Onshore Grab Sample

Sample: OA-21-MB
Sample Taken By: J. Ladner
Sample Collected On: 9/12/06
Splits? Yes

County: Okaloosa
Latitude: 30° 22' 59.62"
Longitude: 86° 29' 47.64"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	81.806	grams
Total Fines in Sample	0.038	grams
Total Percent Fines	0.05	%

Dry Sieving Summary

Total Sample Weight	81.701	grams
Total Digested Weight	81.629	grams
Total Carbonate Weight	0.072	grams
Total Silica %	99.91	%
Total Carbonate %	0.09	%
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-21-MB

Total Sample Mass: 81.701 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	0.020	0.024	0.024
-1.25	-1.375	0.020	0.024	0.049
-1.00	-1.125	0.000	0.000	0.049
-0.75	-0.875	0.005	0.006	0.055
-0.50	-0.625	0.010	0.012	0.067
-0.25	-0.375	0.012	0.015	0.082
0.00	-0.125	0.023	0.028	0.110
0.25	0.125	0.071	0.087	0.197
0.50	0.375	0.133	0.163	0.360
0.75	0.625	0.295	0.361	0.721
1.00	0.875	1.372	1.679	2.400
1.25	1.125	2.712	3.319	5.720
1.50	1.375	6.848	8.382	14.101
1.75	1.625	16.208	19.838	33.940
2.00	1.875	26.034	31.865	65.805
2.25	2.125	20.357	24.916	90.721
2.50	2.375	6.489	7.942	98.663
2.75	2.625	0.977	1.196	99.859
3.00	2.875	0.084	0.103	99.962
3.25	3.125	0.017	0.021	99.983
3.50	3.375	0.007	0.009	99.991
3.75	3.625	0.003	0.004	99.995
4.00	3.875	0.001	0.001	99.996
5.00	4.500	0.000	0.000	99.996
5.00	4.50	0.003	0.004	100.000

Statistical Results			
Mean:	1.8429	phi	(0.2788 mm)
Standard Dev:	0.3663	phi-units	(0.7758 mm)
Skewness:	-1.0963	dimensionless	
Kurtosis:	8.1759	dimensionless	
5th Moment:	-43.6046	dimensionless	
6th Moment:	367.1167	dimensionless	
RARD *	0.1988	dimensionless	
Median	1.7510	phi	(0.2971 mm)

* RARD = reciprocal absolute relative dispersion (see below)

