Onshore Grab Sample

Sample: OA-18-SS
Sample Taken By: J. Ladner
Sample Collected On: 9/14/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 23.27"
Longitude: 86° 33' 5.42"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	78.282	grams
Total Fines in Sample	0.735	grams
Total Percent Fines	0.93	%

Dry Sieving Summary

Total Sample Weight	77.461	grams
Total Digested Weight	71.189	grams
Total Carbonate Weight	6.272	grams
Total Silica %	91.90	%
Total Carbonate %	8.10	%
Carbonate/Silica Ratio	0.088	

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-18-SS

Total Sample Mass: 77.461 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	0.006	0.008	0.008
0.00	-0.125	0.027	0.035	0.043
0.25	0.125	0.118	0.152	0.195
0.50	0.375	0.262	0.338	0.533
0.75	0.625	0.756	0.976	1.509
1.00	0.875	3.829	4.943	6.452
1.25	1.125	7.947	10.259	16.712
1.50	1.375	19.147	24.718	41.430
1.75	1.625	22.036	28.448	69.878
2.00	1.875	16.087	20.768	90.646
2.25	2.125	6.112	7.890	98.536
2.50	2.375	1.017	1.313	99.849
2.75	2.625	0.084	0.108	99.957
3.00	2.875	0.011	0.014	99.972
3.25	3.125	0.006	0.008	99.979
3.50	3.375	0.006	0.008	99.987
3.75	3.625	0.001	0.001	99.988
4.00	3.875	0.004	0.005	99.994
5.00	4.500	0.000	0.000	99.994
5.00	4.50	0.005	0.006	100.000

Statistical Results			
Mean:	1.5609	phi	(0.3389 mm)
Standard Dev:	0.3591	phi-units	(0.7796 mm)
Skewness:	-0.3033	dimensionless	
Kurtosis:	3.9552	dimensionless	
5th Moment:	-1.3683	dimensionless	
6th Moment:	52.2267	dimensionless	
RARD *	0.2301	dimensionless	
Median	1.4503	phi	(0.3659 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

