Onshore Grab Sample

Sample: BV-20-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/18/09
Splits? N/A

County: Brevard
Latitude: 28° 33' 47.0"
Longitude: 80° 34' 05.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	60.578	grams
Total Fines in Sample	0.095	grams
Total Percent Fines	0.16	%

Dry Sieving Summary

Total Sample Weight	60.408	grams
Total Digested Weight	47.227	grams
Total Carbonate Weight	13.181	grams
Total Silica %	78.18	%
Total Carbonate %	21.82	%
Carbonate/Silica Ratio	0.279	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-20-BB

Total Sample Mass: 60.408 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	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.032	0.053	0.053
-0.25	-0.375	0.100	0.166	0.219
0.00	-0.125	0.351	0.581	0.800
0.25	0.125	0.990	1.639	2.438
0.50	0.375	2.301	3.809	6.248
0.75	0.625	3.955	6.547	12.795
1.00	0.875	9.710	16.074	28.869
1.25	1.125	8.925	14.775	43.643
1.50	1.375	11.286	18.683	62.326
1.75	1.625	9.399	15.559	77.885
2.00	1.875	6.376	10.555	88.440
2.25	2.125	3.538	5.857	94.297
2.50	2.375	1.700	2.814	97.111
2.75	2.625	1.031	1.707	98.818
3.00	2.875	0.513	0.849	99.667
3.25	3.125	0.141	0.233	99.901
3.50	3.375	0.040	0.066	99.967
3.75	3.625	0.013	0.022	99.988
4.00	3.875	0.006	0.010	99.998
5.00	4.50	0.001	0.002	100.000

Statistical Results			
Mean:	1.3413	phi	(0.3947 mm)
Standard Dev:	0.5737	phi-units	(0.6719 mm)
Skewness:	0.1759	dimensionless	
Kurtosis:	3.2570	dimensionless	
5th Moment:	1.7944	dimensionless	
6th Moment:	18.7547	dimensionless	
RARD *	0.4277	dimensionless	
Median	1.2101	phi	(0.4323 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

