Onshore Grab Sample

Sample: OA-13-SS
Sample Taken By: J. Ladner
Sample Collected On: 9/14/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 48.20"
Longitude: 86° 37' 9.58"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	64.678	grams
Total Fines in Sample	0.624	grams
Total Percent Fines	0.96	%

Dry Sieving Summary

Total Sample Weight	63.952	grams
Total Digested Weight	63.892	grams
Total Carbonate Weight	0.060	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-13-SS

Total Sample Mass: 63.952 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	0.004	0.006	0.006
-0.25	-0.375	0.004	0.006	0.013
0.00	-0.125	0.013	0.020	0.033
0.25	0.125	0.057	0.089	0.122
0.50	0.375	0.173	0.271	0.392
0.75	0.625	0.585	0.915	1.307
1.00	0.875	2.171	3.395	4.702
1.25	1.125	4.653	7.276	11.978
1.50	1.375	12.446	19.461	31.439
1.75	1.625	20.899	32.679	64.118
2.00	1.875	16.666	26.060	90.179
2.25	2.125	5.512	8.619	98.798
2.50	2.375	0.690	1.079	99.876
2.75	2.625	0.052	0.081	99.958
3.00	2.875	0.006	0.009	99.967
3.25	3.125	0.005	0.008	99.975
3.50	3.375	0.004	0.006	99.981
3.75	3.625	0.002	0.003	99.984
4.00	3.875	0.003	0.005	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:	1.6180	phi	(0.3258 mm)
Standard Dev:	0.3380	phi-units	(0.7911 mm)
Skewness:	-0.5118	dimensionless	
Kurtosis:	4.7681	dimensionless	
5th Moment:	-1.8526	dimensionless	
6th Moment:	89.5754	dimensionless	
RARD *	0.2089	dimensionless	
Median	1.5170	phi	(0.3494 mm)

* RARD = reciprocal absolute relative dispersion (see below)

