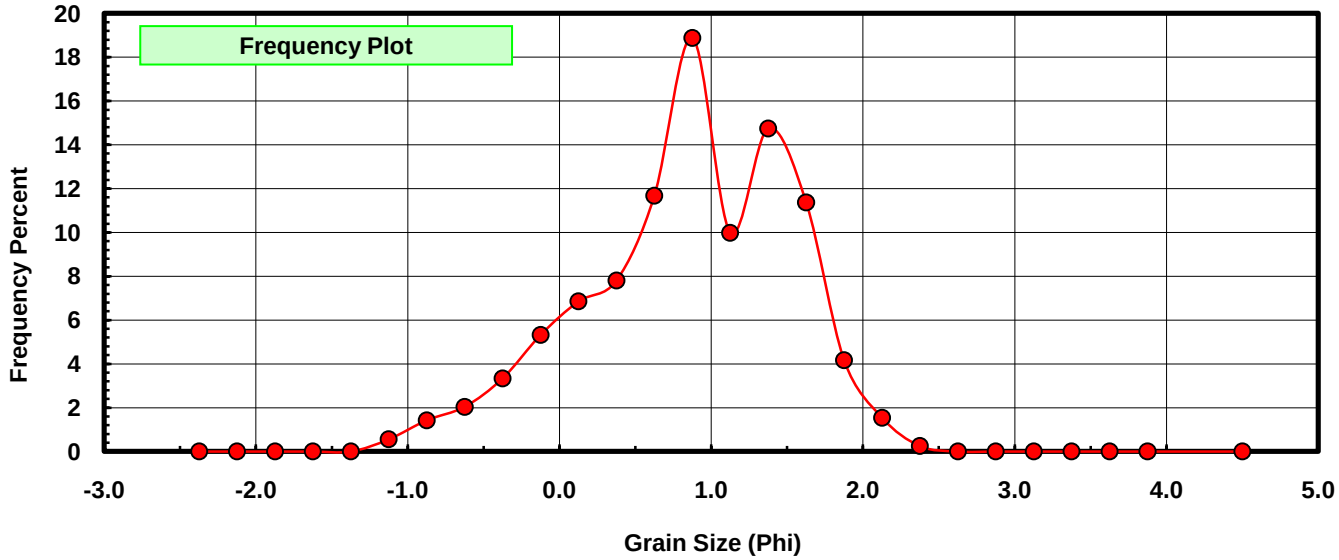

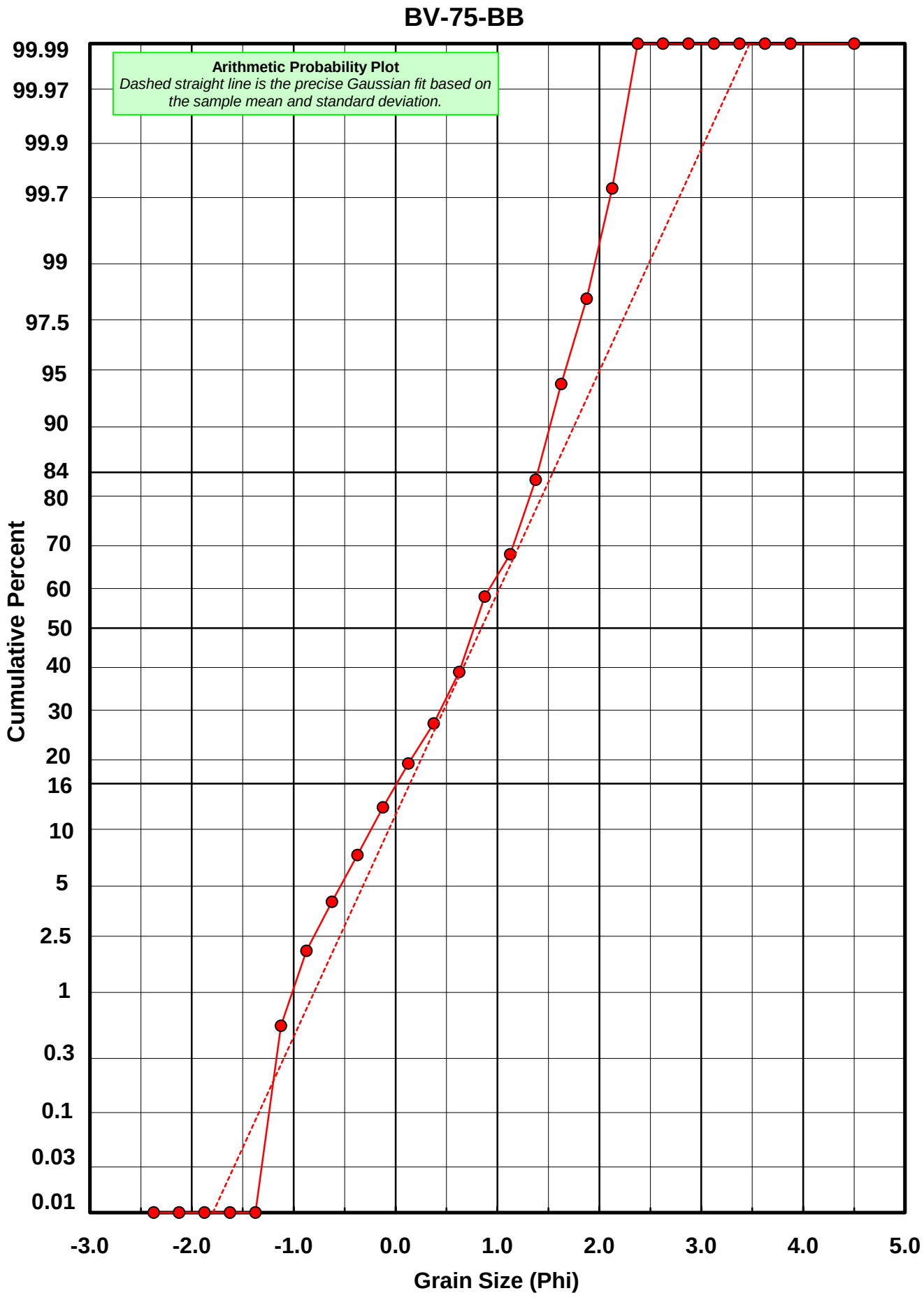
BV-75-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
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30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-75-BB