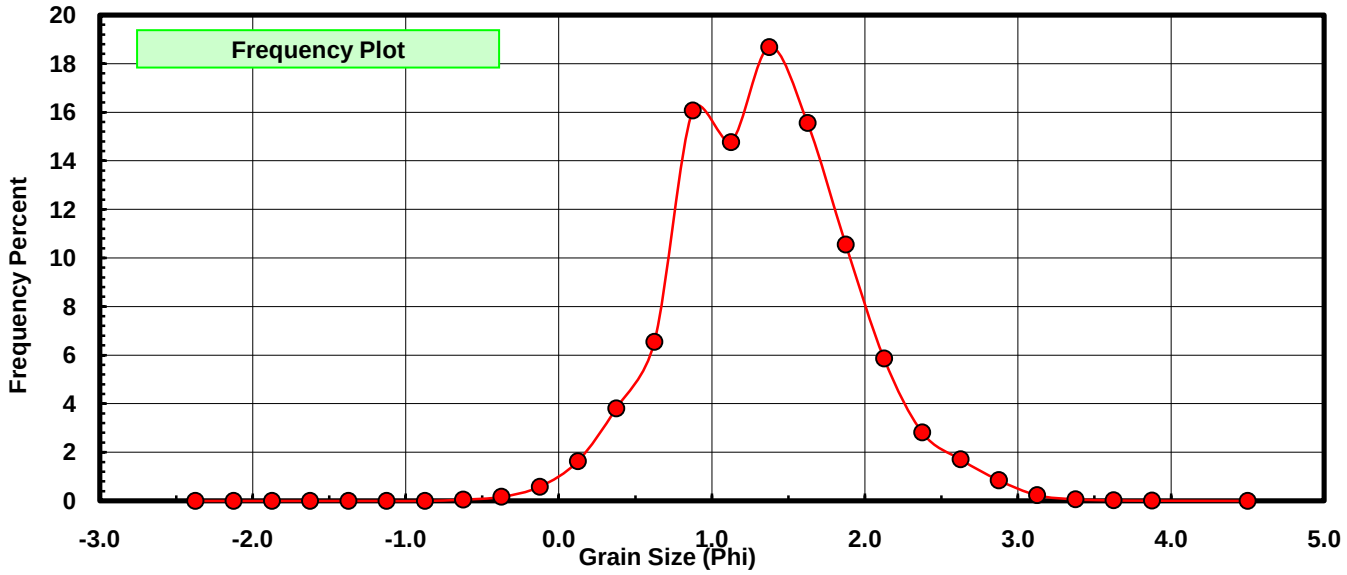
Statistical Explanation

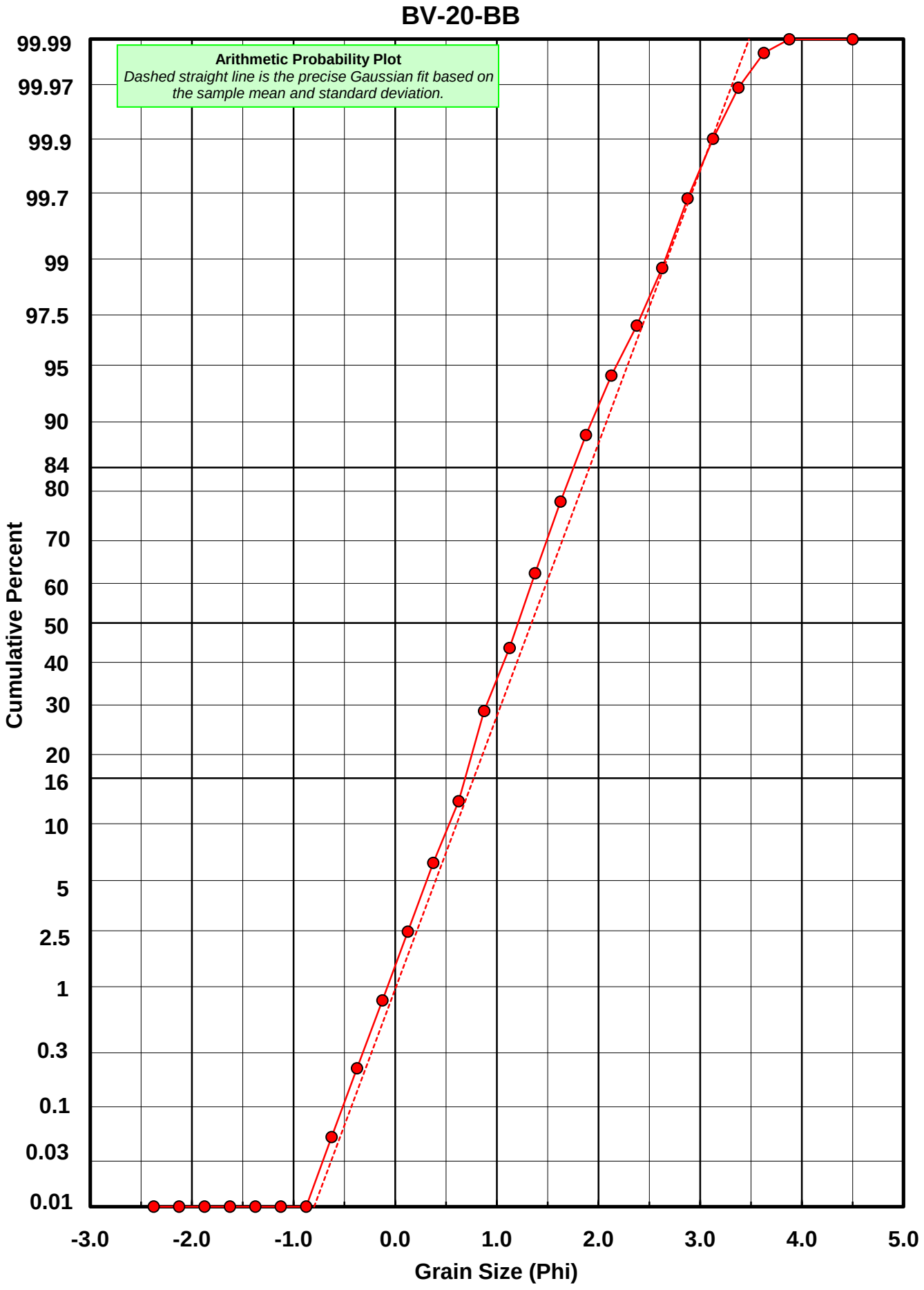
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-20-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-20-BB

