Onshore Grab Sample

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

County: Okaloosa
Latitude: 30° 23' 44.13"
Longitude: 86° 41' 33.21"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	61.349	grams
Total Fines in Sample	0.577	grams
Total Percent Fines	0.93	%

Dry Sieving Summary

Total Sample Weight	60.618	grams
Total Digested Weight	60.548	grams
Total Carbonate Weight	0.070	grams
Total Silica %	99.88	%
Total Carbonate %	0.12	%
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-14-SS

Total Sample Mass: 60.618 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	0.011	0.018	0.018
0.00	-0.125	0.011	0.018	0.036
0.25	0.125	0.042	0.069	0.106
0.50	0.375	0.126	0.208	0.313
0.75	0.625	0.485	0.800	1.114
1.00	0.875	2.582	4.259	5.373
1.25	1.125	6.250	10.310	15.683
1.50	1.375	15.165	25.017	40.701
1.75	1.625	19.036	31.403	72.104
2.00	1.875	12.642	20.855	92.959
2.25	2.125	3.691	6.089	99.048
2.50	2.375	0.502	0.828	99.876
2.75	2.625	0.043	0.071	99.947
3.00	2.875	0.010	0.016	99.964
3.25	3.125	0.007	0.012	99.975
3.50	3.375	0.005	0.008	99.984
3.75	3.625	0.002	0.003	99.987
4.00	3.875	0.002	0.003	99.990
5.00	4.500	0.000	0.000	99.990
5.00	4.50	0.006	0.010	100.000

Statistical Results			
Mean:	1.5571	phi	(0.3398 mm)
Standard Dev:	0.3350	phi-units	(0.7928 mm)
Skewness:	-0.2590	dimensionless	
Kurtosis:	4.3814	dimensionless	
5th Moment:	1.7264	dimensionless	
6th Moment:	85.4611	dimensionless	
RARD *	0.2151	dimensionless	
Median	1.4490	phi	(0.3663 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

