Onshore Grab Sample

Sample: OA-27-MB
Sample Taken By: J. Ladner
Sample Collected On: 9/12/06
Splits? Yes

County: Okaloosa
Latitude: 30° 22' 47.3"
Longitude: 86° 23' 55.25"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	71.42	grams
Total Fines in Sample	0.035	grams
Total Percent Fines	0.05	%

Dry Sieving Summary

Total Sample Weight	71.320	grams
Total Digested Weight	71.276	grams
Total Carbonate Weight	0.044	grams
Total Silica %	99.94	%
Total Carbonate %	0.06	%
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-27-MB

Total Sample Mass: 71.320 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	0.010	0.014	0.014
-0.25	-0.375	0.018	0.025	0.039
0.00	-0.125	0.096	0.135	0.174
0.25	0.125	0.310	0.435	0.609
0.50	0.375	0.869	1.218	1.827
0.75	0.625	2.373	3.327	5.154
1.00	0.875	8.615	12.079	17.234
1.25	1.125	9.977	13.989	31.223
1.50	1.375	15.522	21.764	52.987
1.75	1.625	13.926	19.526	72.513
2.00	1.875	11.243	15.764	88.277
2.25	2.125	5.676	7.958	96.235
2.50	2.375	1.952	2.737	98.972
2.75	2.625	0.523	0.733	99.706
3.00	2.875	0.142	0.199	99.905
3.25	3.125	0.038	0.053	99.958
3.50	3.375	0.014	0.020	99.978
3.75	3.625	0.006	0.008	99.986
4.00	3.875	0.002	0.003	99.989
5.00	4.500	0.000	0.000	99.989
5.00	4.50	0.008	0.011	100.000

Statistical Results			
Mean:	1.4631	phi	(0.3627 mm)
Standard Dev:	0.4692	phi-units	(0.7224 mm)
Skewness:	-0.0302	dimensionless	
Kurtosis:	3.2862	dimensionless	
5th Moment:	0.8210	dimensionless	
6th Moment:	27.0817	dimensionless	
RARD *	0.3207	dimensionless	
Median	1.3407	phi	(0.3948 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

