Onshore Grab Sample

Sample: MO-26
Sample Taken By: D. Phelps
Sample Collected On: 4/14/10
Splits? N/A

County: Monroe
Latitude: 24° 36' 30.8"
Longitude: 81° 33' 34"
Datum: WGS 84
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	43.435	grams
Total Fines in Sample	0.225	grams
Total Percent Fines	0.52	%

Dry Sieving Summary

Total Sample Weight	43.355	grams
Total Digested Weight	0.626	grams
Total Carbonate Weight	42.729	grams
Total Silica %	1.44	%
Total Carbonate %	98.56	%
Carbonate/Silica Ratio	68.257	

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-26

Total Sample Mass: 43.355 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	0.149	0.344	0.344
-0.75	-0.875	0.074	0.171	0.514
-0.50	-0.625	0.186	0.429	0.943
-0.25	-0.375	0.350	0.807	1.751
0.00	-0.125	0.832	1.919	3.670
0.25	0.125	1.624	3.746	7.416
0.50	0.375	2.159	4.980	12.395
0.75	0.625	3.170	7.312	19.707
1.00	0.875	6.084	14.033	33.740
1.25	1.125	4.685	10.806	44.546
1.50	1.375	5.429	12.522	57.068
1.75	1.625	5.542	12.783	69.851
2.00	1.875	5.362	12.368	82.219
2.25	2.125	3.744	8.636	90.855
2.50	2.375	2.374	5.476	96.330
2.75	2.625	0.959	2.212	98.542
3.00	2.875	0.357	0.823	99.366
3.25	3.125	0.115	0.265	99.631
3.50	3.375	0.049	0.113	99.744
3.75	3.625	0.050	0.115	99.859
4.00	3.875	0.024	0.055	99.915
5.00	4.50	0.037	0.085	100.000

Statistical Results			
Mean:	1.3293	phi	(0.398 mm)
Standard Dev:	0.7366	phi-units	(0.6002 mm)
Skewness:	-0.1666	dimensionless	
Kurtosis:	3.2556	dimensionless	
5th Moment:	-0.7361	dimensionless	
6th Moment:	21.7947	dimensionless	
RARD *	0.5541	dimensionless	
Median	1.2339	phi	(0.4252 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

