Onshore Grab Sample

Sample: BV-67-BB
Sample Taken By: D. Phelps
Sample Collected On: 9/24/08
Splits? N/A

County: Brevard
Latitude: 28° 00' 7.9"
Longitude: 80° 31' 31.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	53.35	grams
Total Fines in Sample	0.086	grams
Total Percent Fines	0.16	%

Dry Sieving Summary

Total Sample Weight	53.243	grams
Total Digested Weight	36.192	grams
Total Carbonate Weight	17.051	grams
Total Silica %	67.98	%
Total Carbonate %	32.02	%
Carbonate/Silica Ratio	0.471	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-67-BB

Total Sample Mass: 53.243 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	0.176	0.331	0.331
-1.75	-1.875	0.000	0.000	0.331
-1.50	-1.625	0.000	0.000	0.331
-1.25	-1.375	0.000	0.000	0.331
-1.00	-1.125	0.088	0.165	0.496
-0.75	-0.875	0.175	0.329	0.825
-0.50	-0.625	0.314	0.590	1.414
-0.25	-0.375	0.538	1.010	2.425
0.00	-0.125	0.756	1.420	3.845
0.25	0.125	1.268	2.382	6.226
0.50	0.375	1.962	3.685	9.911
0.75	0.625	3.841	7.214	17.125
1.00	0.875	9.657	18.138	35.263
1.25	1.125	8.927	16.767	52.029
1.50	1.375	9.993	18.769	70.798
1.75	1.625	7.662	14.391	85.189
2.00	1.875	4.928	9.256	94.444
2.25	2.125	2.017	3.788	98.233
2.50	2.375	0.595	1.118	99.350
2.75	2.625	0.215	0.404	99.754
3.00	2.875	0.086	0.162	99.915
3.25	3.125	0.027	0.051	99.966
3.50	3.375	0.009	0.017	99.983
3.75	3.625	0.005	0.009	99.992
4.00	3.875	0.003	0.006	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.1787	phi	(0.4417 mm)
Standard Dev:	0.6088	phi-units	(0.6557 mm)
Skewness:	-0.9518	dimensionless	
Kurtosis:	6.2764	dimensionless	
5th Moment:	-20.2837	dimensionless	
6th Moment:	110.3181	dimensionless	
RARD *	0.5165	dimensionless	
Median	1.0947	phi	(0.4682 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

