Onshore Grab Sample

Sample: BV-50
Sample Taken By: D. Phelps
Sample Collected On: 9/25/08
Splits? N/A

County: Brevard
Latitude: 28° 12' 50.0"
Longitude: 80° 35' 49.6"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	63.972	grams
Total Fines in Sample	0.381	grams
Total Percent Fines	0.59	%

Dry Sieving Summary

Total Sample Weight	63.564	grams
Total Digested Weight	52.075	grams
Total Carbonate Weight	11.489	grams
Total Silica %	81.93	%
Total Carbonate %	18.07	%
Carbonate/Silica Ratio	0.221	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-50

Total Sample Mass: 63.564 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	0.005	0.008	0.008
-1.00	-1.125	0.011	0.017	0.025
-0.75	-0.875	0.015	0.024	0.049
-0.50	-0.625	0.024	0.038	0.087
-0.25	-0.375	0.010	0.016	0.102
0.00	-0.125	0.034	0.053	0.156
0.25	0.125	0.066	0.104	0.260
0.50	0.375	0.072	0.113	0.373
0.75	0.625	0.239	0.376	0.749
1.00	0.875	1.608	2.530	3.279
1.25	1.125	5.124	8.061	11.340
1.50	1.375	13.627	21.438	32.778
1.75	1.625	17.801	28.005	60.783
2.00	1.875	14.330	22.544	83.327
2.25	2.125	6.495	10.218	93.545
2.50	2.375	2.158	3.395	96.940
2.75	2.625	1.052	1.655	98.595
3.00	2.875	0.627	0.986	99.582
3.25	3.125	0.205	0.323	99.904
3.50	3.375	0.051	0.080	99.984
3.75	3.625	0.007	0.011	99.995
4.00	3.875	0.001	0.002	99.997
5.00	4.50	0.002	0.003	100.000

Statistical Results			
Mean:	1.6704	phi	(0.3142 mm)
Standard Dev:	0.4063	phi-units	(0.7546 mm)
Skewness:	0.1486	dimensionless	
Kurtosis:	5.6460	dimensionless	
5th Moment:	-5.2420	dimensionless	
6th Moment:	101.5353	dimensionless	
RARD *	0.2432	dimensionless	
Median	1.5287	phi	(0.3466 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

