Onshore Grab Sample

Sample: BV-30-BB
Sample Taken By: D. Phelps
Sample Collected On: 3/18/09
Splits? N/A

County: Brevard
Latitude: 28° 26' 47.2"
Longitude: 80° 32' 29.8"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	53.068	grams
Total Fines in Sample	0.120	grams
Total Percent Fines	0.23	%

Dry Sieving Summary

Total Sample Weight	52.901	grams
Total Digested Weight	42.775	grams
Total Carbonate Weight	10.126	grams
Total Silica %	80.86	%
Total Carbonate %	19.14	%
Carbonate/Silica Ratio	0.237	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-30-BB

Total Sample Mass: 52.901 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	0.003	0.006	0.006
-1.00	-1.125	0.014	0.026	0.032
-0.75	-0.875	0.028	0.053	0.085
-0.50	-0.625	0.059	0.112	0.197
-0.25	-0.375	0.083	0.157	0.353
0.00	-0.125	0.156	0.295	0.648
0.25	0.125	0.363	0.686	1.335
0.50	0.375	0.716	1.353	2.688
0.75	0.625	1.248	2.359	5.047
1.00	0.875	3.893	7.359	12.406
1.25	1.125	5.338	10.091	22.497
1.50	1.375	9.340	17.656	40.152
1.75	1.625	7.684	14.525	54.678
2.00	1.875	6.798	12.850	67.528
2.25	2.125	5.362	10.136	77.664
2.50	2.375	4.188	7.917	85.581
2.75	2.625	4.237	8.009	93.590
3.00	2.875	2.388	4.514	98.104
3.25	3.125	0.771	1.457	99.561
3.50	3.375	0.182	0.344	99.905
3.75	3.625	0.042	0.079	99.985
4.00	3.875	0.006	0.011	99.996
5.00	4.50	0.002	0.004	100.000

Statistical Results			
Mean:	1.7199	phi	(0.3036 mm)
Standard Dev:	0.6632	phi-units	(0.6315 mm)
Skewness:	-0.0251	dimensionless	
Kurtosis:	2.9988	dimensionless	
5th Moment:	-1.8632	dimensionless	
6th Moment:	17.4765	dimensionless	
RARD *	0.3856	dimensionless	
Median	1.5445	phi	(0.3428 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