Total Carbonate Mass: 13.188 grams

% Carbonate: 21.8 %

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	0.000	0.000	0.000
-0.75	-0.875	0.000	0.000	0.000
-0.50	-0.625	0.032	0.243	0.243
-0.25	-0.375	0.100	0.758	1.001
0.00	-0.125	0.320	2.426	3.427
0.25	0.125	0.709	5.376	8.803
0.50	0.375	1.348	10.221	19.025
0.75	0.625	1.649	12.504	31.529
1.00	0.875	2.599	19.707	51.236
1.25	1.125	2.177	16.507	67.743
1.50	1.375	2.022	15.332	83.076
1.75	1.625	1.076	8.159	91.234
2.00	1.875	0.398	3.018	94.252
2.25	2.125	0.443	3.359	97.611
2.50	2.375	0.204	1.547	99.158
2.75	2.625	0.063	0.478	99.636
3.00	2.875	0.037	0.281	99.917
3.25	3.125	0.002	0.015	99.932
3.50	3.375	0.007	0.053	99.985
3.75	3.625	0.000	0.000	99.985
4.00	3.875	0.002	0.015	100.000
5.00	4.500	0.000	0.000	100.000

Statistical Results			
Mean:	1.0055	phi	(0.4981 mm)
Standard Dev:	0.5989	phi-units	(0.6603 mm)
Skewness:	0.2501	dimensionless	
Kurtosis:	3.1292	dimensionless	
5th Moment:	2.8030	dimensionless	
6th Moment:	17.9447	dimensionless	
RARD *	0.5956	dimensionless	
Median	0.8593	phi	(0.5512 mm)

* RARD = reciprocal absolute relative dispersion (see below)

