Onshore Grab Sample

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

County: Monroe
Latitude: 24° 43' 2.9"
Longitude: 81° 1' 30.7"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	52.021	grams
Total Fines in Sample	0.407	grams
Total Percent Fines	0.78	%

Dry Sieving Summary

Total Sample Weight	51.774	grams
Total Digested Weight	9.732	grams
Total Carbonate Weight	42.042	grams
Total Silica %	18.80	%
Total Carbonate %	81.20	%
Carbonate/Silica Ratio	4.320	

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-10

Total Sample Mass: 51.774 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-2.25	-2.375	2.113	4.081	4.081
-2.00	-2.125	1.082	2.090	6.171
-1.75	-1.875	1.657	3.200	9.371
-1.50	-1.625	1.654	3.195	12.566
-1.25	-1.375	1.896	3.662	16.228
-1.00	-1.125	1.800	3.477	19.705
-0.75	-0.875	2.185	4.220	23.925
-0.50	-0.625	2.783	5.375	29.300
-0.25	-0.375	2.546	4.918	34.218
0.00	-0.125	2.500	4.829	39.047
0.25	0.125	2.520	4.867	43.914
0.50	0.375	2.284	4.411	48.325
0.75	0.625	2.295	4.433	52.758
1.00	0.875	2.930	5.659	58.417
1.25	1.125	2.289	4.421	62.838
1.50	1.375	2.844	5.493	68.332
1.75	1.625	3.111	6.009	74.340
2.00	1.875	3.758	7.258	81.599
2.25	2.125	3.463	6.689	88.288
2.50	2.375	3.022	5.837	94.124
2.75	2.625	2.013	3.888	98.013
3.00	2.875	0.761	1.470	99.482
3.25	3.125	0.176	0.340	99.822
3.50	3.375	0.048	0.093	99.915
3.75	3.625	0.022	0.042	99.958
4.00	3.875	0.012	0.023	99.981
5.00	4.50	0.010	0.019	100.000

Statistical Results			
Mean:	0.4633	phi	(0.7253 mm)
Standard Dev:	1.4977	phi-units	(0.3541 mm)
Skewness:	-0.2369	dimensionless	
Kurtosis:	1.9205	dimensionless	
5th Moment:	-1.0574	dimensionless	
6th Moment:	4.7976	dimensionless	
RARD *	3.2328	dimensionless	
Median	0.4694	phi	(0.7222 mm)

* RARD = reciprocal absolute relative dispersion (see below)