Total Digested Mass: 23.082 grams

% Silica: 64.2 %

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	0.008	0.035	0.035
0.00	-0.125	0.082	0.355	0.390
0.25	0.125	0.263	1.139	1.529
0.50	0.375	0.509	2.205	3.735
0.75	0.625	1.037	4.493	8.227
1.00	0.875	3.881	16.814	25.041
1.25	1.125	4.701	20.367	45.408
1.50	1.375	5.563	24.101	69.509
1.75	1.625	3.852	16.688	86.197
2.00	1.875	2.161	9.362	95.559
2.25	2.125	0.631	2.734	98.293
2.50	2.375	0.186	0.806	99.099
2.75	2.625	0.112	0.485	99.584
3.00	2.875	0.060	0.260	99.844
3.25	3.125	0.022	0.095	99.939
3.50	3.375	0.008	0.035	99.974
3.75	3.625	0.004	0.017	99.991
4.00	3.875	0.001	0.004	99.996
5.00	4.500	0.001	0.004	100.000

Statistical Results			
Mean:	1.2941	phi	(0.4078 mm)
Standard Dev:	0.4561	phi-units	(0.729 mm)
Skewness:	0.1267	dimensionless	
Kurtosis:	3.9978	dimensionless	
5th Moment:	3.5837	dimensionless	
6th Moment:	38.1839	dimensionless	
RARD *	0.3524	dimensionless	
Median	1.1726	phi	(0.4436 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

Calculations based on the Method of Moments
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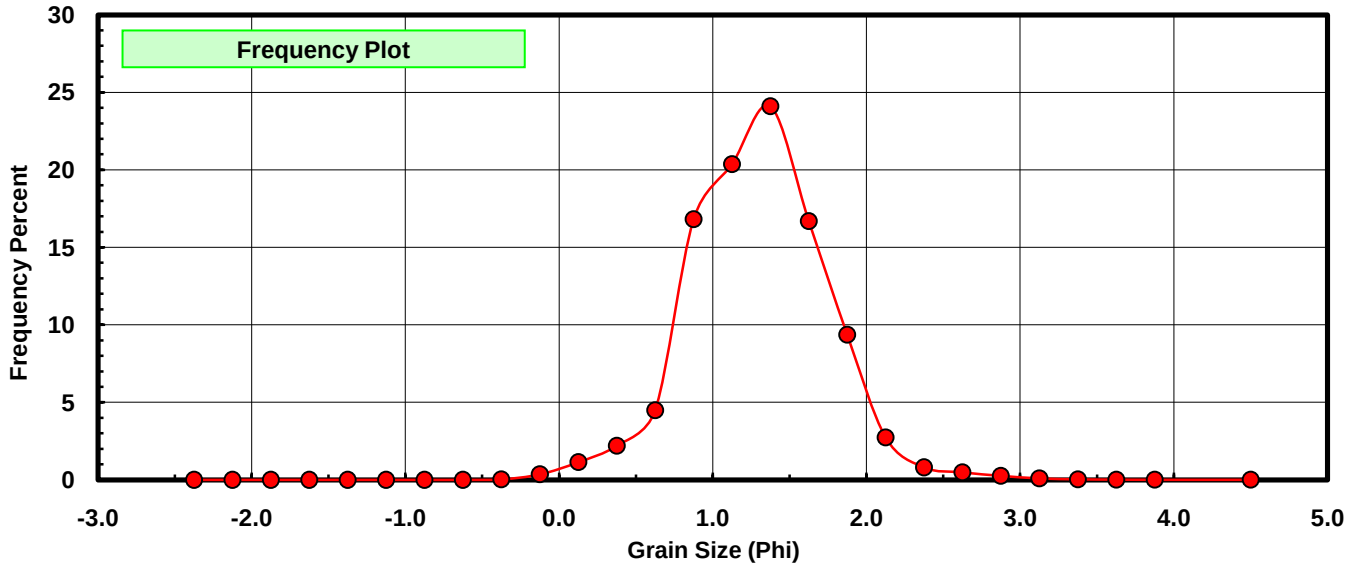

