Onshore Grab Sample

Sample: BV-49
Sample Taken By: D. Phelps
Sample Collected On: 9/25/08
Splits? N/A

County: Brevard
Latitude: 28° 13' 40.3"
Longitude: 80° 35' 57.4"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	54.088	grams
Total Fines in Sample	0.545	grams
Total Percent Fines	1.00	%

Dry Sieving Summary

Total Sample Weight	53.536	grams
Total Digested Weight	40.471	grams
Total Carbonate Weight	13.065	grams
Total Silica %	75.60	%
Total Carbonate %	24.40	%
Carbonate/Silica Ratio	0.323	

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-49

Total Sample Mass: 53.536 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	0.052	0.097	0.097
-0.50	-0.625	0.061	0.114	0.211
-0.25	-0.375	0.108	0.202	0.413
0.00	-0.125	0.195	0.364	0.777
0.25	0.125	0.295	0.551	1.328
0.50	0.375	0.644	1.203	2.531
0.75	0.625	1.351	2.524	5.055
1.00	0.875	7.015	13.103	18.158
1.25	1.125	8.590	16.045	34.203
1.50	1.375	14.004	26.158	60.361
1.75	1.625	11.615	21.696	82.057
2.00	1.875	6.851	12.797	94.854
2.25	2.125	2.125	3.969	98.823
2.50	2.375	0.379	0.708	99.531
2.75	2.625	0.130	0.243	99.774
3.00	2.875	0.068	0.127	99.901
3.25	3.125	0.033	0.062	99.963
3.50	3.375	0.011	0.021	99.983
3.75	3.625	0.005	0.009	99.993
4.00	3.875	0.002	0.004	99.996
5.00	4.50	0.002	0.004	100.000

Statistical Results			
Mean:	1.3800	phi	(0.3842 mm)
Standard Dev:	0.4363	phi-units	(0.739 mm)
Skewness:	-0.4714	dimensionless	
Kurtosis:	5.0836	dimensionless	
5th Moment:	-7.8734	dimensionless	
6th Moment:	69.1624	dimensionless	
RARD *	0.3162	dimensionless	
Median	1.2760	phi	(0.4129 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

