Onshore Grab Sample

Sample: OA-12-SS
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	66.663	grams
Total Fines in Sample	0.744	grams
Total Percent Fines	1.10	%

Dry Sieving Summary

Total Sample Weight	65.872	grams
Total Digested Weight	65.811	grams
Total Carbonate Weight	0.061	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-12-SS

Total Sample Mass: 65.872 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	0.004	0.006	0.006
0.25	0.125	0.021	0.032	0.038
0.50	0.375	0.200	0.304	0.342
0.75	0.625	0.817	1.240	1.582
1.00	0.875	3.417	5.187	6.769
1.25	1.125	6.262	9.506	16.276
1.50	1.375	16.671	25.308	41.584
1.75	1.625	19.678	29.873	71.457
2.00	1.875	13.941	21.164	92.621
2.25	2.125	4.189	6.359	98.980
2.50	2.375	0.609	0.925	99.904
2.75	2.625	0.039	0.059	99.964
3.00	2.875	0.006	0.009	99.973
3.25	3.125	0.004	0.006	99.979
3.50	3.375	0.004	0.006	99.985
3.75	3.625	0.002	0.003	99.988
4.00	3.875	0.001	0.002	99.989
5.00	4.500	0.000	0.000	99.989
5.00	4.50	0.007	0.011	100.000

Statistical Results			
Mean:	1.5515	phi	(0.3412 mm)
Standard Dev:	0.3459	phi-units	(0.7868 mm)
Skewness:	-0.2858	dimensionless	
Kurtosis:	3.9425	dimensionless	
5th Moment:	2.1258	dimensionless	
6th Moment:	65.1885	dimensionless	
RARD *	0.2230	dimensionless	
Median	1.4454	phi	(0.3672 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

Statistical Explanation

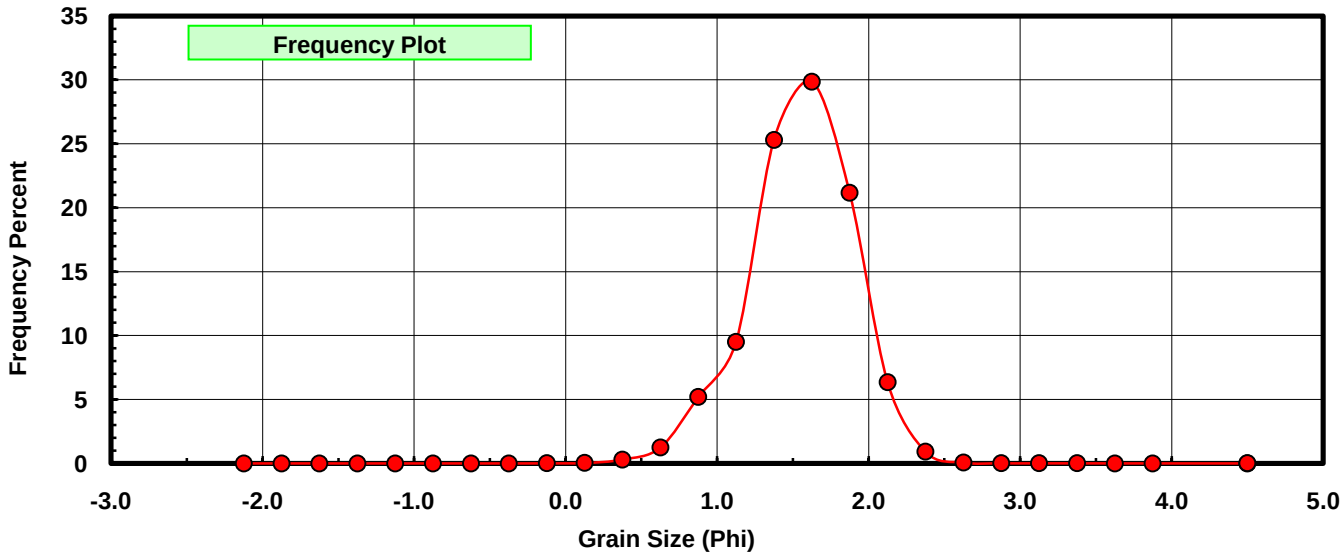
Calculations based on the Method of Moments
Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0
Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0