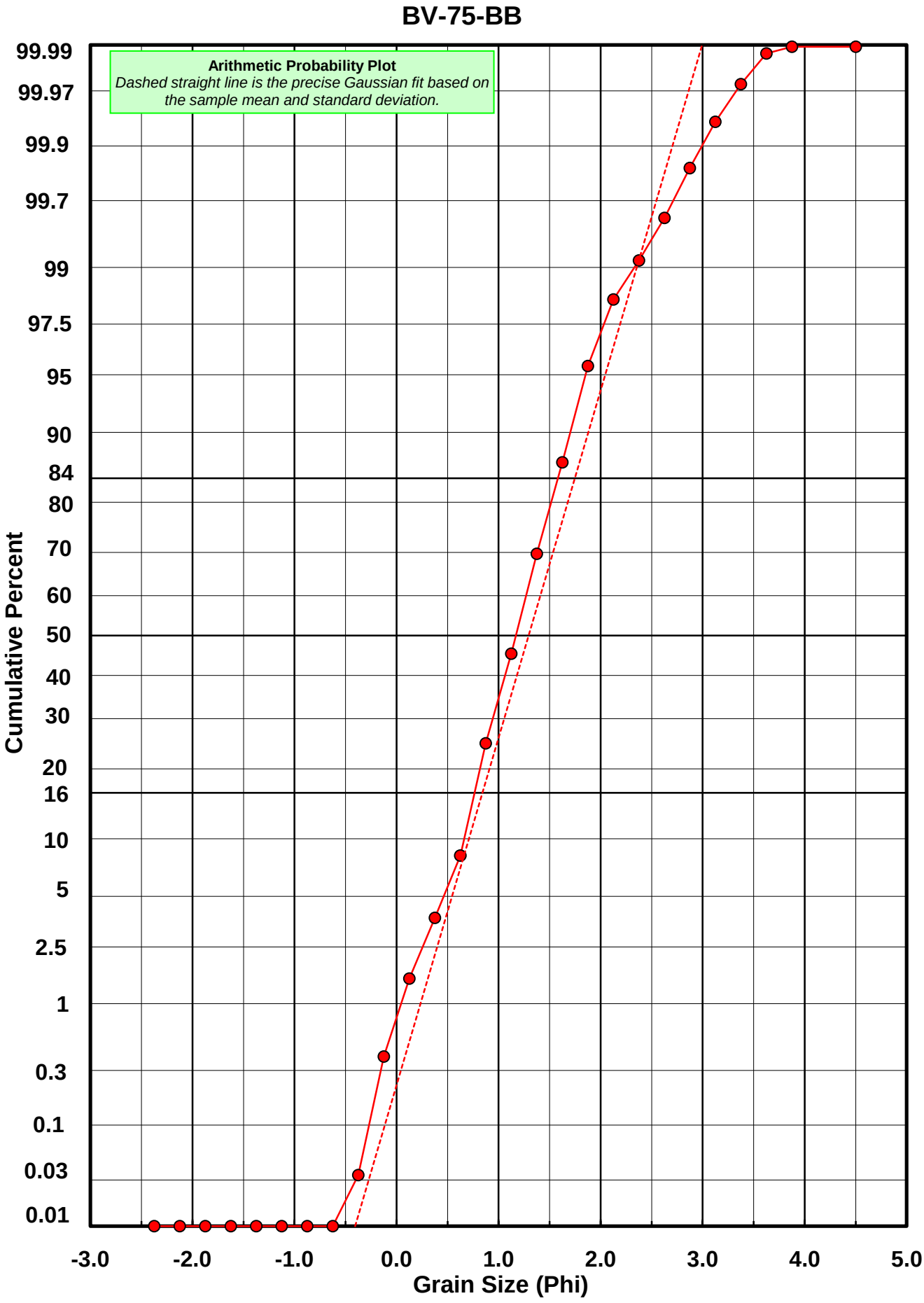
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0.01
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-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)