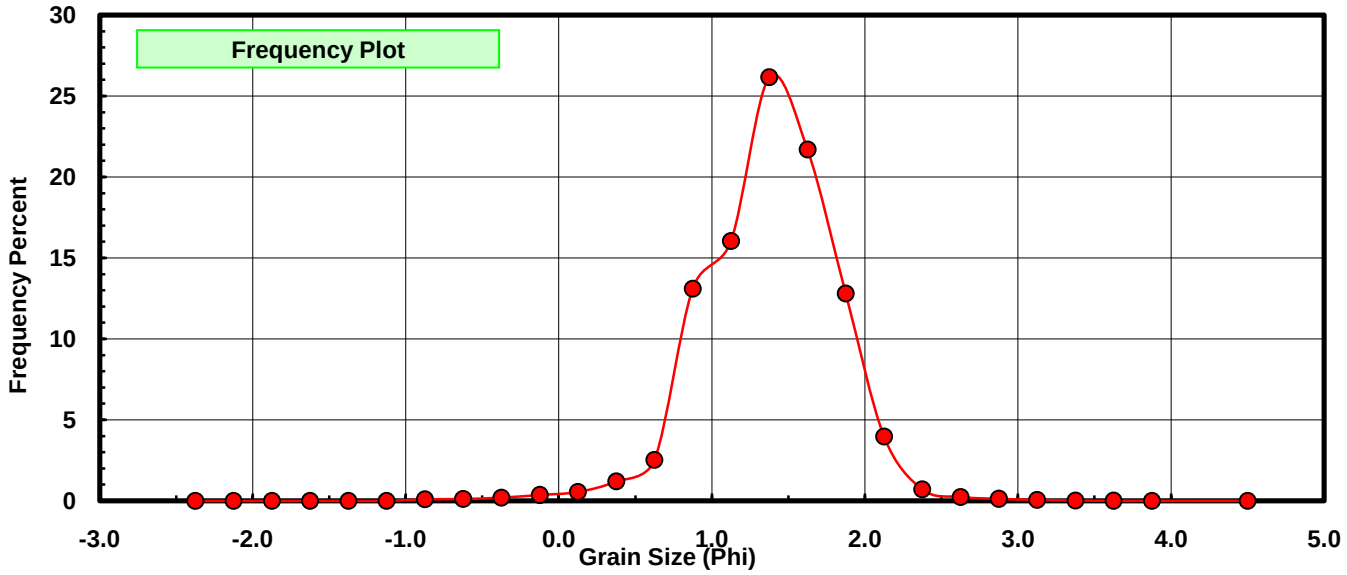
Statistical Explanation

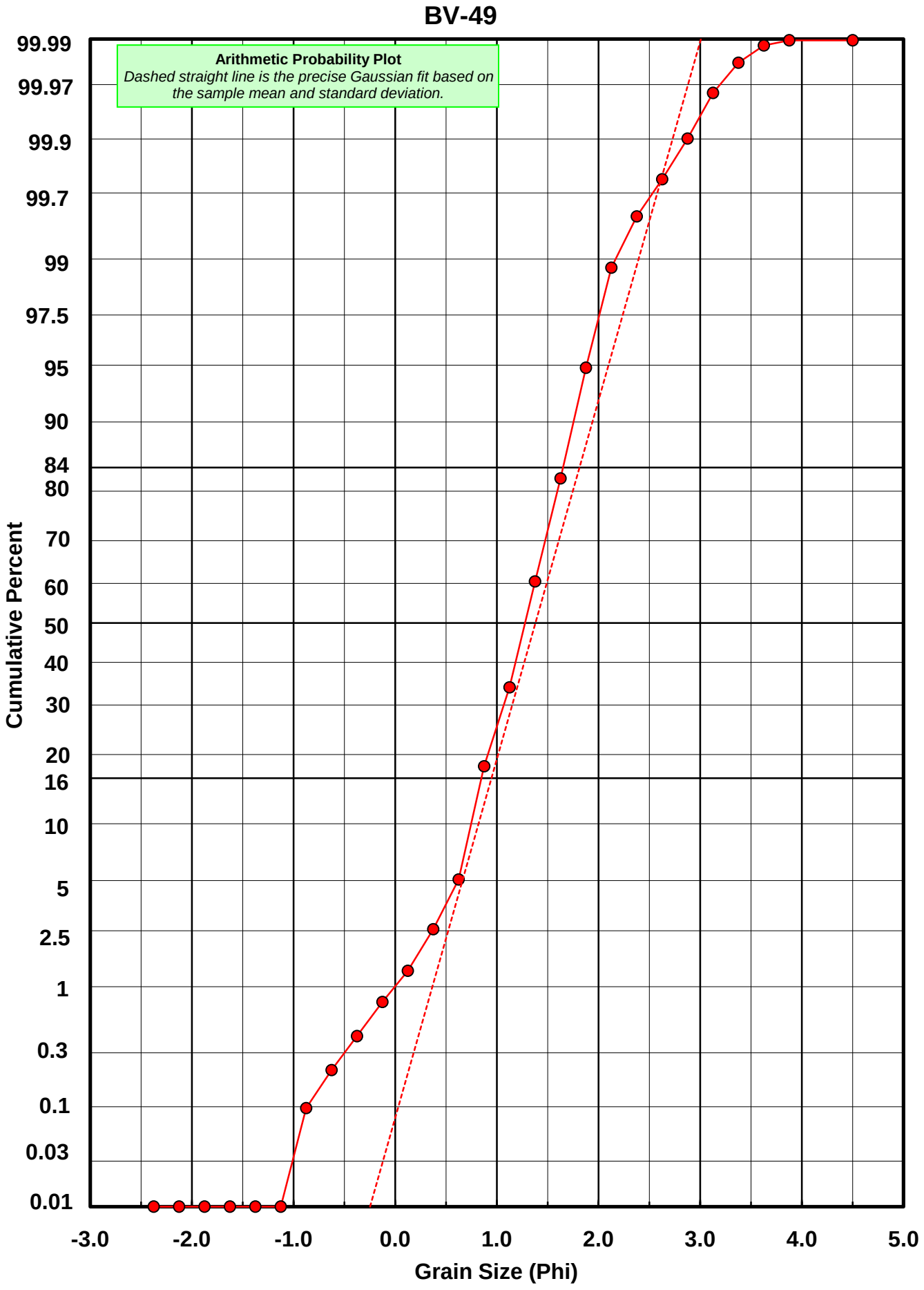
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-49
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-49