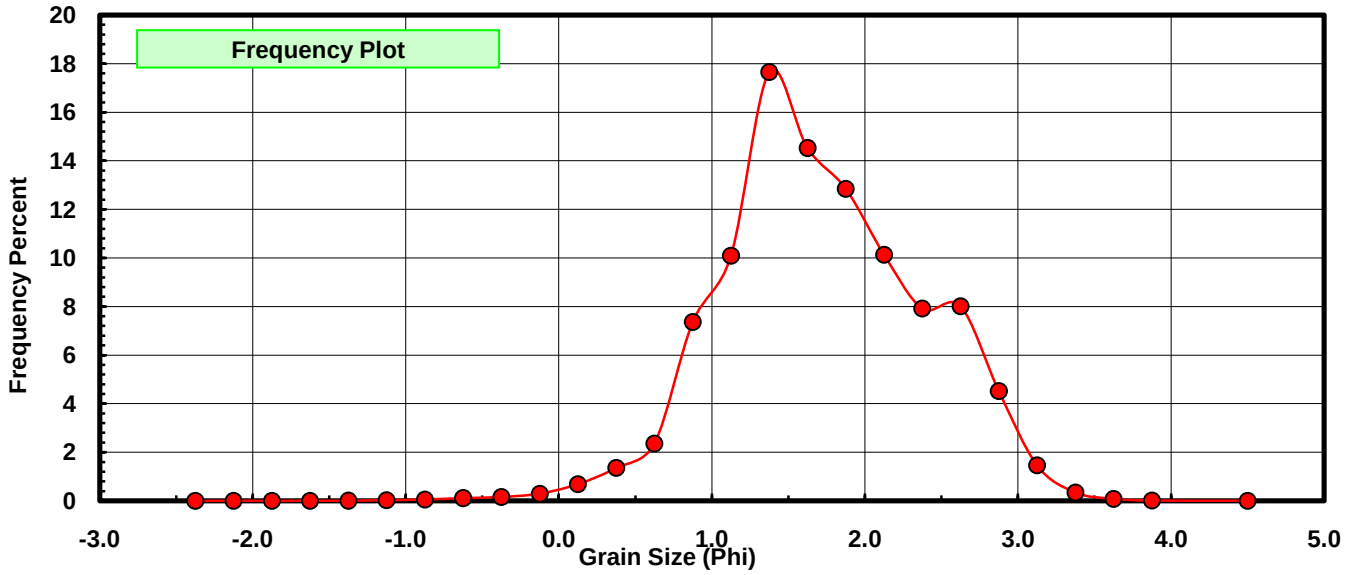
Statistical Explanation

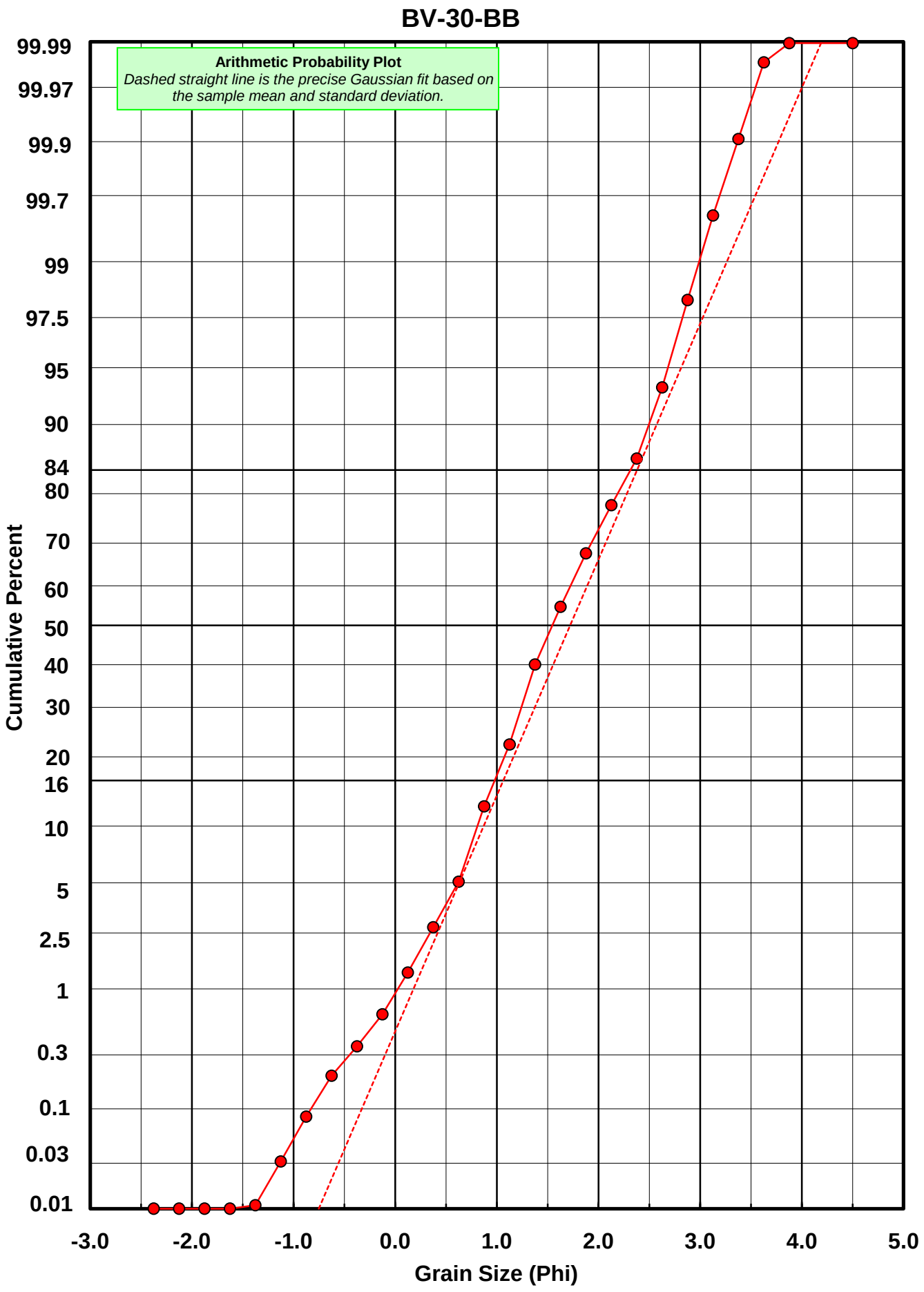
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-30-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-30-BB

