Onshore Grab Sample

Sample: OA-12-MB
Sample Taken By: J. Ladner
Sample Collected On: 9/14/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 50.92"
Longitude: 86° 37' 59.37"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	54.284	grams
Total Fines in Sample	0.042	grams
Total Percent Fines	0.08	%

Dry Sieving Summary

Total Sample Weight	54.197	grams
Total Digested Weight	54.130	grams
Total Carbonate Weight	0.067	grams
Total Silica %	99.88	%
Total Carbonate %	0.12	%
Carbonate/Silica Ratio	0.001	

General Comments:

Not enough Carbonate Material to run a Post-Digestion Analysis

Description

Worked By: M. Lachance

Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: OA-12-MB

Total Sample Mass: 54.197 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %
-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	0.016	0.030	0.030
0.00	-0.125	0.053	0.098	0.127
0.25	0.125	0.313	0.578	0.705
0.50	0.375	0.955	1.762	2.467
0.75	0.625	2.604	4.805	7.272
1.00	0.875	8.545	15.766	23.038
1.25	1.125	9.858	18.189	41.227
1.50	1.375	13.015	24.014	65.241
1.75	1.625	10.129	18.689	83.930
2.00	1.875	6.189	11.419	95.350
2.25	2.125	2.035	3.755	99.105
2.50	2.375	0.375	0.692	99.796
2.75	2.625	0.059	0.109	99.905
3.00	2.875	0.025	0.046	99.951
3.25	3.125	0.010	0.018	99.970
3.50	3.375	0.005	0.009	99.979
3.75	3.625	0.004	0.007	99.987
4.00	3.875	0.002	0.004	99.990
5.00	4.500	0.000	0.000	99.990
5.00	4.50	0.005	0.010	100.000

Statistical Results			
Mean:	1.3299	phi	(0.3978 mm)
Standard Dev:	0.4271	phi-units	(0.7438 mm)
Skewness:	-0.0327	dimensionless	
Kurtosis:	3.3716	dimensionless	
5th Moment:	2.1821	dimensionless	
6th Moment:	37.0917	dimensionless	
RARD *	0.3211	dimensionless	
Median	1.2163	phi	(0.4304 mm)

* RARD = reciprocal absolute relative dispersion (see below)

Statistical Explanation

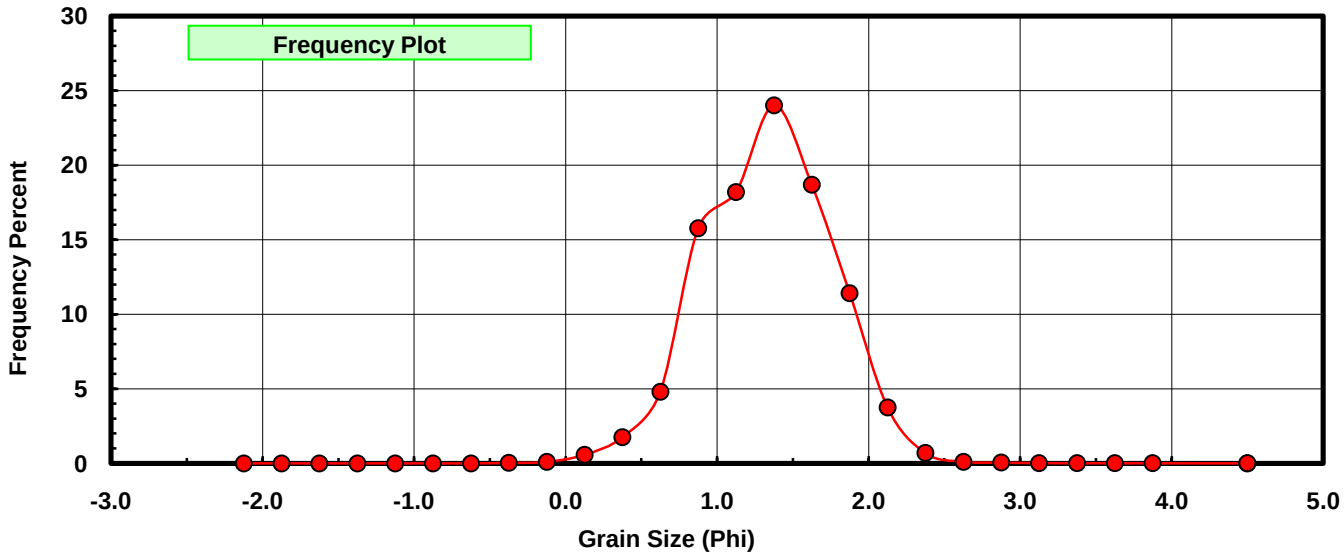
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle et al. 2002