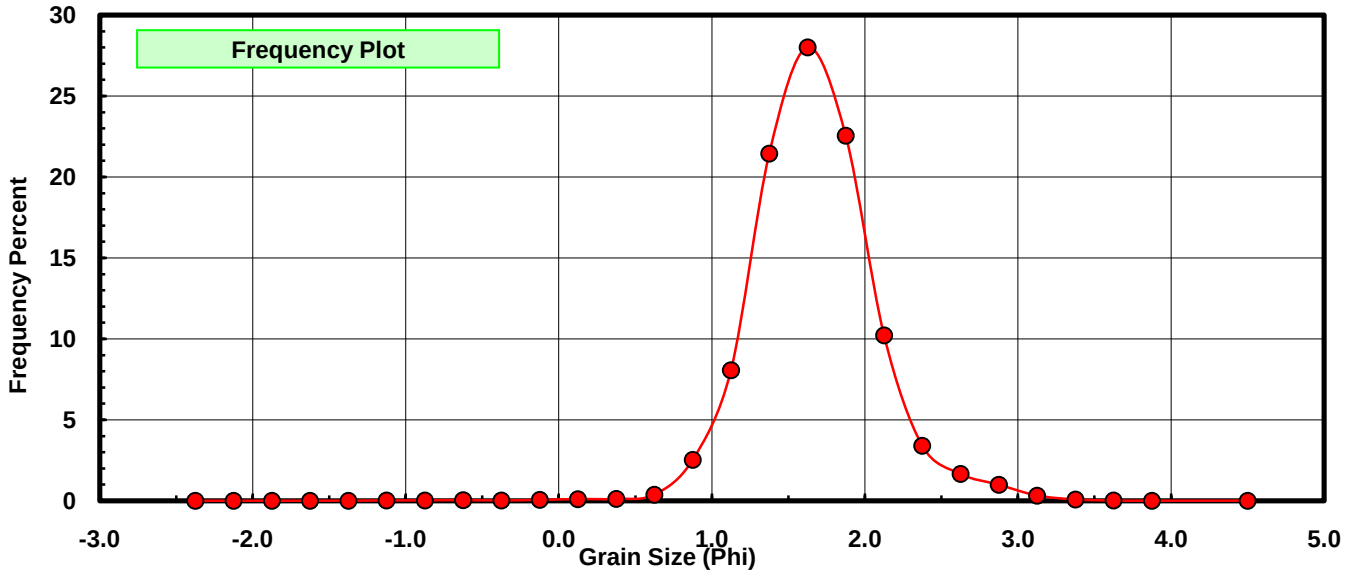
Statistical Explanation

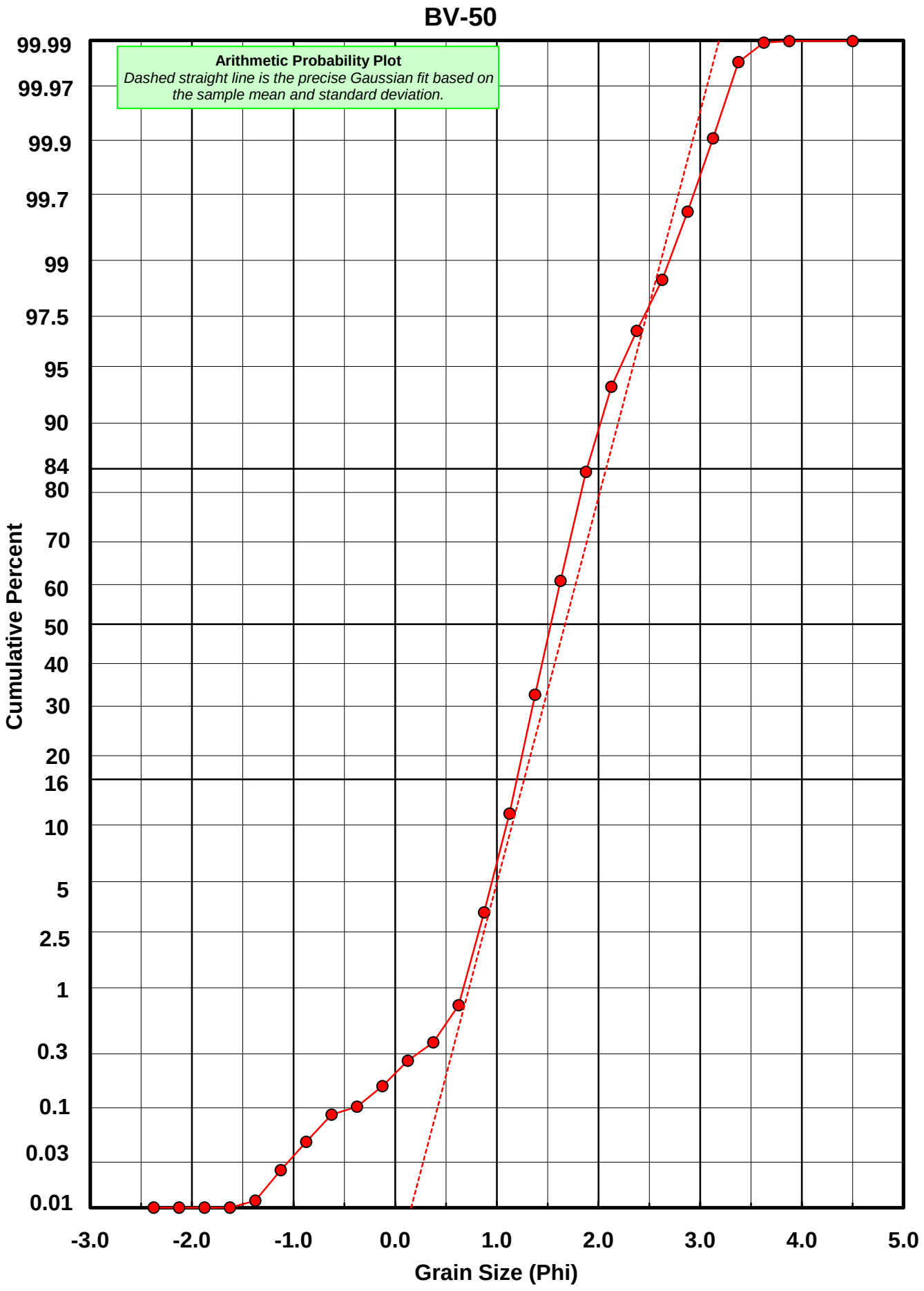
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-50
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-50