Total Carbonate Mass: 10.246 grams

% Carbonate: 19.1 %

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	0.003	0.029	0.029
-1.00	-1.125	0.014	0.137	0.166
-0.75	-0.875	0.028	0.273	0.439
-0.50	-0.625	0.059	0.576	1.015
-0.25	-0.375	0.076	0.742	1.757
0.00	-0.125	0.119	1.161	2.918
0.25	0.125	0.241	2.352	5.270
0.50	0.375	0.401	3.914	9.184
0.75	0.625	0.477	4.655	13.840
1.00	0.875	1.407	13.732	27.572
1.25	1.125	1.501	14.650	42.221
1.50	1.375	2.470	24.107	66.328
1.75	1.625	0.657	6.412	72.741
2.00	1.875	1.001	9.770	82.510
2.25	2.125	0.768	7.496	90.006
2.50	2.375	0.274	2.674	92.680
2.75	2.625	0.686	6.695	99.375
3.00	2.875	0.000	0.000	99.375
3.25	3.125	0.047	0.459	99.834
3.50	3.375	0.008	0.078	99.912
3.75	3.625	0.009	0.088	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:	1.3571	phi	(0.3904 mm)
Standard Dev:	0.7181	phi-units	(0.6079 mm)
Skewness:	-0.1183	dimensionless	
Kurtosis:	3.2333	dimensionless	
5th Moment:	-2.2354	dimensionless	
6th Moment:	17.9116	dimensionless	
RARD *	0.5291	dimensionless	
Median	1.2057	phi	(0.4336 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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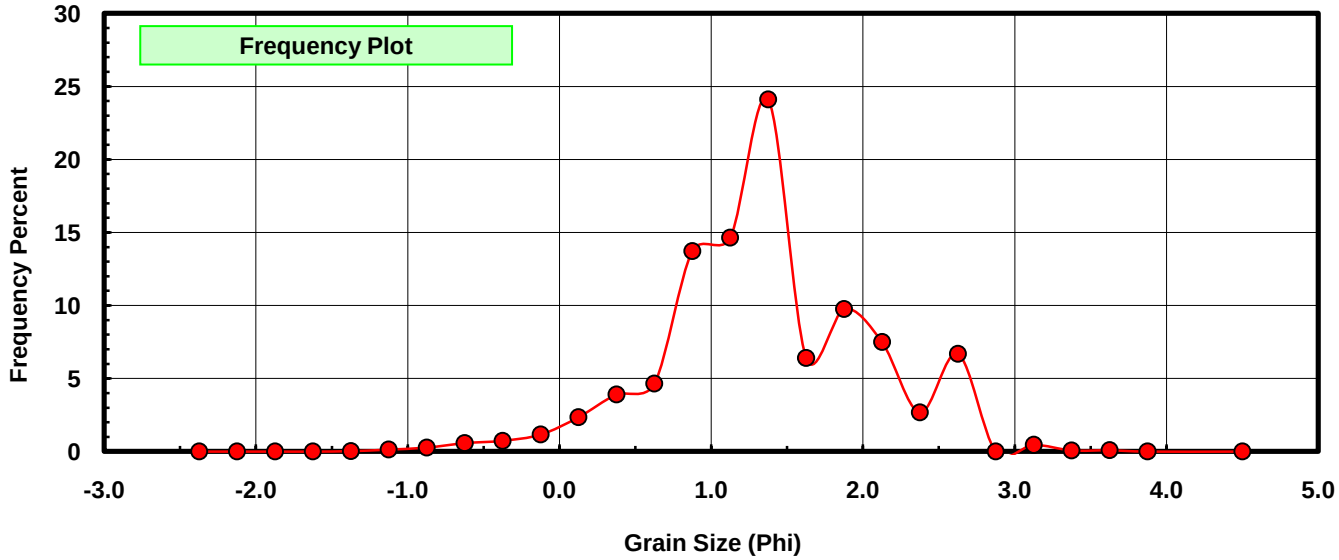

