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Cruise Report

Cooperative Survey with University of Maryland
along South Shore of Fire Island, Long Island, New York
between Fire Island Inlet and Moriches Inlet

Charter Boat -- TILICHI

22 - 23 June 1982

G. B. Tirey
U.S. Geological Survey
Office of Marine Geology
Woods Hole, MA 02543

Research Vessel: Charter boat TILICHI

Cruise Number: TILICHI - 82

Cruise Dates: 22-23 June 1982

Area of Study: South shore of Long Island along Fire Island between Fire Island Inlet and Moriches Inlet from shore out to a distance of approximately 4 miles.

Base of Operations: Babylon and Shirley, New York

Scientific Objective: To determine whether or not Fire Island is a more or less stable land mass or has migrated from south to north in recent geologic time.

Personnel: Steve Leatherman, University of Maryland
Bill Pansteasuro, University of Maryland
Dave Nichols, USGS, Woods Hole
Rusty Tirey, USGS, Woods Hole
Frank Zory, Owner and boat operator

Instrumentation:

Innerspace Technology 25-joule sparker with pressurized electrode, Innerspace array, Innerspace preamplifier and filter, EPC 1600-seismic recorder, EPC 3200 seismic recorder, and Honda generator.

Operational Procedure:

Sparker electrode and hydrophone array were towed approximately 100 feet behind the boat with a separation of 8 feet. Navigation was accomplished by visual sights and dead-reckoning by the University of Maryland personnel. Lines were run perpendicular from as near shore as the skipper of the boat thought prudent out to a distance of approximately 4 miles from shore. Two additional lines were run parallel with shore in water depths of approximately 30 and 70 feet.

Data from this survey were retained by the University of Maryland personnel. The quality of the geophysical data could be classified as being from fair to good. The data would have been of better quality if there had been less swell during the survey period.