TR-116

UNIVERSITY OF RHODE ISLAND

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KENNETT

CRUISE REPORT

R/V TRIDENT CRUISE TR-116

SCHEDULE:

Departed	Narragansett	19 June 1972, 1600
Arrived	Narragansett	21 June 1972, 0700

REGION INVESTIGATED:

Long Island Sound south of Narragansett Bay

DURATION OF CRUISE

Two days

SCIENTIFIC PARTY:

Dr. J. P. Kennett, Chief Scientist, URI
Dr. David Shaw, Co-Investigator, URI
Ms. Charlotte Brunner, Technician, URI
Mr. Bruce Corliss, Graduate Student, URI
Mr. Douglas Williams, Graduate Student, URI
Mr. Richard Fillon, Graduate Student, URI
Ms. Jerry Fillon, Technician, URI
Mr. Craig Amerigian, Graduate Student, URI
Ms. Bonny McGregor, Technician, URI
Mr. Eric Cieplik, Technician, URI
Mr. A. Buddington, Marine Technician, URI
Mr. E. Houde, Marine Technician, URI

PURPOSE:

To test piston coring units and associated deck gear such as A-frame.

PROCEDURES:

In shallow water (50 meters) at a point sixteen miles south of Narragansett Bay, the piston coring equipment was initially tried using one twenty foot barrel. This attempt was successful; although the core was relatively short because of impact with a hard shell layer. The

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Trident then cruised forty miles further south to the head of a submarine canyon where muddy sediment was known to exist. A further attempt using the piston coring apparatus was made, this time with two barrels (40 feet). This attempt was also successful, and a twenty-three foot core was obtained. At the same location a third attempt was made using the apparatus. This time three barrels were used. Because the basic system was shown to be working correctly, the three barrel core was merely lowered over the edge of the ship and retrived to determine that the pulley systems were functioning correctly. An on board welder made adjustments to the system as required during the equipment trials.

RESULTS:

The system was shown to be working correctly and that all that was further required was practice by the crews to perfect the coring operation.

The two days at sea are assigned to National Science Foundation, Grant Number GA-36191X (Kennett, principal investigator).