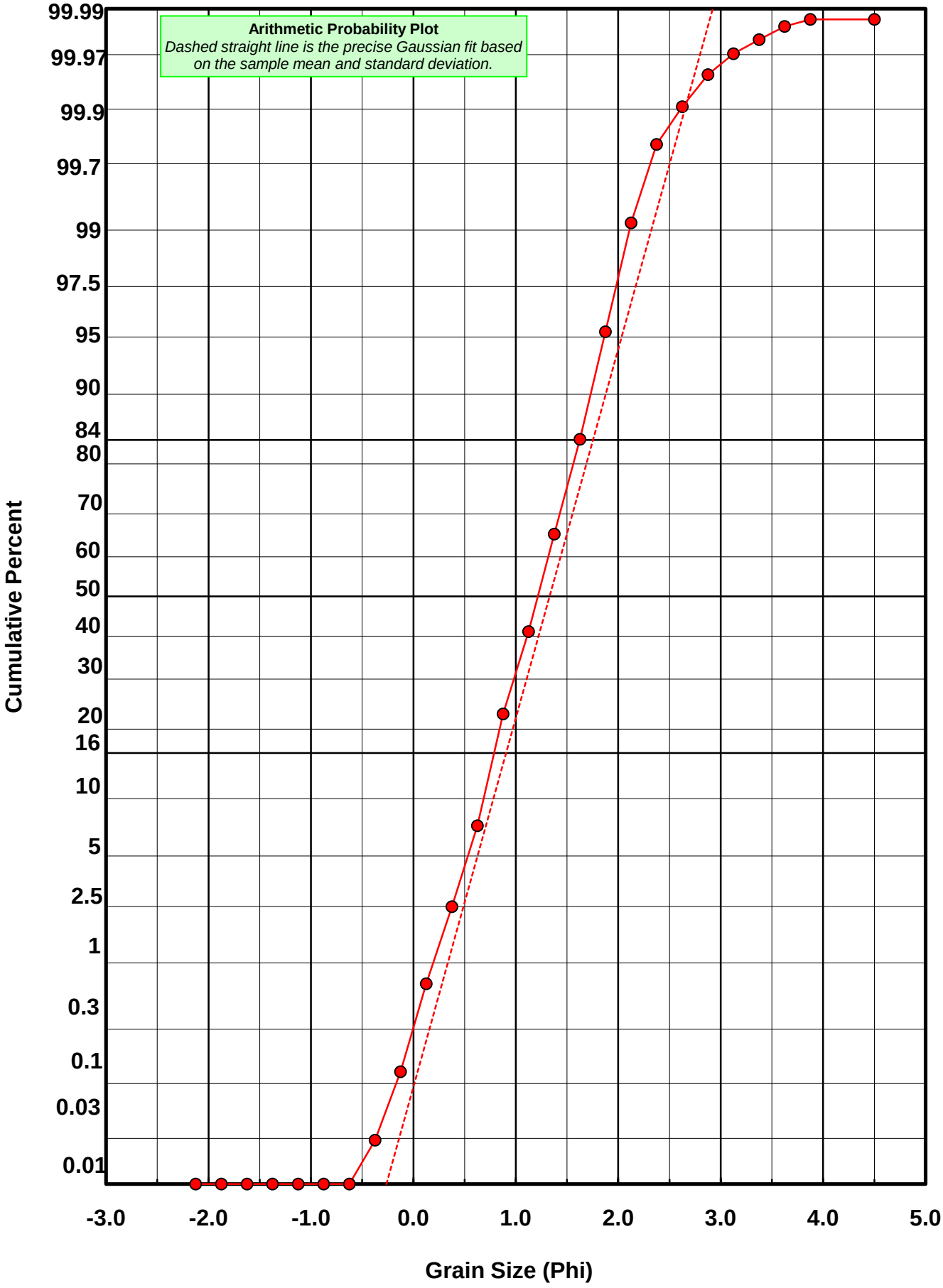
Millimeter data calculated by mm = 2^(-phi)

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)



OA-12-MB


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)