

**Onshore Grab Sample**

**Sample:** GF-20-BB  
**Sample Taken By:** D. Phelps  
**Sample Collected On:** 11/19/10  
**Splits?** N/A

**County:** Gulf  
**Latitude:** 29° 40' 58.9" N  
**Longitude:** 84° 22' 4.7" W  
**Datum:** WGS 84  
**Surf. Elev:** N/A  
**Datum:** N/A

**Fine Data Summary**

Total Sample Weight 50.822 grams  
Total Fines in Sample 0.072 grams  
Total Percent Fines 0.14 %

**Dry Sieving Summary**

Total Sample Weight 50.818 grams  
Total Digested Weight 49.902 grams  
Total Carbonate Weight 0.916 grams  
Total Silica % 98.20 %  
Total Carbonate % 1.80 %  
Carbonate/Silica Ratio 0.018

**General Comments:**

Not Enough Carbonate Material to do Post-Digestion Analysis

**Description**

Worked By: M. Ladle

# Pre-Digestion Grain Size Distribution

Onshore Grab Sample

Sample: GF-20-BB

Total Sample Mass: 50.818 grams

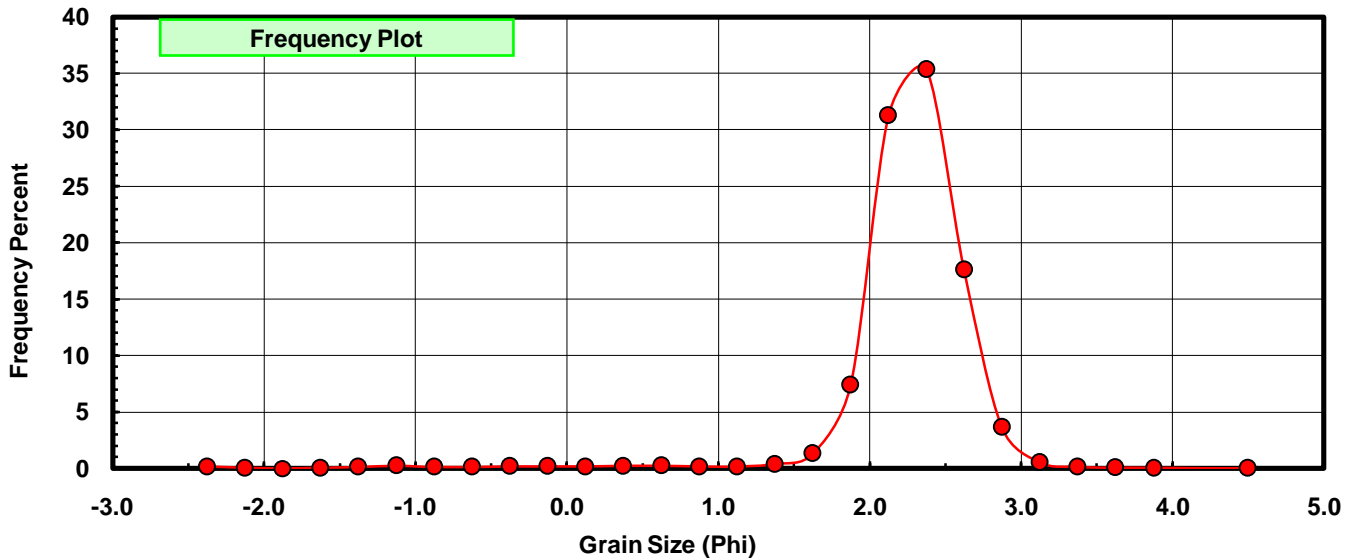
| Sieve Size (phi) | Sieve Midpt (phi) | Weight (grams) | Freq Weight % | Cumulative Weight % |
|------------------|-------------------|----------------|---------------|---------------------|
| -2.25            | -2.375            | 0.085          | 0.167         | 0.167               |
| -2.00            | -2.125            | 0.027          | 0.053         | 0.220               |
| -1.75            | -1.875            | 0.001          | 0.002         | 0.222               |
| -1.50            | -1.625            | 0.019          | 0.037         | 0.260               |
| -1.25            | -1.375            | 0.060          | 0.118         | 0.378               |
| -1.00            | -1.125            | 0.119          | 0.234         | 0.612               |
| -0.75            | -0.875            | 0.064          | 0.126         | 0.738               |
| -0.50            | -0.625            | 0.073          | 0.144         | 0.882               |
| -0.25            | -0.375            | 0.096          | 0.189         | 1.070               |
| 0.00             | -0.125            | 0.090          | 0.177         | 1.248               |
| 0.25             | 0.125             | 0.078          | 0.153         | 1.401               |
| 0.50             | 0.375             | 0.111          | 0.218         | 1.620               |
| 0.75             | 0.625             | 0.126          | 0.248         | 1.867               |
| 1.00             | 0.875             | 0.086          | 0.169         | 2.037               |
| 1.25             | 1.125             | 0.084          | 0.165         | 2.202               |
| 1.50             | 1.375             | 0.190          | 0.374         | 2.576               |
| 1.75             | 1.625             | 0.676          | 1.330         | 3.906               |
| 2.00             | 1.875             | 3.764          | 7.407         | 11.313              |
| 2.25             | 2.125             | 15.900         | 31.288        | 42.601              |
| 2.50             | 2.375             | 17.978         | 35.377        | 77.978              |
| 2.75             | 2.625             | 8.941          | 17.594        | 95.572              |
| 3.00             | 2.875             | 1.850          | 3.640         | 99.213              |
| 3.25             | 3.125             | 0.262          | 0.516         | 99.728              |
| 3.50             | 3.375             | 0.072          | 0.142         | 99.870              |
| 3.75             | 3.625             | 0.037          | 0.073         | 99.943              |
| 4.00             | 3.875             | 0.017          | 0.033         | 99.976              |
| 5.00             | 4.50              | 0.012          | 0.024         | 100.000             |

| Statistical Results |           |               |             |
|---------------------|-----------|---------------|-------------|
| Mean:               | 2.2561    | phi           | (0.2093 mm) |
| Standard Dev:       | 0.4996    | phi-units     | (0.7073 mm) |
| Skewness:           | -4.4224   | dimensionless |             |
| Kurtosis:           | 33.5640   | dimensionless |             |
| 5th Moment:         | -253.0486 | dimensionless |             |
| 6th Moment:         | 2042.4151 | dimensionless |             |
| RARD *              | 0.2215    | dimensionless |             |
| Median              | 2.1773    | phi           | (0.2211 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 Basille 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)      |



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