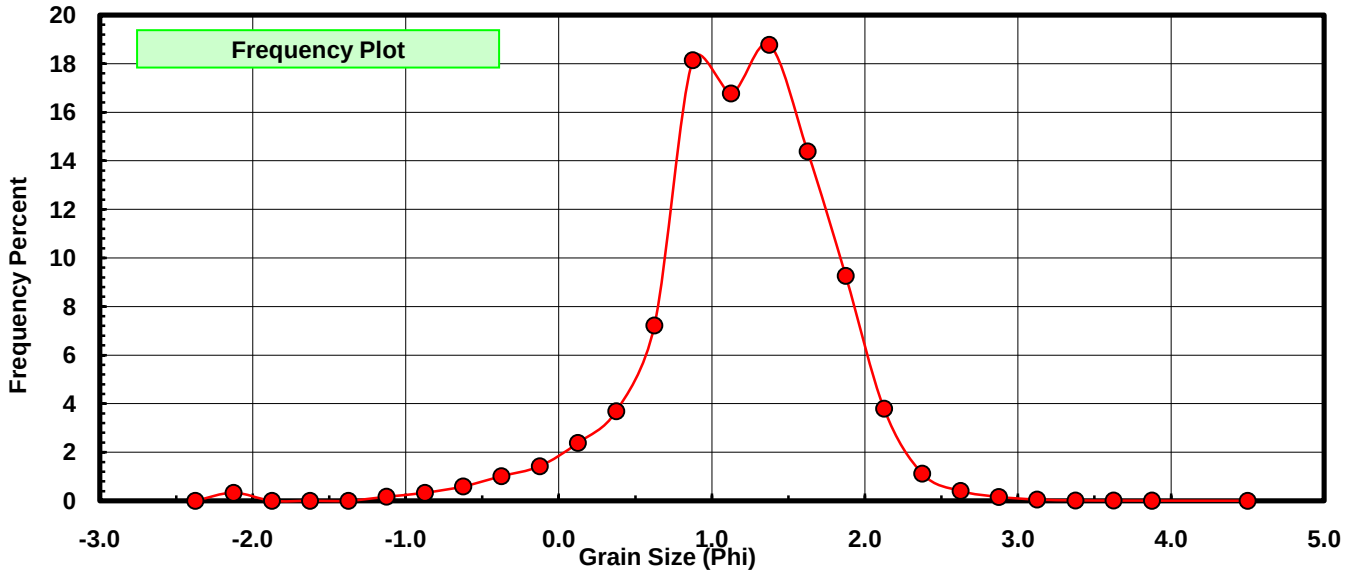
Statistical Explanation

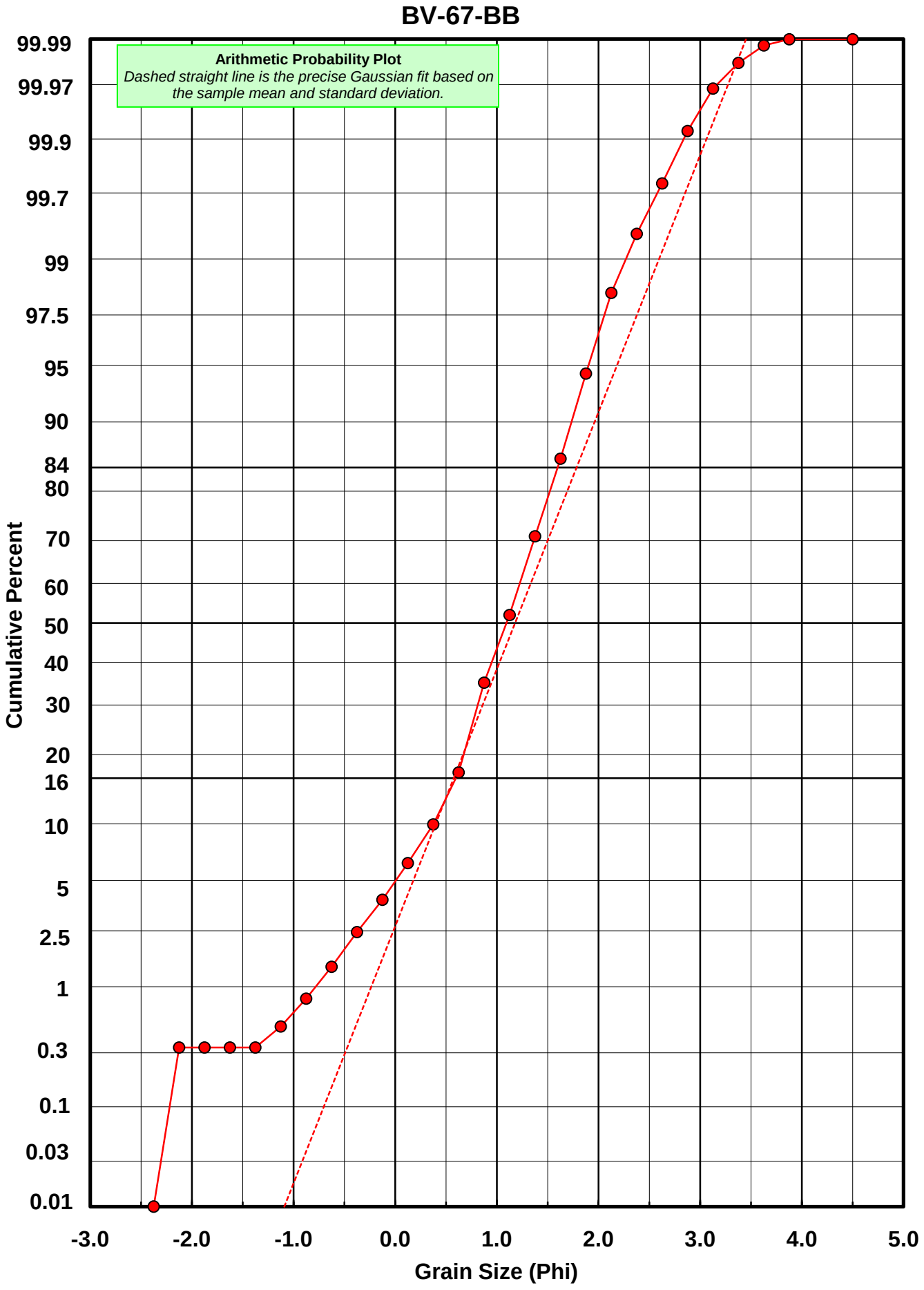
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-67-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-67-BB