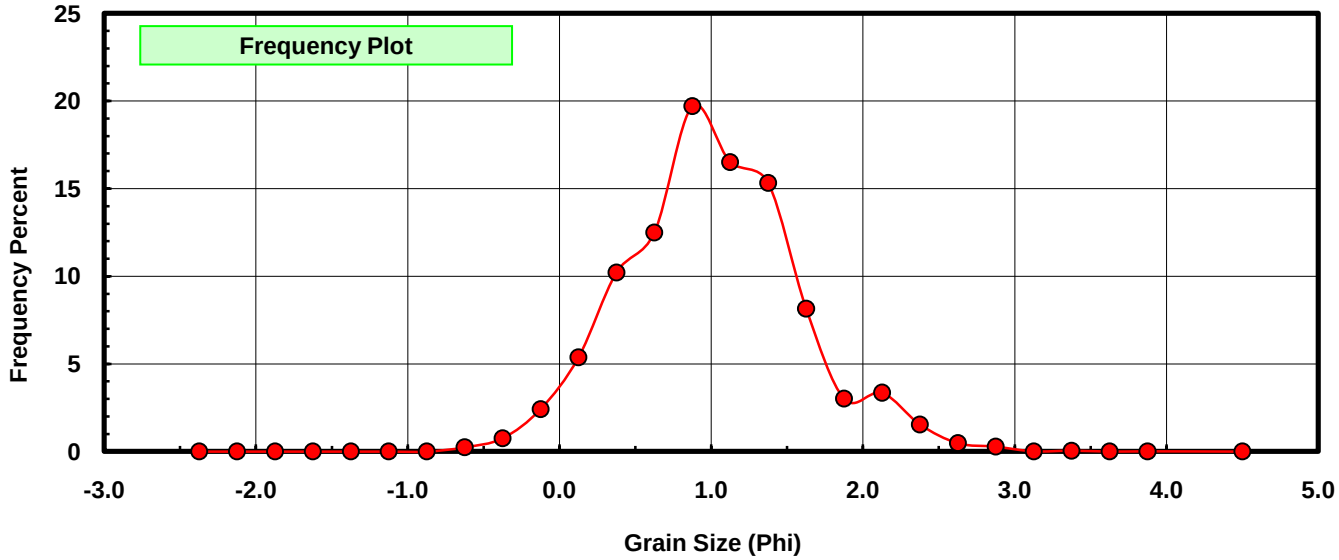
Statistical Explanation

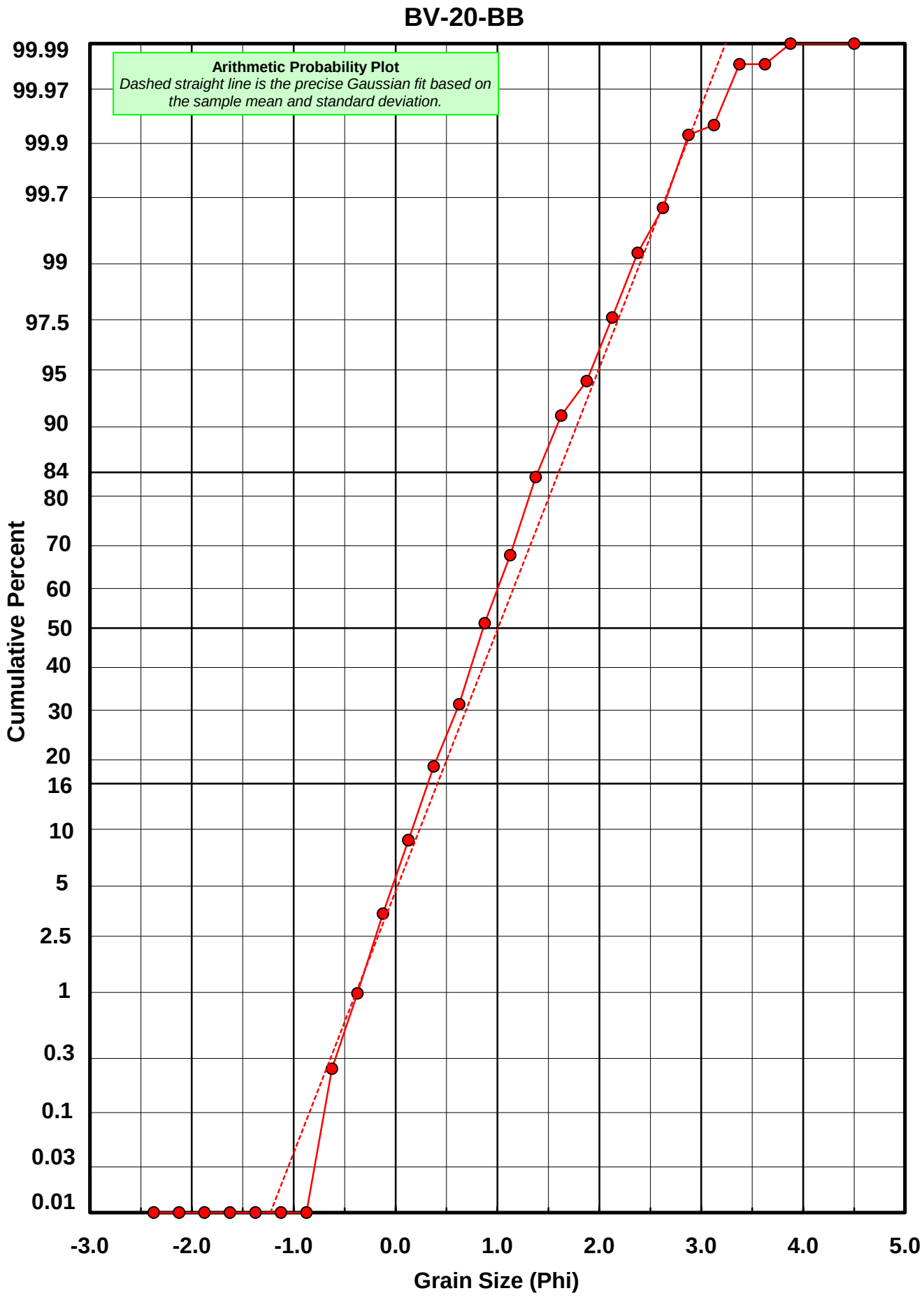
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-20-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-20-BB