Total Carbonate Mass: 13.079 grams

% Carbonate: 24.4 %

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	0.052	0.398	0.398
-0.50	-0.625	0.061	0.466	0.864
-0.25	-0.375	0.108	0.826	1.690
0.00	-0.125	0.178	1.361	3.051
0.25	0.125	0.236	1.804	4.855
0.50	0.375	0.346	2.645	7.501
0.75	0.625	0.493	3.769	11.270
1.00	0.875	2.300	17.585	28.855
1.25	1.125	2.111	16.140	44.996
1.50	1.375	3.740	28.595	73.591
1.75	1.625	1.914	14.634	88.225
2.00	1.875	1.037	7.929	96.154
2.25	2.125	0.430	3.288	99.442
2.50	2.375	0.066	0.505	99.946
2.75	2.625	0.005	0.038	99.985
3.00	2.875	0.000	0.000	99.985
3.25	3.125	0.002	0.015	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:	1.2230	phi	(0.4284 mm)
Standard Dev:	0.5255	phi-units	(0.6947 mm)
Skewness:	-0.9130	dimensionless	
Kurtosis:	4.6840	dimensionless	
5th Moment:	-10.9742	dimensionless	
6th Moment:	42.8581	dimensionless	
RARD *	0.4297	dimensionless	
Median	1.1688	phi	(0.4448 mm)

* RARD = reciprocal absolute relative dispersion (see below)