Total Carbonate Mass: 11.501 grams

% Carbonate: 18.1 %

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	0.005	0.043	0.043
-1.00	-1.125	0.011	0.096	0.139
-0.75	-0.875	0.015	0.130	0.270
-0.50	-0.625	0.024	0.209	0.478
-0.25	-0.375	0.010	0.087	0.565
0.00	-0.125	0.024	0.209	0.774
0.25	0.125	0.050	0.435	1.209
0.50	0.375	0.041	0.356	1.565
0.75	0.625	0.114	0.991	2.556
1.00	0.875	0.542	4.713	7.269
1.25	1.125	1.252	10.886	18.155
1.50	1.375	2.756	23.963	42.118
1.75	1.625	3.351	29.137	71.255
2.00	1.875	1.927	16.755	88.010
2.25	2.125	0.947	8.234	96.244
2.50	2.375	0.345	3.000	99.244
2.75	2.625	0.068	0.591	99.835
3.00	2.875	0.016	0.139	99.974
3.25	3.125	0.000	0.000	99.974
3.50	3.375	0.003	0.026	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:	1.5508	phi	(0.3413 mm)
Standard Dev:	0.4501	phi-units	(0.732 mm)
Skewness:	-1.0269	dimensionless	
Kurtosis:	7.6462	dimensionless	
5th Moment:	-29.5351	dimensionless	
6th Moment:	170.8339	dimensionless	
RARD *	0.2903	dimensionless	
Median	1.4426	phi	(0.3679 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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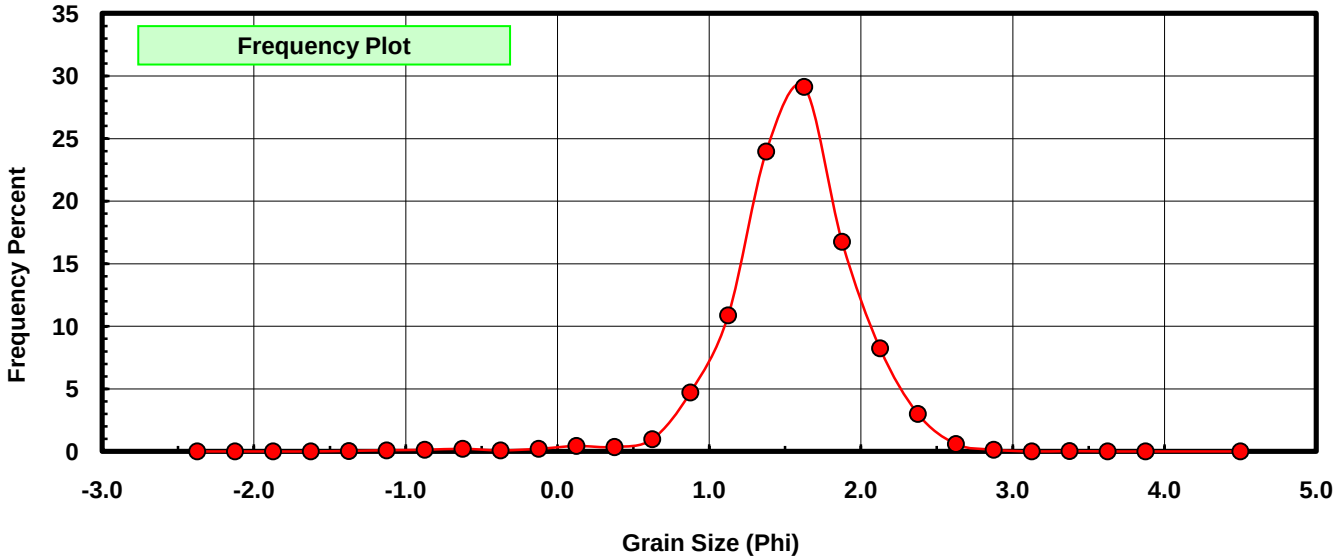

