Onshore Grab Sample

Sample: OA-24-MB
Sample Taken By: J. Ladner
Sample Collected On: 9/12/06
Splits? Yes

County: Okaloosa
Latitude: 30° 23' 0.77"
Longitude: 86° 26' 48.47"
Datum: NAD 83
Surf. Elev: N/A
Datum: N/A

Fine Data Summary

Total Sample Weight	70.033	grams
Total Fines in Sample	0.015	grams
Total Percent Fines	0.02	%

Dry Sieving Summary

Total Sample Weight	69.940	grams
Total Digested Weight	64.972	grams
Total Carbonate Weight	4.968	grams
Total Silica %	92.90	%
Total Carbonate %	7.10	%
Carbonate/Silica Ratio	0.076	

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-24-MB

Total Sample Mass: 69.940 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	0.009	0.013	0.013
-0.50	-0.625	0.020	0.029	0.041
-0.25	-0.375	0.134	0.192	0.233
0.00	-0.125	0.624	0.892	1.125
0.25	0.125	2.550	3.646	4.771
0.50	0.375	5.117	7.316	12.088
0.75	0.625	9.919	14.182	26.270
1.00	0.875	15.610	22.319	48.589
1.25	1.125	11.995	17.150	65.739
1.50	1.375	11.652	16.660	82.399
1.75	1.625	7.111	10.167	92.566
2.00	1.875	3.693	5.280	97.847
2.25	2.125	1.230	1.759	99.605
2.50	2.375	0.206	0.295	99.900
2.75	2.625	0.037	0.053	99.953
3.00	2.875	0.008	0.011	99.964
3.25	3.125	0.008	0.011	99.976
3.50	3.375	0.005	0.007	99.983
3.75	3.625	0.004	0.006	99.989
4.00	3.875	0.005	0.007	99.996
5.00	4.500	0.000	0.000	99.996
5.00	4.50	0.003	0.004	100.000

Statistical Results			
Mean:	1.0474	phi	(0.4838 mm)
Standard Dev:	0.4853	phi-units	(0.7144 mm)
Skewness:	0.0763	dimensionless	
Kurtosis:	3.0666	dimensionless	
5th Moment:	1.8202	dimensionless	
6th Moment:	23.7288	dimensionless	
RARD *	0.4633	dimensionless	
Median	0.8956	phi	(0.5375 mm)
* RARD = reciprocal absolute relative dispersion (see below)			

