

Onshore Grab Sample

Sample: BV-53
Sample Taken By: D. Phelps
Sample Collected On: 9/25/08
Splits? N/A

County: Brevard
Latitude: 28° 10' 54.2"
Longitude: 80° 35' 22.2"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight 48.054 grams
Total Fines in Sample 0.150 grams
Total Percent Fines 0.31 %

Dry Sieving Summary

Total Sample Weight 47.880 grams
Total Digested Weight 27.993 grams
Total Carbonate Weight 19.887 grams
Total Silica % 58.46 %
Total Carbonate % 41.54 %
Carbonate/Silica Ratio 0.710

General Comments:

None

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-53

Total Sample Mass: 47.880 grams

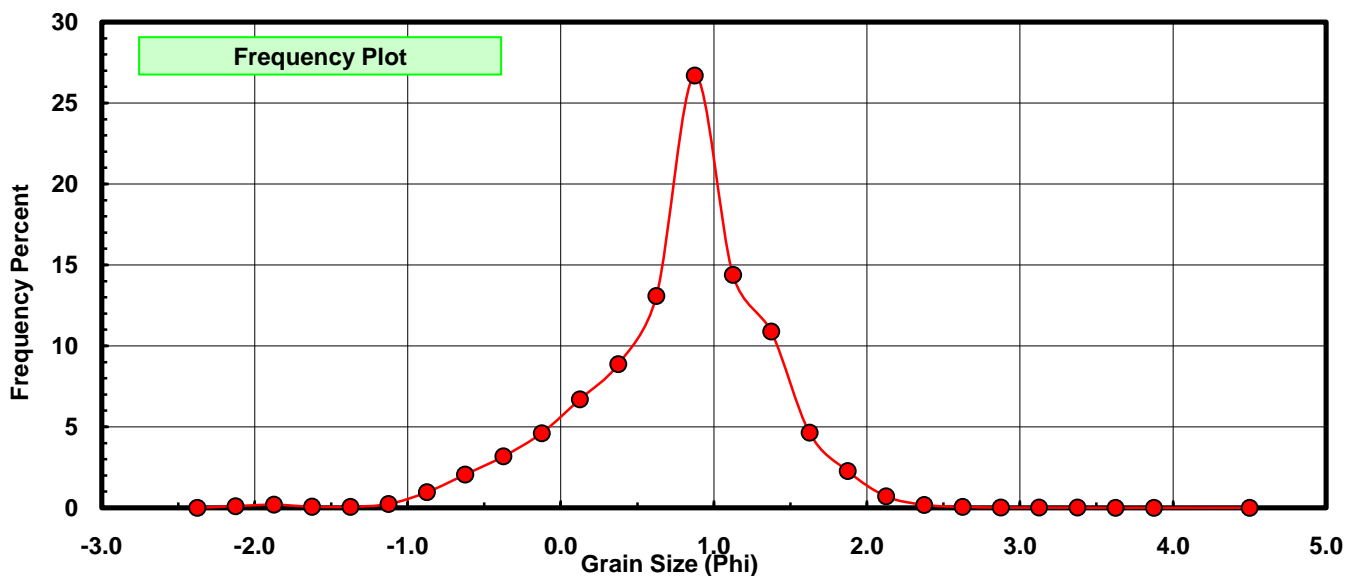
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.050	0.104	0.104
-1.75	-1.875	0.092	0.192	0.297
-1.50	-1.625	0.033	0.069	0.365
-1.25	-1.375	0.031	0.065	0.430
-1.00	-1.125	0.112	0.234	0.664
-0.75	-0.875	0.461	0.963	1.627
-0.50	-0.625	0.981	2.049	3.676
-0.25	-0.375	1.521	3.177	6.853
0.00	-0.125	2.208	4.612	11.464
0.25	0.125	3.211	6.706	18.170
0.50	0.375	4.244	8.864	27.034
0.75	0.625	6.262	13.079	40.113
1.00	0.875	12.785	26.702	66.815
1.25	1.125	6.885	14.380	81.195
1.50	1.375	5.214	10.890	92.084
1.75	1.625	2.221	4.639	96.723
2.00	1.875	1.085	2.266	98.989
2.25	2.125	0.340	0.710	99.699
2.50	2.375	0.089	0.186	99.885
2.75	2.625	0.027	0.056	99.942
3.00	2.875	0.010	0.021	99.962
3.25	3.125	0.007	0.015	99.977
3.50	3.375	0.005	0.010	99.987
3.75	3.625	0.002	0.004	99.992
4.00	3.875	0.001	0.002	99.994
5.00	4.50	0.003	0.006	100.000