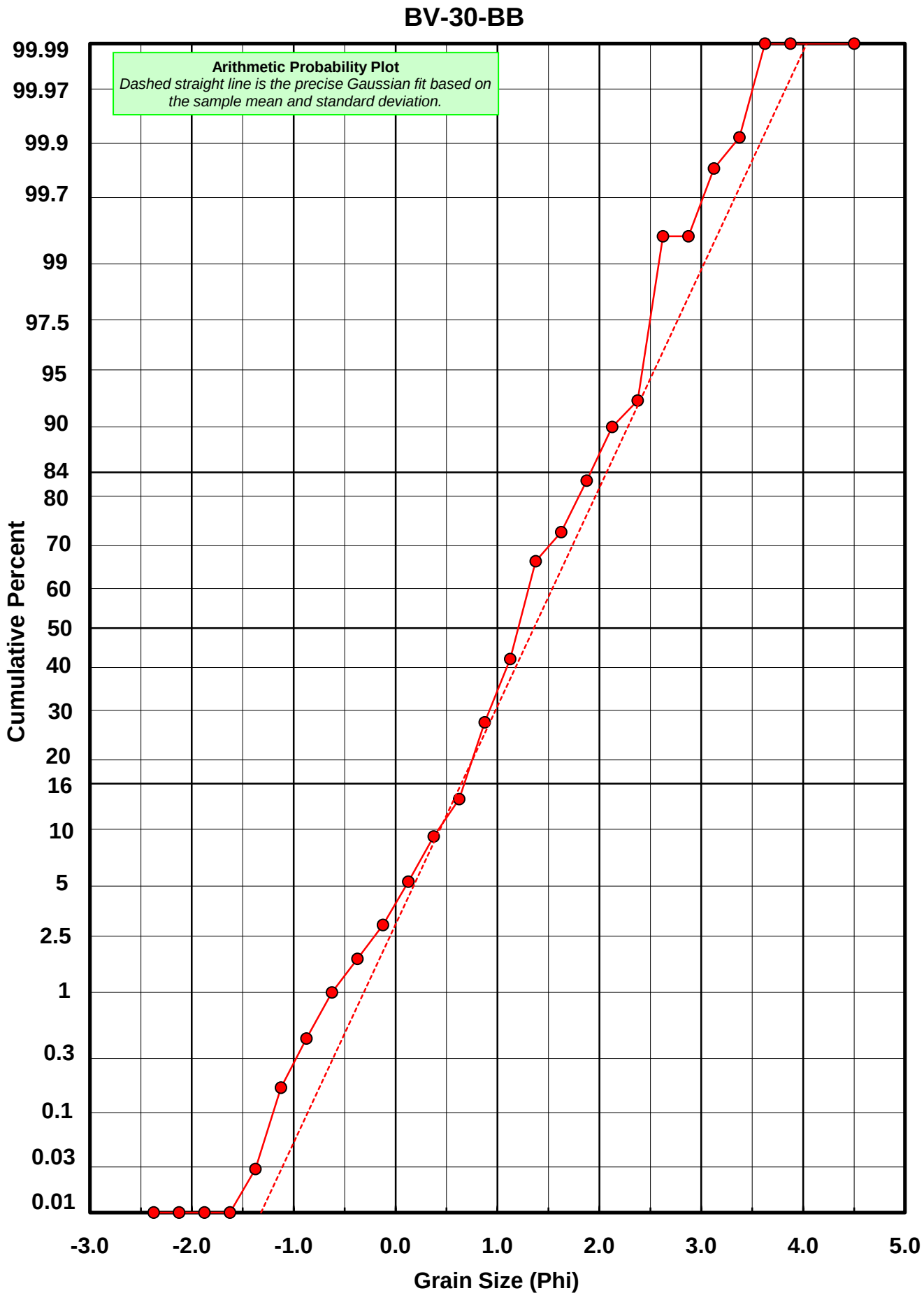
BV-30-BB
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
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99.7
99
97.5
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84
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50
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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-30-BB