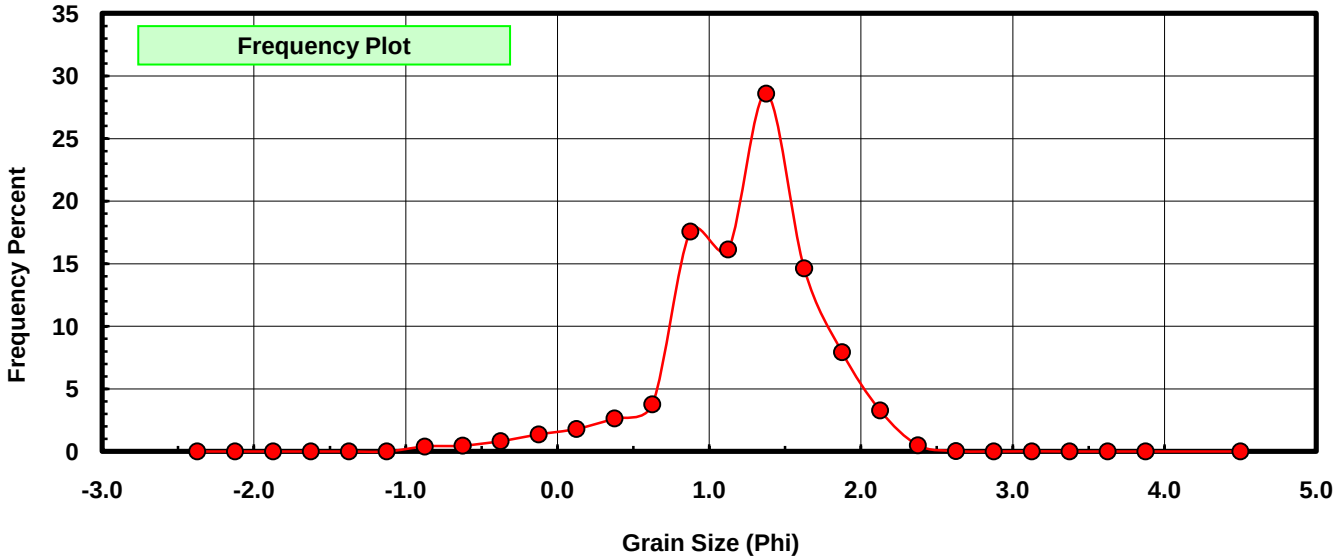
Statistical Explanation

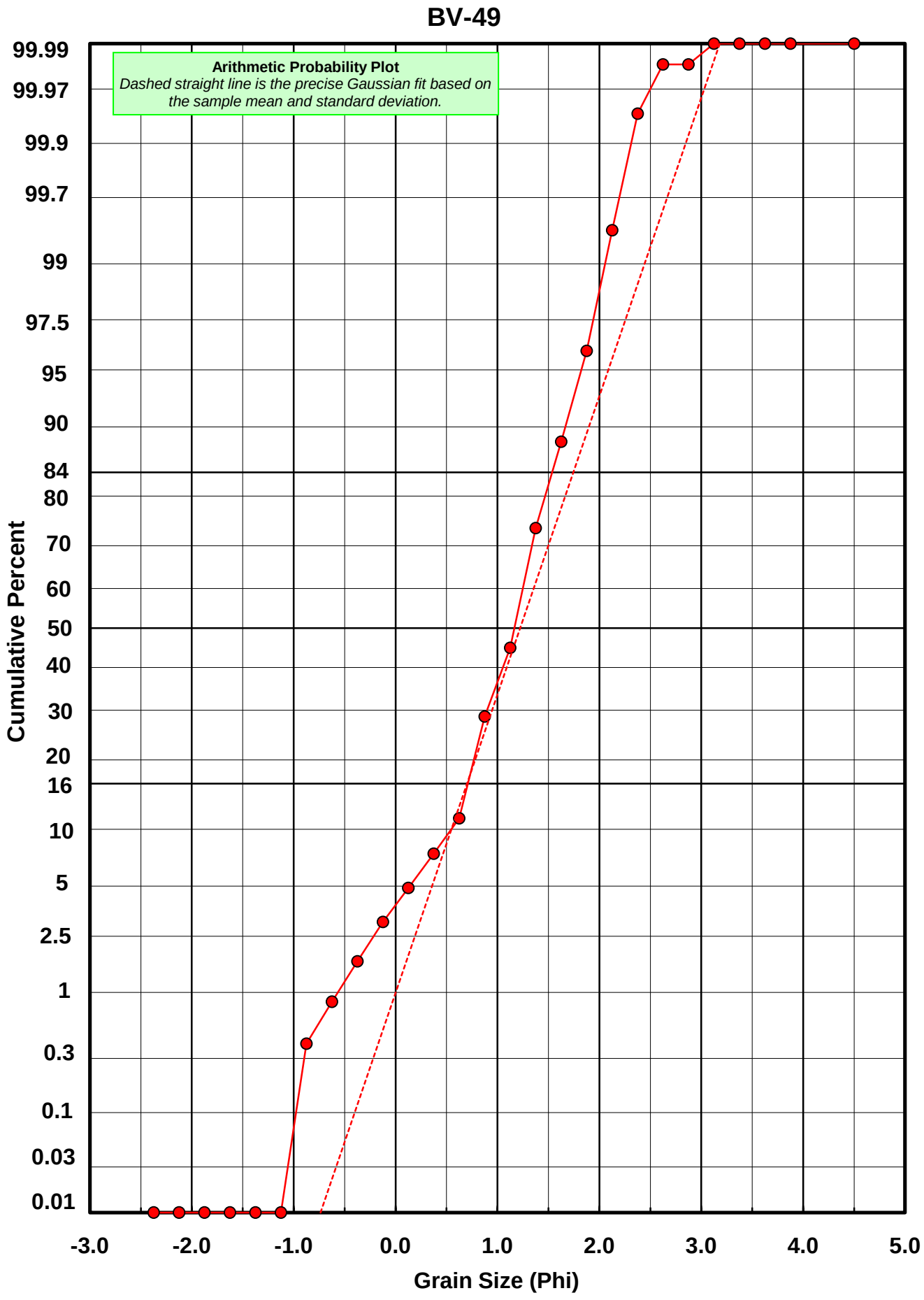
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-49
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-49