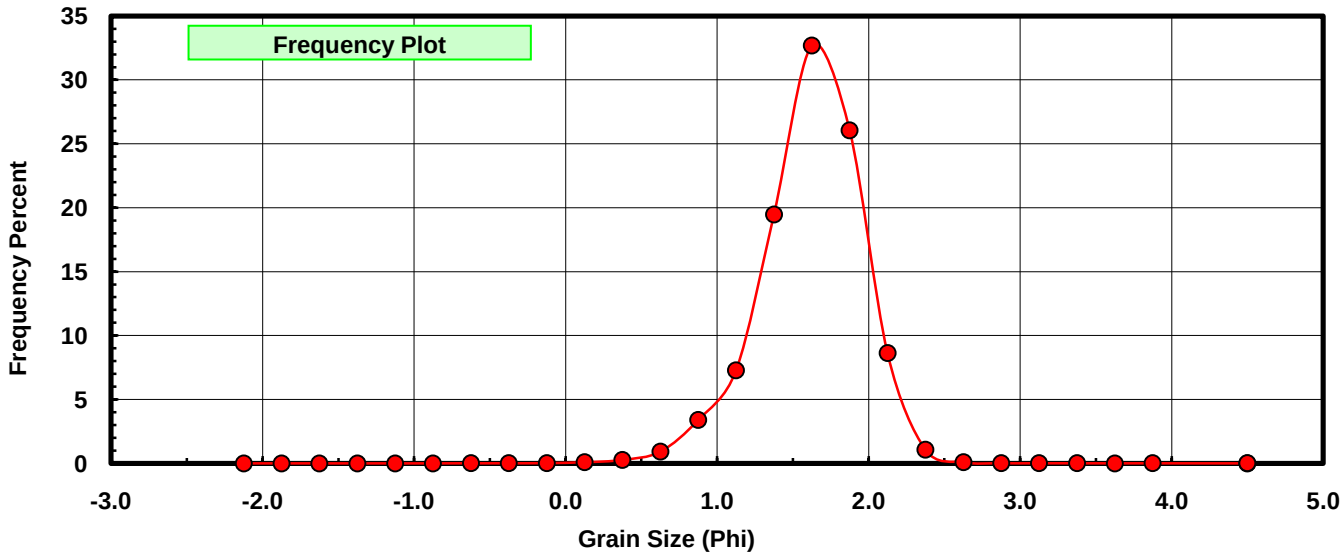
Statistical Explanation

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

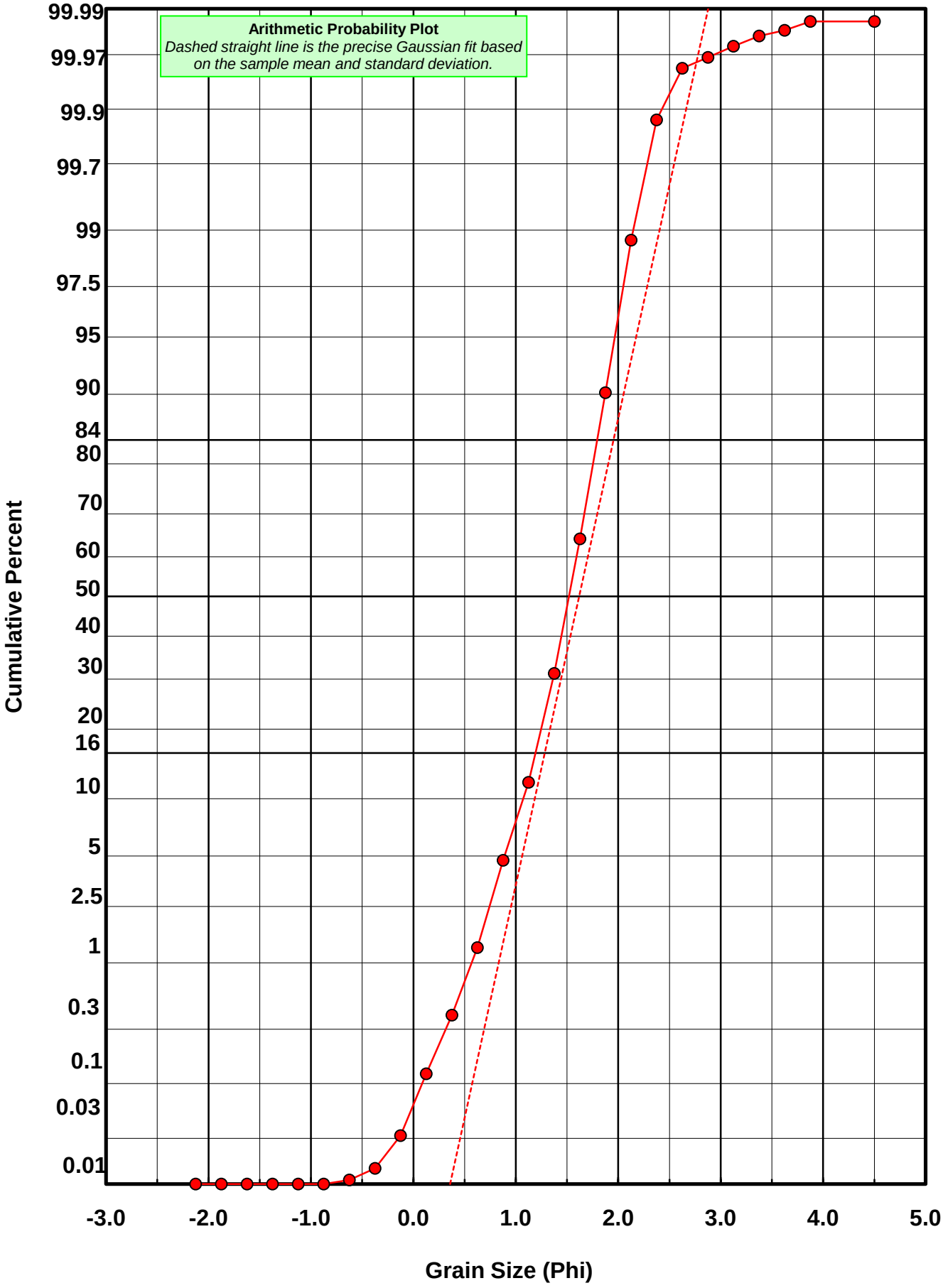
For Further Explanation, See Basillle et al. 2002

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-13-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)