Onshore Grab Sample

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

County: Okaloosa
Latitude: 30° 23' 39.87"
Longitude: 86° 43' 27.26"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	72.72	grams
Total Fines in Sample	0.879	grams
Total Percent Fines	1.19	%

Dry Sieving Summary

Total Sample Weight	71.783	grams
Total Digested Weight	71.613	grams
Total Carbonate Weight	0.170	grams
Total Silica %	99.76	%
Total Carbonate %	0.24	%
Carbonate/Silica Ratio	0.002	

General Comments:

Original Weight (with Beaker): 356.713; 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-06-SS

Total Sample Mass: 71.783 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	0.012	0.017	0.017
0.00	-0.125	0.051	0.071	0.088
0.25	0.125	0.351	0.489	0.577
0.50	0.375	1.547	2.155	2.732
0.75	0.625	4.321	6.020	8.751
1.00	0.875	11.612	16.177	24.928
1.25	1.125	13.794	19.216	44.144
1.50	1.375	16.930	23.585	67.729
1.75	1.625	14.439	20.115	87.844
2.00	1.875	6.945	9.675	97.519
2.25	2.125	1.618	2.254	99.773
2.50	2.375	0.124	0.173	99.946
2.75	2.625	0.012	0.017	99.962
3.00	2.875	0.005	0.007	99.969
3.25	3.125	0.007	0.010	99.979
3.50	3.375	0.005	0.007	99.986
3.75	3.625	0.003	0.004	99.990
4.00	3.875	0.001	0.001	99.992
5.00	4.500	0.000	0.000	99.992
5.00	4.50	0.006	0.008	100.000

Statistical Results			
Mean:	1.2902	phi	(0.4089 mm)
Standard Dev:	0.4074	phi-units	(0.754 mm)
Skewness:	-0.1410	dimensionless	
Kurtosis:	3.1765	dimensionless	
5th Moment:	1.6237	dimensionless	
6th Moment:	37.3789	dimensionless	
RARD *	0.3158	dimensionless	
Median	1.1871	phi	(0.4392 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