Total Digested Mass: 47.227 grams

% Silica: 78.2 %

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	0.000	0.000	0.000
0.00	-0.125	0.031	0.066	0.066
0.25	0.125	0.281	0.595	0.661
0.50	0.375	0.953	2.018	2.679
0.75	0.625	2.306	4.883	7.561
1.00	0.875	7.111	15.057	22.618
1.25	1.125	6.748	14.288	36.907
1.50	1.375	9.264	19.616	56.523
1.75	1.625	8.323	17.623	74.146
2.00	1.875	5.978	12.658	86.804
2.25	2.125	3.095	6.553	93.358
2.50	2.375	1.496	3.168	96.525
2.75	2.625	0.968	2.050	98.575
3.00	2.875	0.476	1.008	99.583
3.25	3.125	0.139	0.294	99.877
3.50	3.375	0.033	0.070	99.947
3.75	3.625	0.013	0.028	99.975
4.00	3.875	0.004	0.008	99.983
5.00	4.500	0.008	0.017	100.000

Statistical Results			
Mean:	1.4356	phi	(0.3697 mm)
Standard Dev:	0.5373	phi-units	(0.689 mm)
Skewness:	0.3666	dimensionless	
Kurtosis:	3.3224	dimensionless	
5th Moment:	4.3604	dimensionless	
6th Moment:	23.7051	dimensionless	
RARD *	0.3743	dimensionless	
Median	1.2919	phi	(0.4084 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