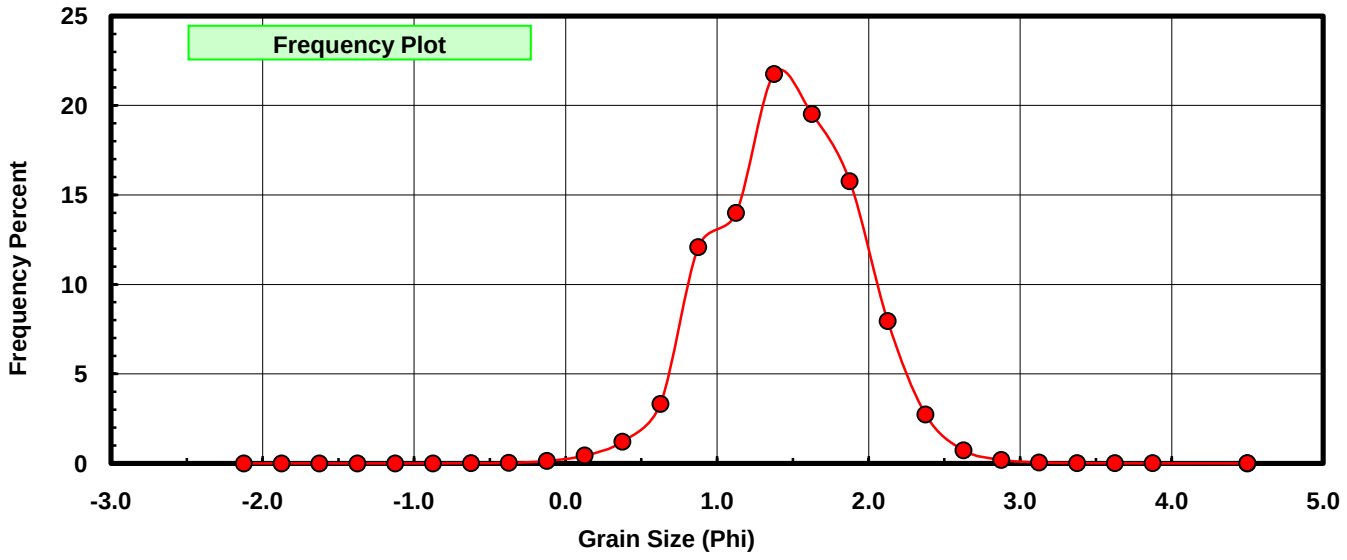
Statistical Explanation

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

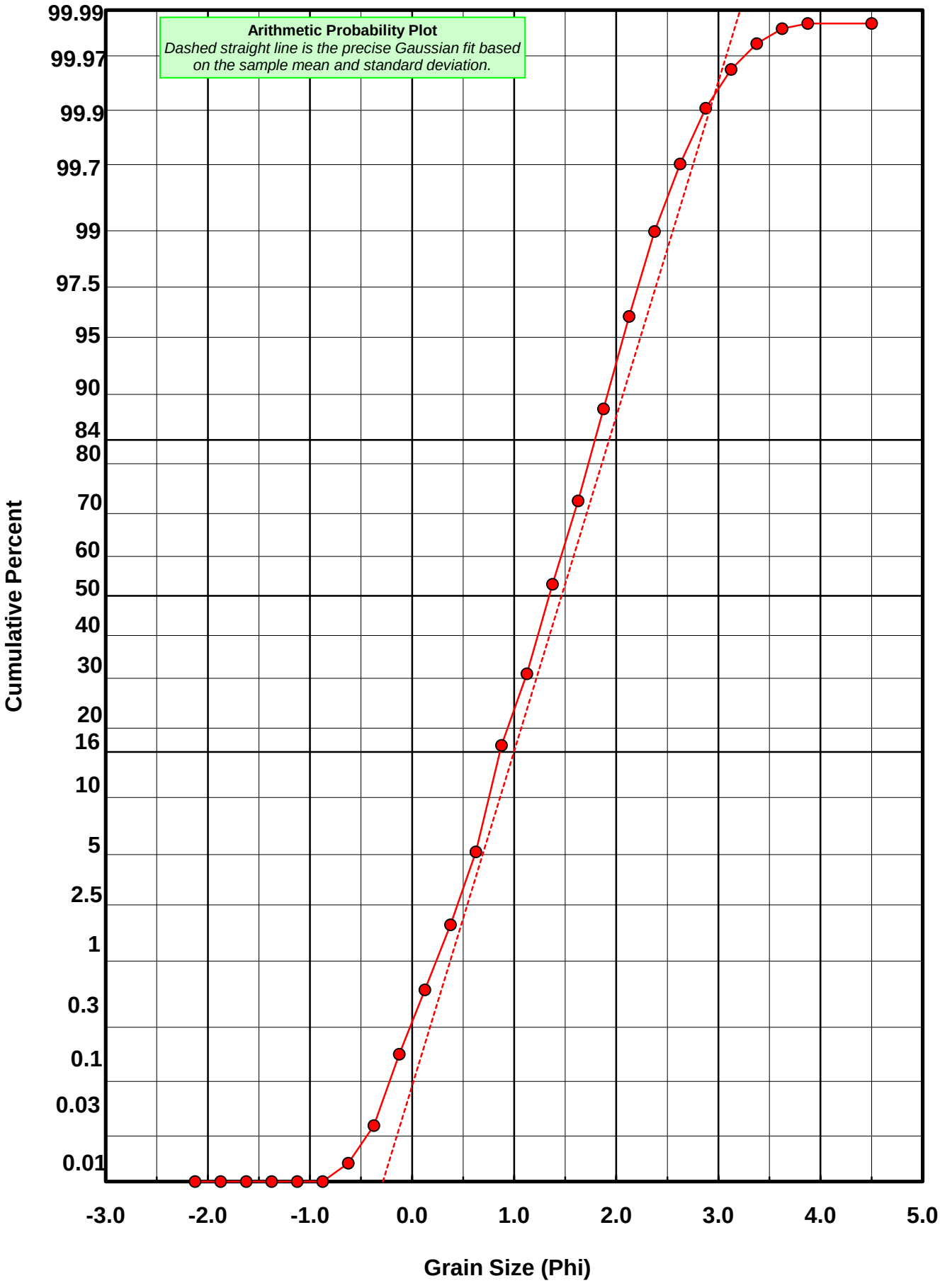
For Further Explanation, See Basillle et al. 2002

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-27-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)