Onshore Grab Sample

Sample: MO-14
Sample Taken By: D. Phelps
Sample Collected On: 4/14/10
Splits? N/A

County: Monroe
Latitude: 24° 39' 55"
Longitude: 81° 15' 10.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	57.618	grams
Total Fines in Sample	1.145	grams
Total Percent Fines	1.95	%

Dry Sieving Summary

Total Sample Weight	56.714	grams
Total Digested Weight	0.050	grams
Total Carbonate Weight	56.664	grams
Total Silica %	0.09	%
Total Carbonate %	99.91	%
Carbonate/Silica Ratio	1133.280	

General Comments:

Not Enough Sample to do Post-Digestion Analysis

Description

Worked By: M. Ladle

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: MO-14

Total Sample Mass: 56.714 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	0.090	0.159	0.159
-0.25	-0.375	0.034	0.060	0.219
0.00	-0.125	0.055	0.097	0.316
0.25	0.125	0.087	0.153	0.469
0.50	0.375	0.121	0.213	0.682
0.75	0.625	0.174	0.307	0.989
1.00	0.875	0.586	1.033	2.022
1.25	1.125	0.728	1.284	3.306
1.50	1.375	1.347	2.375	5.681
1.75	1.625	2.796	4.930	10.611
2.00	1.875	6.956	12.265	22.876
2.25	2.125	14.863	26.207	49.083
2.50	2.375	17.446	30.761	79.844
2.75	2.625	9.329	16.449	96.294
3.00	2.875	1.816	3.202	99.496
3.25	3.125	0.235	0.414	99.910
3.50	3.375	0.024	0.042	99.952
3.75	3.625	0.009	0.016	99.968
4.00	3.875	0.010	0.018	99.986
5.00	4.50	0.008	0.014	100.000

Statistical Results			
Mean:	2.1954	phi	(0.2183 mm)
Standard Dev:	0.4310	phi-units	(0.7418 mm)
Skewness:	-1.6564	dimensionless	
Kurtosis:	9.2419	dimensionless	
5th Moment:	-40.6893	dimensionless	
6th Moment:	235.9203	dimensionless	
RARD *	0.1963	dimensionless	
Median	2.1325	phi	(0.2281 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

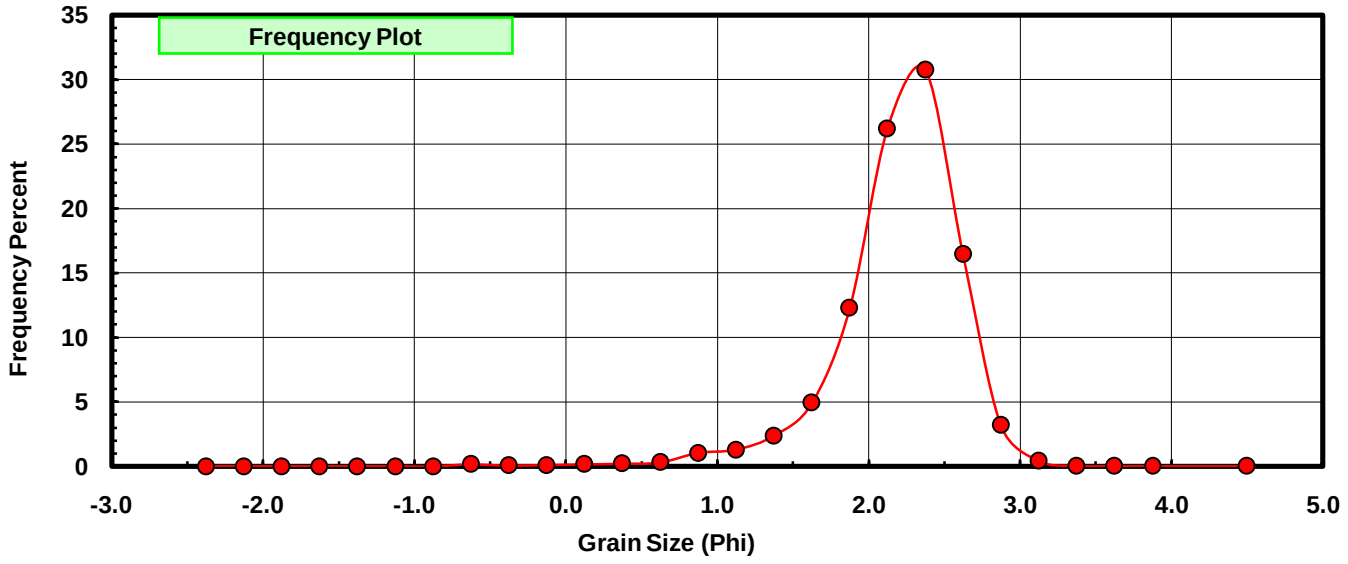
Statistical Explanation

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)