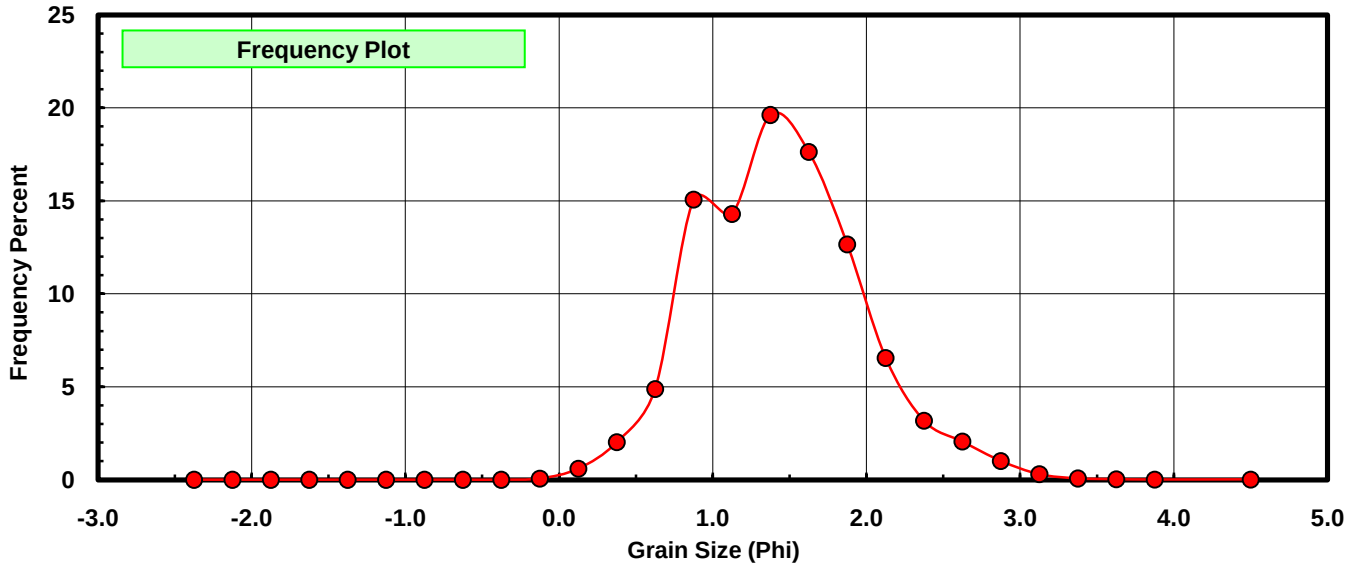
Statistical Explanation

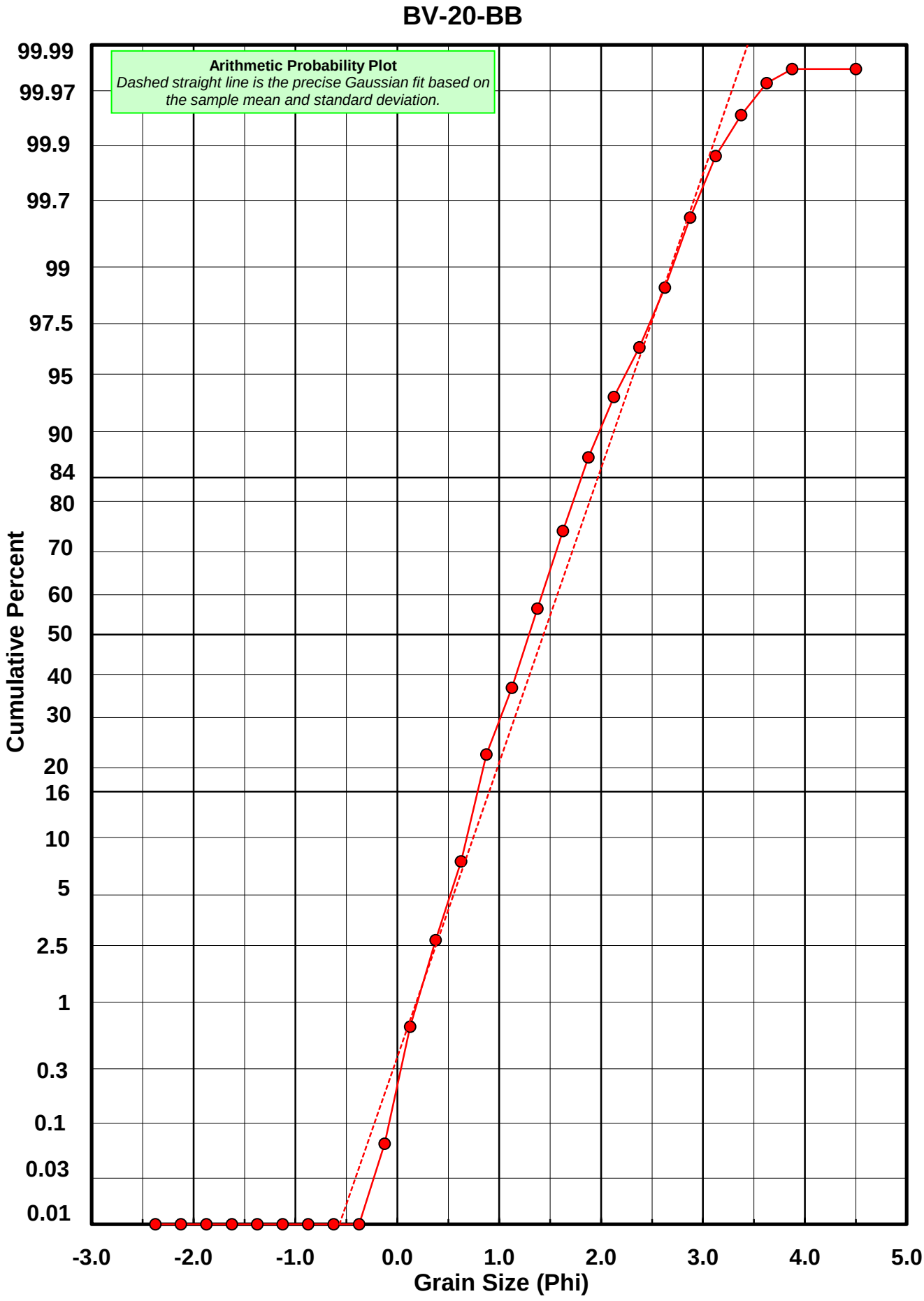
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-20-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)