Onshore Grab Sample

Sample: OA-08-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	76.105	grams
Total Fines in Sample	0.012	grams
Total Percent Fines	0.02	%

Dry Sieving Summary

Total Sample Weight	76.018	grams
Total Digested Weight	75.951	grams
Total Carbonate Weight	0.067	grams
Total Silica %	99.91	%
Total Carbonate %	0.09	%
Carbonate/Silica Ratio	0.001	

General Comments:

Original Weight (with Beaker): 381.559; 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-08-MB

Total Sample Mass: 76.018 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	0.002	0.003	0.003
-0.50	-0.625	0.002	0.003	0.005
-0.25	-0.375	0.000	0.000	0.005
0.00	-0.125	0.002	0.003	0.008
0.25	0.125	0.053	0.070	0.078
0.50	0.375	0.258	0.339	0.417
0.75	0.625	1.123	1.477	1.894
1.00	0.875	7.009	9.220	11.114
1.25	1.125	10.926	14.373	25.487
1.50	1.375	21.157	27.832	53.319
1.75	1.625	18.524	24.368	77.687
2.00	1.875	11.543	15.185	92.871
2.25	2.125	4.336	5.704	98.575
2.50	2.375	0.818	1.076	99.651
2.75	2.625	0.170	0.224	99.875
3.00	2.875	0.064	0.084	99.959
3.25	3.125	0.018	0.024	99.983
3.50	3.375	0.005	0.007	99.989
3.75	3.625	0.003	0.004	99.993
4.00	3.875	0.001	0.001	99.995
5.00	4.500	0.000	0.000	99.995
5.00	4.50	0.004	0.005	100.000

Statistical Results			
Mean:	1.4727	phi	(0.3603 mm)
Standard Dev:	0.3750	phi-units	(0.7711 mm)
Skewness:	0.0363	dimensionless	
Kurtosis:	3.4497	dimensionless	
5th Moment:	2.5597	dimensionless	
6th Moment:	38.0776	dimensionless	
RARD *	0.2546	dimensionless	
Median	1.3452	phi	(0.3936 mm)

* RARD = reciprocal absolute relative dispersion (see below)