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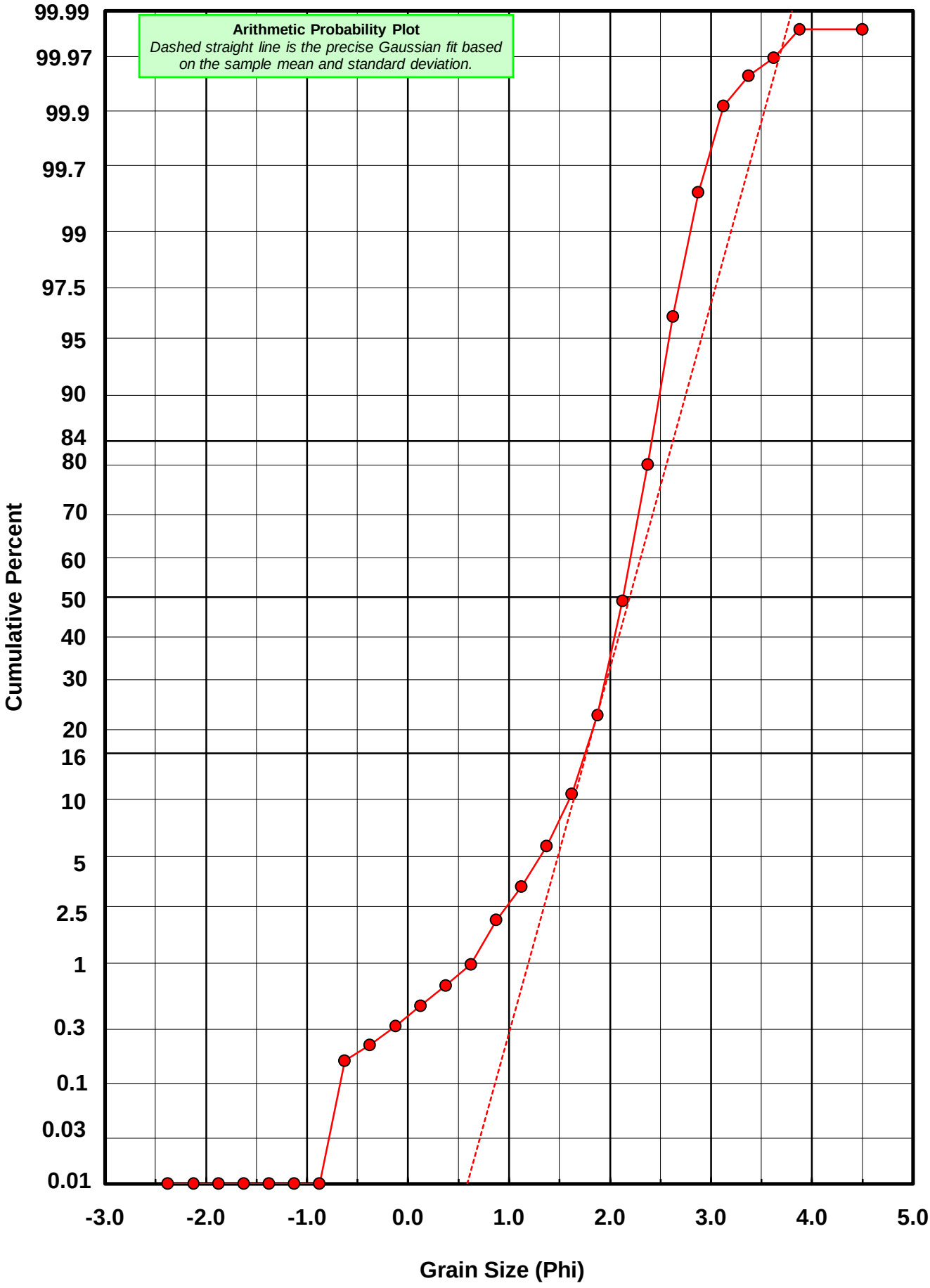
Arithmetic Probability Plot
Dashed straight line is the precise Gaussian fit based on the sample mean and standard deviation.
Cumulative Percent
99.99
99.97
99.9
99.7
99
97.5
95
90
84
80
70
60
50
40
30
20
16
10
5
2.5
1
0.3
0.1
0.03
0.01
-3.0
-2.0
-1.0
0.0
1.0
2.0
3.0
4.0
5.0
Grain Size (Phi)