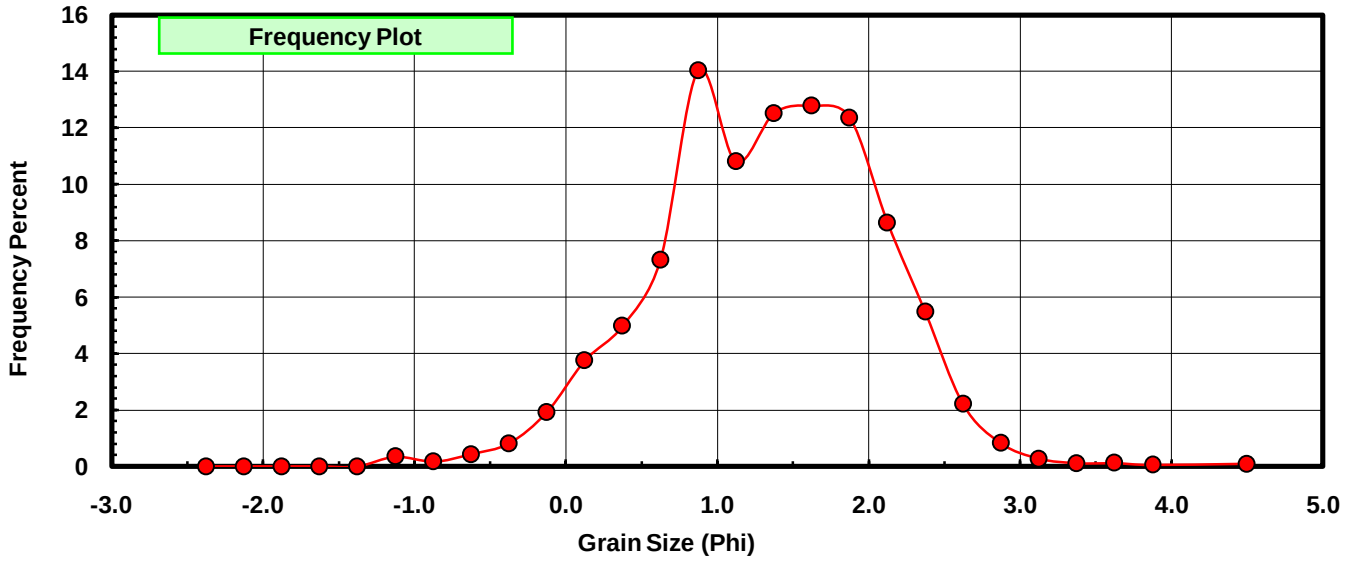
Statistical Explanation

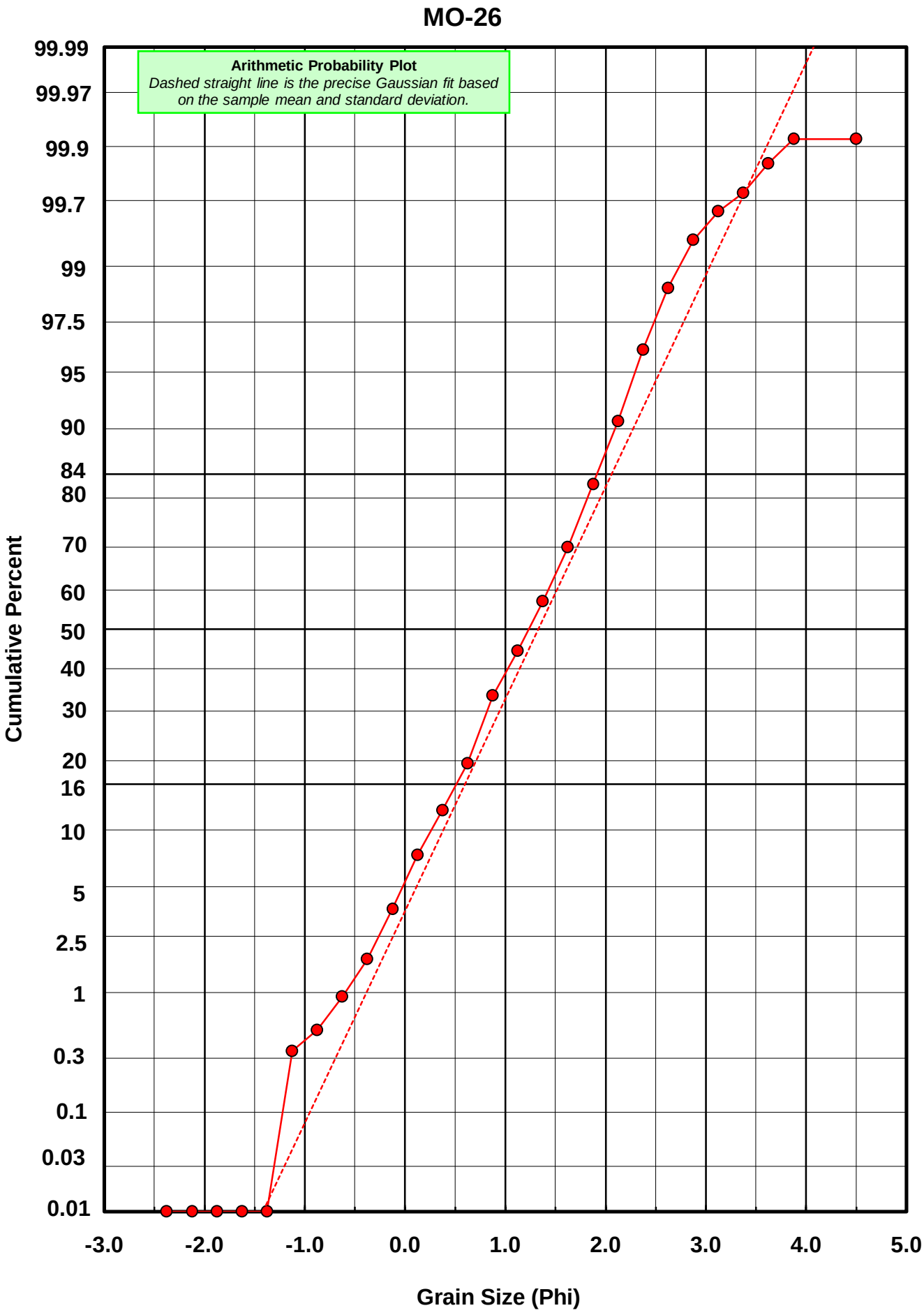
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

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-26
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)