

Figure 1.—Map showing location of New Haven Harbor and New Haven Dumping Ground study areas (shaded) and major shorelines, moraines, and the sites of other surveys that are part of this series. Names in italics are from (1998). Roanoke Point—Poppe and others (1998); Falkner Island—Poppe and others (1999a); Hammond—Poppe and others (1997); Niantic Bay—Poppe and others (1998a); New London—Poppe and others (1992); Mallett and others (1994); and Zaic and others (1995). Fishers Island Sound—Poppe and others (1998a).

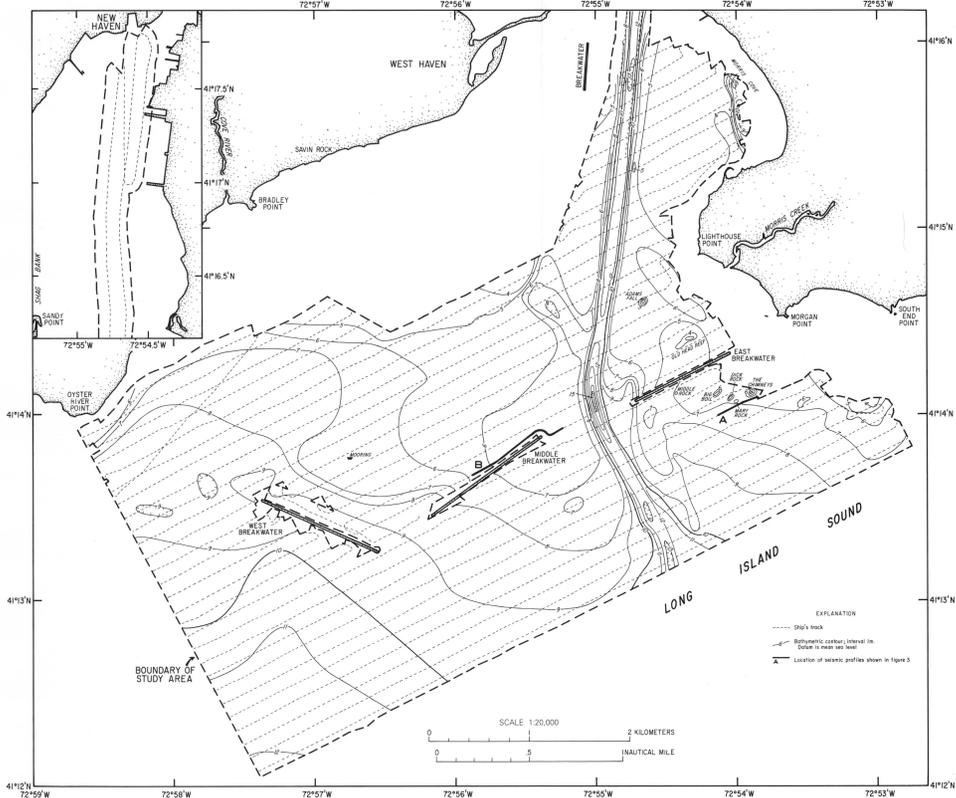


Figure 2.—Bathymetric map of the New Haven Harbor study area. Depths are in meters, have been corrected for tides, and are adjusted to mean sea level. Fine dashed lines represent tracks along which the geophysical data were collected. Locations of profiles A and B, shown in figure 3, are indicated.

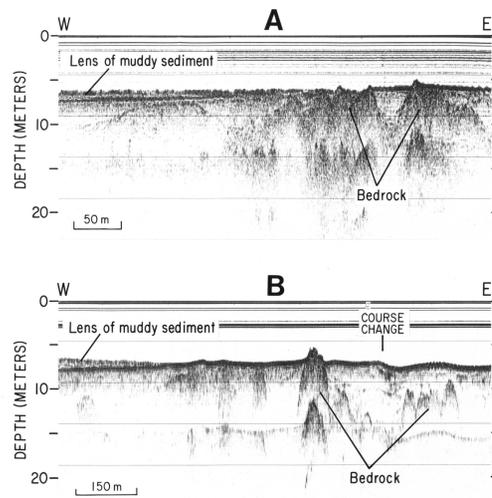


Figure 3.—Subbottom profiles in the New Haven Harbor study area. Profile locations are shown in figure 2. A, Profile from south of the east breakwater showing bedrock outcrop and a thin surficial lens of muddy marine sediment. B, Profile showing the bedrock control of the bathymetric high that extends south from West Haven and a thin surficial lens of muddy marine sediment north of the middle breakwater.