Statistical Results			
Mean:	0.7599	phi	(0.5905 mm)
Standard Dev:	0.6168	phi-units	(0.6521 mm)
Skewness:	-0.6726	dimensionless	
Kurtosis:	4.3899	dimensionless	
5th Moment:	-7.6429	dimensionless	
6th Moment:	44.9524	dimensionless	
RARD *	0.8117	dimensionless	
Median	0.7176	phi	(0.6081 mm)

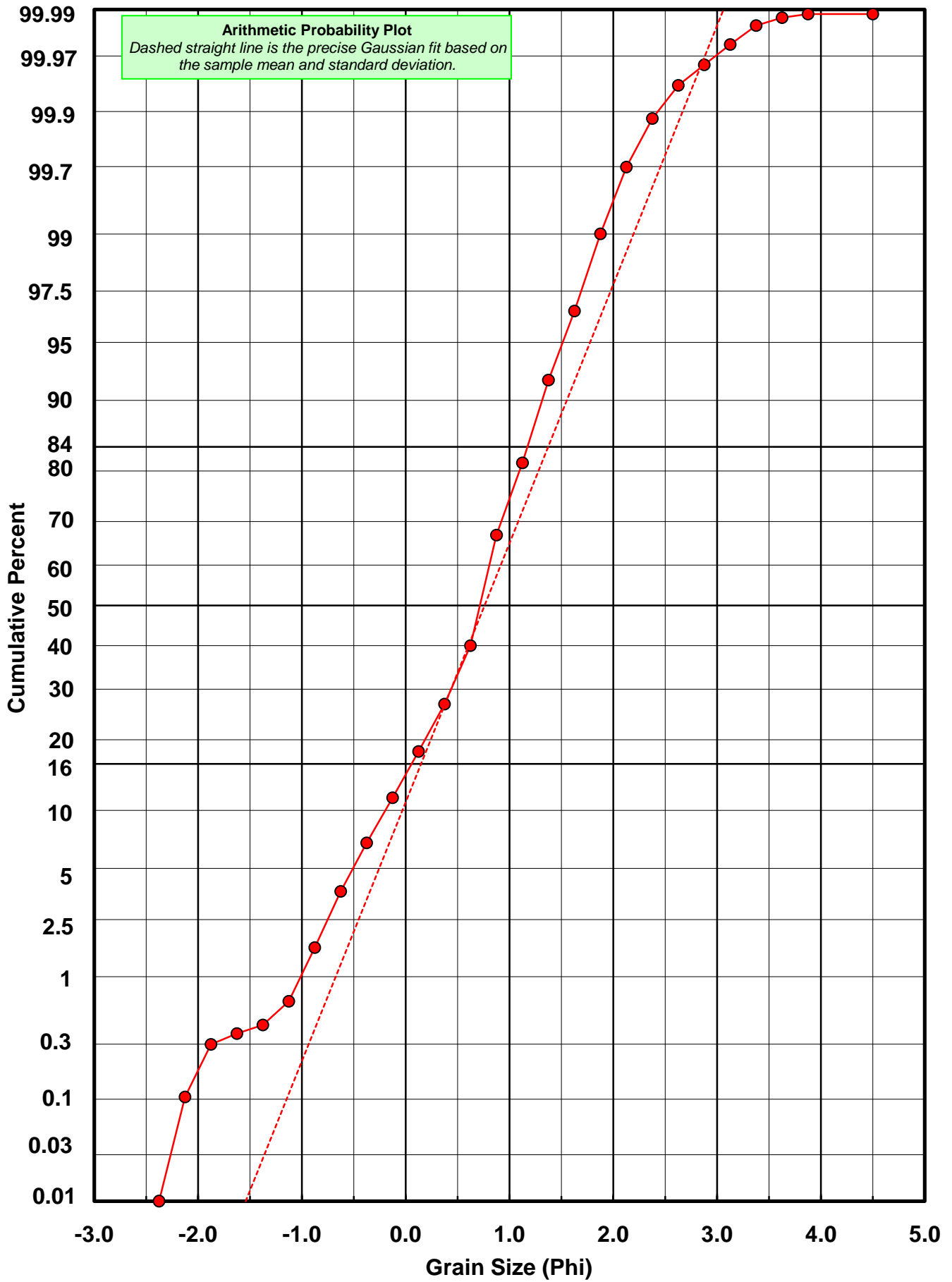
* RARD = reciprocal absolute relative dispersion (see below)

