Onshore Grab Sample

Sample: OA-19-SS
Sample Taken By: J. Ladner
Sample Collected On: 9/14/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 19.15"
Longitude: 86° 32' 8.55"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	68.145	grams
Total Fines in Sample	0.641	grams
Total Percent Fines	0.93	%

Dry Sieving Summary

Total Sample Weight	67.446	grams
Total Digested Weight	67.371	grams
Total Carbonate Weight	0.075	grams
Total Silica %	99.89	%
Total Carbonate %	0.11	%
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-19-SS

Total Sample Mass: 67.446 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	0.009	0.013	0.013
-0.25	-0.375	0.008	0.012	0.025
0.00	-0.125	0.025	0.037	0.062
0.25	0.125	0.119	0.176	0.239
0.50	0.375	0.366	0.543	0.781
0.75	0.625	1.033	1.532	2.313
1.00	0.875	4.006	5.940	8.253
1.25	1.125	6.134	9.095	17.347
1.50	1.375	11.755	17.429	34.776
1.75	1.625	16.660	24.701	59.477
2.00	1.875	16.186	23.998	83.476
2.25	2.125	8.843	13.111	96.587
2.50	2.375	2.088	3.096	99.683
2.75	2.625	0.176	0.261	99.944
3.00	2.875	0.013	0.019	99.963
3.25	3.125	0.009	0.013	99.976
3.50	3.375	0.006	0.009	99.985
3.75	3.625	0.004	0.006	99.991
4.00	3.875	0.002	0.003	99.994
5.00	4.500	0.000	0.000	99.994
5.00	4.50	0.004	0.006	100.000

Statistical Results			
Mean:	1.6178	phi	(0.3258 mm)
Standard Dev:	0.4112	phi-units	(0.752 mm)
Skewness:	-0.4751	dimensionless	
Kurtosis:	3.5406	dimensionless	
5th Moment:	-3.7765	dimensionless	
6th Moment:	33.1496	dimensionless	
RARD *	0.2542	dimensionless	
Median	1.5291	phi	(0.3465 mm)

* RARD = reciprocal absolute relative dispersion (see below)