Total Carbonate Mass: 17.071 grams

% Carbonate: 32.0 %

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	0.176	1.031	1.031
-1.75	-1.875	0.000	0.000	1.031
-1.50	-1.625	0.000	0.000	1.031
-1.25	-1.375	0.000	0.000	1.031
-1.00	-1.125	0.088	0.515	1.546
-0.75	-0.875	0.175	1.025	2.572
-0.50	-0.625	0.314	1.839	4.411
-0.25	-0.375	0.496	2.906	7.317
0.00	-0.125	0.676	3.960	11.276
0.25	0.125	1.024	5.998	17.275
0.50	0.375	1.220	7.147	24.422
0.75	0.625	1.890	11.071	35.493
1.00	0.875	3.463	20.286	55.779
1.25	1.125	2.381	13.948	69.726
1.50	1.375	2.254	13.204	82.930
1.75	1.625	1.552	9.091	92.022
2.00	1.875	0.877	5.137	97.159
2.25	2.125	0.359	2.103	99.262
2.50	2.375	0.109	0.639	99.900
2.75	2.625	0.015	0.088	99.988
3.00	2.875	0.000	0.000	99.988
3.25	3.125	0.000	0.000	99.988
3.50	3.375	0.000	0.000	99.988
3.75	3.625	0.001	0.006	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:	0.8621	phi	(0.5502 mm)
Standard Dev:	0.7465	phi-units	(0.596 mm)
Skewness:	-0.9448	dimensionless	
Kurtosis:	4.8239	dimensionless	
5th Moment:	-12.8433	dimensionless	
6th Moment:	52.8162	dimensionless	
RARD *	0.8660	dimensionless	
Median	0.8038	phi	(0.5728 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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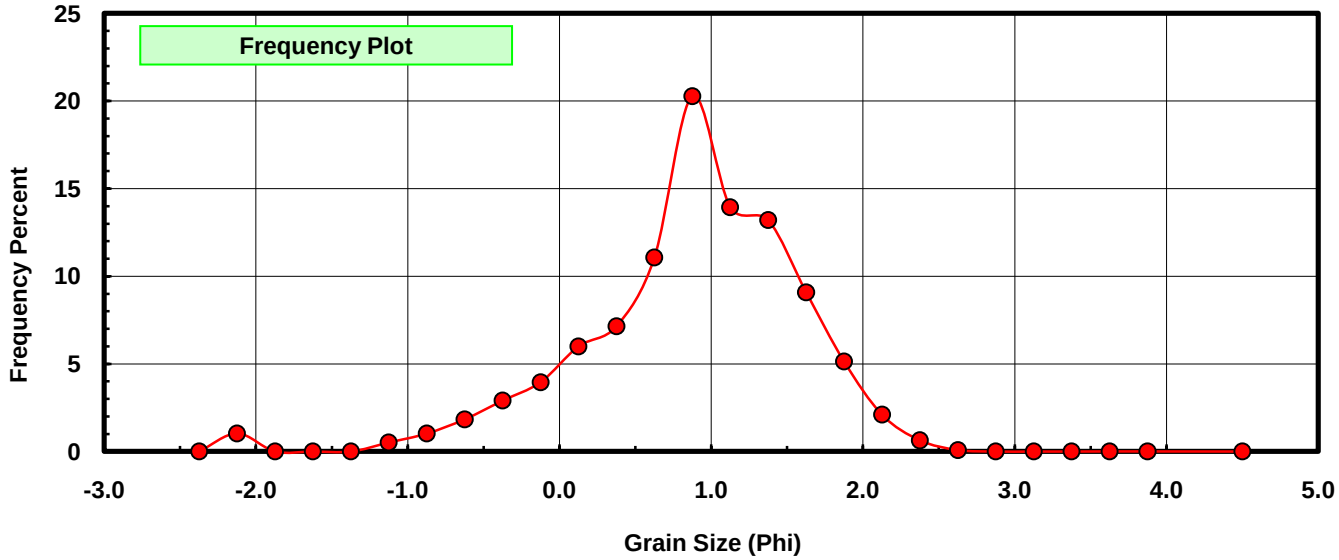

