23. GRAIN SIZE ANALYSES

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Aboard the Glomar Challenger 10-cc grain size samples were selected from each prominent lithology or every 1.5 meters where the lithology appeared uniform. The sand, silt, and clay-size percentages were determined and are listed in Table 1.

The sand, silt, and clay-size fractions were determined by standard sieving and pipette analysis. The sediment sample was dried and then dispersed in calgon solution. If the sediment failed to dissegregate in calgon, it was dispersed in hydrogen peroxide. The sand-size fraction was separated by a 62.5 micron sieve with the fines being processed via standard pipette analysis following Stokes settling velocity equation (Krumbein and Pettijohn, 1938, p. 95-96) which is discussed in Volume 9 of the Initial Reports of the Deep Sea Drilling Project. Step by step procedures are in Volume 4. When using splits of the same sample and having different operators over a long period of time the sand, silt, and clay-size fractions are reproducible within $\pm$ 2.5 per cent (absolute).

Grain diameters can be expressed in phi units or microns, $\phi$ unit being the grain diameter in mm expressed as the negative log to the base 2. These units and parameters are discussed in detail by Inman (1952). Sediment classification is after Shepard (1954) based on the Wentworth (1922) scale. The ternary diagram of Shepard's sediment classification is in Volume 9 of the Initial Reports of the Deep Sea Drilling Project.

### Table 1

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Core, Section | Interval (cm) | Sand (%) | Silt (%) | Clay (%) | Classification |
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TABLE 93

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TABLE 94

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ACKNOWLEDGMENTS

These grain-size analysis were performed by D.H. Cameron, W.P. Jones, S.D. Jones, G.L. Patterson, and V.J. Sotelo. Computer processing was by P.B. Woodbury and P.L. Capps.

REFERENCES