Total Digested Mass: 40.471 grams

% Silica: 75.6 %

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	0.017	0.042	0.042
0.25	0.125	0.059	0.146	0.188
0.50	0.375	0.298	0.736	0.924
0.75	0.625	0.858	2.120	3.044
1.00	0.875	4.715	11.650	14.694
1.25	1.125	6.479	16.009	30.703
1.50	1.375	10.264	25.361	56.065
1.75	1.625	9.701	23.970	80.035
2.00	1.875	5.814	14.366	94.401
2.25	2.125	1.695	4.188	98.589
2.50	2.375	0.313	0.773	99.363
2.75	2.625	0.125	0.309	99.671
3.00	2.875	0.072	0.178	99.849
3.25	3.125	0.031	0.077	99.926
3.50	3.375	0.011	0.027	99.953
3.75	3.625	0.007	0.017	99.970
4.00	3.875	0.004	0.010	99.980
5.00	4.500	0.008	0.020	100.000

Statistical Results			
Mean:	1.4316	phi	(0.3707 mm)
Standard Dev:	0.4003	phi-units	(0.7577 mm)
Skewness:	0.1697	dimensionless	
Kurtosis:	4.3256	dimensionless	
5th Moment:	8.9756	dimensionless	
6th Moment:	76.4825	dimensionless	
RARD *	0.2797	dimensionless	
Median	1.3152	phi	(0.4019 mm)

* RARD = reciprocal absolute relative dispersion (see below)