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 Basille 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-53



Carbonate Grain Size Distribution

Onshore Grab Sample

Sample: BV-53

Total Carbonate Mass: 19.919 grams

% Carbonate: 41.5 %

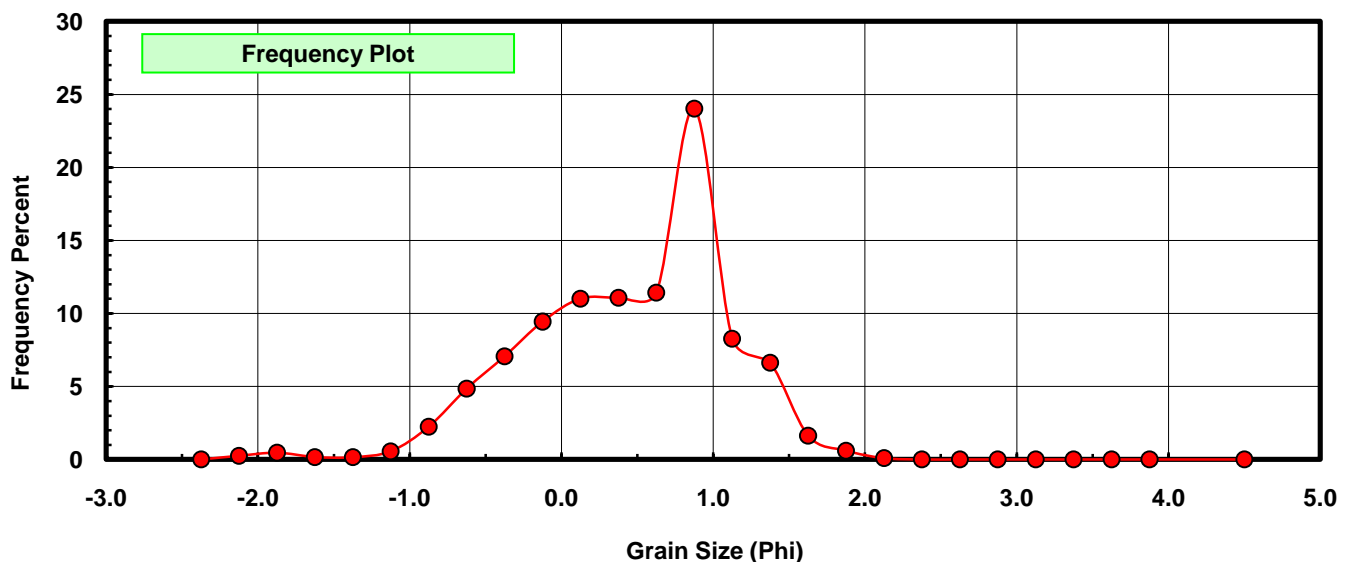
Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	0.000	0.000	0.000
-2.00	-2.125	0.050	0.251	0.251
-1.75	-1.875	0.092	0.462	0.713
-1.50	-1.625	0.033	0.166	0.879
-1.25	-1.375	0.031	0.156	1.034
-1.00	-1.125	0.112	0.562	1.596
-0.75	-0.875	0.448	2.249	3.846
-0.50	-0.625	0.967	4.855	8.700
-0.25	-0.375	1.408	7.069	15.769
0.00	-0.125	1.881	9.443	25.212
0.25	0.125	2.195	11.020	36.232
0.50	0.375	2.208	11.085	47.317
0.75	0.625	2.276	11.426	58.743
1.00	0.875	4.784	24.017	82.760
1.25	1.125	1.648	8.274	91.034
1.50	1.375	1.321	6.632	97.666
1.75	1.625	0.326	1.637	99.302
2.00	1.875	0.121	0.607	99.910
2.25	2.125	0.018	0.090	100.000
2.50	2.375	0.000	0.000	100.000
2.75	2.625	0.000	0.000	100.000
3.00	2.875	0.000	0.000	100.000
3.25	3.125	0.000	0.000	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:	0.4476	phi	(0.7333 mm)
Standard Dev:	0.6758	phi-units	(0.626 mm)
Skewness:	-0.5892	dimensionless	
Kurtosis:	3.2382	dimensionless	
5th Moment:	-5.9042	dimensionless	
6th Moment:	23.3388	dimensionless	
RARD *	1.5100	dimensionless	
Median	0.4337	phi	(0.7404 mm)

