DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH
THE STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GEOLOGICAL AND NATURAL HISTORY SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-1939-A
SHEET 1 OF 3
PAMPHLET ACCOMPANIES MAP

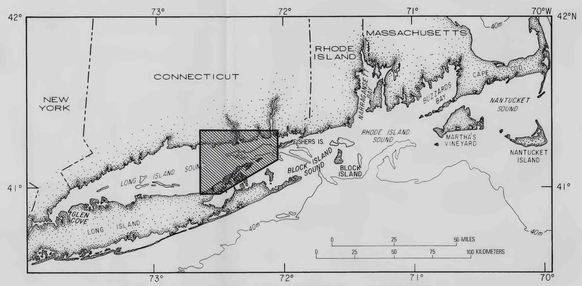


FIGURE 1.—INDEX MAP SHOWING STUDY AREA.

KEY TO ACOUSTIC UNITS AND MAJOR UNCONFORMITIES

Qm—Postglacial marine deposits

um—Marine unconformity

Qfe—Fluvial and estuarine deposits (postglacial)

uf1—Postglacial fluvial unconformity

Qgl—Glaciolacustrine deposits

Qt—Glacial deposits, mostly till

Qtm—End-moraine deposits

Qd—Glacial drift

uf2—Late Tertiary–early Pleistocene fluvial unconformity

Ku—Coastal-plain strata

uf3—Pre-Cretaceous fluvial unconformity

Pz—Bedrock

Horizontal scales are approximate.
Vertical scales are based on 1,500 m/s.
Reflectors are dashed where extrapolated.
Vertical exaggeration is abbreviated vert. exag.

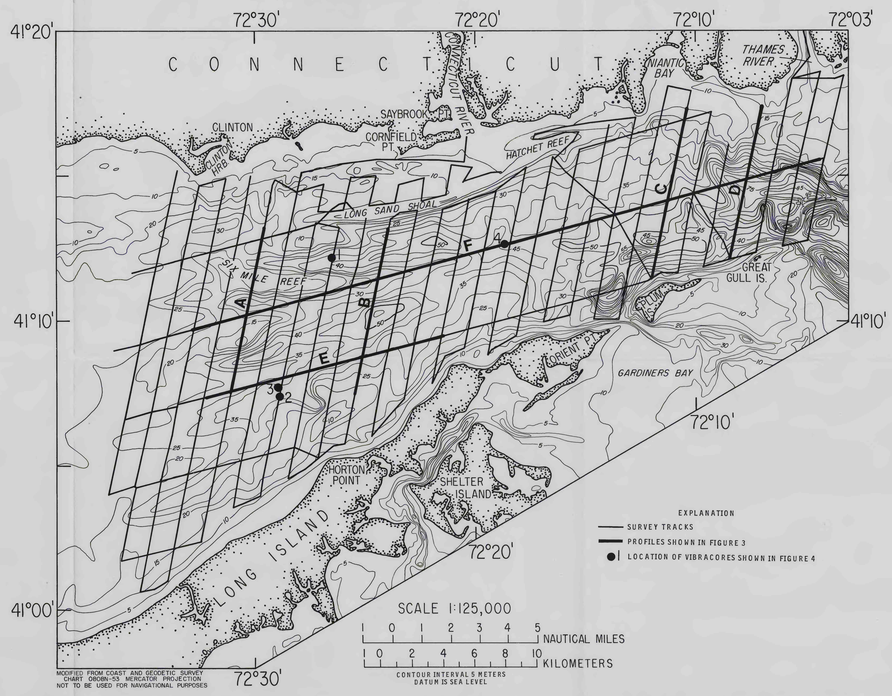
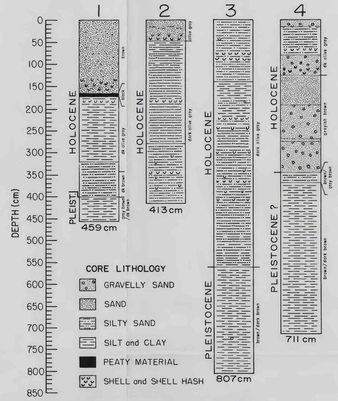


FIGURE 2.—SEA-FLOOR TOPOGRAPHY, LOCATION OF HIGH-RESOLUTION SUBBOTTOM PROFILES, AND VIBRACORE LOCALITIES.