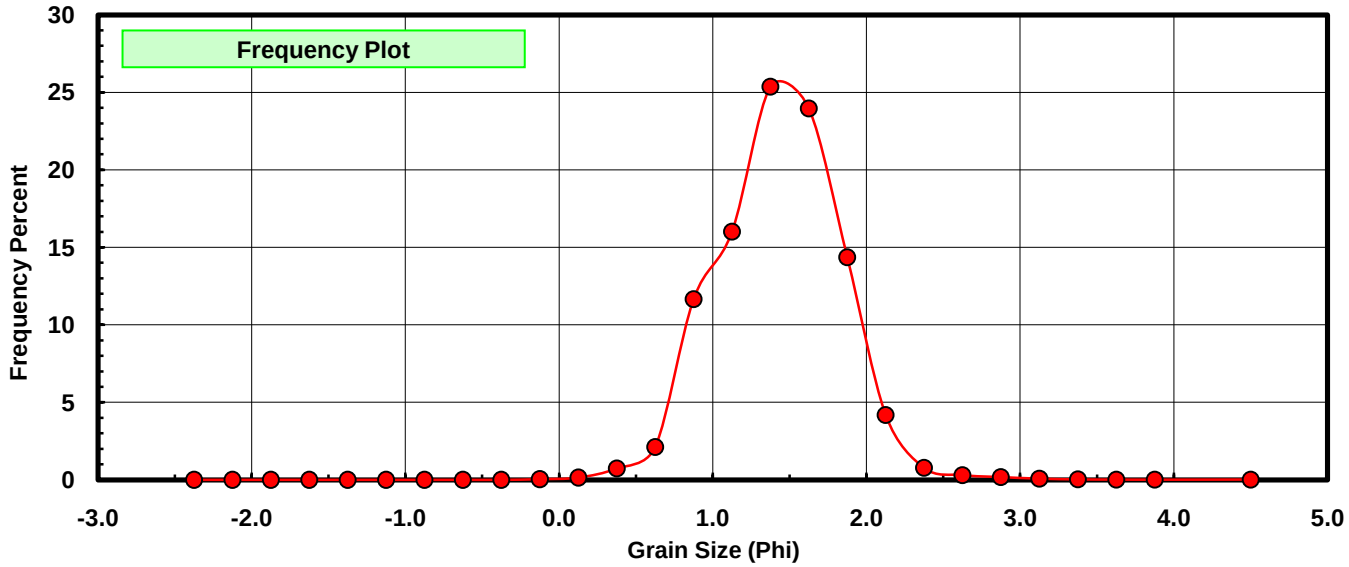
Statistical Explanation

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

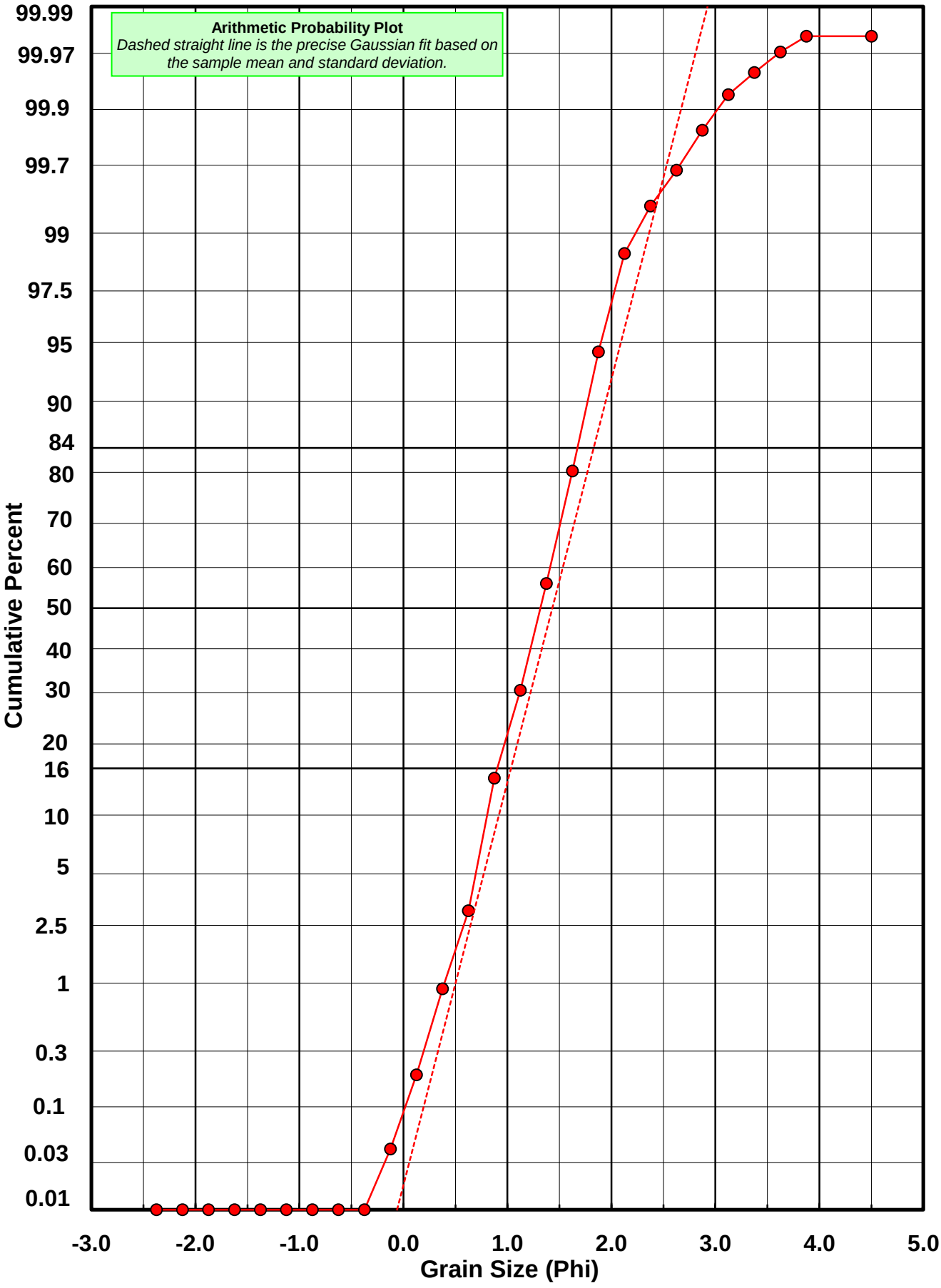
For Further Explanation, See Basillle et al. 2002

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-49


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)