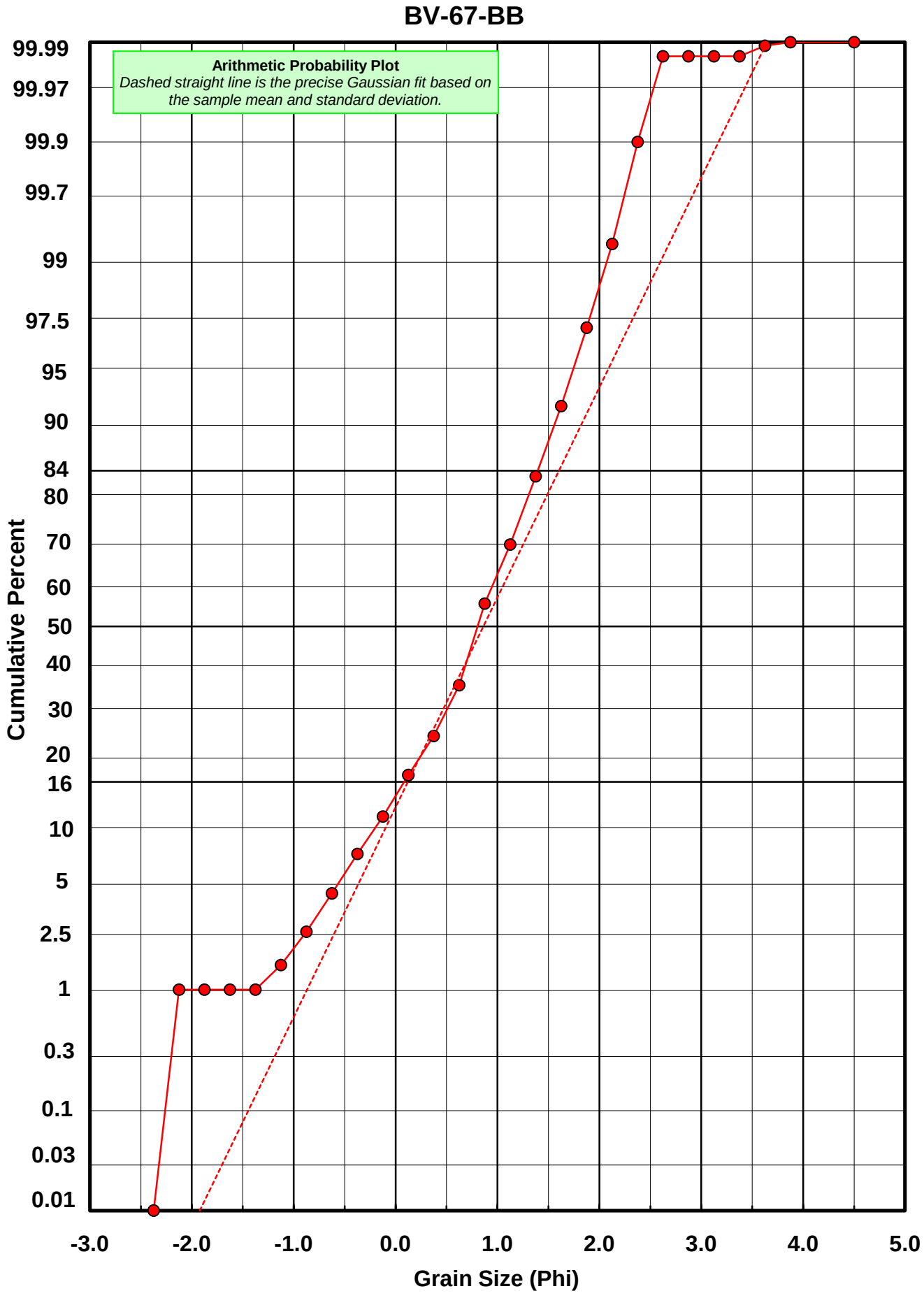
BV-67-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-67-BB