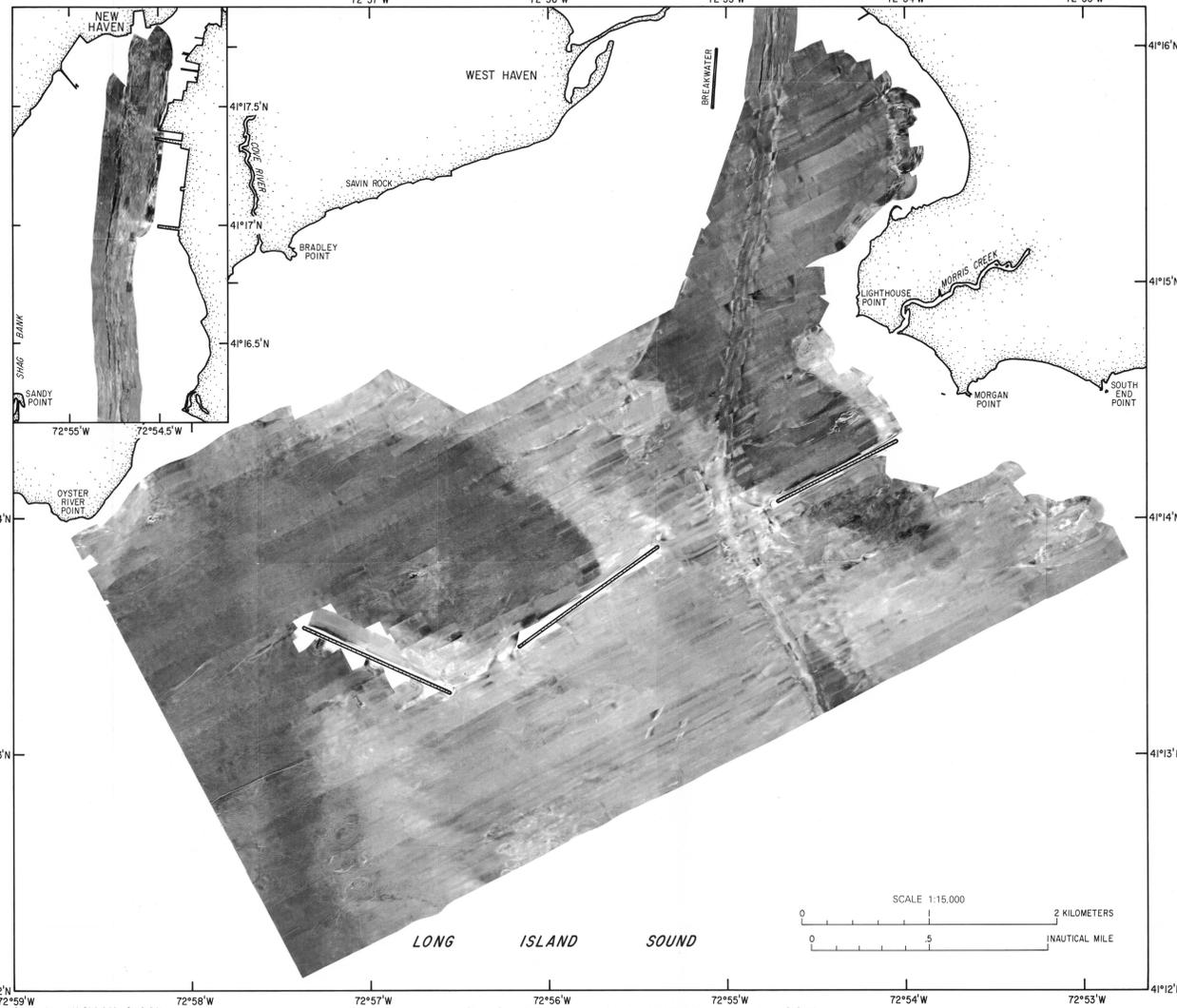


Figure 4.—Sidescan sonar mosaic of the sea floor in the New Haven Harbor study area. Light tones on the image represent areas of relatively high backscatter (typically coarse grained sediments); dark tones represent areas of relatively low backscatter (typically fine grained sediments).