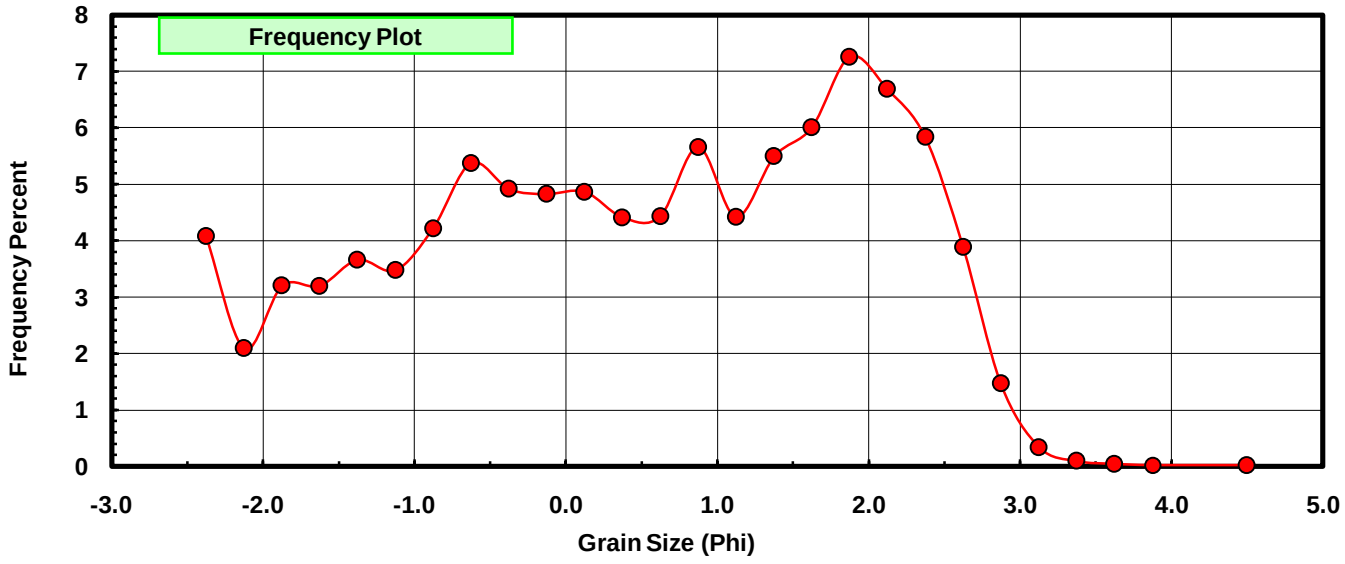
Statistical Explanation

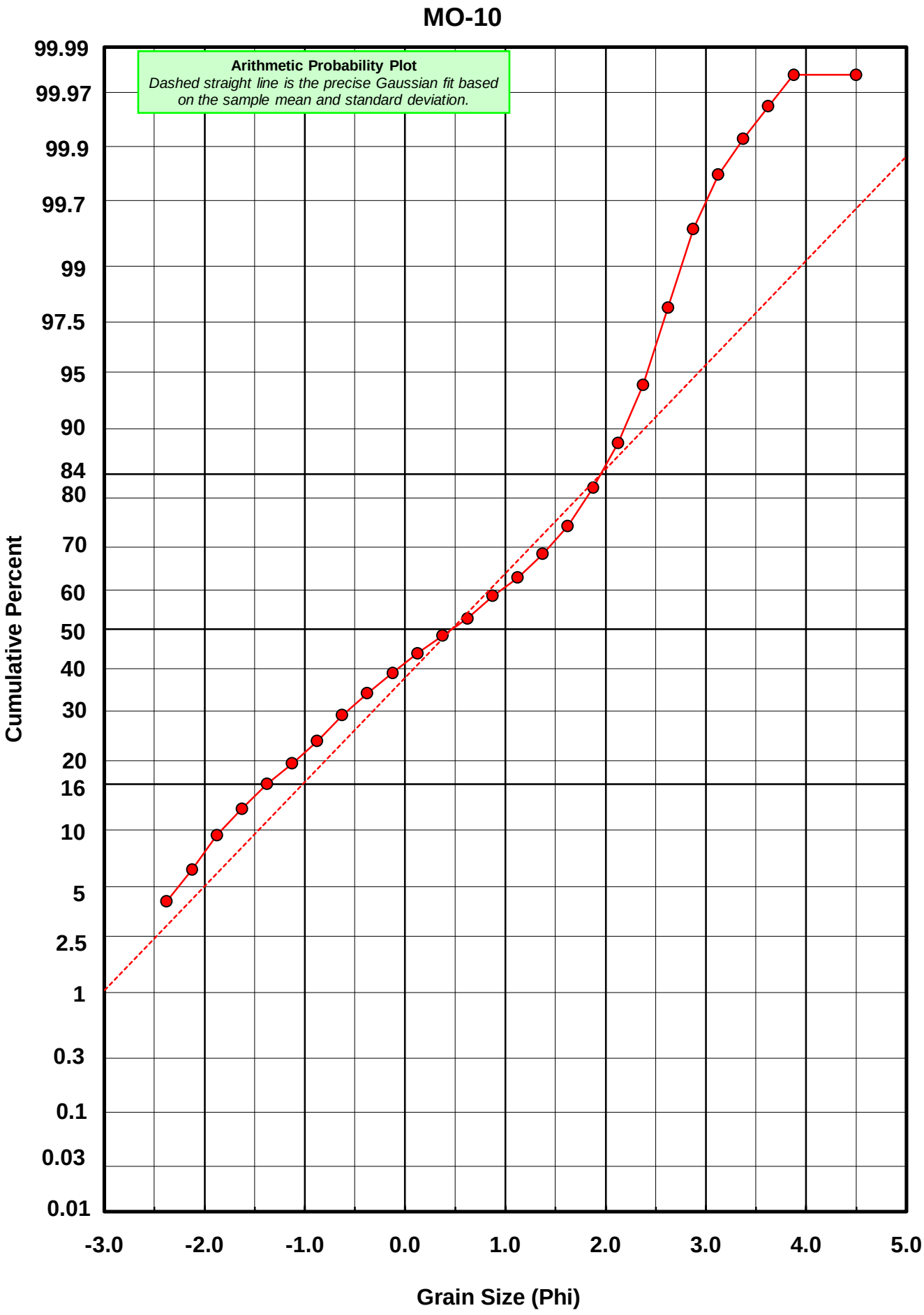
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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)




MO-10
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)