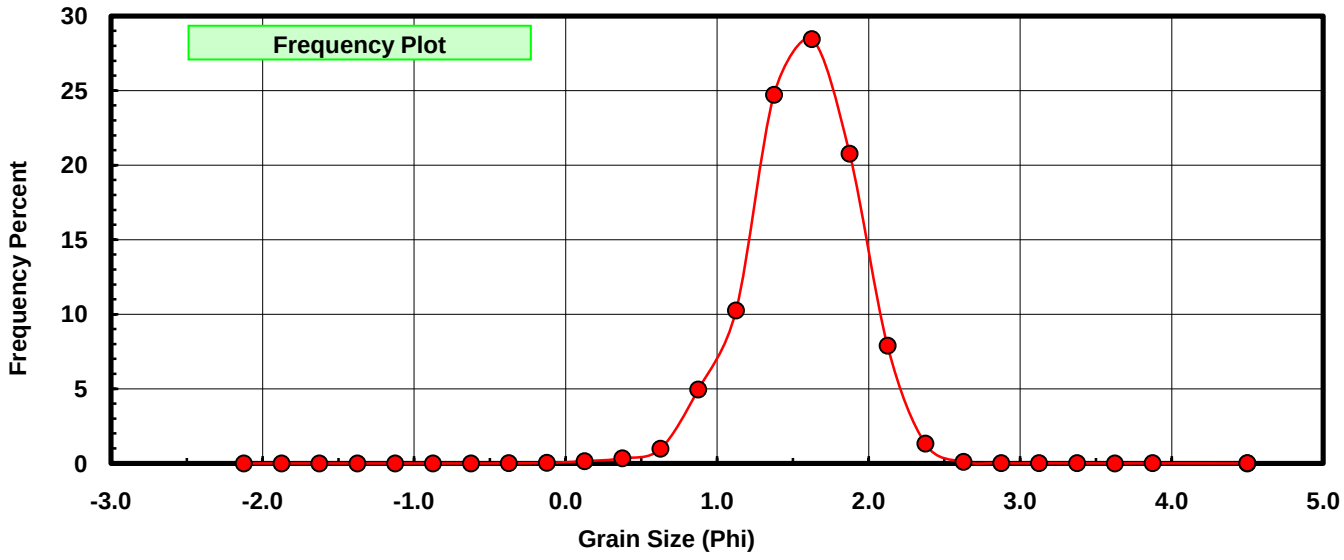
Statistical Explanation

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

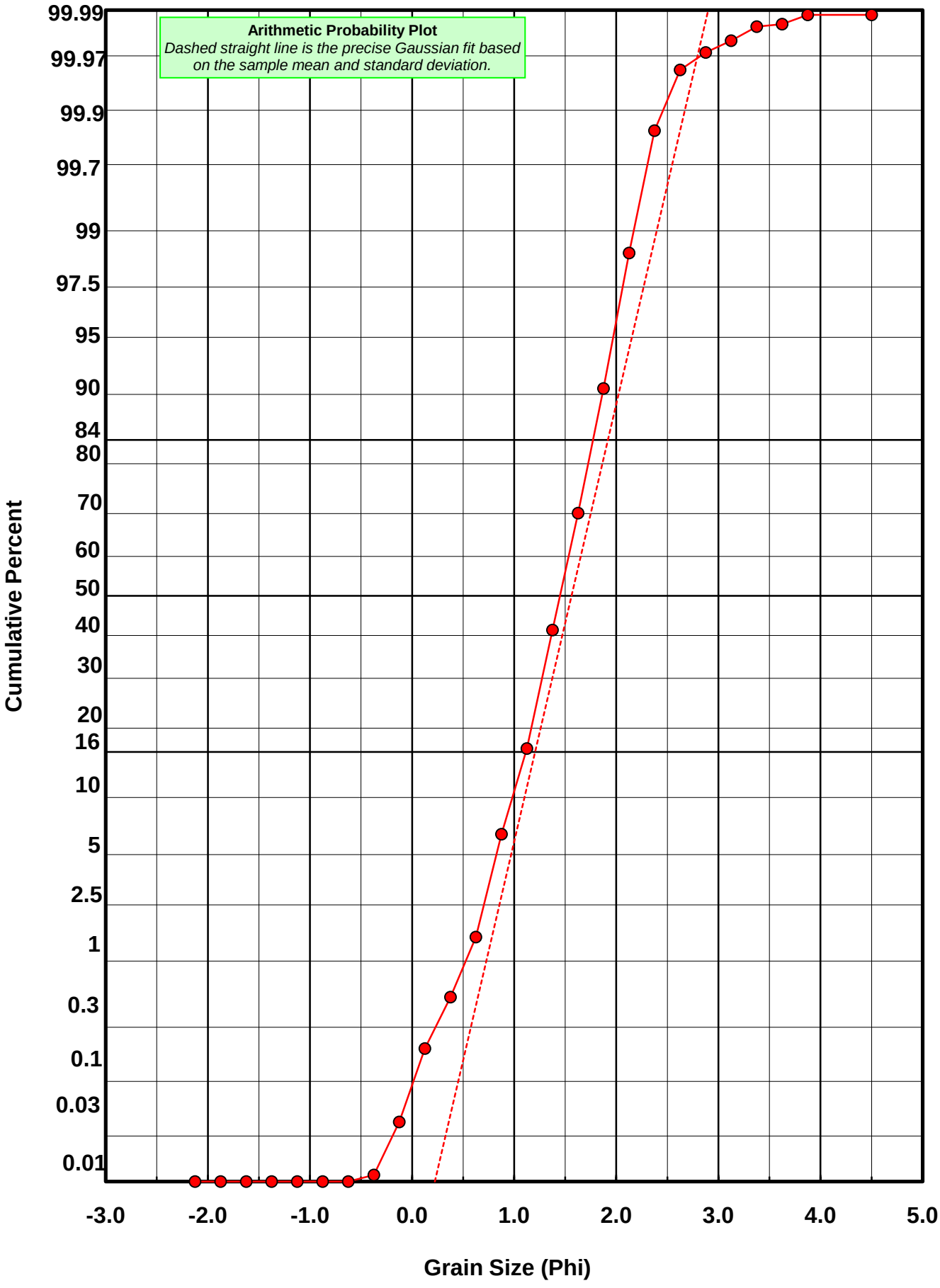
For Further Explanation, See Basillle et al. 2002

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-18-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)