For Further Explanation, See Basillle et al. 2002

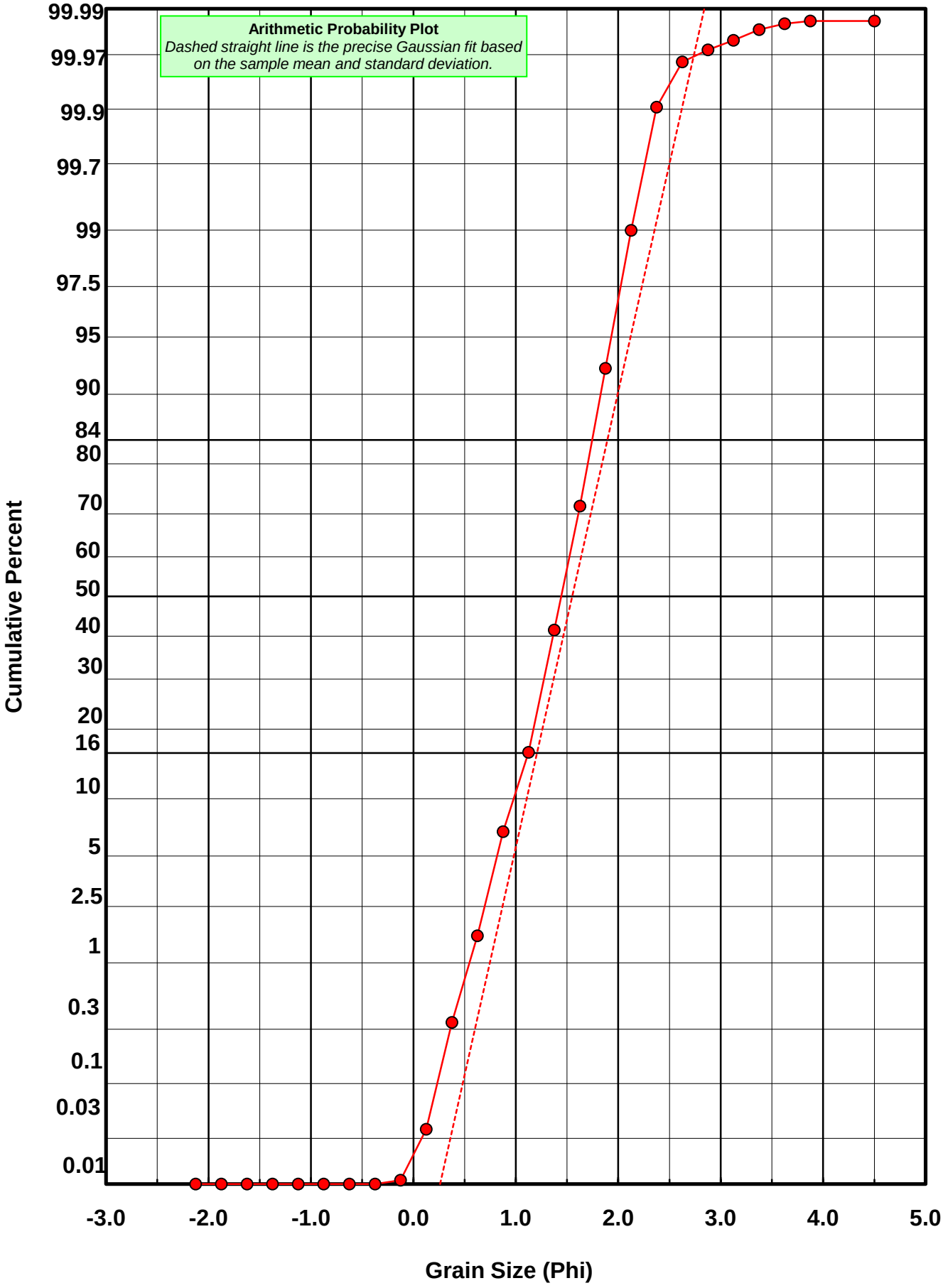
Millimeter data calculated by mm = 2^(-phi)

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-SS


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)