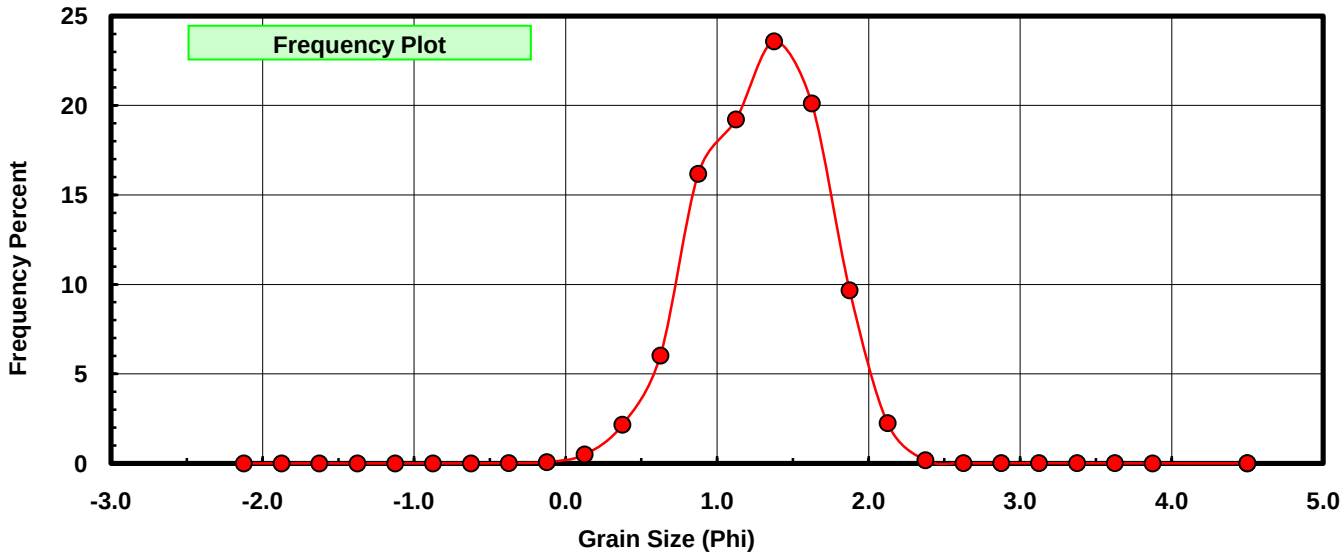
Statistical Explanation

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

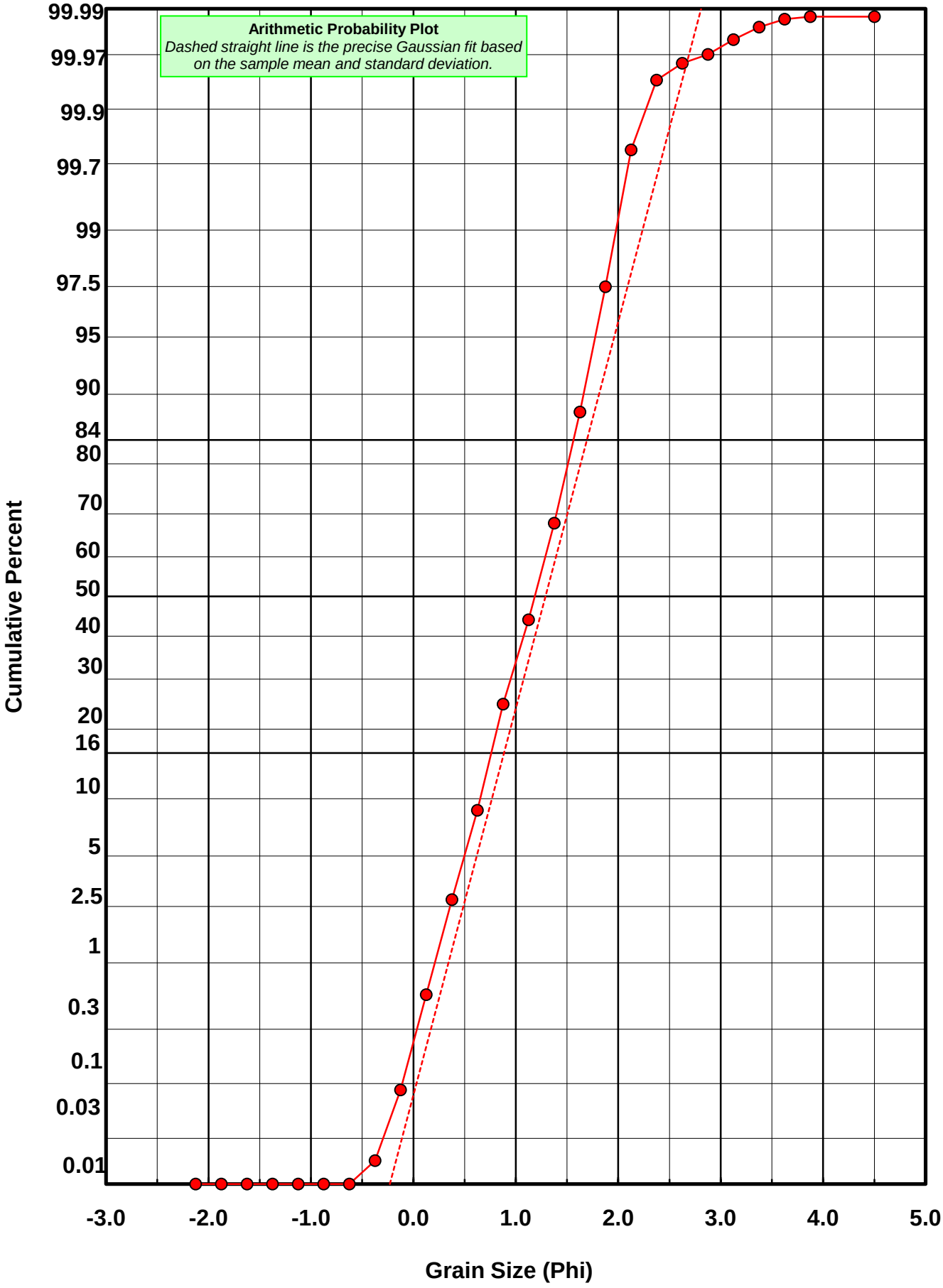
For Further Explanation, See Basillle et al. 2002

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-06-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)