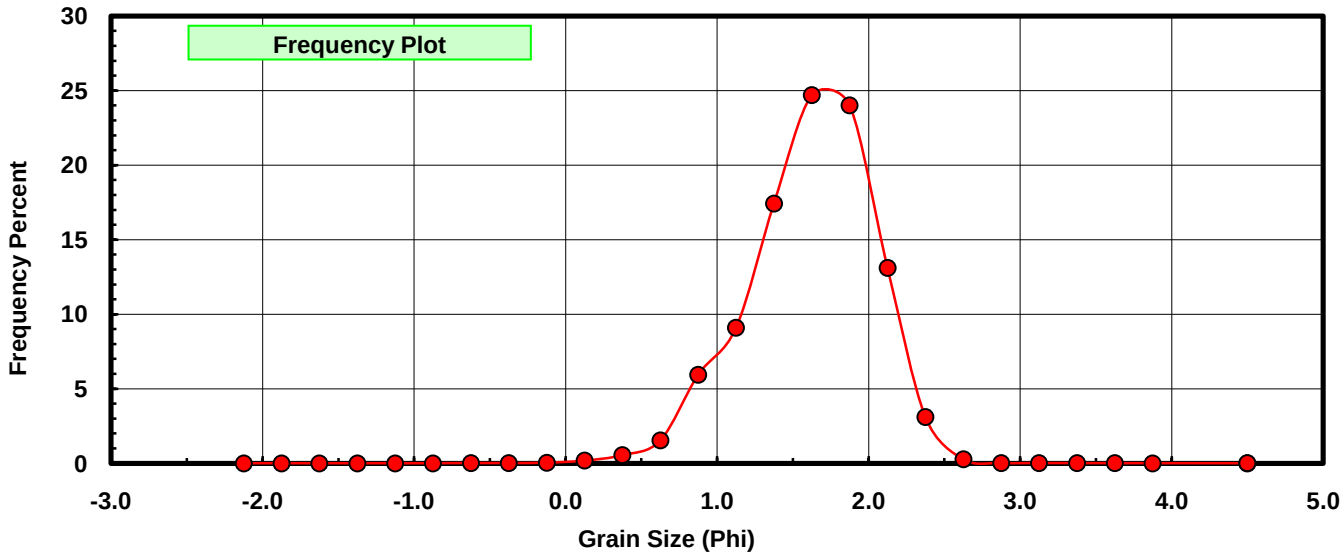
Statistical Explanation

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

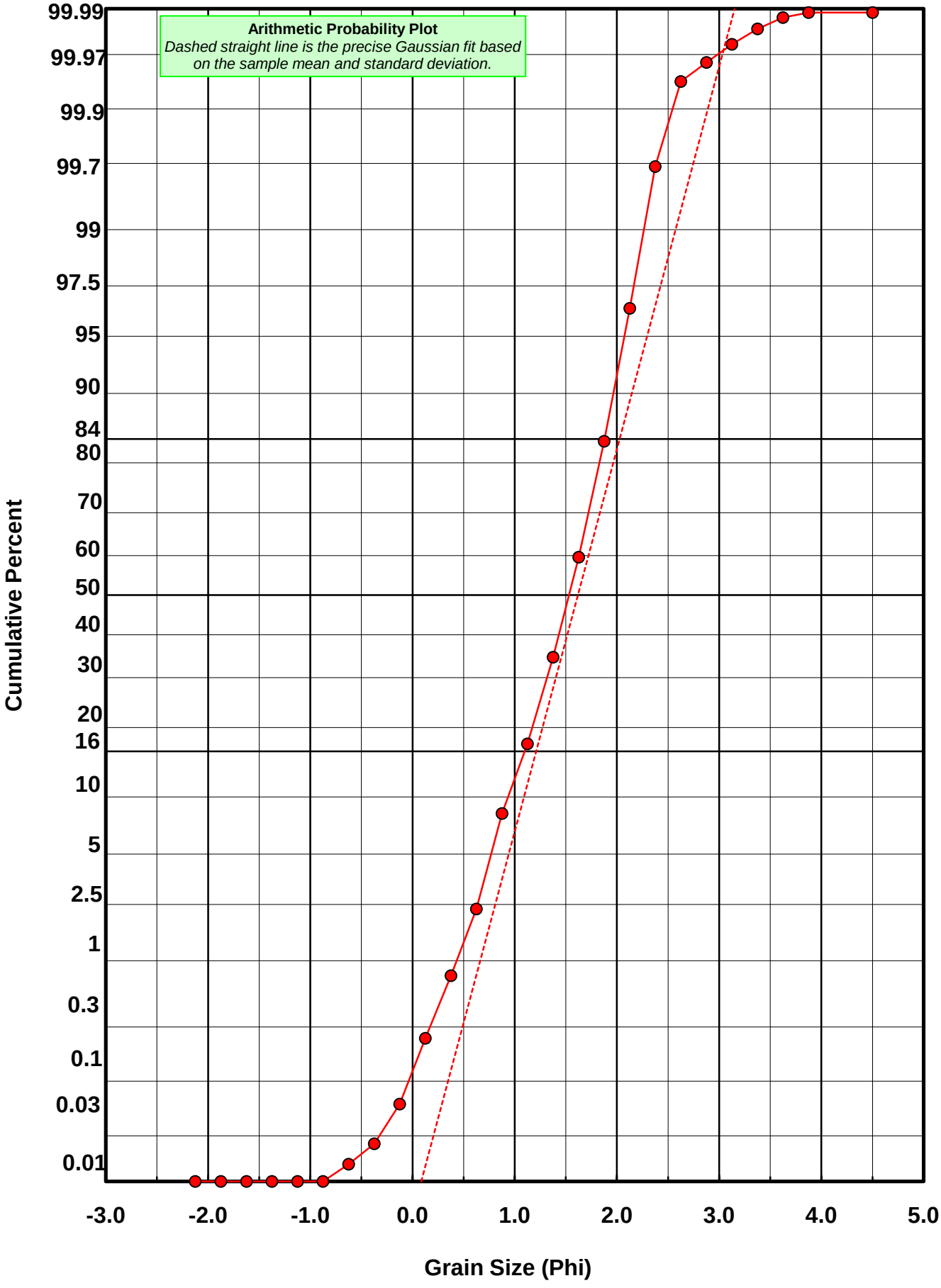
For Further Explanation, See Basillle et al. 2002

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-19-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)