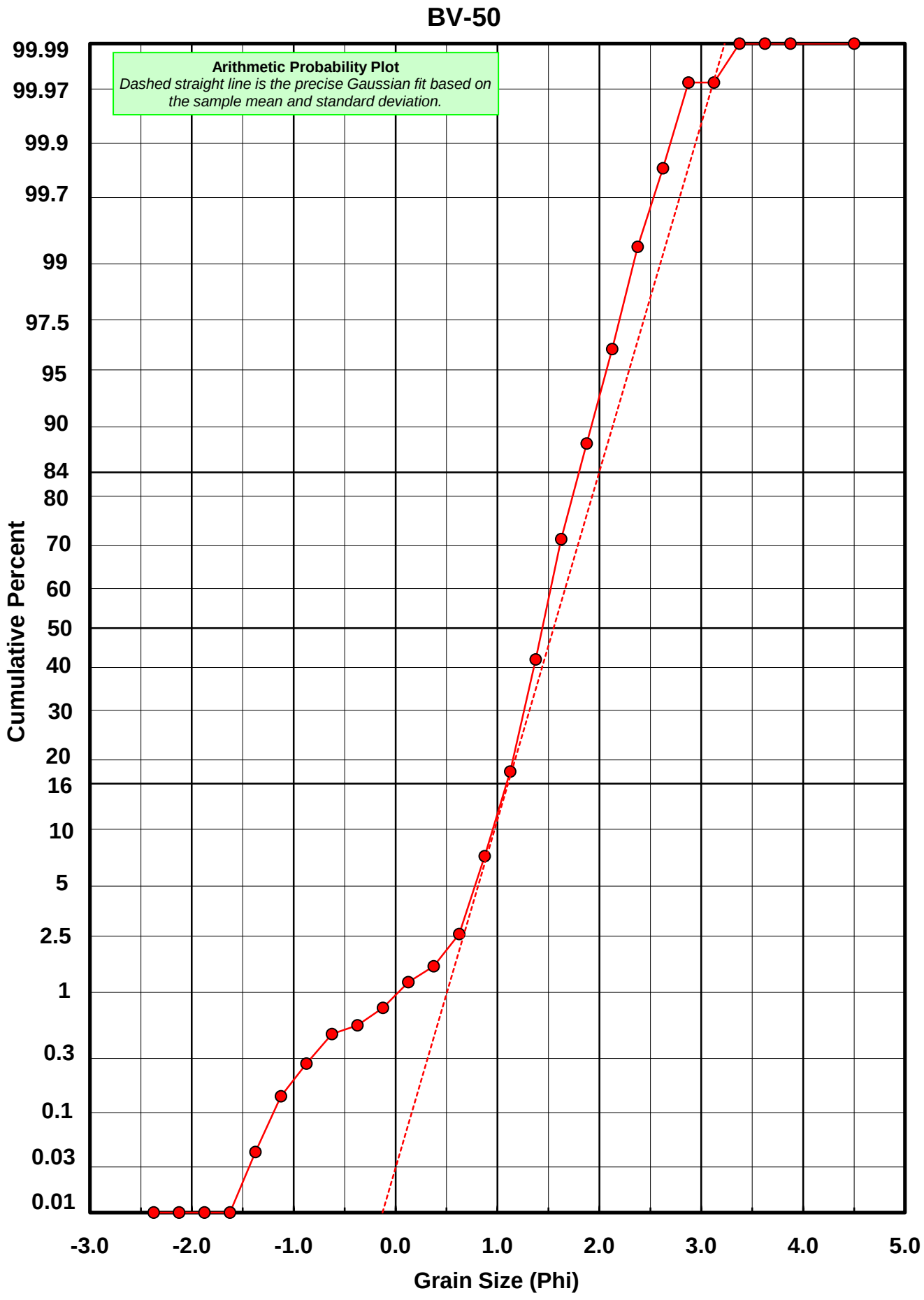
BV-50
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)

Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-50

Total Digested Mass: 52.075 grams

% Silica: 81.9 %

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	0.000	0.000	0.000
0.00	-0.125	0.010	0.019	0.019
0.25	0.125	0.016	0.031	0.050
0.50	0.375	0.031	0.060	0.109
0.75	0.625	0.125	0.240	0.349
1.00	0.875	1.066	2.047	2.397
1.25	1.125	3.872	7.435	9.832
1.50	1.375	10.871	20.876	30.708
1.75	1.625	14.450	27.748	58.456
2.00	1.875	12.403	23.818	82.274
2.25	2.125	5.548	10.654	92.928
2.50	2.375	1.813	3.482	96.409
2.75	2.625	0.984	1.890	98.299
3.00	2.875	0.611	1.173	99.472
3.25	3.125	0.209	0.401	99.873
3.50	3.375	0.048	0.092	99.965
3.75	3.625	0.013	0.025	99.990
4.00	3.875	0.002	0.004	99.994
5.00	4.500	0.003	0.006	100.000

Statistical Results			
Mean:	1.6972	phi	(0.3084 mm)
Standard Dev:	0.3968	phi-units	(0.7596 mm)
Skewness:	0.5743	dimensionless	
Kurtosis:	4.4496	dimensionless	
5th Moment:	7.7868	dimensionless	
6th Moment:	45.5974	dimensionless	
RARD *	0.2338	dimensionless	
Median	1.5488	phi	(0.3418 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
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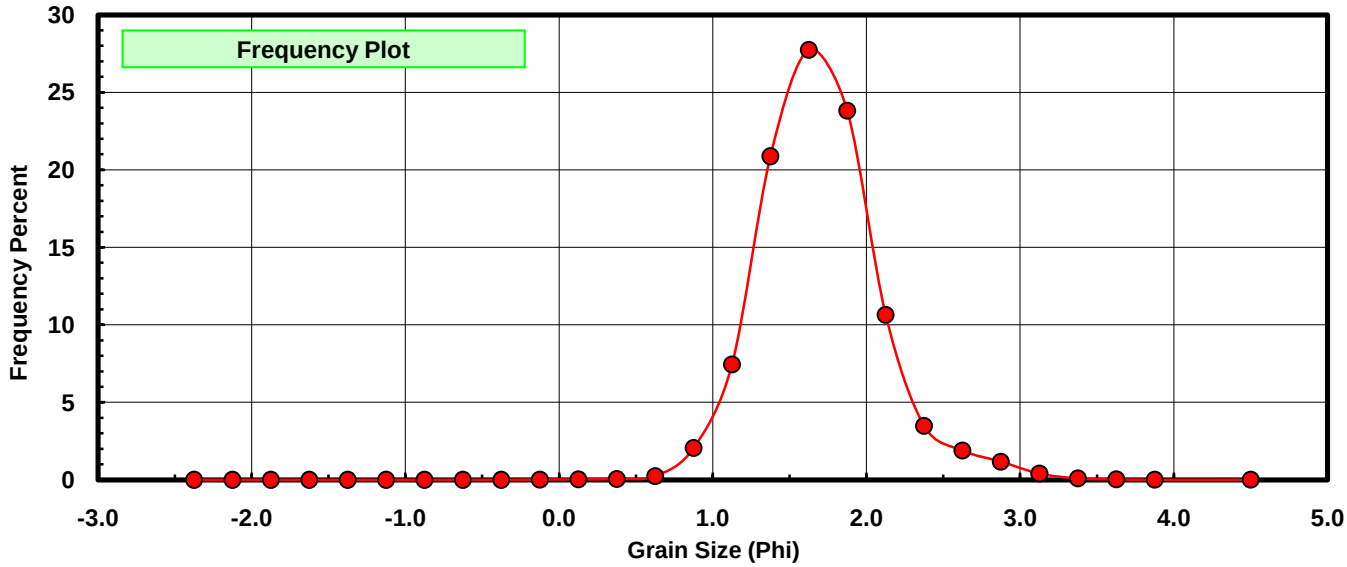