Total Digested Mass: 36.192 grams

% Silica: 68.0 %

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	0.000	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	0.042	0.116	0.116
0.00	-0.125	0.080	0.221	0.337
0.25	0.125	0.244	0.674	1.011
0.50	0.375	0.742	2.050	3.061
0.75	0.625	1.951	5.391	8.452
1.00	0.875	6.194	17.114	25.566
1.25	1.125	6.546	18.087	43.653
1.50	1.375	7.739	21.383	65.036
1.75	1.625	6.110	16.882	81.919
2.00	1.875	4.051	11.193	93.112
2.25	2.125	1.658	4.581	97.693
2.50	2.375	0.486	1.343	99.036
2.75	2.625	0.200	0.553	99.588
3.00	2.875	0.092	0.254	99.843
3.25	3.125	0.034	0.094	99.936
3.50	3.375	0.015	0.041	99.978
3.75	3.625	0.004	0.011	99.989
4.00	3.875	0.002	0.006	99.994
5.00	4.500	0.002	0.006	100.000

Statistical Results			
Mean:	1.3292	phi	(0.398 mm)
Standard Dev:	0.4756	phi-units	(0.7192 mm)
Skewness:	0.1617	dimensionless	
Kurtosis:	3.5269	dimensionless	
5th Moment:	2.7830	dimensionless	
6th Moment:	29.8444	dimensionless	
RARD *	0.3578	dimensionless	
Median	1.1992	phi	(0.4355 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation

Calculations based on the Method of Moments
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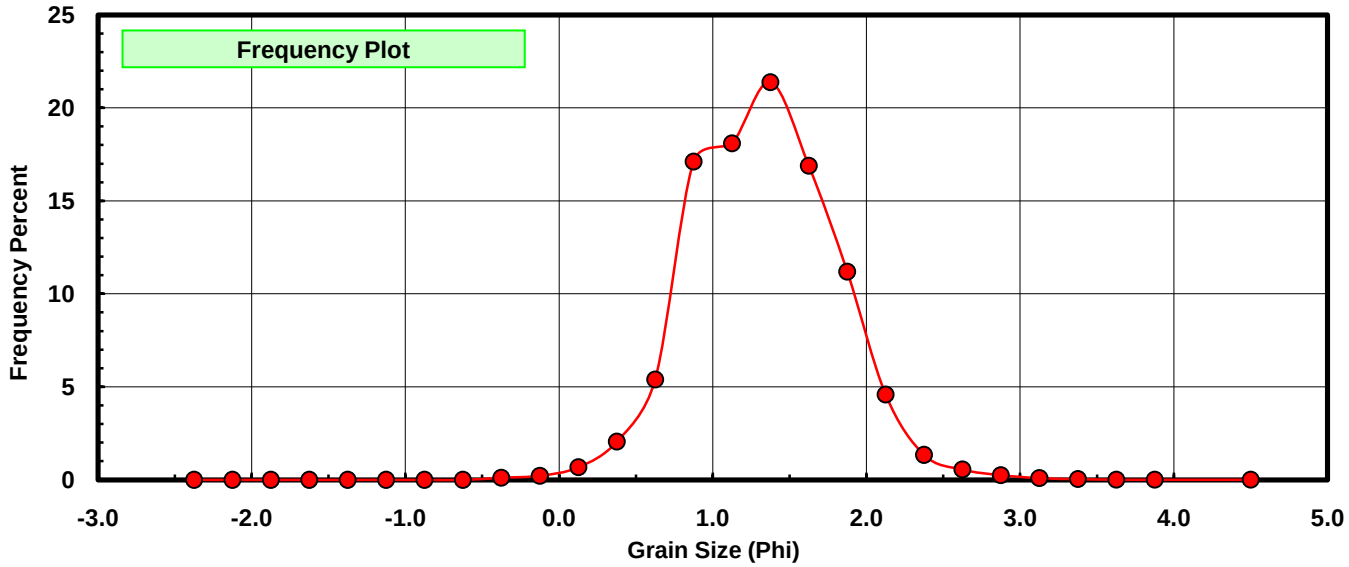