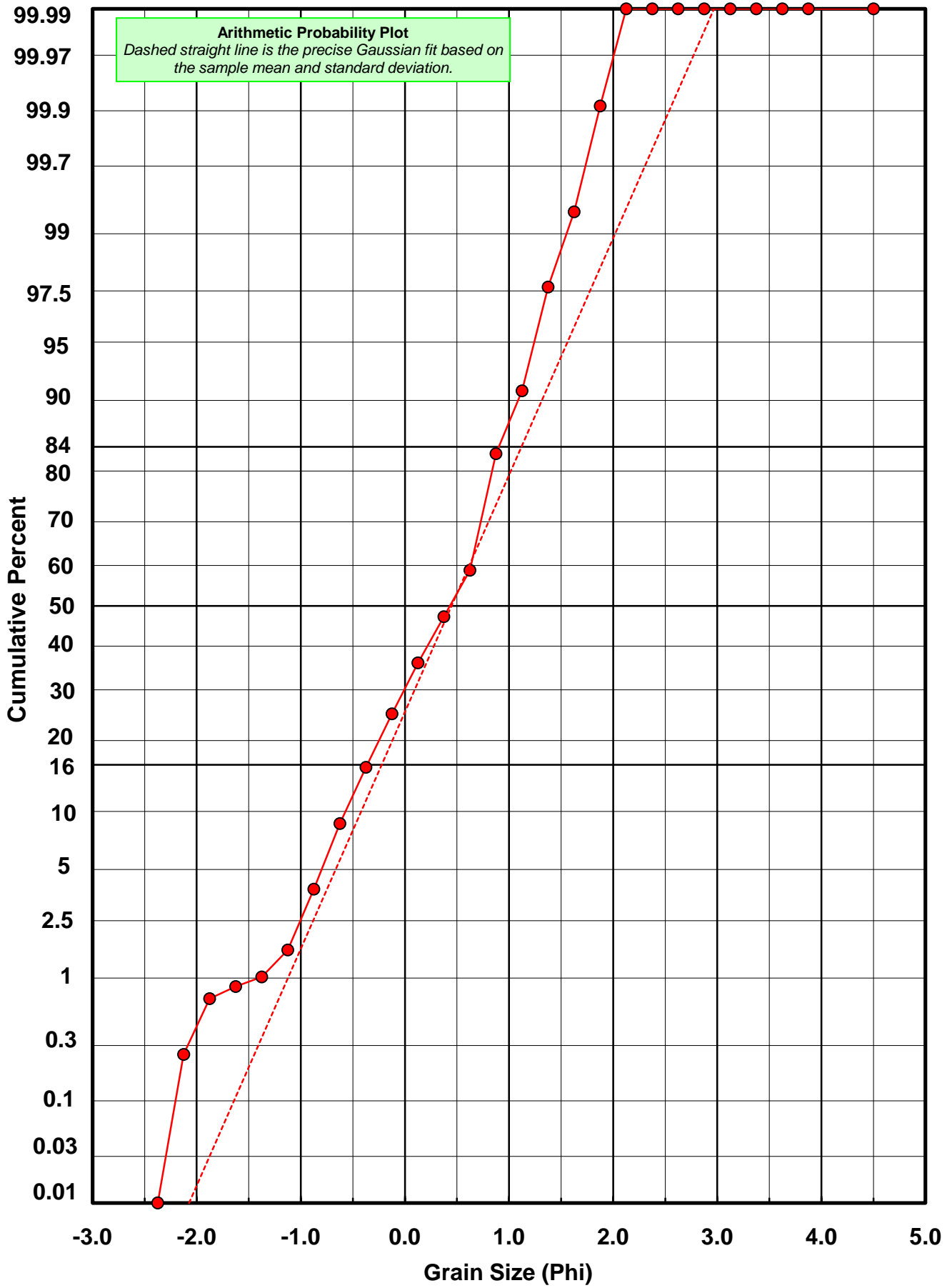
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Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0	
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0	
For Further Explanation, See Basille et al. 2002	
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BV-53