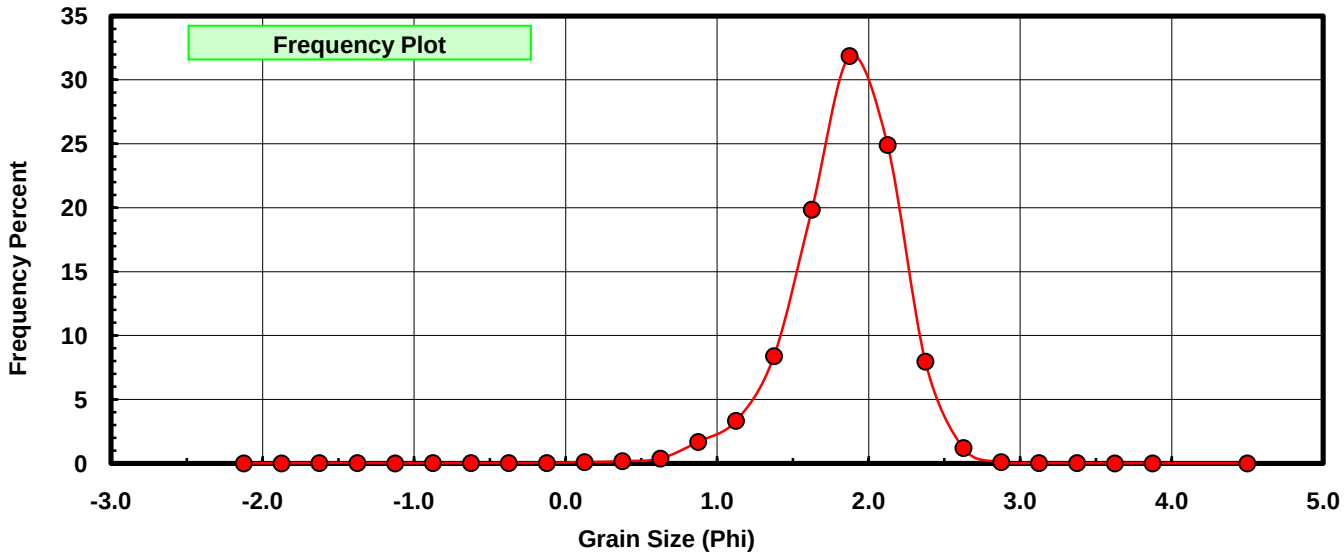
Statistical Explanation

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

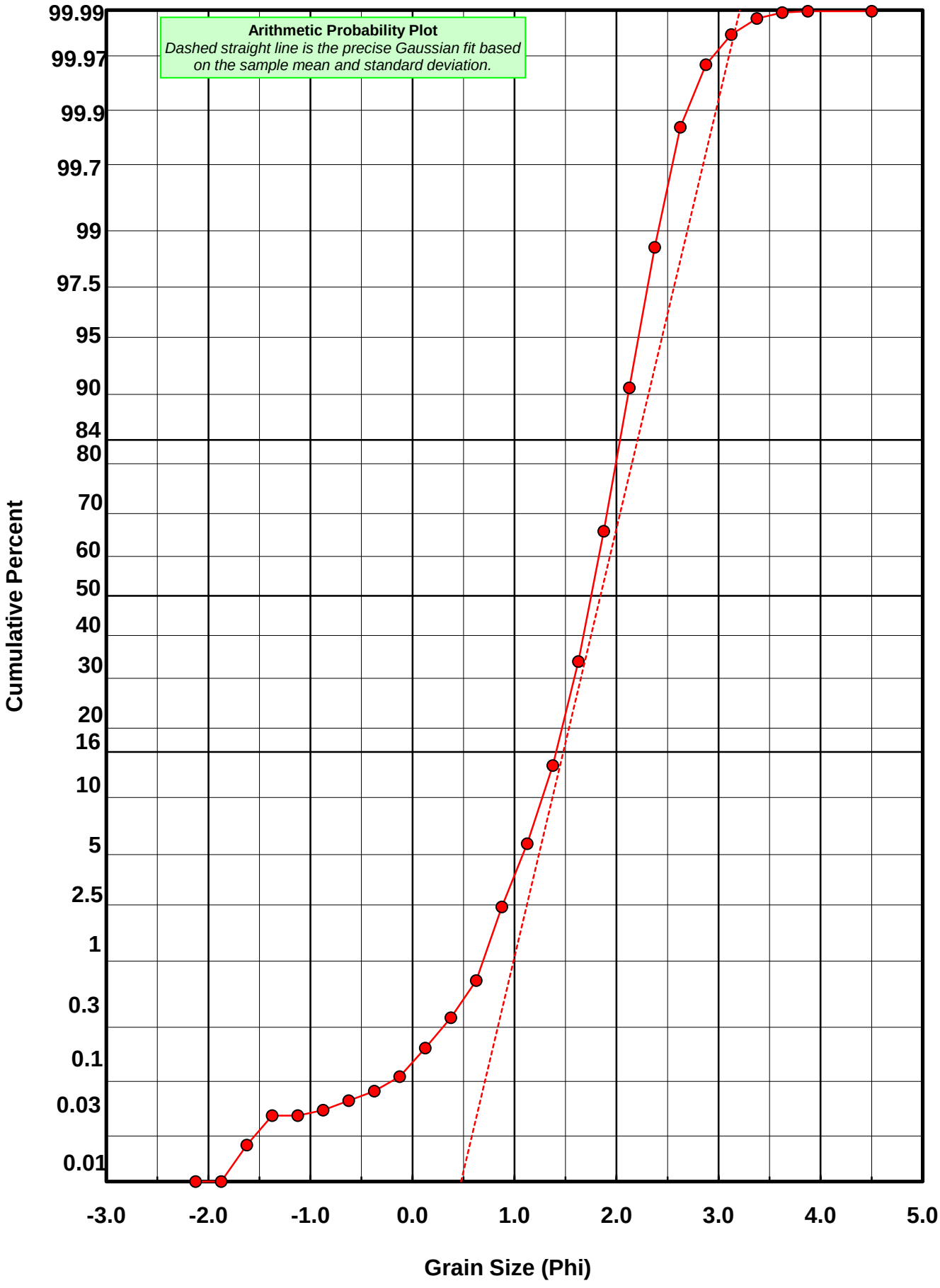
For Further Explanation, See Basillle et al. 2002

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-21-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)