Total Digested Mass: 42.775 grams

% Silica: 80.9 %

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	0.007	0.016	0.016
0.00	-0.125	0.037	0.086	0.103
0.25	0.125	0.122	0.285	0.388
0.50	0.375	0.315	0.736	1.124
0.75	0.625	0.771	1.802	2.927
1.00	0.875	2.486	5.812	8.739
1.25	1.125	3.837	8.970	17.709
1.50	1.375	6.870	16.061	33.770
1.75	1.625	7.027	16.428	50.198
2.00	1.875	5.797	13.552	63.750
2.25	2.125	4.594	10.740	74.490
2.50	2.375	3.914	9.150	83.640
2.75	2.625	3.551	8.302	91.942
3.00	2.875	2.494	5.831	97.772
3.25	3.125	0.724	1.693	99.465
3.50	3.375	0.174	0.407	99.871
3.75	3.625	0.033	0.077	99.949
4.00	3.875	0.010	0.023	99.972
5.00	4.500	0.012	0.028	100.000

Statistical Results			
Mean:	1.8105	phi	(0.2851 mm)
Standard Dev:	0.6303	phi-units	(0.646 mm)
Skewness:	0.1508	dimensionless	
Kurtosis:	2.5946	dimensionless	
5th Moment:	0.6956	dimensionless	
6th Moment:	11.4851	dimensionless	
RARD *	0.3481	dimensionless	
Median	1.6220	phi	(0.3249 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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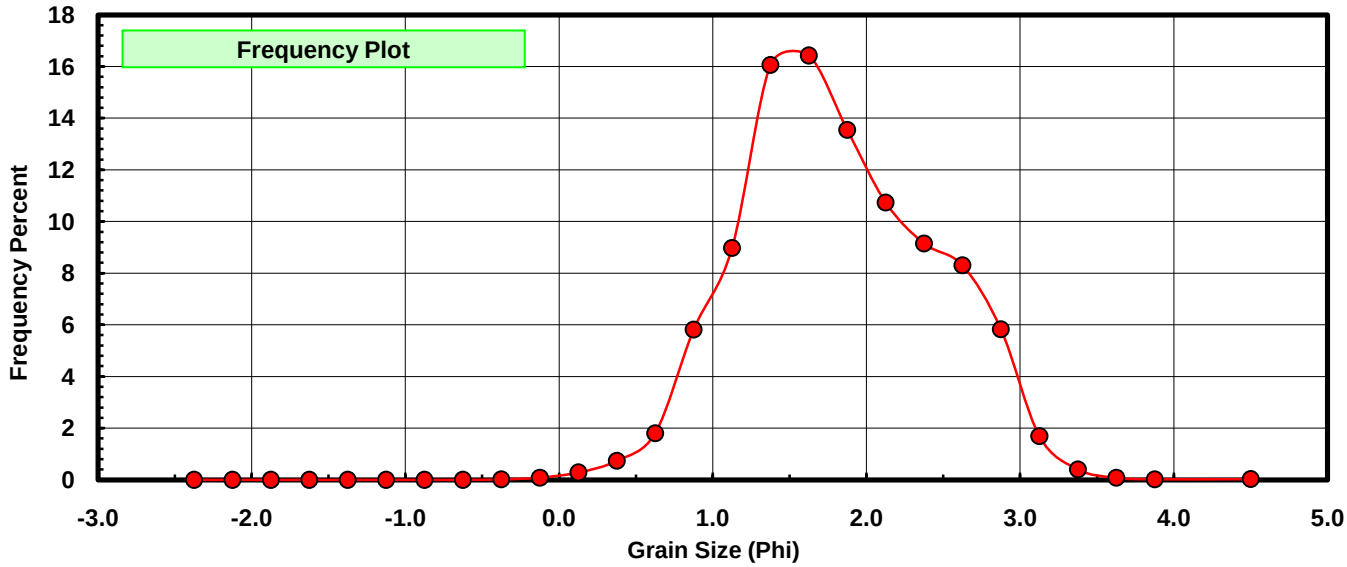
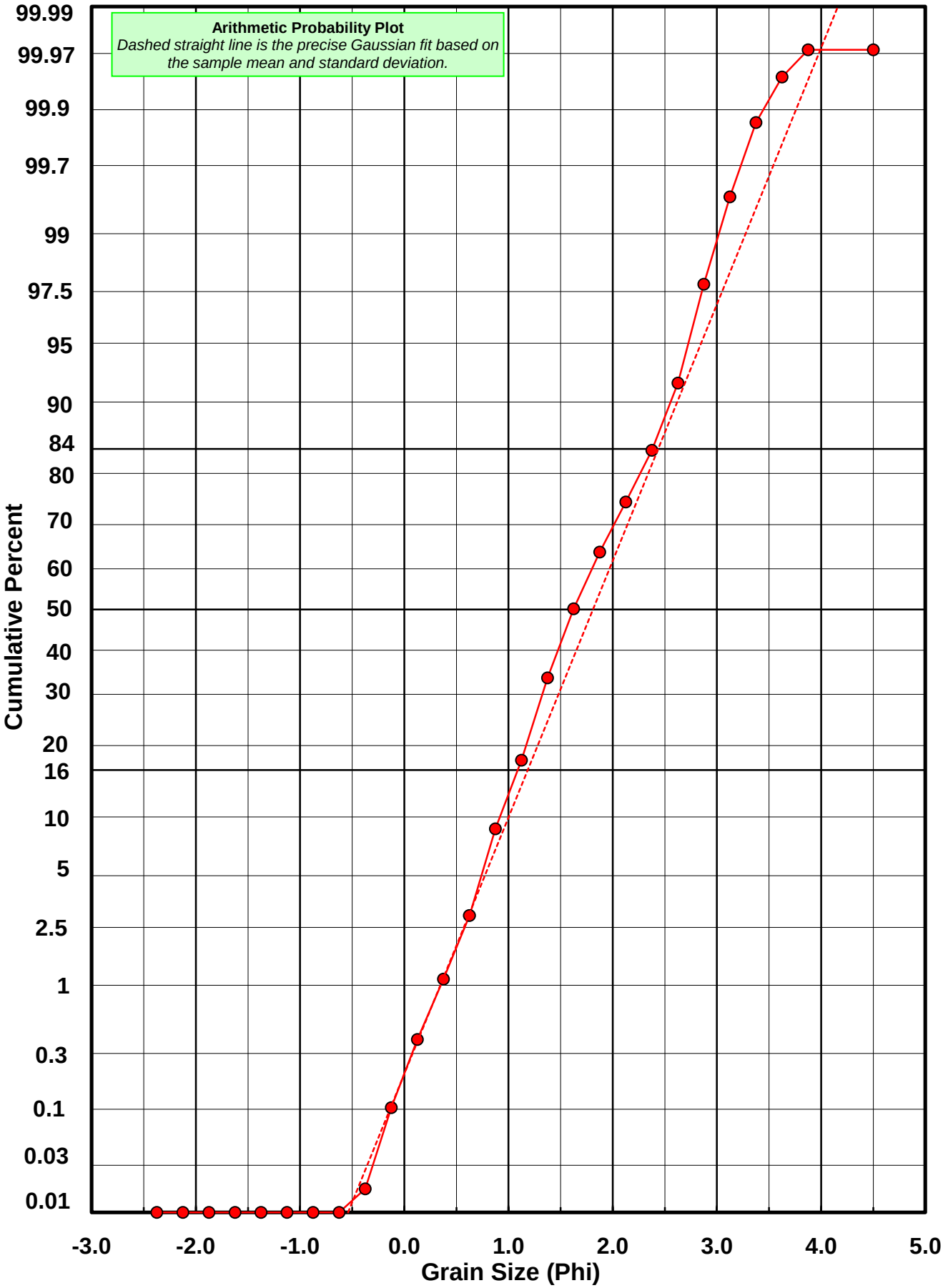


BV-30-BB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0.03
0.01
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-2.0
-1.0
0.0
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5.0
Grain Size (Phi)