Post-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: BV-53

Total Digested Mass: 27.993 grams

% Silica: 58.5 %

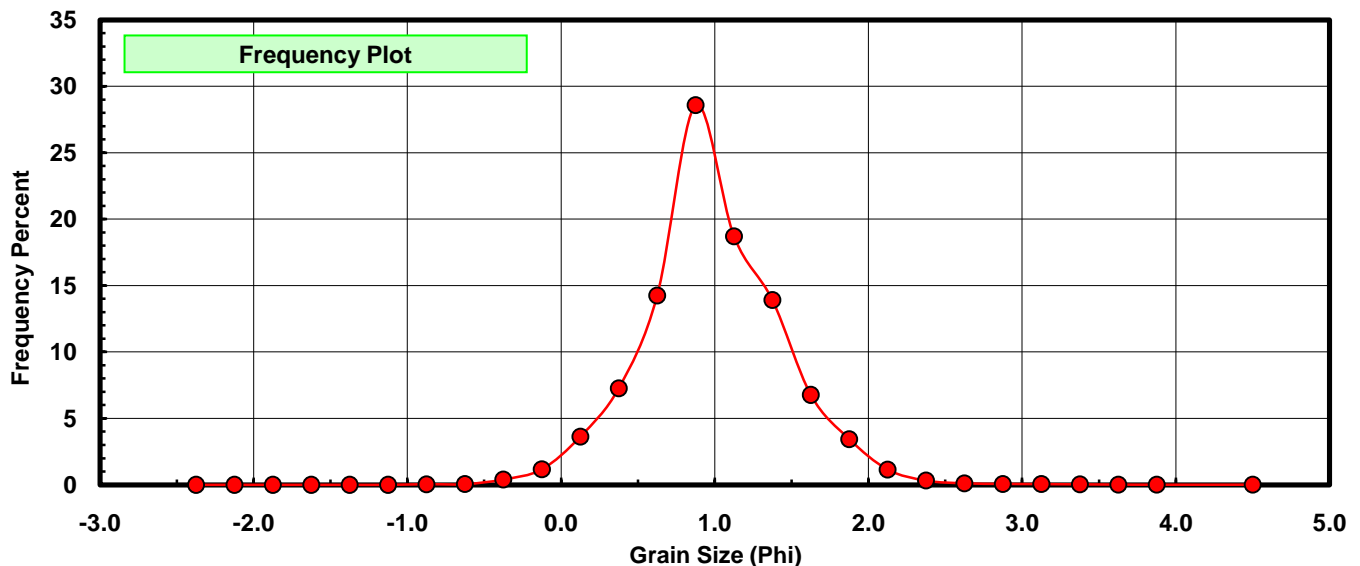
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-1.75	-1.875	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000
-0.75	-0.875	0.013	0.046	0.046
-0.50	-0.625	0.014	0.050	0.096
-0.25	-0.375	0.113	0.404	0.500
0.00	-0.125	0.327	1.168	1.668
0.25	0.125	1.016	3.629	5.298
0.50	0.375	2.036	7.273	12.571
0.75	0.625	3.986	14.239	26.810
1.00	0.875	8.001	28.582	55.392
1.25	1.125	5.237	18.708	74.101
1.50	1.375	3.893	13.907	88.008
1.75	1.625	1.895	6.770	94.777
2.00	1.875	0.964	3.444	98.221
2.25	2.125	0.322	1.150	99.371
2.50	2.375	0.089	0.318	99.689
2.75	2.625	0.032	0.114	99.804
3.00	2.875	0.020	0.071	99.875
3.25	3.125	0.015	0.054	99.929
3.50	3.375	0.010	0.036	99.964
3.75	3.625	0.005	0.018	99.982
4.00	3.875	0.002	0.007	99.989
5.00	4.500	0.003	0.011	100.000

Statistical Results			
Mean:	0.9848	phi	(0.5053 mm)
Standard Dev:	0.4720	phi-units	(0.721 mm)
Skewness:	0.2794	dimensionless	
Kurtosis:	4.4039	dimensionless	
5th Moment:	7.3441	dimensionless	
6th Moment:	60.2238	dimensionless	
RARD *	0.4792	dimensionless	
Median	0.8278	phi	(0.5634 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation	
Calculations based on the Method of Moments	
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