

#92024rpt

**Cruise report- Delaware II 92-10 September 22-26,1992**

**Area: New York Bight**

**Chief Scientist: John S. Schlee- USGS, Woods Hole** JS

9/22(JD 266) 1430 EDT departed Woods Hole with a complement of six scientists and technicians (Schlee, Page Valentine, Jim Vaughan, Eric Schmuck, Barbara Seekins, and Andrew Brill) headed for the Hudson Shelf Valley on the continental shelf near the approaches to New York Harbor. Moderate seas (2-4'), partly sunny and humid; lifeboat and fire drills conducted

9/23 (JD 267) Arrived at the study area in the early morning and discovered that key supplies for the CHIRP recorder and connectors had not been placed aboard the ship. 0900 EDT proceeding to the Sandy Hook Marine Lab (NMFS) to go ashore to get the missing supplies and connector. Dave Mason arranged for us to pick up the supplies in Edison New Jersey, and from the Lamont-Doherty Geological Observatory. Thanks to the effort of John Sibunka of the NMFS Sandy Hook Lab, we were able to government van, and at ~ 1230 EDT Jim Vaughan and I took off for the wilds of northern New Jersey to pick up the supplies, arriving back to the ship by 1730 EDT. By 1745 we were underway to start the first sonic line. 2223 EDT, side scan fish deployed; 2315 EDT, CHIRP fish deployed. 2355 EDT, start of line A under moderate seas, cloudy skies.

9/24 (JD 268) Ran lines A-E in building seas (6" plus). Lines F-J through the late morning. 0745 EDT one channel out on the side scan; later on that morning the fish was flown into the bottom and the tail-fins were lost, causing us to cease the side scan operations. Seas continued to build so that it was difficult to hold the course. After Line J we broke off and began the a southeasterly course along the seaward half of Line V (mid-valley line). Much too rough to samples

9/25 (JD 269) Continued rough seas (10-20 feet) and cloudy weather. Ran lines S, R, Q, P, O, N, M, L, to J, and then began to run the landward end of Line V. Still too rough to sample. Tropical Storm Danielle which had held to the North Carolina for the past few days began to move up the coast toward New Jersey, Hence at 1340 EDT we pulled the CHIRP sonar fish, terminating the line, and the cruise. The ship proceeded up the East River

and through Long Island Sound, headed for Woods Hole.

9/26 (JD 270) 1045 EDT, arrived back at the NMFS dock in Woods Hole, under cloudy skies completing a moderately successful cruise in spite of poor sea state

# HUDSON SHELF VALLEY

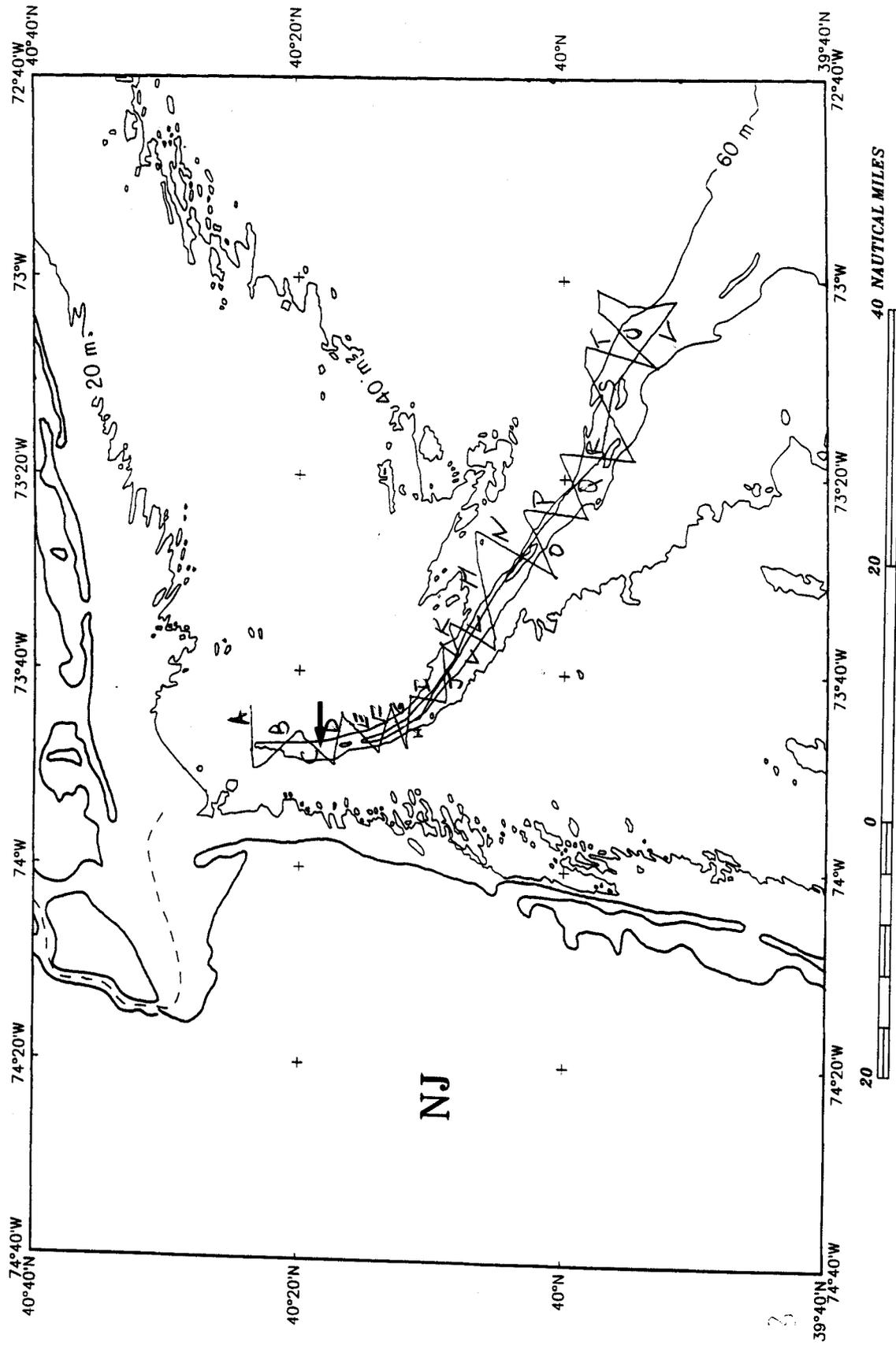


Figure 3. Track of the September 1992 cruise aboard the R/V DELAWARE II in which a survey of the near-surface stratigraphy of the Hudson Shelf Valley was completed with a CHIRP high-resolution seismic sub-bottom profiler. Arrow indicates the profile segment shown in Fig. 5.