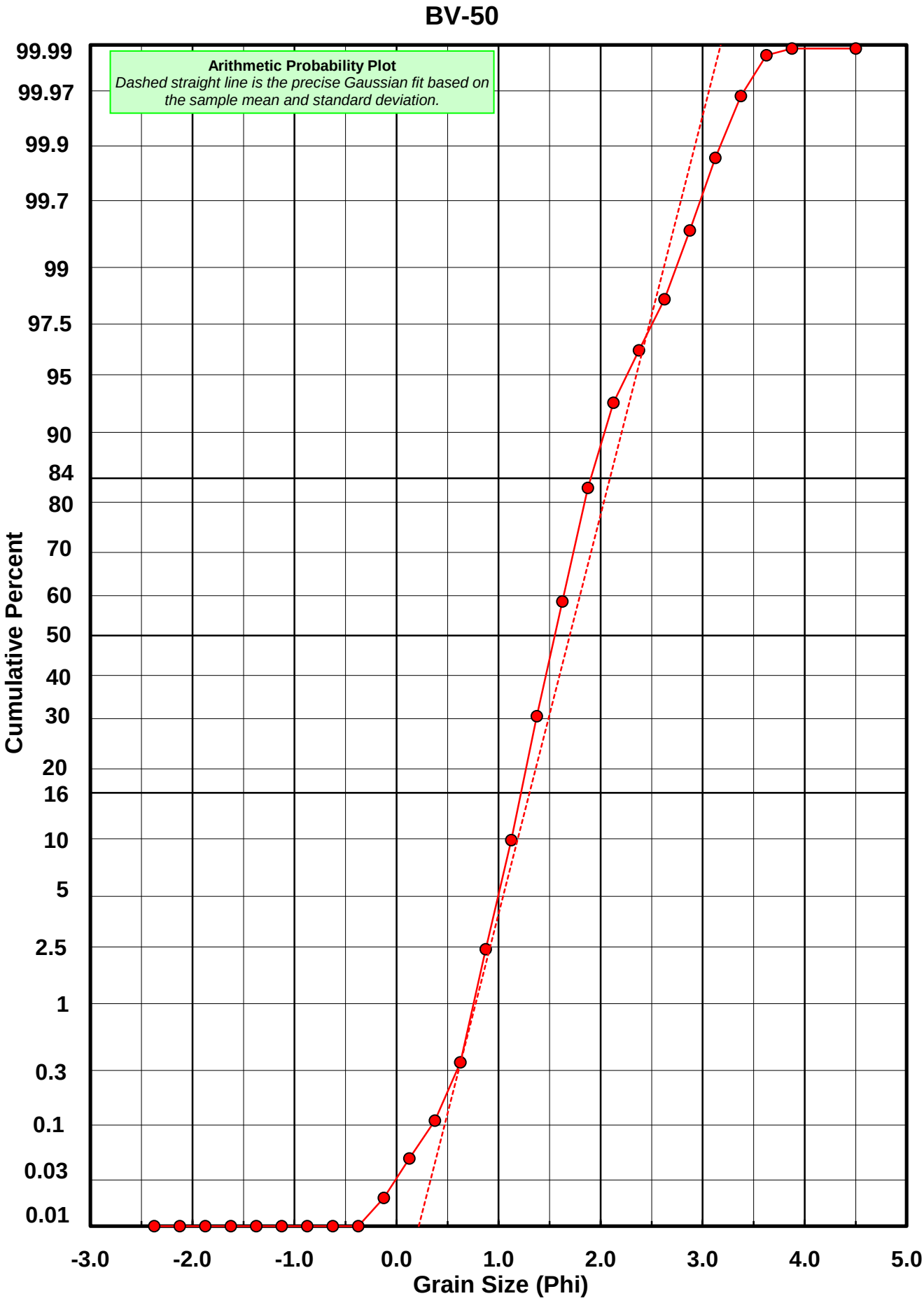
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0.03
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-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)