See figure 2 for localities. Ages of units were assigned on the basis of the lithology and seismic profile interpretations. Colors correspond to color designations listed in the Munsell Soil Color Charts (Munsell Color Company, 1975).

FIGURE 4.—LITHOLOGIC AND STRATIGRAPHIC COLUMNS OF VIBRACORES.

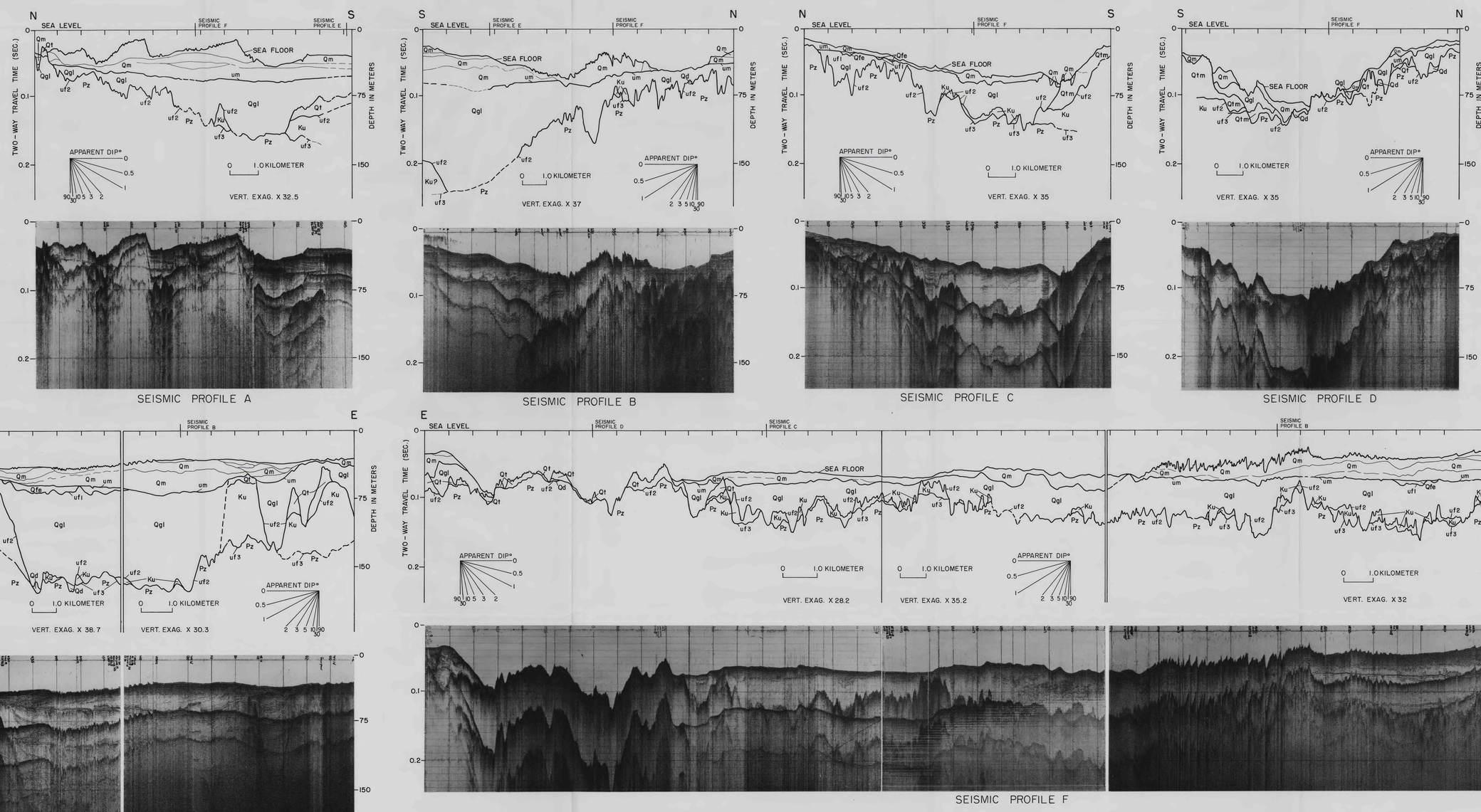


FIGURE 3.—SELECTED SEISMIC PROFILES AND INTERPRETIVE SECTIONS.

MAPS SHOWING THE STRATIGRAPHIC FRAMEWORK AND QUATERNARY GEOLOGIC HISTORY OF EASTERN LONG ISLAND SOUND

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