Onshore Grab Sample

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

County: Okaloosa
Latitude: 30° 23' 44.13"
Longitude: 86° 41' 33.21"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	63.955	grams
Total Fines in Sample	0.021	grams
Total Percent Fines	0.03	%

Dry Sieving Summary

Total Sample Weight	63.888	grams
Total Digested Weight	63.805	grams
Total Carbonate Weight	0.083	grams
Total Silica %	99.87	%
Total Carbonate %	0.13	%
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-14-MB

Total Sample Mass: 63.888 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	0.000	0.000	0.000
0.00	-0.125	0.000	0.000	0.000
0.25	0.125	0.000	0.000	0.000
0.50	0.375	0.009	0.014	0.014
0.75	0.625	0.022	0.034	0.049
1.00	0.875	0.166	0.260	0.308
1.25	1.125	0.886	1.387	1.695
1.50	1.375	5.449	8.529	10.224
1.75	1.625	17.361	27.174	37.398
2.00	1.875	24.235	37.934	75.332
2.25	2.125	12.564	19.666	94.997
2.50	2.375	2.433	3.808	98.806
2.75	2.625	0.552	0.864	99.670
3.00	2.875	0.161	0.252	99.922
3.25	3.125	0.037	0.058	99.980
3.50	3.375	0.008	0.013	99.992
3.75	3.625	0.002	0.003	99.995
4.00	3.875	0.001	0.002	99.997
5.00	4.500	0.000	0.000	99.997
5.00	4.50	0.002	0.003	100.000

Statistical Results			
Mean:	1.8291	phi	(0.2814 mm)
Standard Dev:	0.2819	phi-units	(0.8225 mm)
Skewness:	0.1262	dimensionless	
Kurtosis:	4.3344	dimensionless	
5th Moment:	5.0531	dimensionless	
6th Moment:	63.7159	dimensionless	
RARD *	0.1541	dimensionless	
Median	1.7081	phi	(0.3061 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation

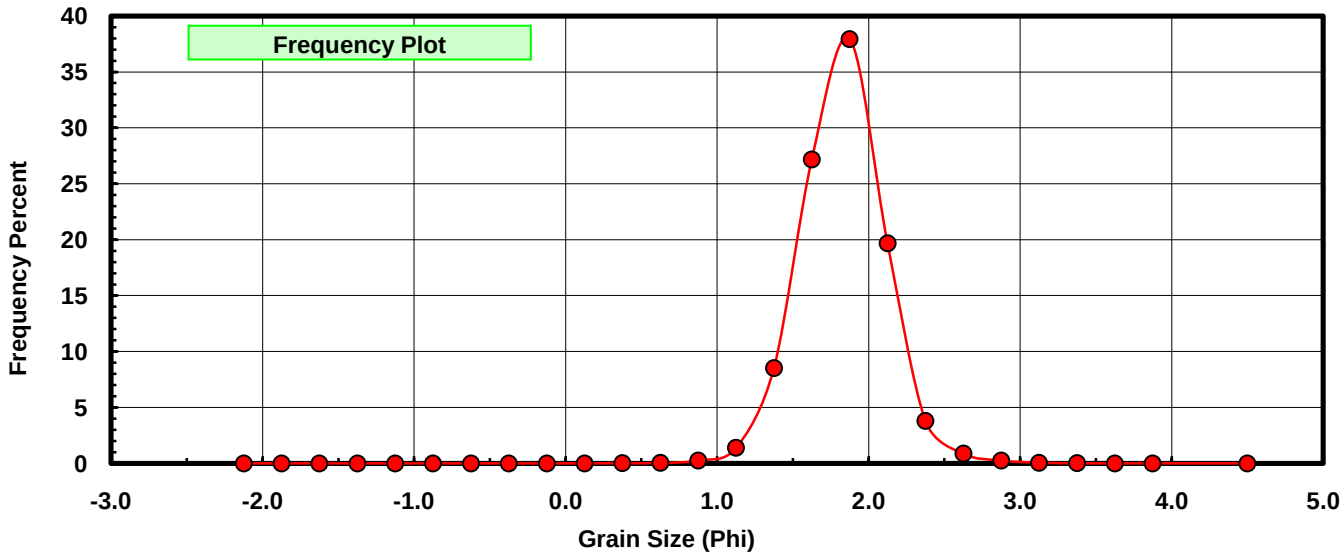
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle et al. 2002