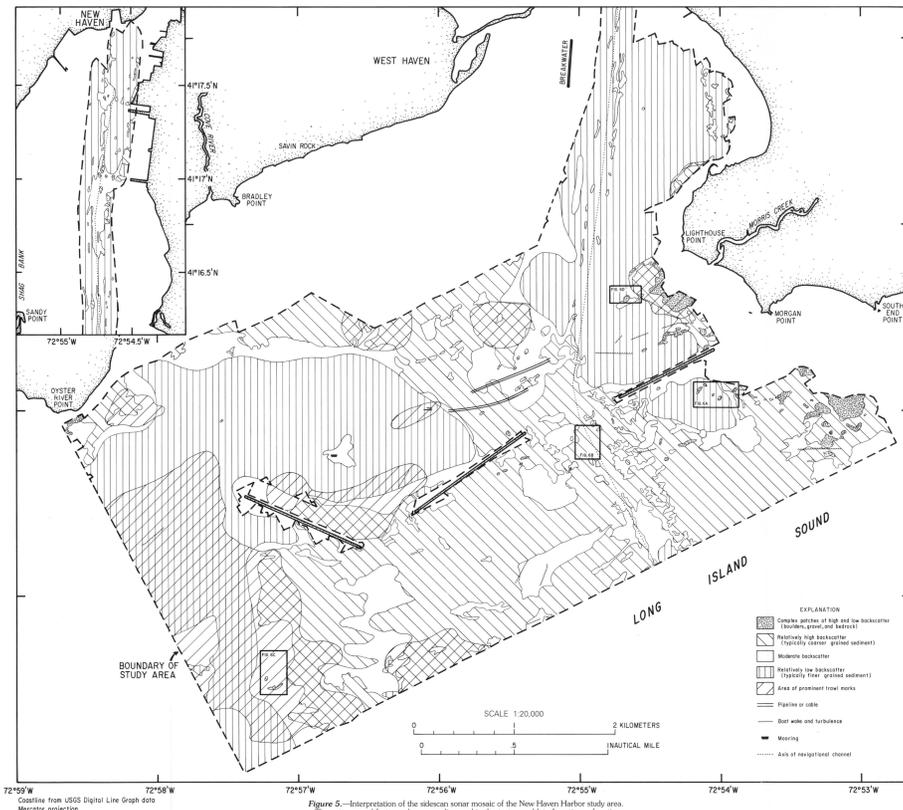


Figure 5.—Interpretation of the sidescan sonar mosaic of the New Haven Harbor study area. The patterns and features shown are discussed in the text paragraph. Locations of sections of sidescan sonar records shown in figure 6 are indicated.