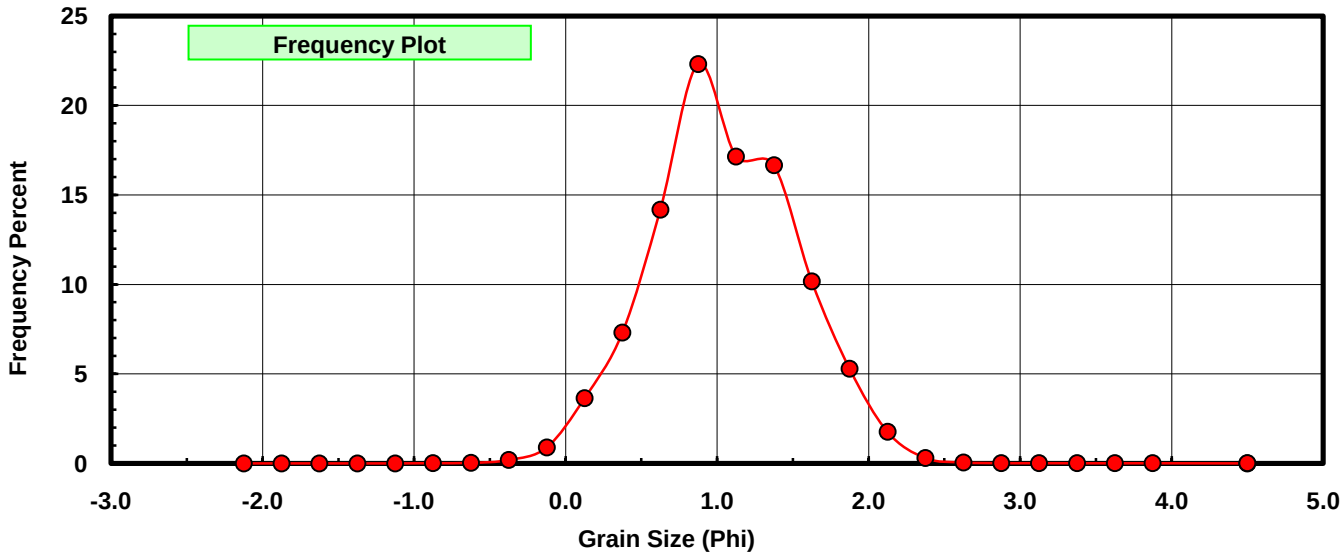
Statistical Explanation

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

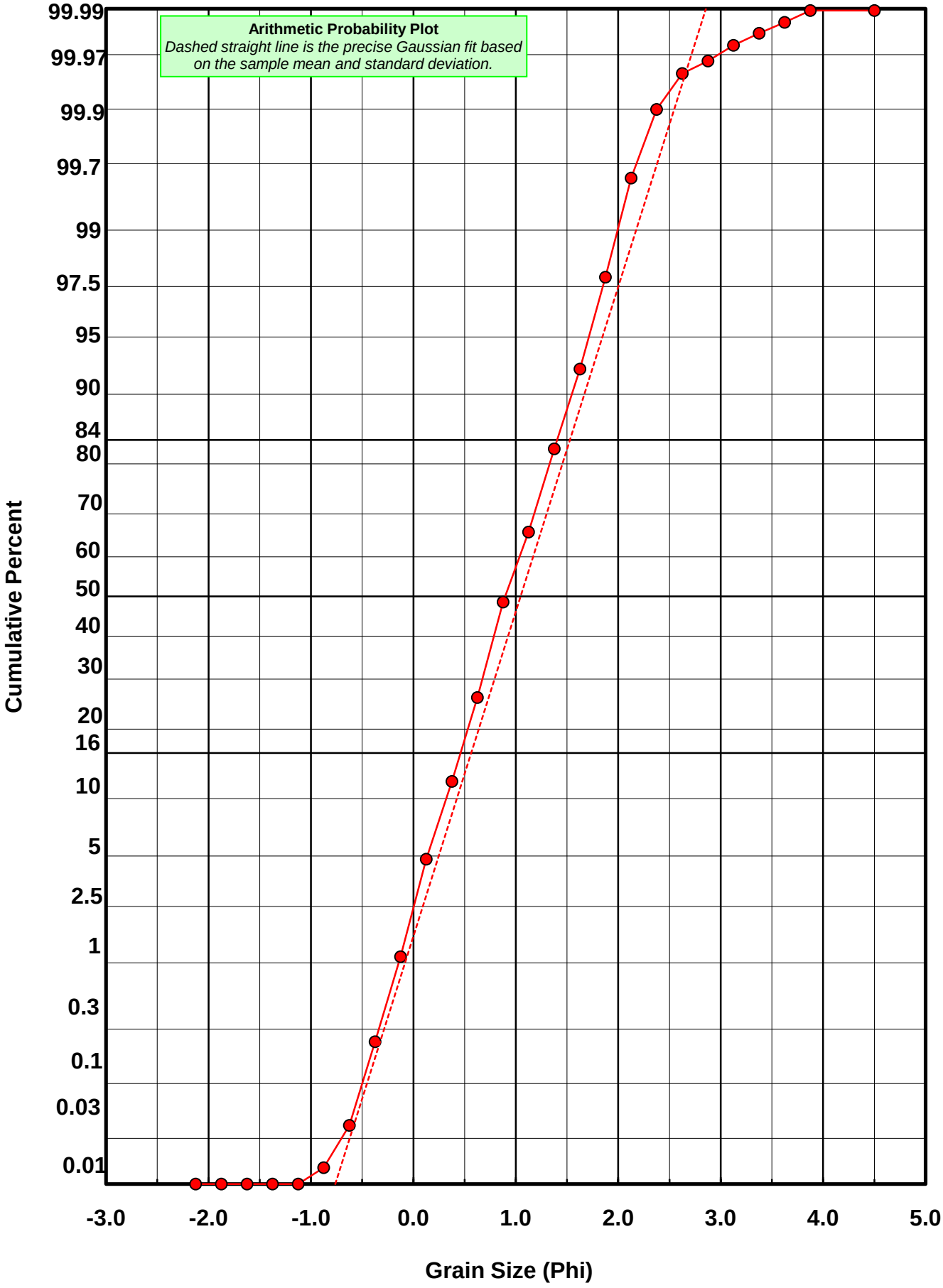
For Further Explanation, See Basillle et al. 2002

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-24-MB


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)