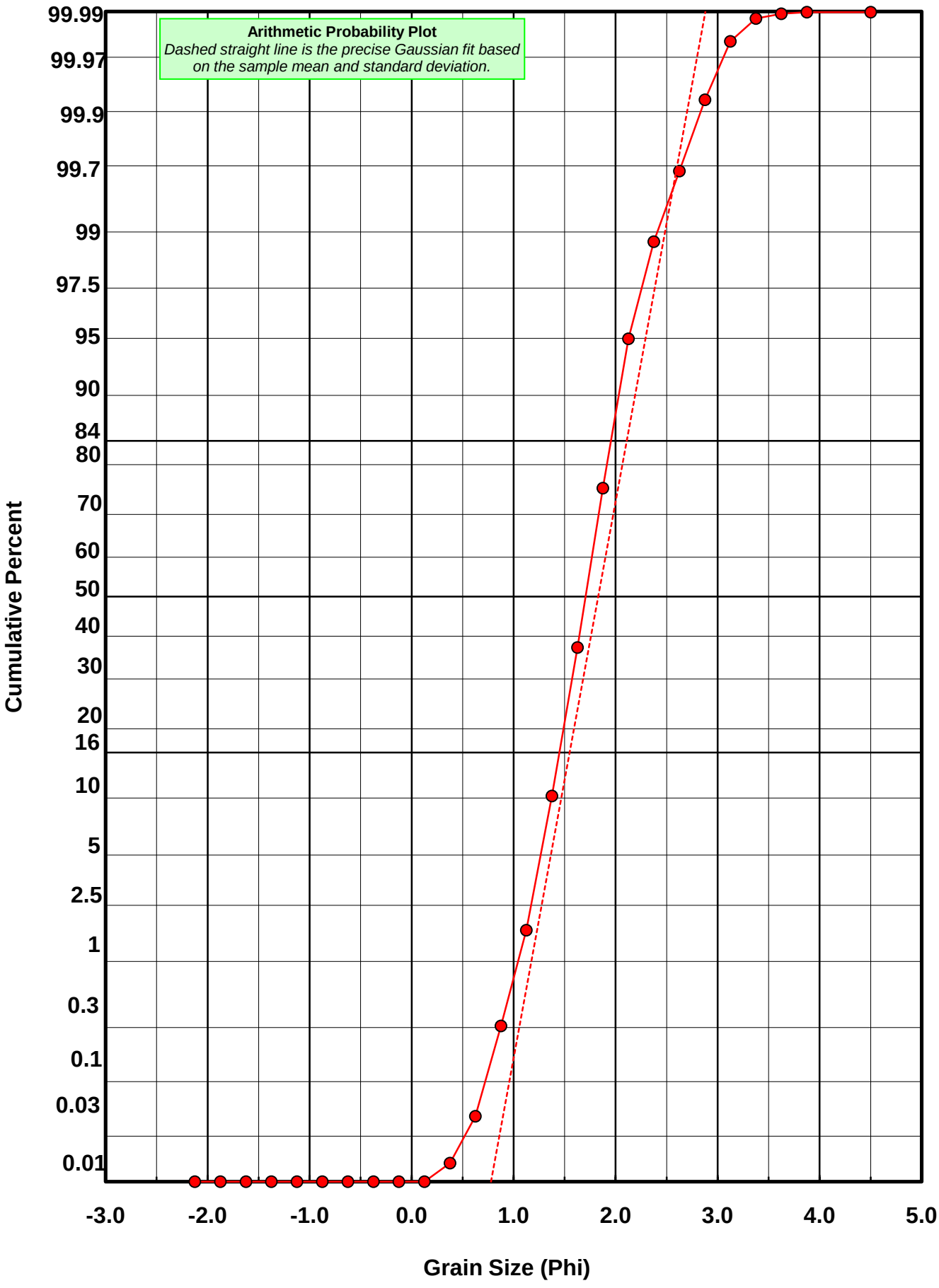
Millimeter data calculated by mm = 2^(-phi)

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-14-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)