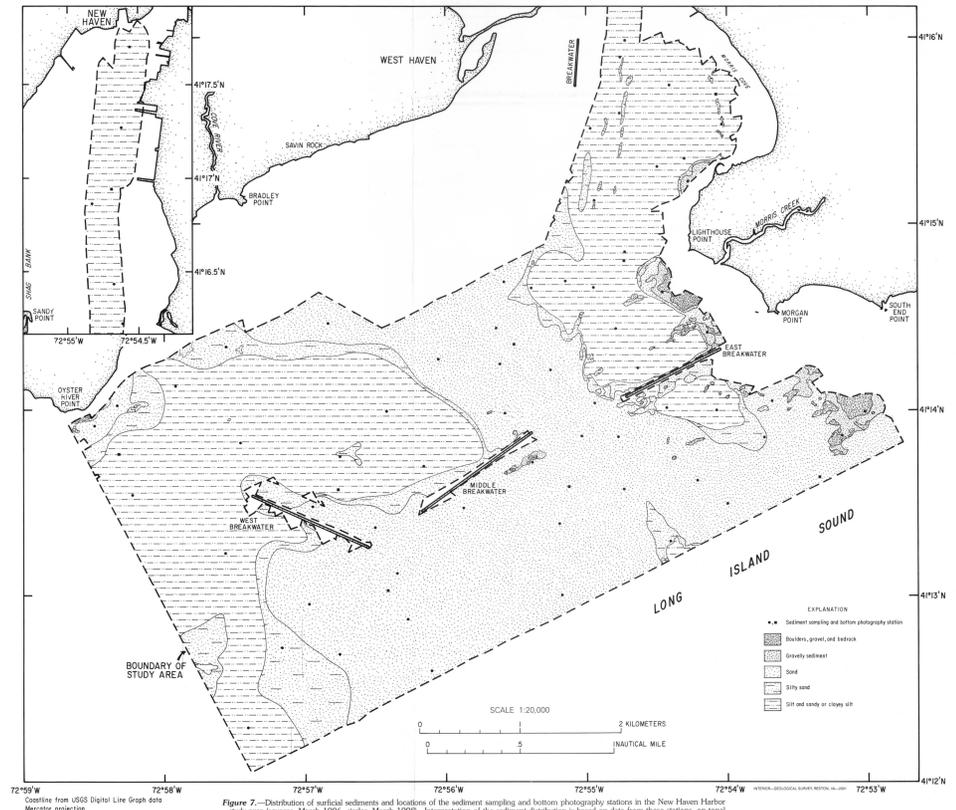


Figure 7.—Distribution of vertical sediments and locations of the sediment sampling and bottom photography stations in the New Haven Harbor study area (square, March 1996; circle, March 1998). Interpretation of the sediment distribution is based on data from these stations, on local changes in backscatter on the sidescan sonar image (fig. 4), and on correlation of the textual and backscatter data with the bathymetry (fig. 2).

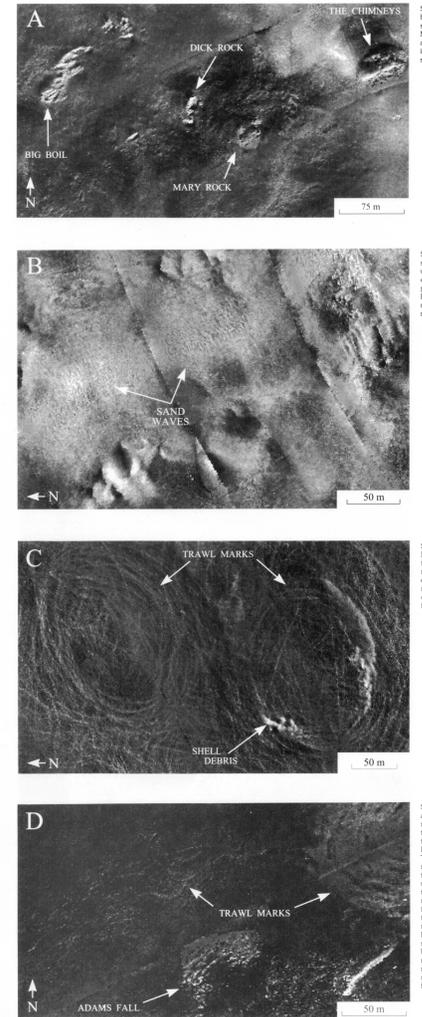


Figure 6.—Sections of sidescan sonar records from the New Haven Harbor study area; locations are shown in figure 5.

SIDESCAN SONAR IMAGES, SURFICIAL GEOLOGIC INTERPRETATIONS, AND BATHYMETRY OF THE LONG ISLAND SOUND SEA FLOOR IN NEW HAVEN HARBOR AND NEW HAVEN DUMPING GROUND, CONNECTICUT

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