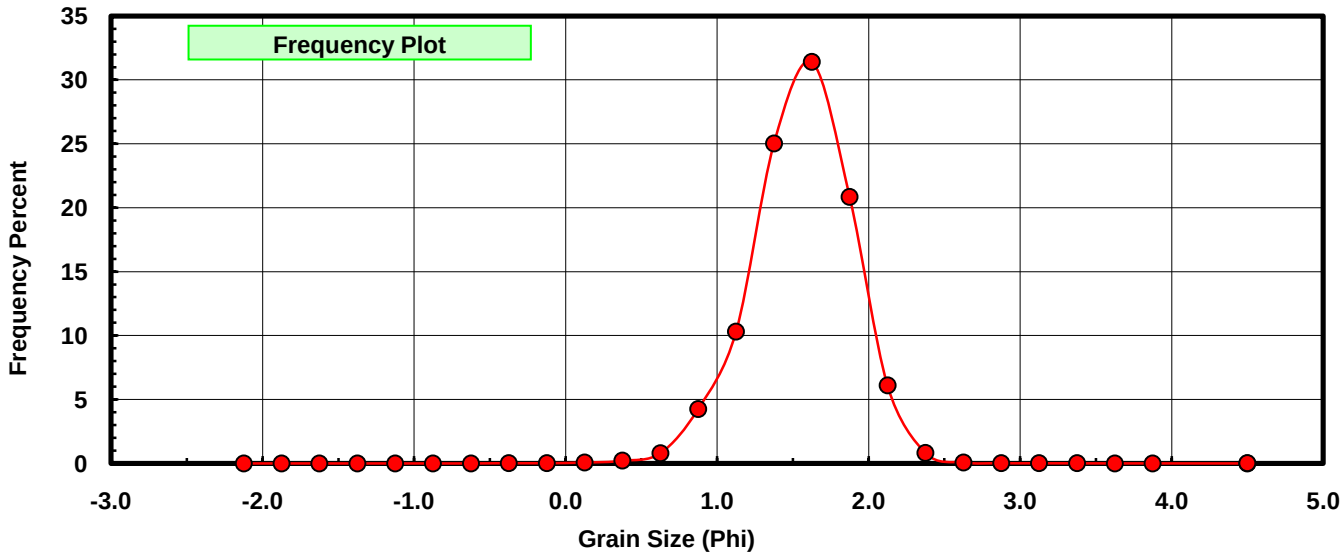
Statistical Explanation

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

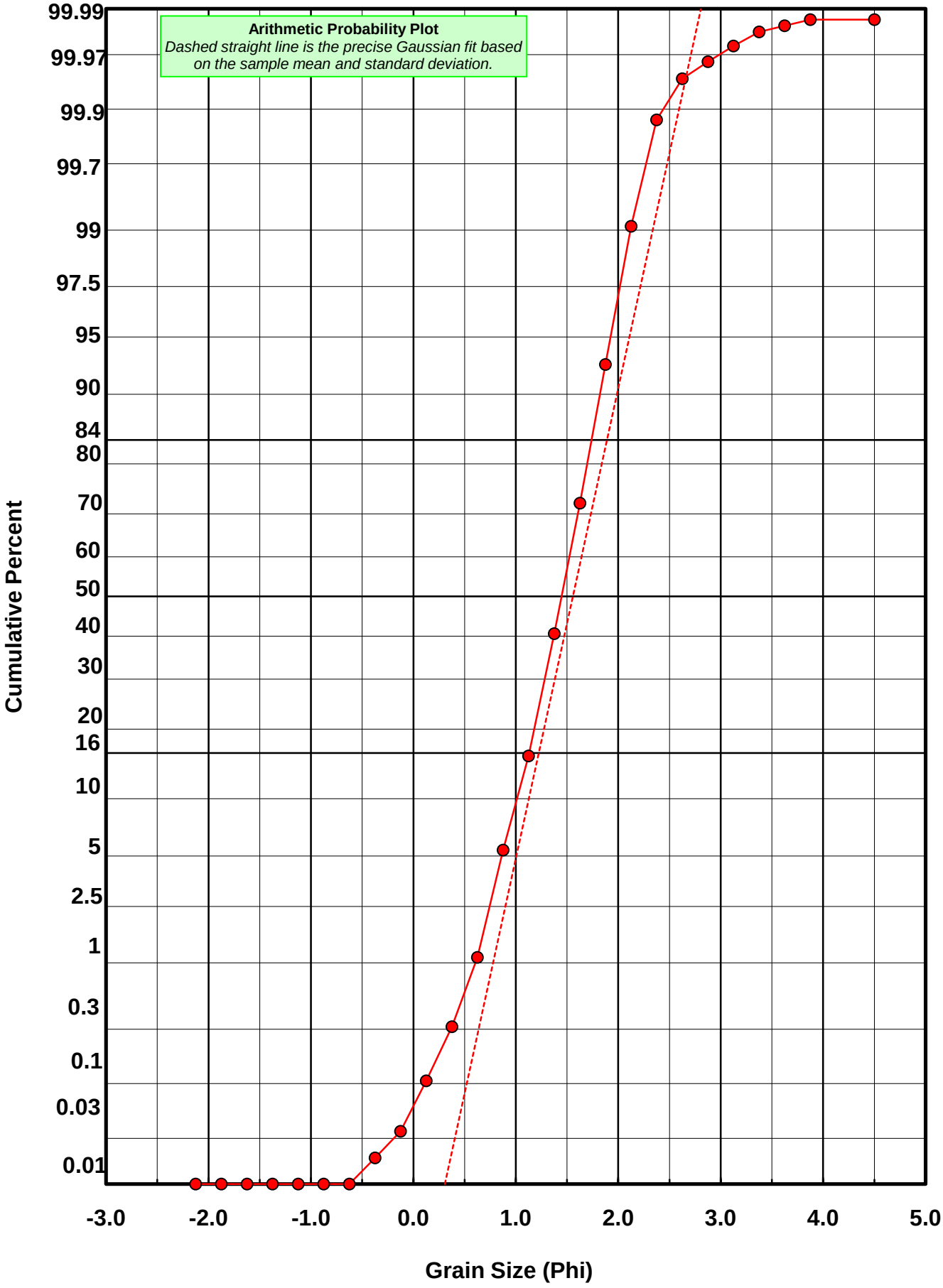
For Further Explanation, See Basillle et al. 2002

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-14-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)