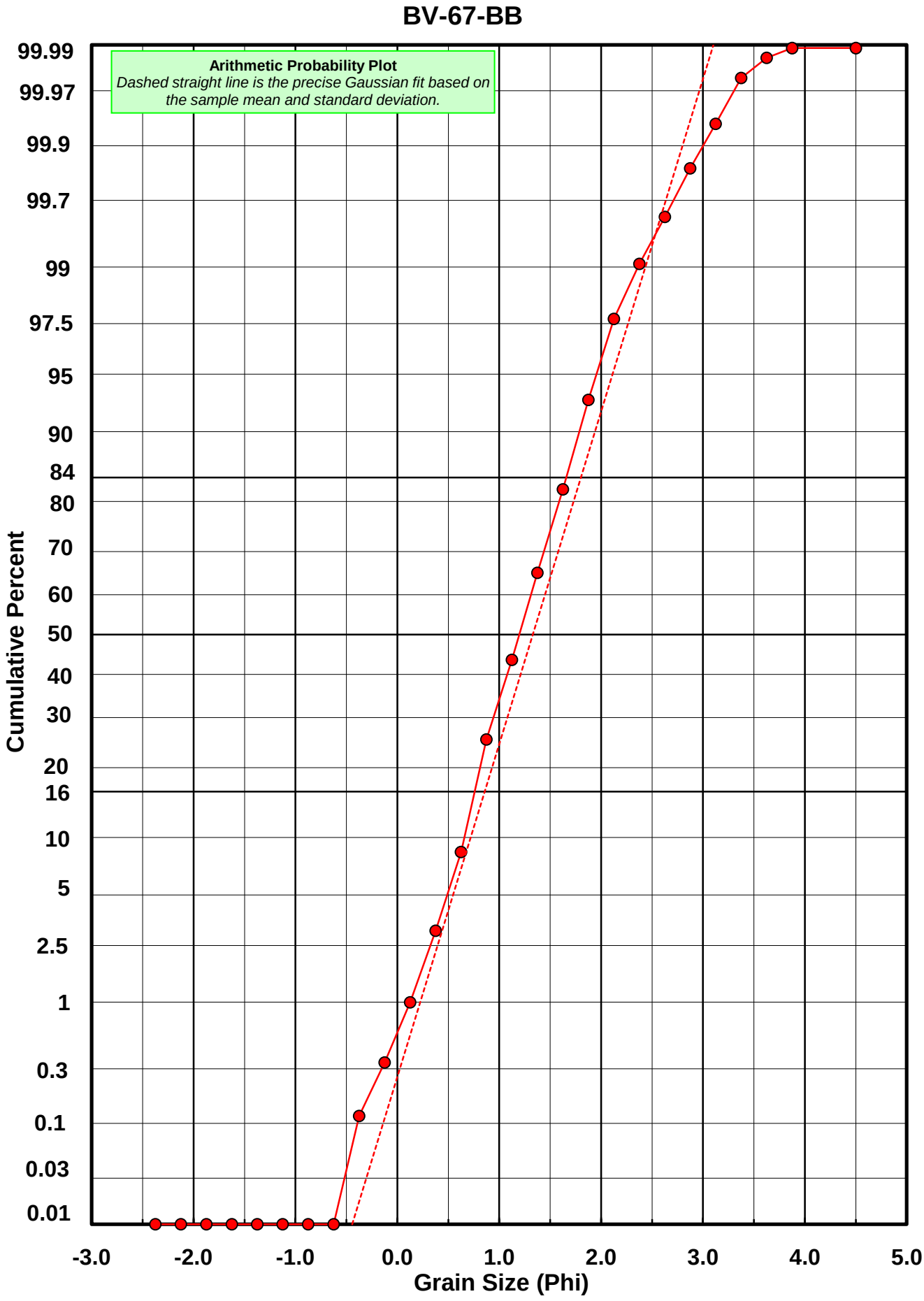
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5.0
Grain Size (Phi)