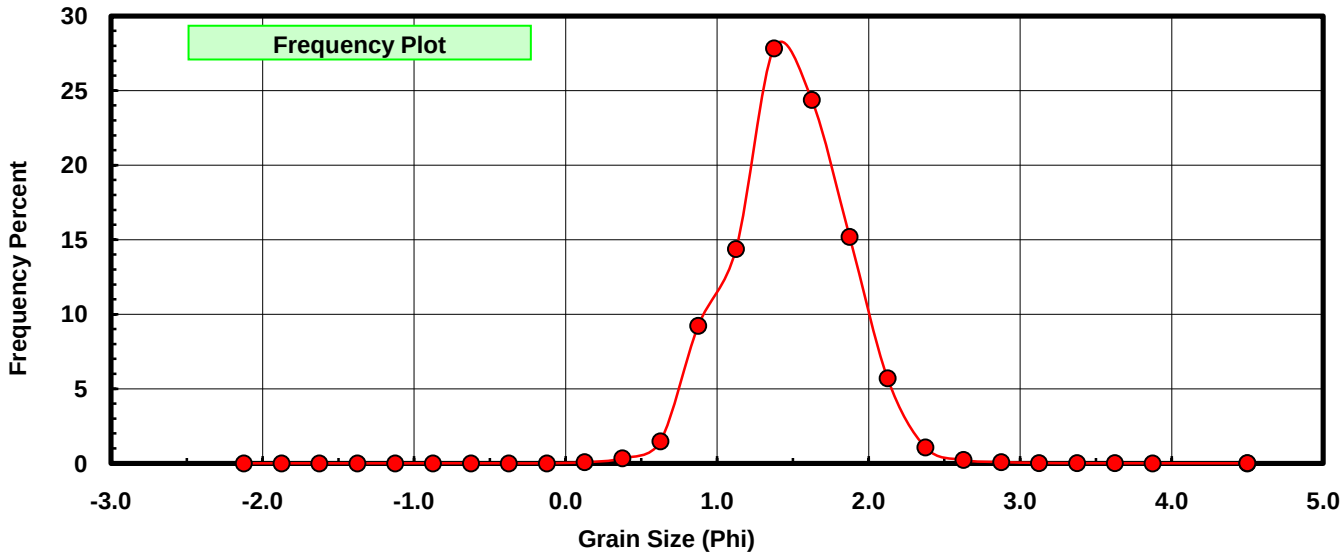
Statistical Explanation

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

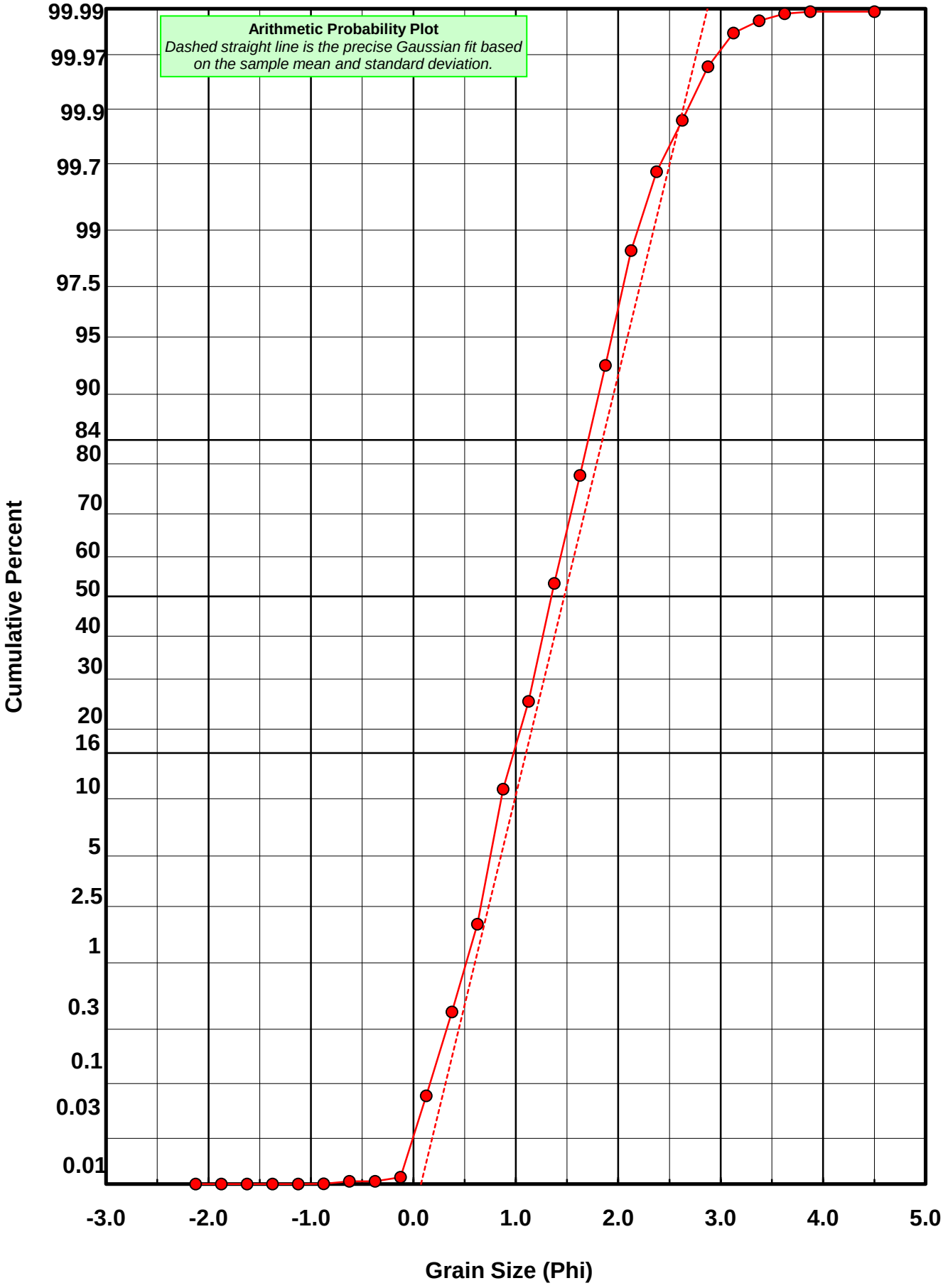
For Further Explanation, See Basillle et al. 2002

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-08-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)